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Welding Equipment & Supplies



WELDING EQUIPMENT & SUPPLIES

Catalogue W108

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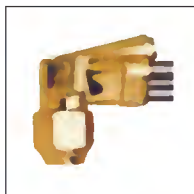
We are pleased to offer you the finest in
WELDING EQUIPMENT AND SUPPLIES
from the following national brands...





CUTTING & WELDING OUTFITS

All *Harris Classic* outfits include the following torch features:
Solid forged head, brazed triangular tube design, ease-on cutting valve and protected torch union



Solid Forged Head



Brazed Triangular Tube Design



Ease-On Cutting Valve

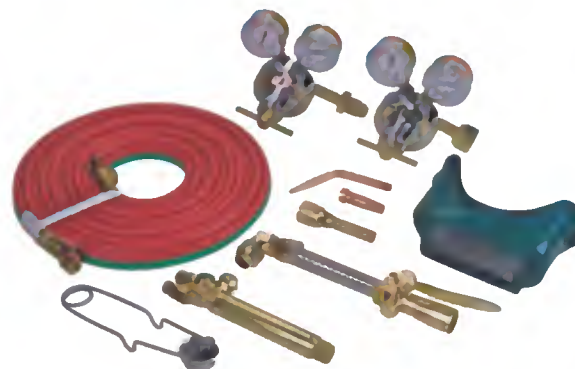


Protected Torch Union

STEELWORKER® CLASSIC

- Cuts to 5" and welds to 1/2"
- **Includes:** Torch handle (85), mixer (D-85), cutting attachment (72-3), cutting tip (6290-1AC), welding tip (23A90-5), single stage 0-100 PSIG oxygen regulator, single stage 0-15 PSIG fuel gas regulator, 20' x 3/16" hose, goggles and striker

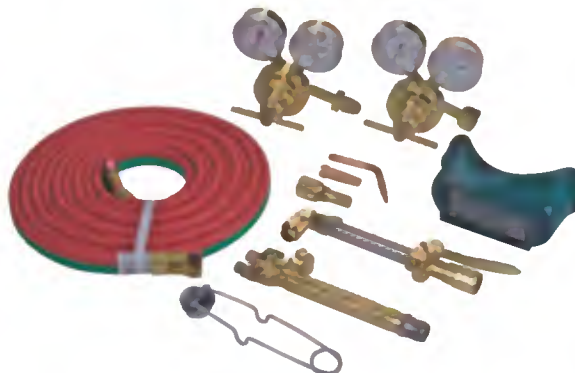
Order No. TTT896
MFG No. 4403069



PIPELINER® CLASSIC

- Cuts to 6" and welds to 1"
- **Includes:** Torch handle (43-2), mixer (E-43), cutting attachment (73-3), cutting tip (6290-1AC), welding tip (23A90-5), single stage 0-125 PSIG oxygen regulator, single stage 0-15 PSIG fuel gas regulator, 20' x 1/4" hose, goggles and striker

Order No. TTT895
MFG No. 4403155



EXPERT® CLASSIC

- Cuts to 4" and welds to 1/2"
- **Includes:** Torch handle (85), mixer (D-85), cutting attachment (72-3), cutting tip (6290-1AC), welding tip (23A90-5), single stage 0-100 PSIG oxygen regulator, single stage 0-15 PSIG fuel gas regulator, 20' x 3/16" hose, goggles and striker

Order No. TTT897
MFG No. 4403087



CLASSIC TORCH HANDLE NO. 43-2

- High capacity combination handle
- Stainless steel head
- Equipped with *FlashGuard*® check valves
- Capacity: cuts 6", welds to 1"
- 9 1/2" length

Order No. TTT898

MFG No. 1401150



CLASSIC TORCH HANDLE NO. 85

- Silver brazed twin tube construction for safety and durability
- Equipped with *FlashGuard*® check valves
- Capacity: cuts 5", welds to 1/2"
- 8 1/2" length

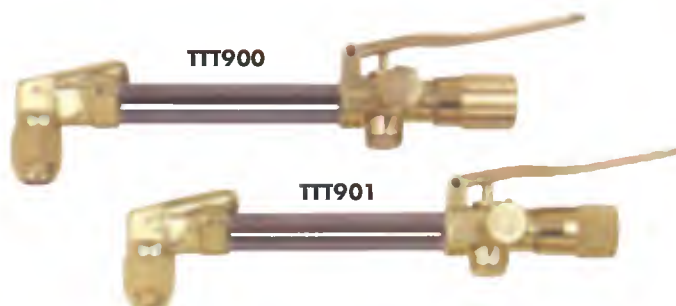
Order No. TTT899

MFG No. 1401340



CLASSIC CUTTING ATTACHMENTS

- Solid forged head resists abuse and distortion
- Triangular tube design is compact and lightweight with exceptional strength and rigidity
- Brazed connections prevents leaks
- Protected torch union nut protects seats and O-rings from abuse
- Solid forged lever for exceptional strength
- Ease-on cutting oxygen control for smoother starts
- 90° torch head angle



Order No.	MFG No.	Ref. No.	Uses Torch Head
TTT900	1300340	73-3	43-2
TTT901	1300380	72-3	85



HAND CUTTING TORCHES

- The industry standard by which all other designs are compared!
- Cuts to 12"
- Solid forged head
- Triangular tube design
- Brazed connections
- Equipped with *FlashGuard*® check valves
- Choice of positive pressure **"E" Torches** for acetylene and alternate fuels, and low pressure **"F" Injector Torches** for maximum performance with alternate fuels such as propane, natural gas, *MAPP*® gas, and propylene
- Note that "F" torches are **NOT FOR USE** with acetylene



Order No.	MFG No.	Ref. No.	Head°	Length"
POSITIVE PRESSURE "E" TORCHES				
TTT902	1003464	62-5AEL	70	21
TTT903	1003440	62-5EL	90	21
TTT904	1003351	62-5AEL	70	36
TTT905	1003441	62-5EL	90	36
LOW PRESSURE "F" INJECTOR TORCHES				
TTT906	1003370	62-5AFL	70	21
TTT907	1003470	62-5FL	90	21
TTT908	1003390	62-5AFL	70	27
TTT909	1003449	62-5FL	90	27
TTT910	1003400	62-5AFL	70	36
TTT911	1003480	62-5FL	90	36
TTT912	1003426	62-5BFL	180	36
TTT913	1003411	62-5AFL	70	48
TTT914	1003481	62-5FL	90	48
TTT915	1003421	62-5BFL	180	48



TTT905

21610E

SHIELDING GAS KITS

- Available with flowgauge or flowmeter regulator
- Includes 10' x 3/16" hose with inert gas fittings



Order No.	MFG No.	Gas	Flow Capacity, SCFH	Regulator
TTT916	4400229	Argon	0-60	Flowgauge
TTT917	4400231	Carbon Dioxide	0-60	Flowgauge
TTT918	4400235	Argon	0-70	Flowmeter
TTT919	4400234	Carbon Dioxide	0-70	Flowmeter



SINGLE STAGE REGULATORS NO. 25

- One-piece encapsulated seat design with an internal filter and a PTFE Teflon® seat
- Chrome-plated bonnet with forged brass body
- 2" dual scale gauges
- Gauge guards sold separately



TTT926



TTT927



Order No.	MFG. No.	Gas	Max Inlet PSIG	Delivery Pressure Range, PSIG	Delivery Pressure Gauge, PSIG	Supply Pressure Gauge, PSIG	Inlet Connection	Outlet Connection
TTT920	3000380	Acetylene	500	0-15	30	400	CGA510	9/16"-18, LH
TTT921	3000450	Propane*	500	0-50	60	400	CGA510P	9/16"-18, LH
TTT922	3000510	Oxygen	3000	0-100	150	4000	CGA540	9/16"-18, RH
TTT923	3000540	Ar, N ₂ , He	3000	0-100	150	4000	CGA580	9/16"-18, RH
TTT924	3000550	Industrial Air	3000	0-100	150	4000	CGA590	9/16"-18, RH
TTT925	3000806	N ₂	3000	0-200	400	4000	CGA580	9/16"-18, RH

GAUGE GUARDS

TTT926	4300140	Fuel Gas
TTT927	4300139	Oxygen

*Regulator designated for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

AIR/ACETYLENE FUEL TORCH KITS

- Available in "B" or "MC" tank configurations
- Quick disconnect handle and swirl tip(s)
- 12' hose with A x A fittings



Order No.	MFG No.	Tip No.	Regulator	Tank Connection
SOFT SOLDERS UP TO 3", SILVER BRAZING 1 5/8"				
TTT928	4400052	A3, A11	601-15-B (520)	B (CGA520)
TTT929	4400053	A3, A11	601-15-MC (200)	MC (CGA200)
SOFT SOLDERS 1 1/2", SILVER BRAZING 3/4"				
TTT930	4400054	A5	601-15-B (520)	B (CGA520)
TTT931	4400055	A5	601-15-MC (200)	MC (CGA200)





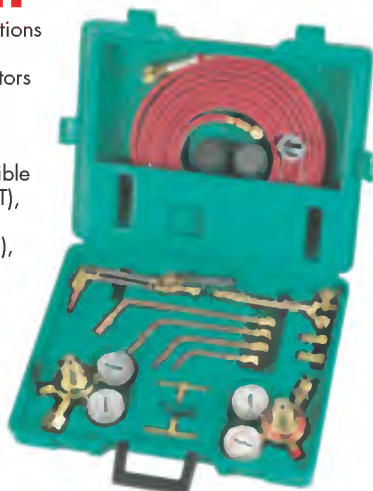
WELDING CUTTING OUTFITS

JOBBER OUTFIT

- Ideal for general duty applications
- Medium-duty torch handle, cutting attachment and regulators
- Welds up to 1/4" and cuts up to 1/2"
- 20' twin hoses
- Victor® Super Range® compatible
- **Includes:** Torch handle (142T), cutting attachment (142C), regulators (152X-80/152Y-15), cutting tip (172C-0), welding nozzles (172W-0/-2/-4), heating nozzle (172H-6), twin hoses, goggles, striker, plastic case

Order No. 331-1010

MFG No. 1120



COMMANDER OUTFIT

- Ideal for industrial and commercial applications
- Heavy-duty welding and cutting attachment and brass regulators
- Welds up to 1/2" and cuts up to 3/4"
- 25' twin hoses
- Victor® Journeyman® compatible
- **Includes:** Torch handle (143T), cutting attachment (143CA), regulators (153X-125/153Y-15), cutting tip (173C-1), welding nozzles (173W-1/-3/-5), heating nozzle (173H-8), twin hoses, goggles, striker, plastic case

Order No. 331-1020

MFG No. 1130



OXY-FUEL THE SMALL TORCH™ KITS

- Designed for plumbing, HVAC, refrigeration and jewelry manufacturing and repair
- Braze and solder material from the tiniest up to 1/8" thick steel
- Melts up to 3 oz silver
- Provides stable and precise concentrated feather flame up to 6000°F for various material such as metals, ceramics and glass
- Acetylene gas service
- **Includes:** Torch handle (10ST), tips (10STP2 - 6), hose, and oxy/fuel regulators (where applicable)



333-102201204



333-102201209



Order No.	MFG No.	Description
333-102201204	GKSTA06	Kit w/o Regulators
333-102201209	GKSTA16	Kit with Oxy/Fuel Regulators

LIGHT/MEDIUM DUTY WELDING & CUTTING OUTFIT

- Comes with check valves
- Welds up to 3/16" and cuts up to 1/2"
- Victor® compatible

Order No. 331-3025

MFG No. 21B-1SPCV



EXCALIBUR OUTFIT

- Designed for all trades
- Welds up to 1/4" and cuts up to 1"
- 20' twin hoses
- Harris® Steel Worker™ Classic compatible
- **Includes:** Torch handle (442T), cutting attachment (442C), regulators (452X-80/452Y-15), cutting tip (472C-1), mixer (472M), welding elbows (472W-3/-5/-7), twin hoses, goggles, striker, plastic case

Order No. 331-1885

MFG No. 4120



TOTE-A-TORCH OUTFIT

- Light-to-medium duty portable outfit
- Welds up to 3/16" and cuts up to 1/2"
- Rear entry regulators for better balance
- Acetylene regulator has an "MC" (CGA 200) inlet connection; oxygen regulator has standard CGA 540 connection
- 12.5' twin hoses
- Victor® portable torch or Super Range® compatible
- **Includes:** Torch handle (142T), cutting attachment (142C), regulators (210X-80/210Y-15), cutting tip (172C-0), welding nozzle (172W-1), twin hoses, goggles, striker, plastic carrier, one "MC" acetylene cylinder, one "R" oxygen cylinder

Order No. 331-1070

MFG No. 12-PTC





WELDPRO GAS OUTFIT



- Medium-duty outfit provides right combination of components and performance for most welding, cutting and heating jobs
- Tips included cut to 3/4" or weld to 1/4"
- Regulator: POL acetylene (CGA-510) and oxygen (CGA540) "B" hose fittings
- UL listed torch and regulators
- **Includes:** Stainless steel needle valves, 3 welding tips, heating tip, cutting tip, lighter, goggles, 20' hose, tip cleaner and plastic case
- Interchangeable with Victor® style

Order No. TTT397 MFG No. KM-5TA-PV

MEDIUM-DUTY WELDING & CUTTING OUTFIT



PROWELD
by GENTEC

- Can weld up to 1/4" and cut up to 1/2"
- Ideal general purpose kit for construction, petroleum and chemical industries
- Comes with deluxe tool box for easy transportation
- **Includes:** Torch handle with check valve, cutting attachment, oxygen/acetylene regulators, cutting tip, welding nozzle, 20' twin hose, goggles and striker

Order No. TTT002 MFG No. 7120

LIGHT/MEDIUM DUTY TOTE-A-TORCH OUTFIT

PROWELD
by GENTEC



- For use in general repair, maintenance and HVAC applications
- Can weld up to 3/16" and cut up to 1/2"
- Rear entry regulators provide better balance
- Acetylene regulator has an MC CGA200 inlet connection; oxygen regulator has standard CGA540 connection
- **Includes:** Torch handle with check valve, cutting attachment, oxygen/acetylene regulators, cutting tip, welding nozzle, 12.5' twin hose, goggles, striker, polypropylene carrier, tank wrench and cylinders

Order No. TTT892 MFG No. 72-PTC

HEAVY-DUTY WELDING & CUTTING OUTFIT



PROWELD
by GENTEC

- Can weld up to 1/2" and cut up to 3/4"
- Ideal for industrial and commercial applications
- Comes with deluxe tool box for easy transportation
- **Includes:** Torch handle with check valve, cutting attachment, oxygen/acetylene regulators with 2 1/2" double-scale gauges, cutting tip, welding nozzle, 20' twin hose, goggles and striker

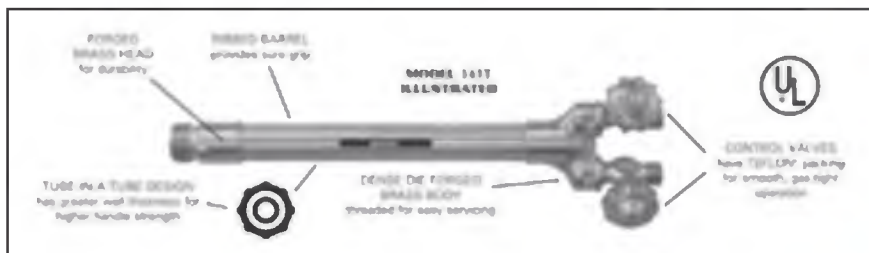
Order No. TTT891 MFG No. 7130

21612E

CUTTING ATTACHMENTS

TORCH HANDLES

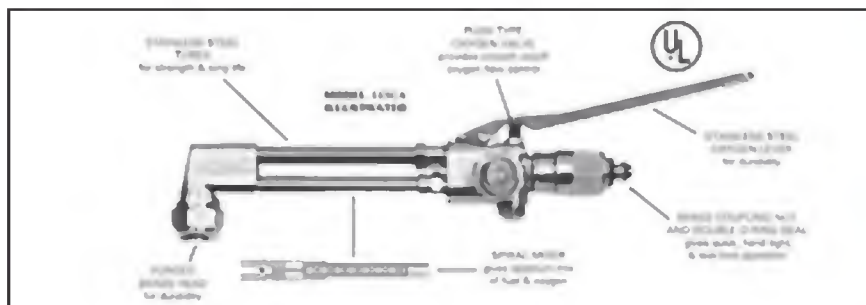
- Available in light, medium and heavy-duty models
- Torch handles are machined from high quality forged brass
- Threaded construction facilitates easy repairs and servicing
- Ribbed barrel provides sure grip
- Control valves have Teflon® packing for smooth, gas-tight operation
- Tube-in-tube design has greater wall thickness for higher handle strength



Order No.	MFG No.	Welding Range"	L"	Equivalent	Uses Cutting Attachment	Uses Welding Nozzle	Uses Heating Nozzle
VICTOR® EQUIVALENT							
331-1125	141T	1 1/4	7 3/4	J-100C	141C	171W 871W, 881W	171H
331-1135	142T	1 1/4	7 3/4	100C	142C	172W 872W, 882W	172H 872H
331-1145	143T	3	8 1/2	315C	143CA	173W 873W, 883W	173H 873H
HARRIS® EQUIVALENT							
331-1915	442T	1/2	7 3/4	85	442C	472W, 472M	472H-2
331-5505	443T	1	9 1/2	43-2	443C	472W, 473M	472H-2

CUTTING ATTACHMENTS

- Made from high quality die-forged brass
- Available in light, medium and heavy-duty models
- Featuring tube mix design, models **141C**, **142C** and **143CA** can be used with acetylene, propene, MAPP®, propylene, fuel gases and natural gas (2 PSIG and above)
- Models **442C** and **443C** have three tubes in a triangular arrangement and feature a flat seat tip design and on in-head mixer
- Stainless steel tubes for strength and long life
- Push type oxygen valve provides smooth on/off oxygen flow control
- Stainless steel oxygen lever for durability
- Brass coupling nut and double O-ring seal gives quick, hand tight and leak-free operation
- Spirol mixer gives optimum mix of fuel and oxygen
- Forged brass head for durability



Order No.	MFG No.	Cutting Range"	Length"	Equivalent	Uses Torch Handle	Uses Cutting Tip
VICTOR® EQUIVALENT						
331-1120	141C	3	8 1/4	CA1260	140T 141T, 141TA	172C 172CN
331-1130	142C	6	8 1/4	CA1350	142T	172C, 172CN
331-1147	143CA	8	10 5/8	CA2460	143T 143TL, 143TLH	173C 173CN
HARRIS® EQUIVALENT						
331-3295	442C	5	9 1/2	72-3	442T	472C, 472CN
TT112	443C	6	9 1/2	73-3	443T	472C, 472CN

GENTEC®
GENSTAR TECHNOLOGIES

331-1125



331-1135



331-1145

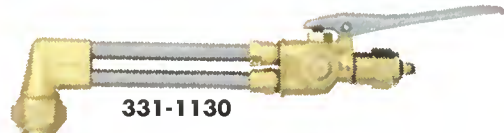


GENTEC®
GENSTAR TECHNOLOGIES

331-1120



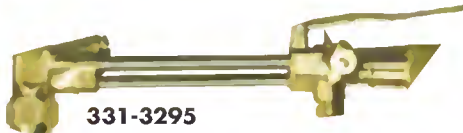
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331-1147



331-3295



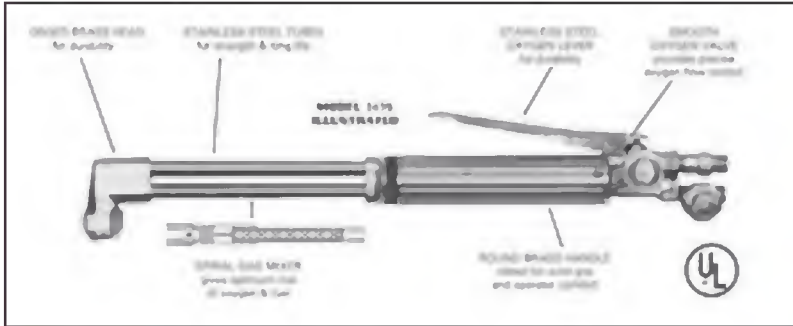
TT112



19809E

HAND CUTTING TORCHES

- Machined from high quality forged brass
- **Series 163** features tube mix design
- **Series 463** has triangular tubes arrangement and are compatible to *Harris®* model 62-3
- Forged brass head for durability
- Stainless steel tubes for strength and long life
- Stainless steel oxygen lever for durability
- Smooth oxygen valve provides precise oxygen flow control
- Round brass handle ribbed for solid grip and operator comfort
- Spiral gas mixer gives optimum mix of oxygen and fuel



163 SERIES

Order No.	MFG No.	Cutting Range"	Length"/Head Angle°	Victor® Equivalent	Uses Cutting Tip
331-1205	163L	14	21/90	ST1600C	173C/173CN
TTT108	163L-36	14	36/90	ST1630C	
331-5500	163L-48	14	48/90	ST1650C	

463 SERIES

Order No.	MFG No.	Cutting Range"	Length"/Head Angle°	Cutting Tip
OXY-ACETYLENE				
331-4660	463EL-21	12	21/90	472C
TTT109	463EL-36	12	36/90	472C
OXY-FUEL GASES				
TTT110	463FL-21	12	21/90	472CN
TTT111	463FL-36	12	36/90	472CN

MACHINE CUTTING TORCHES

- Designed to handle all applications of machine cutting
- 2-hose version
- Can be used with various fuel gases such as acetylene, propane, natural gas, propylene and *MAPP®*
- High quality brass
- Standard 1 3/8" barrel
- 32 teeth/inch rack
- Equipped with reverse flow check valve on each inlet connection for operation safety
- Machine torch holder available, sold separately



Order No.	MFG No.	Cutting Range"	Barrel Length"	Racking Length"	Uses Cutting Tip
FOR ACETYLENE AND OTHER PRESSURIZED GASES					
331-4840	MC210AR	8	10	7	173C/173CN
FOR ALL FUEL GASES EXCEPT ACETYLENE					
TTT113	MC210FR	8	10	7	173CN

REPLACEMENT RACK

Order No.	MFG No.	Length"
TTT114	MT200-16	7

MACHINE TORCH HOLDER

Order No.	MFG No.
TTT115	Z1102



210 SERIES - SINGLE STAGE REGULATORS

- Best for light to medium-duty gas welding, cutting and heating applications
- Rear entry inlet construction
- Machined class "A" brass bar stock body with chrome plated housing cap
- Internal safety pressure relief valve
- Plastic adjustment knob for "easy touch" pressure setting
- 2" gauges for easy reading
- UL listed



Order No.	MFG No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
331-1660	210X-80	Oxygen	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA540 Rear	9/16"-18 RH (M)
TTT116	210X-80-A	Oxygen	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA540 Rear	3/8"-24 RH (M)
331-4240	210Y-15	Acetylene	400/2-15	2", 400 PSI	2", 30 PSI, RL	CGA200 "MC" Rear	9/16"-18 LH (M)
TTT117	210Y-15-A	Acetylene	400/2-15	2", 400 PSI	2", 30 PSI, RL	CGA200 "MC" Rear	3/8"-24 LH (M)

152 SERIES - SINGLE STAGE REGULATORS

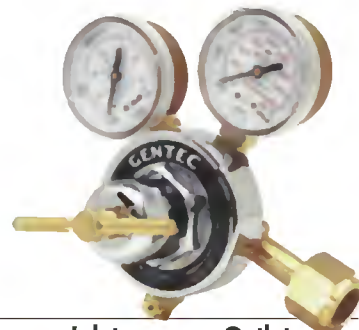
- Designed for medium-duty gas welding, cutting and heating applications
- Body and housing cap are machined from class "A" brass bar stock
- Self re-seating external safety pressure relief valve on oxygen models
- Stem type seat assembly for more reliable performance
- 2" gauges for easy reading
- 2" diaphragm
- UL listed



Order No.	MFG No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
331-3575	152X-80	Oxygen	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA540	9/16"-18 RH (M)
331-3585	152Y-15	Acetylene	400/2-15	2", 400 PSI	2", 30 PSI, RL	CGA510	9/16"-18 LH (M)

452 SERIES - SINGLE STAGE REGULATORS

- Designed for medium to heavy duty gas welding, cutting and heating applications; the "Horse" is a Harris® style regulator
- 2 3/4" diaphragm and a Victor® style seat mechanism
- 2" gauges for easy reading
- Forged brass body
- Chrome plated housing cap
- Self re-seating external pressure relief valve on oxygen, inert gas, CO₂ and Nitrogen models
- Sintered bronze inlet filter
- UL listed



Order No.	MFG No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
331-4385	452X-80	Oxygen	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA540	9/16"-18 RH (M)
331-4380	452X-175	Oxygen	3000/5-175	2", 4000 PSI	2", 300 PSI	CGA540	9/16"-18 RH (M)
331-4395	452Y-15	Acetylene	400/2-15	2", 400 PSI	2", 30 PSI, RL	CGA510	9/16"-18 LH (M)
TTT120	452C-175	Carbon Dioxide	3000/5-175	2", 4000 PSI	2", 300 PSI	CGA320	5/8"-18 RH (F)
331-4285	452C-300	Carbon Dioxide	3000/20-300	2", 4000 PSI	2", 400 PSI	CGA320	5/8"-18 RH (F)
TTT118	452IN-80	Inert Gases (Ar, He ₂), Nitrogen	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA580	5/8"-18 RH (F)
331-4340	452IN-300	Inert Gases (Ar, He ₂), Nitrogen	3000/20-300	2", 4000 PSI	2", 400 PSI	CGA580	5/8"-18 RH (F)
804-1975	452IN-450	Inert Gases (Ar, He ₂), Nitrogen	3000/30-450	2", 4000 PSI	2", 600 PSI	CGA580	5/8"-18 RH (F)

153 SERIES - GAUGE PROTECTORS

- Durable metal construction
- Reduces potential damage to pressure gauges
- Easy to install and remove from regulators
- For use with Gentec® 153 Series regulators, interchangeable with other major brands

Note: Gauge Protectors are not designed to replace or alleviate the need for proper cylinder storage systems. Cylinders should always be used and stored in conjunction with local and OSHA requirements.



Order No.	MFG No.	Description
TTT893	GP153X	Oxygen Gauge Protector
TTT894	GP153Y	Acetylene Gauge Protector



153 SERIES - SINGLE STAGE REGULATORS

- Designed for heavy-duty gas welding, cutting and heating applications
- 2 1/2" gauges for easy reading
- 3 1/4" stainless steel diaphragm for accurate pressure delivery
- Delrin cap bushing for smooth adjustments
- Stem type seat assembly for more reliable performance
- Body and housing cap machined from class "A" brass bar stock
- Self re-seating external pressure relief valve on oxygen model
- Sintered bronze inlet filter
- UL listed



Order No.	MFG No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
331-3665	153X-125	Oxygen	3000/5-125	2 1/2", 4000 PSI	2 1/2", 200 PSI	CGA540	9/16"-18 RH (M)
331-3675	153Y-15	Acetylene	400/2-15	2 1/2", 400 PSI	2 1/2", 30 PSI, RL	CGA510	9/16"-18 LH (M)

853S SERIES - STATION REGULATORS

- Designed for medium to high capacity flow gas distribution systems
- Maximum inlet pressure of 200 PSIG
- **NOT FOR USE ON CYLINDERS**
- Body and housing cap machined from class "A" brass bar stock
- Single stage construction
- Conforms to CGA E-4 Standard for gas pressure regulators



Order No.	MFG No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
TTT121	853SF-80	LP Gas	200/4-80	None	2 1/2", 100 PSI	7/8"-14LH (F)	9/16"-18 LH (M)
TTT122	853SX-80	Oxygen	200/4-80	None	2 1/2", 100 PSI	7/8"-14RH (F)	9/16"-18 RH (M)
TTT123	853SY-15	Acetylene	200/2-15	None	2 1/2", 30 PSI, RL	7/8"-14LH (F)	9/16"-18 LH (M)

853L SERIES - PIPELINE REGULATORS

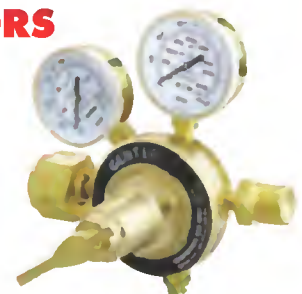
- Designed for use with gas distribution systems in medium to heavy-duty flow applications
- Maximum inlet pressure of 350 PSIG
- **NOT FOR USE ON CYLINDERS**
- Body and housing cap are machined from class "A" brass bar stock
- Single stage construction
- Stem type seat assembly for more reliable performance
- Delrin cap bushing for smooth adjustments
- 2" gauge for easy reading
- 2 3/4" diaphragm
- Conforms to CGA E-4 standard for gas pressure regulators



Order No.	MFG No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
TTT124	853LF-125	LP Gas	350/5-125	None	2 1/2", 200 PSI	1/4" NPT (F) Port	1/4" NPT (F) Port
TTT125	853LX-125	Oxygen	350/5-125	None	2 1/2", 200 PSI	1/4" NPT (F) Port	1/4" NPT (F) Port
TTT126	853LY-15	Acetylene	350/2-15	None	2 1/2", 30 PSI, RL	1/4" NPT (F) Port	1/4" NPT (F) Port

153M SERIES - HEAVY-DUTY MANIFOLD REGULATORS

- Specially designed for manifold systems
- Ideal for use with heavy flow gas distribution systems
- Single stage construction
- Body and housing cap are machined from class "A" brass bar stock
- Delrin cap bushing for smooth adjustments
- Sintered bronze inlet filters
- 2 1/2" gauges for easy reading
- 3 1/4" diaphragm
- Conforms to CGA E-4 standard for gas pressure regulators



Order No.	MFG No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
TTT127	153MF-125	LP Gas	400/5-125	2 1/2", 400 PSI	2 1/2", 200 PSI	1"-11-1/2NPS LH (M)	1"-11-1/2NPS LH (F)
TTT128	153MX-200	Oxygen, Inert Gas, Air	3000/10-200	2 1/2", 4000 PSI	2 1/2", 400 PSI	1"-11-1/2NPS RH (M)	1"-11-1/2NPS RH (F)
TTT129	153MY-15	Acetylene	400/2-15	2 1/2", 400 PSI	2 1/2", 30 PSI, RL	1"-11-1/2NPS LH (M)	1"-11-1/2NPS LH (F)
TTT130	153MIN-125	Inert Gas	3000/5-125	2 1/2", 4000 PSI	2 1/2", 200 PSI	1"-11-1/2NPS RH (M)	1"-11-1/2NPS RH (F)

190 SERIES - FLOW GAUGE REGULATORS

- "MIG METER" flow gauge regulators are designed for MIG and TIG applications
- 2" gauges for easy reading
- Accurate measurement of gas flow up to 50 SCFH
- Body machined from class "A" brass bar stock
- Chrome plated housing cap
- Internal safety pressure relief design
- Plastic adjustment knob for smooth "easy touch" flow settings
- UL listed



Order No.	MFG No.	Gas Service	Flow Capacity (SCFH)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
331-1540	190AR-50	Argon	0-50	2", 4000 PSI	2", 50 SCFH	CGA580	5/8"-18 RH F, 0.32 Orifice
331-1575	190CD-45	Carbon Dioxide	0-45	2", 4000 PSI	2", 50 SCFH	CGA320	5/8"-18 RH F, 0.32 Orifice

191 SERIES - FLOWMETER REGULATORS

- Designed for MIG and TIG applications
- Provides accurate regulation of gas flow
- Piston type construction
- Body machined from class "A" brass bar stock
- Polycarbonate flow tube and outer cover are impact resistant
- Conforms to CGA E-4 standard for gas pressure regulators



Order No.	MFG No.	Gas Service	Flow Capacity (SCFH)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
331-1610	191AR-60	Argon	50	1-1/2", 4000 PSI	60	CGA580	5/8"-18 RH (F)
TTT131	191CD-60	Carbon Dioxide	50	1-1/2", 4000 PSI	60	CGA320	5/8"-18 RH (F)

WITH 6-FOOT HOSE INCLUDED

331-4150	191AR-60-6HSP	Argon	50	1-1/2", 4000 PSI	60	CGA580	5/8"-18 RH (F)
331-3200	191CD-60-6HSP	Carbon Dioxide	50	1-1/2", 4000 PSI	60	CGA320	5/8"-18 RH (F)

195 SERIES - "MIG MASTER" FLOWMETER REGULATORS

- Designed for MIG and TIG applications and provide accurate regulation of gas flow
- Provides reliable performance in commercial, industrial and lab applications
- Single stage construction
- 0-60 SCFH argon (Ar) flow, 0-150 SCFH helium (He) flow, 0-60 SCFH carbon dioxide (CO₂) flow
- Polycarbonate flow tube and outer cover are impact resistant for maximum durability and service life
- Flowmeter is backpressure compensated to ensure accurate readings when line restrictions are present
- 2" high-pressure gauge for easy reading
- Body machined from class "A" brass bar stock
- Chrome plate housing cap
- Internal safety pressure relief design
- Sintered bronze inlet filter
- UL listed



Order No.	MFG No.	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
331-1638	195AR-60	Argon	50	2", 4000 PSI	60	CGA580	5/8"-18 RH (F)
331-4166	195AR-60-680	Argon	50	2", 6000 PSI	60	CGA680	5/8"-18 RH (F)
331-4175	195CD-60	Carbon Dioxide	50	2", 4000 PSI	60	CGA580	5/8"-18 RH (F)

19518E

195FM SERIES - FLOWMETER

- Designed for accurate regulation of gas flow
- Backpressure compensated design insures accurate readings when line restrictions are present
- Polycarbonate flow tube is square shaped for easy reading
- Body machined from class "A" brass bar stock
- Easy adjustment brass knob for "fine-tune" flow settings
- UL listed



Order No.	MFG No.	Gas Service	Max Inlet Preset (PSI)	Inlet Connection"	Outlet Connection"	Flowmeter Flow Range (SCFH)
331-4185	195FM	Argon, CO ₂	50	1/4 NPT(M)	5/8 - 18RH(F)	0-60 Ar

198CD ELECTRICALLY HEATED REGULATOR/FLOWMETER FOR CO₂

- Designed for applications requiring extremely high gas flow rates
- Built-in, thermostatically-controlled electric heater keeps the CO₂ warm, allowing for continuous duty cycle without freezing
- 110 VAC/190 W heater is standard
- 0-60 SCFH flowmeter is backpressure compensated to ensure accurate reading when line restrictions are present
- Forged brass body and housing cap with sintered bronze inlet filter

Caution: Use this regulator only with non-siphoned standard CO₂ cylinders

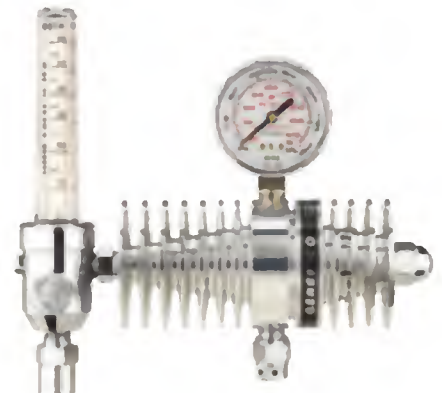


Order No.	MFG No.	Gas Service	Max Delivery Pressure (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
331-4210	198CD-60	Carbon Dioxide	50 (Preset)	2", 4000 PSI	60	CGA320	5/8" 18RH(F)

199CD RADIATOR REGULATOR/FLOWMETER FOR CO₂

- Designed for applications requiring extremely high gas flow rates
- 0-60 SCFH CO₂ flow without freezing
- Backpressure compensated to ensure accurate reading when line restrictions are present
- Preset to deliver 50 PSI into the flowmeter which is calibrated to operate at 50 PSI
- Black anodized aluminum body
- Sintered bronze inlet filter

Caution: Use this regulator only with non-siphoned standard CO₂ cylinders



Order No.	MFG No.	Gas Service	Max Delivery Pressure (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
331-4215	199CD-60	Carbon Dioxide	50 (Preset)	2", 4000 PSI	60	CGA320	5/8"-18RH(F)



CUTTING TIP CHART

MATERIAL THICKNESS	1/8	1/4	1/2	3/4	1	1-1/2	2	4	5	6	8	10	12
RECOMMENDED TIP NUMBER AND DRILL SIZE	00 68	0 60	1 56	1 56	2 54	2 54	3 52	3 49	4 44	6 38	6 31	7 28	8
OXYGEN PRESSURE SETTING LB/IN ² g	20-25	25-30	30-35	30-35	35-40	40-45	40-45	40-50	45-55	45-55	45-55	45-55	45-55
ACETYLENE PRESSURE SETTING LB/IN ² g	3-5	3-5	3-5	3-5	3-7	3-7	5-10	5-10	6-12	7-13	8-14	10-15	10-15
CUTTING IN / MIN	27-30	26-29	20-24	17-21	14-18	13-17	12-15	8-11	7-9	6-8	5-6	4-5	3-4

AIRCO 144/ALC 802 STYLE CUTTING TIPS

- For general cutting
- Acetylene-oxygen
- Medium preheat
- For hand or machine cutting
- Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000 and 9500 torches



Order No.	MFG No.	Size
328-1327	820-00	00
328-1330	820-0	0
328-1333	820-1	1
328-1342	820-2	2
328-1345	820-3	3
328-1348	820-4	4
328-1351	820-5	5
328-1354	820-6	6
328-1360	820-8	8

AIRCO 164/ALC 803 STYLE CUTTING TIPS

- For general cutting
- Acetylene-oxygen
- Very heavy preheat
- Also for use in cutting cast iron and stainless steel
- Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000 and 9500 torches



Order No.	MFG No.	Size
328-1441	830-00	00
328-1444	830-0	0
328-1447	830-1	1
328-1450	830-2	2
328-1453	830-3	3
328-1456	830-4	4
328-1459	830-5	5
328-1462	830-6	6
328-1465	830-7	7
328-1468	830-8	8

AIRCO A-FS/ALC 835FS STYLE CUTTING TIPS

- For general cutting
- MAPP[®]-oxygen
- Stinger style
- **Two-piece tip** for standard speed
- Stinger 245 substitute



Order No.	MFG No.	Size
328-5557	FS-825-72	72
328-5554	FS-825-68	68
328-5551	FS-825-65	65
328-5548	FS-825-60	60
328-5545	FS-825-56	56
328-5542	FS-825-54	54
328-5539	FS-825-52	52
328-5536	FS-825-49	49

AIRCO 261/ALC 829 STYLE CUTTING TIPS

- For general cutting
- Propane or oxygen-natural gas
- **Two-piece tip** for hand cutting
- Heavy preheat
- Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 and 2900 torches



Order No.	MFG No.	Size
328-1681	875-00	00
328-1684	875-0	0
328-1687	875-1	1
328-1690	875-2	2
328-1693	875-3	3
328-1696	875-4	4
328-1699	875-5	5
328-1702	875-6	6
328-1705	875-7	7
328-1708	875-8	8

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AIRCO A-SP/ALC 833SP STYLE CUTTING TIPS

- For general cutting
- MAPP[®]-oxygen
- Standard speed one-piece cutting tip

Order No.	MFG No.	Size
328-5887	SP-825-72	72
328-5884	SP-825-68	68
328-5881	SP-825-65	65
328-5878	SP-825-60	60
328-5875	SP-825-56	56
328-5872	SP-825-54	54
328-5869	SP-825-52	52
328-5866	SP-825-49	49

HARRIS 6290 STYLE CUTTING TIPS

- General cutting
- Acetylene-oxygen
- Medium preheat, general hand cutting
- Fits Harris[®] 42-3, 62-3, 72, 72A, 73, 73A and 85 series torches

Order No.	MFG No.	Size
328-2275	1360-000	000
328-2278	1360-00	00
328-2281	1360-0	0
328-2284	1360-1	1
328-2287	1360-2	2
328-2290	1360-3	3
328-2293	1360-4	4
328-2296	1360-5	5
328-2299	1360-6	6

HARRIS 6290-VVCU STYLE CUTTING TIPS

- High speed
- Propane or oxygen-natural gas
- For use in machine cutting
- Fits Harris[®] 98-2 and 98-3 machine torches

Order No.	MFG No.	Size
328-2191	1345-5/0	5/0
328-2194	1345-4/0	4/0
328-2197	1345-000	000
328-2200	1345-00	00
328-2203	1345-0	0
328-2206	1345-0-1/2	0-1/2
328-2209	1345-1	1
328-2212	1345-1-1/2	1-1/2
328-2215	1345-2	2
328-2218	1345-2-1/2	2-1/2
328-2221	1345-3	3
328-2224	1345-4	4
328-2227	1345-5	5



AIRCO 183/ALC 883 STYLE CUTTING TIPS

- For gouging
- Acetylene-oxygen
- Medium preheat for grooving, gouging and removing welds
- Fits Airco 3700, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000 and 9500 torches

Order No.	MFG No.	Size
328-1264	807-6	6
328-1267	807-8	8
328-1258	807-10	10
328-1261	807-12	12

HARRIS 6290-NX STYLE CUTTING TIPS

- General cutting
- Propane or oxygen-natural gas
- Medium preheat, for general cutting use
- Fits Harris[®] 42-3, 49AF, 49F, 62-3, 85, 72, 73 and 142 series torches

Order No.	MFG No.	Size
328-2122	1335-000	000
328-2125	1335-00	00
328-2128	1335-0	0
328-2131	1335-1	1
328-2134	1335-2	2
328-2137	1335-3	3
328-2140	1335-4	4
328-2143	1335-5	5
328-2146	1335-6	6

HARRIS 6290-GG STYLE CUTTING TIPS

- For gouging
- Propane or oxygen-natural gas
- Fits Harris[®] 42-3, 49AF, 62-3, 85, 72, 73 and 142 series torches

Order No.	MFG No.	Size
328-1930	1305-1	1
328-1933	1305-2	2
328-1936	1305-3	3

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GOSS[®]

MANUFACTURER OF TORCH TOOLS

HARRIS 6290-G STYLE CUTTING TIPS

- For gouging
- Acetylene-oxygen
- Fits Harris[®] 42-3, 62-3, 72, 72A, 73, 73A and 85 series torches

Order No.	MFG No.	Size
328-1897	1300-1	1
328-1900	1300-2	2
328-1902	1300-3	3



OXWELD 1534/ESAB STYLE CUTTING TIPS

- For general cutting
- Propane, natural gas, butane-oxygen
- Medium preheat
- **Internal and external components sold separately**
- Fits CW-23, C-31, C-32, C-77 hand torches, C-39, C-58, C-67 machine torches



Order No.	MFG No.	Size	Order No.	MFG No.
INTERNAL			EXTERNAL	
328-2935	1734-2	2	328-2995	1738-S
328-2938	1734-3	3	328-2995	1738-S
328-2941	1734-4	4	328-2995	1738-S
328-2944	1734-6	6	328-2998	1739-M
328-2947	1734-8	8	328-2998	1739-M
328-2950	1734-10	10	328-2986	1736-X
328-2953	1734-12	12	328-2986	1736-X

OXWELD 1502/ESAB STYLE CUTTING TIPS

- For general cutting
- Acetylene-oxygen
- Medium preheat
- For hand or machine cutting
- Fits CW-32, C-31, C-23, C-77 hand torches, C-37, C-39, C-58 machine torches



Order No.	MFG No.	Size
328-3037	1760-2	2
328-3040	1760-3	3
328-3043	1760-4	4
328-3046	1760-6	6
328-3049	1760-8	8
328-3052	1760-10	10
328-3055	1760-12	12

OXWELD 1535/ESAB STYLE CUTTING TIPS

- Hi-speed cutting
- Propane, natural gas, butane-oxygen
- Medium preheat
- **Internal and external components sold separately**
- Fits CW-39, C-58, C-67 machine torches



Order No.	MFG No.	Size	Order No.	MFG No.
INTERNAL			EXTERNAL	
328-2962	1735-31	31	328-2995	1738-S
328-2965	1735-40	40	328-2995	1738-S
328-2968	1735-43	43	328-2995	1738-S
328-2971	1735-47	47	328-2995	1738-S
328-2974	1735-52	52	328-2995	1738-S
328-2977	1735-60	60	328-2998	1739-M
328-2980	1735-80	80	328-2998	1739-M
328-2983	1735-100	100	328-2986	1736-X
328-2984	1735-120	120	328-2986	1736-X

PUROX 4202/ESAB STYLE CUTTING TIPS

- General cutting
- Acetylene-oxygen
- Medium preheat
- Fits CW-200, CW-202, Type E torches, C-205 machine torch, CW-300 torches



Order No.	MFG No.	Size
328-3223	1952-3	3
328-3226	1952-4	4
328-3229	1952-5	5
328-3232	1952-7	7
328-3235	1952-9	9
328-3238	1952-11	11
328-3241	1952-13	13

PUROX 4213-14/ESAB STYLE CUTTING TIPS

- General cutting
- Propane or natural gas-oxygen
- Complete tip
- Medium preheat
- Fits CW-200, CW-202, Type E torches



Order No.	MFG No.	Size
328-3259	1955-3	3
328-3262	1955-4	4
328-3265	1955-6	6
328-3268	1955-8	8
328-3271	1955-10	10
328-3274	1955-12	12

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GOSS[®]

MANUFACTURER OF TORCH TOOLS

PUROX 4207/ ESAB STYLE CUTTING TIPS

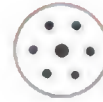
- For grooving and gouging
- Acetylene-oxygen
- Fits CW-200, CW-202, Type E, and CW-300 torches

Order No.	MFG No.	Size
328-3289	1957-13	13
328-3292	1957-19	19



VICTOR[®] 1-101 STYLE CUTTING TIPS

- For general cutting
- Acetylene-oxygen
- Machine preheat for hand and machine cutting
- Fits 2460, CA 1060, ST, SST, 1400C machine torches



Order No.	MFG No.	Size
328-3892	2360-000	000
328-3895	2360-00	00
328-3898	2360-0	0
328-3901	2360-1	1
328-3904	2360-2	2
328-3907	2360-3	3
328-3910	2360-4	4
328-3913	2360-5	5
328-3916	2360-6	6
328-3919	2360-7	7
328-3922	2360-8	8

VICTOR[®] 3-101 STYLE CUTTING TIPS

- For general cutting
- Acetylene-oxygen
- Medium preheat hand cutting
- Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 torches



Order No.	MFG No.	Size
328-3717	2341-000	000
328-3718	2341-00	00
328-3721	2341-0	0
328-3724	2341-1	1
328-3727	2341-2	2
328-3730	2341-3	3
328-3733	2341-4	4
328-3736	2341-5	5
328-3739	2341-6	6

VICTOR[®] 3-GPN STYLE CUTTING TIPS

- For general cutting
- Propane or oxygen-natural gas
- Two piece medium preheat series 3 tip
- Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 torches



Order No.	MFG No.	Size
328-3760	2345-00	00
328-3763	2345-0	0
328-3766	2345-1	1
328-3769	2345-2	2
328-3772	2345-3	3
328-3775	2345-4	4
328-3778	2345-5	5

VICTOR[®] GPN STYLE CUTTING TIPS

- For general cutting
- Propane or oxygen-natural gas
- Medium preheat for hand and machine cutting
- Fits 2450, CA 1060, CAN 1060, ST, SST, STN, 1400C machine torches



Order No.	MFG No.	Size
328-3826	2355-000	000
328-3829	2355-00	00
328-3832	2355-0	0
328-3835	2355-1	1
328-3838	2355-2	2
328-3841	2355-3	3
328-3844	2355-4	4
328-3847	2355-5	5
328-3850	2355-6	6
328-3853	2355-7	7
328-3856	2355-8	8

VICTOR[®] 2V-FS (GPM) STYLE CUTTING TIPS

- For general cutting
- MAPP[®]-oxygen
- Hand cutting of bulkhead rivets
- Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 torches



Order No.	MFG No.	Size
328-5770	FS-2385-72	72 (000)
328-5767	FS-2385-68	68 (00)
328-5764	FS-2385-65	65
328-5761	FS-2385-60	60 (0)
328-5758	FS-2385-56	56 (1)
328-5755	FS-2385-54	54 (2)
328-5752	FS-2385-52	52
328-5749	FS-2385-49	49 (3)
328-5746	FS-2385-44	44 (4)

Manufacturers names are used descriptively only to identify products with which Goss Replacement Tips may be used. Goss has no relationship with other manufacturers listed.

VICTOR® 3-118 STYLE CUTTING TIPS

- For gouging
- Acetylene-oxygen
- Medium preheat
- Gouging - Rivet washing tip
- Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 torches



Order No.	MFG No.	Size
328-3787	2348-2	2

VICTOR® 1-118 STYLE CUTTING TIPS

- For gouging
- Acetylene-oxygen
- Gouging, scarfing and dseaming
- Fits 2460, CA 1060, ST, SST, 1400C torches



Order No.	MFG No.	Size
328-4015	2368-0	0
328-4018	2368-2	2
328-4021	2368-4	4
328-4024	2368-6	6
328-4027	2368-8	8

PUROX W-300/ ESAB W-300 STYLE WELDING TIPS

- For welding
- Acetylene-oxygen
- Complete welding tip and mixer
- Fits W-300 and W-400 torches



Order No.	MFG No.	Size
328-4483	3025-2	2
328-4486	3025-4	4
328-4489	3025-6	6

Order No.	MFG No.	Size
328-4495	3025-9	9
328-4501	3025-15	15

HARRIS 23-A-90 STYLE WELDING TIPS

- For general welding
- Acetylene-oxygen
- Propane-oxygen, sizes 6 to 10
- Tip end only
- Fits Harris® 18-3, 43-2, 63-2, 85 torches with mixer
- 23/64-26 thread

Order No.	MFG No.	Size
328-4354	3021-0	0
328-4357	3021-1	1
328-4360	3021-2	2
328-4363	3021-3	3
328-4366	3021-4	4
328-4369	3021-5	5
328-4372	3021-6	6
328-4375	3021-7	7
328-4378	3021-8	8
328-4381	3021-9	9
328-4384	3021-10	10



VICTOR® W (TYPE 4) STYLE WELDING TIPS

- For general welding and preheating
- Acetylene-oxygen
- Complete nozzle, including nozzle nut
- Fits 300 series torches

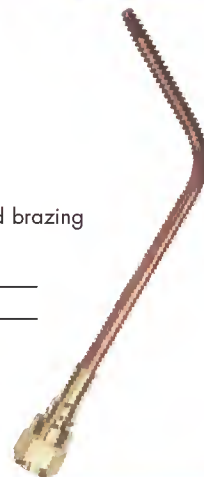
Order No.	MFG No.	Size
328-4633	3031-000	000
328-4636	3031-00	00
328-4639	3031-0	0
328-4642	3031-1	1
328-4645	3031-2	2
328-4648	3031-3	3
328-4651	3031-4	4
328-4654	3031-5	5
328-4657	3031-6	6
328-4660	3031-7	7
328-4663	3031-8	8



VICTOR® W-1 (TYPE 13) STYLE WELDING TIPS

- For welding
- Acetylene-oxygen
- Complete nozzle, including nozzle nut
- Long cone flame for general welding and brazing
- Fits 100 series torches

Order No.	MFG No.	Size
328-4666	3032-000	000
328-4669	3032-00	00
328-4672	3032-0	0
328-4675	3032-1	1
328-4678	3032-2	2
328-4681	3032-3	3
328-4684	3032-4	4
328-4687	3032-5	5
328-4690	3032-6	6
328-4693	3032-7	7



VICTOR® W-J (TYPE 17) STYLE WELDING TIPS

- For general light welding and brazing
- Acetylene-oxygen
- Complete nozzle, including nozzle nut
- Fits J series torches

Order No.	MFG No.	Size
328-4696	3033-000	000
328-4699	3033-00	00
328-4702	3033-0	0
328-4705	3033-1	1
328-4708	3033-2	2
328-4711	3033-3	3
328-4714	3033-4	4
328-4717	3033-5	5
328-4720	3033-6	6
328-4723	3033-7	7



Manufacturers names are used descriptively only to identify products with which Goss Replacement Tips may be used. Goss has no relationship with other manufacturers listed.



HEATING TIPS

TIP DIAMETERS AS FOLLOWS:

- No. 1 Tip - 11/16"
- No. 2 Tip - 11/16"
- No. 3 Tip - 13/16"
- No. 4 Tip - 1-5/16"
- No. 5 Tip - 1-5/8"



Order No.	MFG No.	Tip Size	Thread Size
FOR USE WITH LP OR NATURAL GAS			
328-1000	220-1	1	7/16-20
328-1003	220-2	2	7/16-20
328-1006	220-3	3	7/16-20
328-1009	220-4	4	7/16-20
328-1012	220-5	5	7/16-20
328-1015	221-1	1	1/2-25
328-1018	221-2	2	1/2-25
328-1021	221-3	3	1/2-25
328-1024	221-4	4	1/2-25
328-1027	221-5	5	1/2-25

FOR USE WITH ACETYLENE GAS			
328-1063	230-1	1	7/16-20
328-1066	230-2	2	7/16-20
328-1069	230-3	3	7/16-20
328-1072	231-1	1	1/2-25
328-1075	231-2	2	1/2-25
328-1078	231-3	3	1/2-25

MAPP® GAS (FINE PIECE)			
328-1116	241-S-1	1	1/2-25
328-1123	241-S-4	4	1/2-25

220/221



230/231



241-S



HEATING TIP ADAPTORS FOR CUTTING TORCHES

• For use with the designated cutting torches



	Victor®	Airco	Harris®
Order No.	Seat Style	MFG No	Thread
328-1249	Airco Air Products	801	7/16-20
328-1252	Airco Air Products	801-S	1/2-25
328-2302	Harris® 6290	1361	7/16-20
328-2305	Harris® 6290	1361-S	1/2-25
328-3625	Victor® 1 Series	2301	7/16-20
328-3628	Victor® 1 Series	2301-S	1/2-25

REPLACEMENT CUTTING TIP NUTS

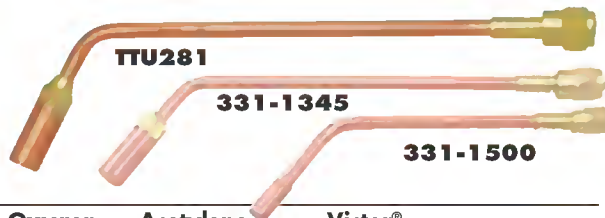


Order No.	MFG Torch & Torch Styles	MFG No.
328-1255	Airco 3700, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500	803
328-2311	Harris® 6290 Tips	1362-B
328-3202	Purox CW-200, CW-202, E	1903
328-3631	Victor® CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 (3 Series Tips)	2303
328-3823	Victor® 2450, CA 1060, CAN 1060, ST, SST, STN, 1400C, MT, MTN (1 Series Tips)	2353

Manufacturers names are used descriptively only to identify products with which Goss Replacement Tips may be used. Goss has no relationship with other manufacturers listed.

OXY-ACETYLENE & OXY-HYDROGEN HEATING NOZZLES

- Victor® compatible
- Ideal for preheating and straightening, etc.
- TTU288 and TTU289 are also used for Propylene based fuel gases and MAPP®



Order No.	MFG No.	Tip Size	Duty	Oxygen PSIG	Acetylene Fuel PSIG	Oxygen SCFH	Acetylene Fuel SCFH	Victor® Equivalent	Fits
TTU281	171H-2	2	Light	4/8	4/8	3/10	3/9	2-MFA-J	140T/141T
TTU282	171H-4	4	Light	8/12	6/10	7/22	6/20	4-MFA-J	
TTU283	171H-6	6	Light	10/15	8/12	15/44	14/40	6-MFA-J	
TTU284	172H-2	2	Medium	4/8	4/8	3/10	3/9	2-MFA-1	142T
TTU285	172H-4	4	Medium	8/12	6/10	7/22	6/20	4-MFA-1	
331-1345	172H-6	6	Medium	10/15	8/12	15/44	14/40	6-MFA-1	
331-1355	172H-8	8	Medium	20/30	10/15	33/88	30/80	8-MFA-1	
TTU286	173H-4	4	Heavy	8/12	6/10	7/22	6/20	4-MFA	143T/143TL/143TLH
331-1495	173H-6	6	Heavy	10/15	8/12	15/44	14/40	6-MFA	
331-1500	173H-8	8	Heavy	20/30	10/15	33/88	30/80	8-MFA	
TTU287	173H-10	10	Heavy	30/40	12/15	44/110	40/100	10-MFA	
TTU288	173H-12	12	Heavy	50/60	12/15	66/165	60/150	12-MFA	
TTU289	173H-15	15	Heavy	50/60	12/15	99/244	90/220	15-MFA	

OXY-ACETYLENE HEATING ELBOW & MIXER

- Harris® compatible
- Elbow and mixer sold separately

Elbow Order No.	MFG No.	Tip Size	Duty	Oxygen PSIG	Acetylene Fuel PSIG	Acetylene Fuel SCFH	Harris® Equivalent
331-7000	472H-2	2	Medium	3/7	3/7	30/50	J-63-2
Mixer Order No.	MFG No.	Fits Torch Handle					Harris® Equivalent
331-4575	472M	442T					D-85

331-7000



331-4575





AIR-ACETYLENE FEATHER FLAME® TORCH KITS

- **Screw-in style**
- Feather brush flame
- Interchangeable screw-in tips
- Heavy-duty torch
- UL listed brass regulator
- **Includes:** 12' hose, handle, lighter and wrench

330-1663

GOSS 
ACETYLENE



Order No.	MFG No.	Tip No.	Reg. FTG
330-1663	KA-1H	BA-3	"B" Cylinder
330-1669	KA-2H	BA-3	"MC" Cylinder

FEATHER FLAME® SCREW-IN TIPS

- Quiet, adjustable flame
- For soft soldering and light brazing



GOSS 
ACETYLENE

Order No.	MFG No.	Tip Size"	Soft Solder"
330-1054	BA-1	1/16	1/16 - 1/8
330-1057	BA-2	1/8	1/8 - 1/4
330-1060	BA-3	3/16	1/4 - 1/2
330-1066	BA-4	1/4	1/2 - 1
330-1069	BA-5	5/16	1 - 1 1/2
330-1072	BA-6	7/16	2 - 4

TARGET® SCREW-IN TIPS

- Very hot adjustable flame
- For fast soldering or brazing



GOSS 
ACETYLENE

Order No.	MFG No.	Tip Size"	Soft Solder"	Silver Braze"
330-1075	BA-9A	1/4	Up to 1	1-8 - 1/2
330-1078	BA-10A	3/8	Up to 2	1/2 - 1
330-1081	BA-12A	1/2	Up to 4	1 - 2

ZIP-TIP® SCREW-IN TIPS

- Adjustable flame
- Can be used to braze and solder

GOSS 
ACETYLENE



Order No.	MFG No.	Tip Size"	Soft Solder"	Silver Braze"
330-1084	BA-20	7/32	1/4 to 1	1/8 - 1/2
330-1087	BA-25	1/4	1 to 2	1/2 - 1
330-1090	BA-30	7/16	2 to 4	1 - 2

ACET-O-LITE® TORCH HANDLES

- **Screw-in style**
- Made with quality brass, durable handles
- Use standard 3/8-24 LH "A" size hose fittings
- Work with all "BA" style tips
- Needle valve design enables very fine flame adjustments
- Will keep tips burning efficiently in drafts, winds and adverse conditions
- **AA-1** has adjustment valve in front for single hand operation
- **AA-3** has valve in the rear for fingertip control

GOSS 
ACETYLENE

330-1000



330-1006

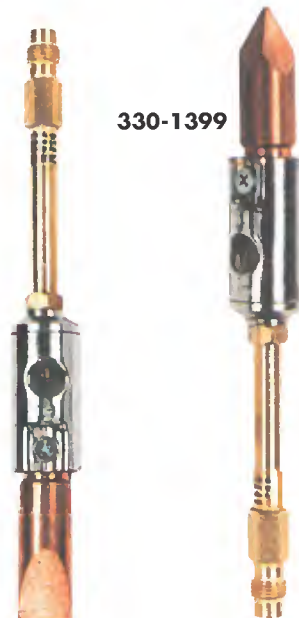


Order No.	MFG No.	Valve
330-1000	AA-1	In Front
330-1006	AA-3	At Rear

SOLDERING IRONS

- Ideal for soldering light gauge sheet metal
- Use with model AA-1 or AA-3 torch handles
- **DA-1** has a pyramid copper point
- **DA-2** has a chisel copper point

330-1399



330-1405

GOSS 
ACETYLENE

Order No.	MFG No.	Point
330-1399	DA-1	Pyramid
330-1405	DA-2	Chisel

19820E



AIR-ACETYLENE TARGET® TORCH KITS

330-1777

- Snap-in style
- Hot turbine flame
- Interchangeable snap-in style tips
- Heavy-duty torch
- UL listed brass regulator
- For professional soldering and brazing applications
- Includes: Quick disconnect handle, 12' hose and tip(s)



GOSS ACETYLENE

Order No.	MFG No.	Tip No.	Regulator FTG
330-1777	KX-3B	GA-3, GA-11	"B" Cylinder
330-1780	KX-7B	GA-8	"B" Cylinder

TARGET® SNAP-IN TIPS

- Very hot turbine flame
- Adjustable tips that don't burn up
- Unique mixer design cuts brazing time by 30% over conventional tips
- Tips have a filter and removable orifice
- Interchangeable with other quick disconnect style tips
- Made of heavy stainless steel and brass
- Tips fit GG-4 handle



GOSS ACETYLENE

Order No.	MFG No.	Tip Size"	Soft Solder"	Silver Solder"
330-1519	GA-3	1/4	1/4 - 1	1/8 - 1/2
330-1522	GA-8	3/8	1 - 2	1/2 - 1
330-1525	GA-14	1/2	2 - 4	1 - 2

TARGET® TORCH HANDLE

- Snap-in style
- Features quick disconnect fitting to rapidly change tips
- Comfortable grooved handle
- Uses 3/8-24 LH "A" hose fittings
- Works with all "GA" style tips

Order No. 330-1534
MFG No. GG-4

GOSS ACETYLENE



19821E

ACET-O-LITE® ACETYLENE HOSES

- Hose assemblies made of quality 7/16" O.D. x 3/16" I.D. single ply fabric reinforced Grade R hose
- 200 PSI working pressure
- 3/8 - 24 "A" connections on all lengths

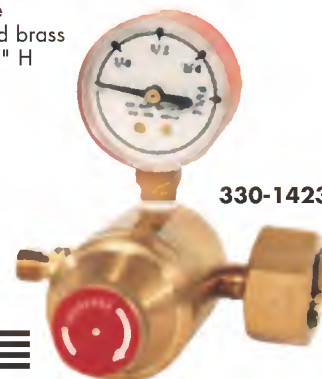


GOSS ACETYLENE

Order No.	MFG No.	Hose Length'
330-1573	HA3-6	6
330-1576	HA3-12	12
330-1579	HA3-25	25

ACETYLENE REGULATORS

- Made for rugged use
- Manufactured of solid brass
- 1 1/2" W x 3 5/16" H
- Specially designed conical seat and a neoprene diaphragm
- Inlets have filters to prevent dirt from entering regulator
- "A" hose fitting 3/8 - 24 L.H.
- UL listed



330-1423

GOSS ACETYLENE

Order No.	MFG No.	Connection
330-1423	EA-1G	"B" Cylinder
330-1426	EA-2G	"MC" Cylinder

FLAMESHIELD SOLDERING & WELDING PAD

- Protects walls, joints and wall studs from burn damage associated with low temperature soldering
- An excellent blanket for weld sparks and spatter
- A must for every toolbox and maintenance service vehicle
- Made of coated fibreglass
- One grommet in each of the top corners



WILSON

Order No.	MFG No.	Size"
146-1032	912FS	9 x 12



AIR-PROPANE PROFLAME® TORCH KITS

- **Screw-in style**
- Contains complete selection of high quality soldering and heating equipment
- **Includes:** Handle, regulator, lighter, 10' hose and tip

330-1750

GOSS PROPANE

Order No.	MFG No.	Tip No.
330-1750	KP-102	BP-2
330-1756	KP-105	BP-5

SCREW-IN STYLE PENCIL & BRUSH TIPS

- Quiet, adjustable flame
- Choice of pencil or brush flame

GOSS PROPANE



Order No.	MFG No.	Flame	Dia."	Soft Solder"	BTU's@40 PSI
330-1093	BP-1	Pencil	5/8	To 1/2	6000
330-1099	BP-2	Pencil	1	To 1 1/2	11,000
330-1105	BP-3	Brush	7/8	To 2	14,000
330-1111	BP-4	Brush	1 1/8	To 3	43,000
330-1117	BP-5	Brush	1 3/4	To 4	57,000
330-1123	BP-6	Brush	2 1/8	To 5	300,000

TARGET® SCREW-IN TIPS

- Hot compact flame
- Economical screw-in design



Order No.	MFG No.	Flame Dia."	Soft Solder"	Silver Braze"
330-1144	BP-13PM	7/16	To 1	1/2
330-1150	BP-15PM	1/2	To 1-1/2	3/4
330-1159	BP-17PM	3/4	To 2-1/2	1-1/2

AIR-PROPANE TORCH HANDLE

GOSS PROPANE

- Comfortable handle design reduces operator fatigue
- Up front valve offers single handed operation
- Accepts BP series screw-in tips • 9/16-L.H., "B" hose fitting

Order No. 330-1009 MFG No. AP-1



AIR-PROPANE TARGET® TORCH KITS

- **Snap-in style**
- Kits feature the very hot, compact Target tips
- For professional soldering and brazing applications
- **Includes:** Quick disconnect handle, UL listed regulator, torch tip(s) and 12' hose

330-1747

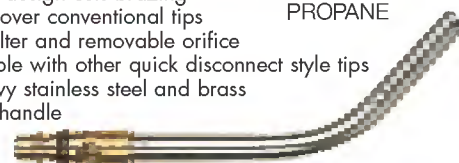
GOSS PROPANE

Order No.	MFG No.	Tip No.
330-1744	KLP-2	GT-3, GT-5
330-1747	KLP-4	GT-4

TARGET® TIPS

- Hot turbine flame
- Unique mixer design cuts brazing time by 30% over conventional tips
- Tips have a filter and removable orifice
- Interchangeable with other quick disconnect style tips
- Made of heavy stainless steel and brass
- Tips fit GH-4 handle

GOSS PROPANE



Order No.	MFG No.	Tip Size"	Soft Solder"	Silver Solder"
330-1564	GT-3	7/16	Up to 1	Up to 1/2
330-1567	GT-4	1/2	Up to 1 1/2	Up to 3/4
330-1570	GT-5	3/4	Up to 2 1/2	Up to 1 1/4

AIR-PROPANE TORCH HANDLE

- Ribbed handle provides positive grip
- Precision machined needle valve allows greater range of flame control
- Utilizes quick disconnect for fast tip change over
- Accepts GT series snap-in tips
- 9/16-L.H., "B" hose fitting

GOSS PROPANE

Order No. 330-1537 MFG No. GH-4



PROPANE REGULATOR

GOSS PROPANE

- High pressure regulator
- Use only with vapour withdrawal cylinders
- All brass regulator used with propane torches and furnaces
- 0 to 60 PSI outlet pressure gauge from propane gas
- UL listed with POL inlet spud and nut, 1/4" NPT openings and 9/16 - 18 L.H. hose outlet

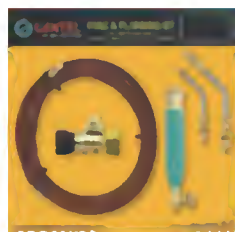
Order No. 330-1474
MFG No. EP-70G



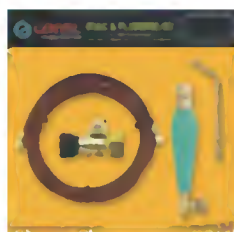


AIR-ACETYLENE OUTFITS

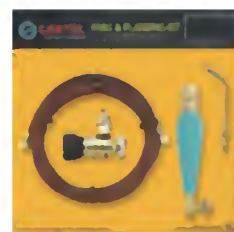
- Choice of Quick-Connect (Swirl Flame), or Screw-Connect (Soft Flame) type tips
- KASL Series features quickly-connect auto-ignite tips with swirl flame which is ignited with a push of a button



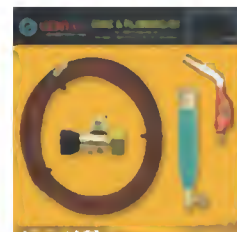
333-102205605



333-102205701



333-102205702



333-102205610

Order No.	MFG. No.	Soft Solder"	Silver Braze"	Regulator	Torch Handle	Tip	Hose	Tank Connection
SWIRL FLAME, QUICK-CONNECT STYLE OUTFITS								
333-102205601	KA5BSP	1 1/2	3/4	101Y-BA	66QT-RA	6Q-5TA	HGA-012A	B
333-102205603	KA8MCSP	2	1	101Y-MCA	66QT-RA	6Q-3TA, 6Q-8TA	HGA-012A	MC
333-102205605	KA11BSP	3	1 5/8	101Y-BA	66QT-RA	6Q-3TA, 6Q-11TA	HGA-012A	B
333-102205606	KA14BSP	3 1/2	2	101Y-BA	66QT-RA	6Q-5TA, 6Q-14TA	HGA-012A	B
SOFT FLAME, SCREW-CONNECT STYLE OUTFITS								
333-102205701	KASF4BSP	1	n/a	101Y-BA	77ST-RA	7S-4SA	HGA-012A	B
333-102205702	KASF4MCSP	1	n/a	101Y-MCA	77ST-RA	7S-4SA	HGA-012A	MC
SWIRL FLAME, QUICK-CONNECT STYLE OUTFITS WITH AUTO-IGNITE TIPS								
333-102205608	KASL5BSP	1 1/2	3/4	101Y-BA	66QT-RA	6Q-5TASL	HGA-012A	B
333-102205610	KASL8BSP	2	1	101Y-BA	66QT-RA	6Q-8TASL	HGA-012A	B
333-102205611	KASL12BSP	3 1/2	2	101Y-BA	66QT-RA	6Q-12TASL	HGA-02A	B

AIR ACETYLENE TORCH HANDLES

- Ergonomically designed
- Tough phenolic handle provides durability and comfort
- Choice of front or rear valve, quick or Screw-Connect
- "A" Fitting 3/8"-24



66QT-FA



77ST-FA



66QT-RA



77ST-RA

Order No.	MFG. No.	Connect Type	Valve Position
333-9120760106	66QT-FA	Quick	Front
333-9120760103	66QT-RA	Quick	Rear
333-9120760206	77ST-FA	Screw	Front
333-9120760202	77ST-RA	Screw	Rear

AIR ACETYLENE, SWIRL FLAME, AUTO-IGNITE TIPS

- Quick-connect style tips
- Eliminates the need for spark lighters
- Ignition with the push of a button saves time and fuel cost
- Interchangeable with other Quick-Connect style tips
- Fits 66QT-FA and 66QT-RA torch handles



6Q-5TASL



3TAESL



8TAESL



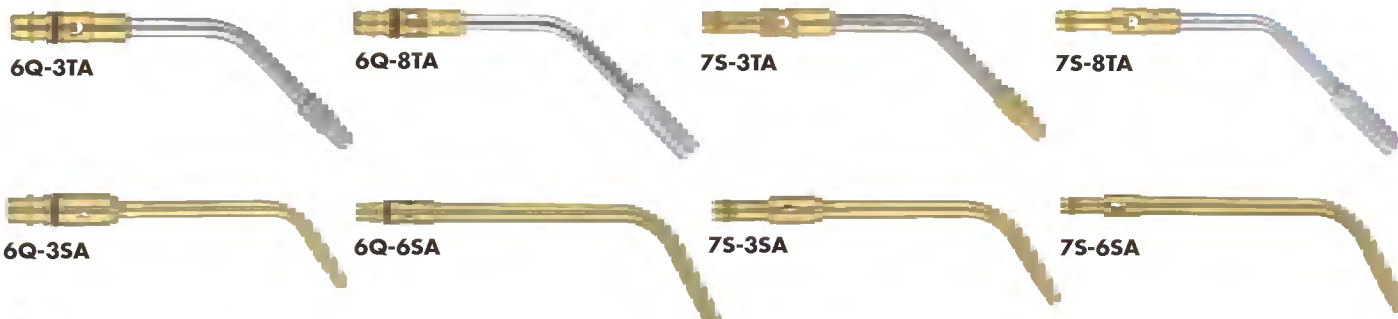
12TAESL



QUICK-CONNECT		REPLACEMENT TIP END		COPPER TUBING CAPACITY	
Order No.	MFG. No.	Order No.	MFG. No.	Soft Solder"	Silver Solder"
333-9120750100	6Q-3TASL	333-9220470110	3TAESL	1/4 - 1	1/8 - 1/2
333-9120750110	6Q-5TASL	333-9220470120	5TAESL	3/4 - 1 1/2	1/4 - 3/4
333-9120750120	6Q-8TASL	333-9220470130	8TAESL	1 - 2	1/2 - 1
333-9120750130	6Q-12TASL	333-9220470140	12TAESL	2 - 3 1/2	1 - 2

AIR ACETYLENE, SWIRL FLAME TIPS

- Made of heavy stainless steel and brass
- Produce a very hot, efficient flame
- For fast soldering and brazing
- Fuel and air are completely mixed through the helical blade for maximum combustion at end of tip



QUICK-CONNECT		SCREW CONNECT		COPPER TUBING SIZE CAPACITY		
Order No.	MFG No.	Order No.	MFG No.	Soft Solder"	Silver Solder"	Replacement Tip end
SWIRL FLAME TIPS						
333-9120710202	6Q-2TA	-	-	1/8 - 1/2	1/8 - 1/4	2TEA
333-9120710301	6Q-3TA	333-9120730302	7S-3TA	1/4 - 1	1/8 - 1/2	3TEA
333-9120710801	6Q-5TA	333-9120730502	7S-5TA	3/4 - 1 1/2	1/4 - 3/4	5TEA
333-9120711401	6Q-8TA	333-9120730801	7S-8TA	1 - 2	1/2 - 1	8TEA
333-9120711101	6Q-11TA	333-9120731101	7S-11TA	1 1/2 - 3	7/8 - 1 5/8	11TEA
333-9120710501	6Q-14TA	-	-	2 - 3 1/2	1 - 2	14TEA
SOFT FLAME TIPS						
333-9120720102	6Q-1SA	333-9120720101	7S-1SA	1/16 - 1/8	Up to 1/16	n/a
333-9120720202	6Q-2SA	333-9120720201	7S-2SA	1/8 - 3/8	Up to 1/8	n/a
333-9120720302	6Q-3SA	333-9120720301	7S-3SA	3/8 - 1/2	Up to 3/8	n/a
333-9120720402	6Q-4SA	333-9120720401	7S-4SA	1/2 - 1	Up to 1/2	n/a
333-9120720502	6Q-5SA	333-9120720501	7S-5SA	3/4 - 1 1/2	1/2 - 3/4	n/a
333-9120720602	6Q-6SA	333-9120720601	7S-6SA	1 - 4	3/4 - 1 1/2	n/a

ADAPTOR

- Attaches Quick-Connect type Torches to Screw-Connect Tips

Order No. 333-9120740701

MFG. No. 66QA7S



ACETYLENE SINGLE HOSE

- 3/16" I.D. x 12' L
- Type "A" connection

Order No. 333-380401120

MFG. No. HGA-012A



ACETYLENE REPLACEMENT REGULATORS

- GAR/101 series regulators
- Body machined from class "A" brass bar stock
- Sintered bronze inlet filter
- Conical style seat assembly for reliable seating
- Plastic adjustment knob for smooth "easy touch" pressure setting
- Max inlet pressure: 400 PSI
- Max delivery pressure: 2 - 15 PSI
- Inlet gauge: content
- Outlet gauge: none

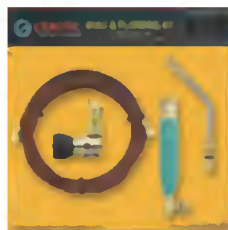
Order No.	MFG. No.	Inlet Connection	Outlet Connection
333-911111202	101Y-BA	CGA520"B"	3/8"-24LH(M)
333-911111201	101Y-MCA	CGA200"MC"	3/8"-24LH(M)



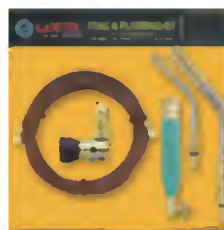
101Y-BA

AIR-PROPANE/MAPP® OUTFITS

- Feature Quick-Connect (Swirl Flame) type tips
- KPSSL series features Quick-Connect auto-ignite tips with swirl flame which is ignited with a push of a button



333-102205612



333-102205614



333-102205617

Order No.	MFG. No.	Soft Solder"	Silver Braze"	Regulator	Torch Handle	Tip	Hose
SWIRL FLAME, QUICK-CONNECT STYLE OUTFITS							
333-102205612	KP4SP	2 1/2	1 1/4	101F-510B	66QT-RB	6Q-4TP	HGP-012
333-102205613	KP5SP	4	2	101F-510B	66QT-RB	6Q-3TP, 6Q-5TP	HGP-012
333-102205614	KP6SP	6	4	101F-510B	66QT-RB	6Q-4TP, 6Q-6TP	HGP-012
SWIRL FLAME, QUICK-CONNECT STYLE OUTFITS WITH AUTO-IGNITE TIPS							
333-102205615	KPSSL3SP	1	1/2	101F-510B	66QT-RB	6Q-3TPSL	HGP-012
333-102205616	KPSSL4SP	1 1/2	3/4	101F-510B	66QT-RB	6Q-4TPSL	HGP-012
333-102205617	KPSSL5SP	2 1/2	1 1/4	101F-510B	66QT-RB	6Q-5TPSL	HGP-012

AIR PROPANE/MAPP® TORCH HANDLES

- Ergonomically designed
- Tough phenolic handle provides durability and comfort
- Choice of front or rear valve, Quick or Screw-Connect



66QT-FB



66QT-RB



77ST-FB



77ST-RB



Order No.	MFG. No.	Connect Type	Valve Position
333-9120760108	66QT-FB	Quick	Front
333-9120760104	66QT-RB	Quick	Rear
333-9120760208	77ST-FB	Screw	Front
333-9120760204	77ST-RB	Screw	Rear

AIR PROPANE/MAPP®, SWIRL FLAME, AUTO-IGNITE TIPS

- Quick-connect style tips
- Eliminates the need for spark lighters
- Ignition with the push of a button saves time and fuel cost
- Interchangeable with other Quick-Connect style tips
- Fits 66QT-FB and 66QT-RB torch handles



6Q-4TPSL



3TPESL



4TPESL



5TPESL



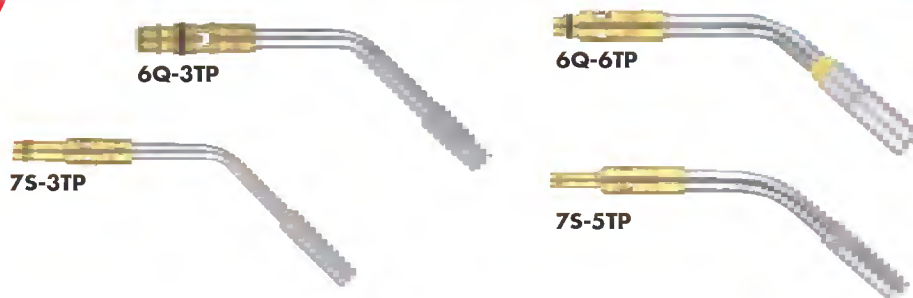
QUICK-CONNECT		REPLACEMENT TIP END		COPPER TUBING SIZE CAPACITY			
				PROPANE GAS		MAPP® GAS	
Order No.	MFG. No.	Order No.	MFG. No.	Soft Solder"	Silver Solder"	Soft Solder"	Silver Solder"
333-9120750210	6Q-3TPSL	333-9222470210	3TPESL	1/4 - 1	1/8 - 1/2	1/4 - 1 1/2	1/4 - 1/2
333-9120750220	6Q-4TPSL	333-9222470220	4TPESL	1/4 - 1 1/2	1/4 - 3/4	1/4 - 2 1/2	1/4 - 1 1/4
333-9120750230	6Q-5TPSL	333-9222470230	5TPESL	1 1/2 - 2 1/2	1/2 - 1 1/4	1 - 4	1/2 - 2

19828E

AIR-PROPANE/MAPP® KITS

AIR PROPANE/MAPP®, SWIRL FLAME TIPS

- Made of heavy stainless steel and brass
- Produce a very hot, efficient flame
- For fast soldering and brazing
- Fuel and air are completely mixed through the helical blade for maximum combustion at end of tip



QUICK-CONNECT

Order No.	MFG. No.
333-9120710201	6Q-2TP
333-9120710302	6Q-3TP
333-9120710401	6Q-4TP
333-9120710502	6Q-5TP
333-9120710602	6Q-6TP

SCREW-CONNECT

Order No.	MFG. No.
333-9120730201	7S-2TP
333-9120730301	7S-3TP
333-9120730401	7S-4TP
333-9120730501	7S-5TP
-	-

COPPER TUBING SIZE CAPACITY

PROPANE GAS		MAPP® GAS		Replacement Tip End
Soft Solder"	Silver Solder"	Soft Solder"	Silver Solder"	
1/8 - 1/4	1/16 - 1/4	1/8 - 1/2	1/8 - 1/4	2TEP
1/4 - 1	1/8 - 1/2	1/4 - 1 1/2	1/4 - 1/2	3TEP
1/4 - 1 1/2	1/4 - 3/4	1/4 - 2 1/2	1/4 - 1 1/4	4TEP
1 1/2 - 2 1/2	1/2 - 1 1/4	1 - 4	1/2 - 2	5TEP
1 1/2 - 4	3/4 - 2	1 1/2 - 6	3/4 - 4	6TEP

MAPP®/PROPANE REPLACEMENT REGULATOR

- GAR/101 series regulators
- Body machined from class "A" brass bar stock
- Sintered bronze inlet filter
- Conical style seat assembly for reliable seating
- Plastic adjustment knob for smooth "easy touch" pressure setting
- Max inlet pressure: 400 PSI
- Max delivery pressure: 2 - 60 PSI
- Inlet gauge: none
- Outlet gauge: none



Order No.	MFG. No.	Inlet Connection	Outlet Connection
333-9111110301	101F-510B	CGA510	9/16"-18LH(M)

ADAPTOR

- Attaches Screw-Connect type Torches to Quick-Connect Tips

Order No.
333-9120740601
MFG. No. 77SA6Q

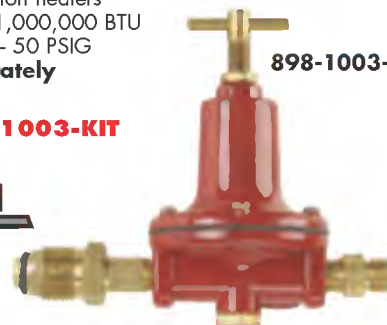


PROPANE REGULATOR

- High pressure industrial/commercial regulator
- For liquid or vapour service with portable torches or construction heaters
- Rated for approx. 1,000,000 BTU
- Includes fittings: 0 - 50 PSIG
- **Hose sold separately**

898-1003-KIT

Order No. 898-1003-KIT



PROPANE HOSES

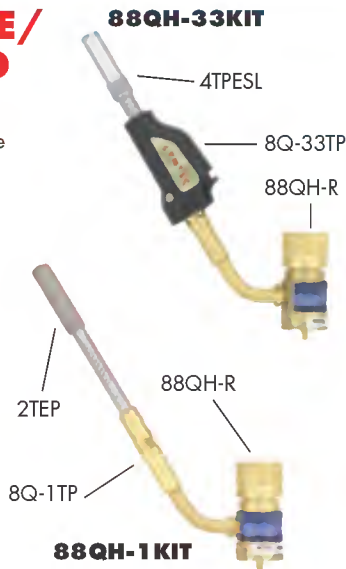
- For use with propane regulator
- Quality flexible hose



Order No.	MFG No.	Length'
722-1070	HP-6	6
722-1010	HP-10	10
722-1030	HP-20	20
722-1040	HP-25	25

AIR PROPANE/ MAPP® HAND TORCH KITS

- Hand torches for disposable MAPP® or propane tanks are designed for professional jobs
- Swirl flame tips produce hot efficient flame for fast soldering and brazing
- 360° swivel allows easy operation in hard to reach areas
- Choice of 3 Tip models: 8Q-3TP, 8Q-1TP, 88QH-33



HAND TORCH KIT REGULATOR

- Use with disposable propane or MAPP® tanks
- 360° swivel elbow for hard to reach areas

Order No.
333-9111110310
MFG. No. 88QH-R



HAND TORCH KIT TIPS

COPPER TUBING SIZE CAPACITY

Order No.	MFG. No.	Regulator	Torch Tip	Replacement Tip End
333-9113880301	88QH-1	88QH-R	8Q-1TP	2TEP
333-9113880302	88QH-3	88QH-R	8Q-3TP	4TEP
333-9113880303	88QH-33SP	88QH-R	8Q-33TP	4TPESL

Order No.	MFG. No.	Soft Solder"	Silver Solder"	Replacement Tip End
333-9120750310	8Q-1TP	1/8 - 1/2	1/2 - 3/8	2TEP
333-9120750330	8Q-3TP	3/8 - 2 1/2	1/4 - 1 3/8	4TEP
TTT446	8Q-33TP	3/8 - 2 1/2	1/4 - 1 3/8	4TPESL

AUTO-IGNITE HAND TORCH

- High output swirl flame
- Use with Propane and MAPP®
- Durable cast iron construction
- Precise flame adjustment
- CGA600 inlet connection



Order No.	MFG. No.	Replacement Tip End
333-9120750400	8Q-44TP	4TPESL



PENCIL FLAME PROPANE HAND TORCH

- Use with 14.1 oz Propane or 1 lb Mapp® tank
- Durable, all brass construction
- Precise flame adjustment by control valve
- Excellent for light-duty applications, such as soldering and thawing frozen pipes
- CGA600 inlet connection

Order No.
333-9120750500
MFG. No. 99TP



FLAME/HEAT SHIELD

- Designed for protecting the surrounding area from the hot flame
- Saves energy by wrapping flame around pipes
- Also keeps flame stable in windy area
- Fits most Gentec® tips (6Q-4TP, 6Q-11TA, 8Q-3TP, 7S-4TP, 7S-11A)

Order No. TTT567
MFG. No. GHS-14





BALLOON FILLER REGULATORS

ECONOMY BALLOON BLOWER

- Features straight through construction
- Rugged brass body
- Piston-type mechanism
- Hand tight CGA 580 inlet connection with sintered bronze inlet filter



Order No.	MFG No.	Description
331-9000	229	Economy Blower

STANDARD BALLOON BLOWER

- Rugged all brass body
- Piston-type mechanism
- Wrench tight CGA 580 inlet connection with sintered bronze filler valve



Order No.	MFG No.	Description
331-9020	230	Standard Blower

PREMIUM BALLOON BLOWER

- Rugged all brass body
- Piston-type mechanism
- Drilled and tapped for tie hook and string cutter
- Hand tight CGA 580 inlet connection with sintered bronze inlet filter
- 1 1/2", 4000 PSI rear entry inlet gauge



Order No.	MFG No.	Description
331-9130	230HGA	Premium Blower

MUL-T-TORCH™ AIR PROPANE TORCH OUTFIT

- Designed for heavy-duty outdoor applications
- Up to 500,000 BTUs is provided for weed burning, ice melting, asphalt removal and many other applications
- All steel torch handle and head
- Excess flow safety check valve shuts off flow when hose is accidentally cut or melted
- 10' durable hose and single flint lighter included
- Brass control nozzle will not freeze up in cold weather
- For use with propane only



Order No.	MFG No.
333-102200201	WBK-500



HOTSPOTTER ALL-PURPOSE PROPANE TORCH KITS

- These all-purpose propane flame tools operate off the pressure of a standard propane tank – no regulator required
- Ideal for a wide variety of all-season maintenance/repair applications
- Burns weeds, repairs asphalt, seals tar, peels paint, removes road markings, melts ice and thaws pipe
- Comes with 10' neoprene hose, on/off valve and 500,000 BTU rating

- **Professional kit includes:** ergonomic handle with adjustable trigger, contoured nozzle, push button igniter switch (pull trigger for maximum burning, release to return to pilot frame)

- **Heavy-duty kit** has durable cast iron and steel nozzle, comes with striker

- **Standard-duty kit** has a welded tube nozzle and comes with striker

312-4903



TTU073



312-4904



Order No.	MFG No.	Description
312-4903	WB-100	Professional Torch Kit
312-4904	WB-101	Heavy-Duty Torch Kit
TTU073	WB-102	Standard-Duty Torch Kit

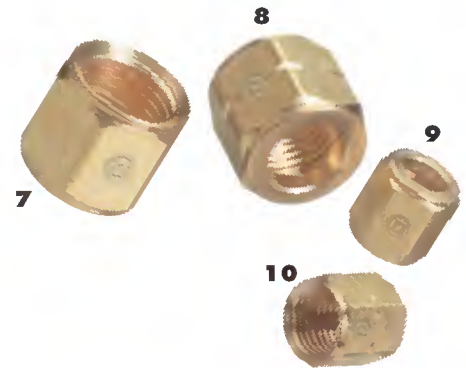


WESTERN
ENTERPRISES

HOSE NUTS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size	Service	Material
A-SIZE (3/8"-24 THREAD)/B-SIZE (9/16"-18 THREAD)					
312-1076	9	Oxygen RH	A	CGA-020	Brass
312-1082	10	Acetylene/F. Gases LH	A	CGA-021	Brass
312-1060	7	Oxygen RH	B	CGA-022	Brass
312-4602	SS-7	Oxygen RH	B	CGA-022	St. Steel
312-1068	8	Acetylene/F. Gases LH	B	CGA-023	Brass
C-SIZE (7/8"-14 THREAD)/D-SIZE (1 1/4"-12 THREAD)					
312-2952	C-7	Oxygen RH	C	CGA-024	Brass
312-2954	C-8	Acetylene/F. Gases LH	C	CGA-025	Brass
312-3246	D-7	Oxygen RH	D	CGA-026	Brass
312-3248	D-8	Acetylene/F. Gases LH	D	CGA-027	Brass



BARBED HOSE NIPPLES

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size	Length"	Material
A-SIZE (USE 9 OR 10 NUT)/B-SIZE (USE 7 OR 8 NUT)					
312-1286	19	3/16" ID Hose	A	1 1/4	Brass
312-1280	18	3/16" ID Hose	B	1 15/32	Brass
312-1274	17	1/4" ID Hose	B	1 15/32	Brass
312-4626	SS-17	1/4" ID Hose	B	1 15/32	St. Steel
312-1278*	17-W	1/4" ID Hose	B	1 15/32	Brass
312-1706	216	5/16" ID Hose	B	1 15/32	Brass
312-1290	20	3/8" ID Hose	B	1 15/32	Brass
312-1292	20-A	3/8" ID Hose	B	1 3/4	Brass
C-SIZE (USE C-7 OR C-8 NUT)/D-SIZE (USE D-7 OR D-8 NUT)					
312-2964	C-20	3/8" ID Hose	C	2	Brass
312-2962	C-19	1/4" ID Hose	C	1 19/32	Brass
312-2960	C-18	1/2" ID Hose	C	2 1/4	Brass
312-2956	C-17	1/2" ID Hose	C	3 3/4	Brass
312-3250	D-17	1/2" ID Hose	D	3 3/16	Brass
312-3252	D-18	3/4" ID Hose	D	3 1/2	Brass

* With O-Ring



SPIRAL & NPT HOSE NIPPLES

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size	Length"	Material
A-SIZE (USE 9 OR 10 NUT)/B-SIZE (USE 7 OR 8 NUT)					
312-1298	23	1/8" NPT	B	1 1/2	Brass
312-1092	13	3/16" ID Hose	A	1 1/4	Brass
312-1090	12	3/16" ID Hose	B	1 13/32	Brass
312-1084	11	1/4" ID Hose	B	1 19/32	Brass
312-1904	516	5/16" ID Hose	B	1 19/32	Brass
312-1636	138	3/8" ID Hose	B	1 5/8	Brass
C-SIZE (USE C-7 OR C-8 NUT)/D-SIZE (USE D-7 OR D-8 NUT)					
312-3000	C-88	1/4" NPT	C	2	Brass
312-3254	D-20	1/2" NPT	D	2 1/2	Brass





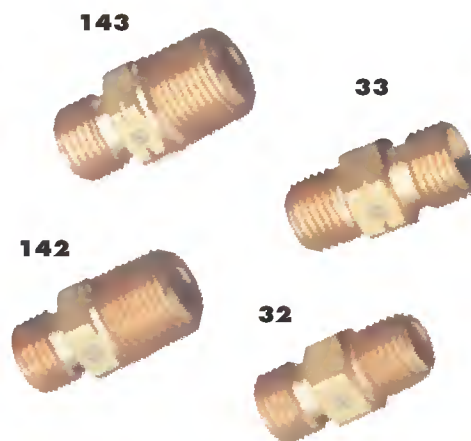
REGULATOR OUTLET BUSHINGS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Material
MALE NPT TO OXYGEN RH/MALE NPT TO ACET./F. GASES LH			
312-1624	132	1/8" NPT to A-Size RH	Brass
312-1626	133	1/8" NPT to A-Size LH	Brass
312-1628	134	1/4" NPT to A-Size RH	Brass
312-1630	135	1/4" NPT to A-Size LH	Brass
312-1632	136	1/8" NPT to B-Size RH	Brass
312-1634	137	1/8" NPT to B-Size LH	Brass
312-1326	32	1/4" NPT to B-Size RH	Brass
312-4642	SS-32	1/4" NPT to B-Size RH	St. Steel
312-1332	33	1/4" NPT to B-Size LH	Brass
312-1642	142	3/8" NPT to B-Size RH	Brass
312-4700	SS-142	3/8" NPT to B-Size RH	St. Steel
312-1644	143	3/8" NPT to B-Size LH	Brass
312-1646	144	1/2" NPT to B-Size RH	Brass
312-1648	145	1/2" NPT to B-Size LH	Brass
312-2978	C-34	1/4" NPT to C-Size RH	Brass
312-2980	C-35	1/4" NPT to C-Size LH	Brass
312-2986	C-40	3/8" NPT to C-Size RH	Brass
312-2988	C-41	3/8" NPT to C-Size LH	Brass
312-2974	C-32	1/2" NPT to C-Size RH	Brass
312-2976	C-33	1/2" NPT to C-Size LH	Brass
312-3264	D-34	1/2" NPT to D-Size RH	Brass
312-3266	D-35	1/2" NPT to D-Size LH	Brass
312-3260	D-32	3/4" NPT to D-Size RH	Brass
312-3262	D-33	3/4" NPT to D-Size LH	Brass



WESTERN
ENTERPRISES



HOSE COUPLERS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size
A-SIZE: CGA-020 RH & CGA-021 LH/B-SIZE: CGA-022 RH & CGA-023 LH			
312-1616	130	Oxygen RH, A-Size to A-Size	A
312-1620	131	Acet./F. Gases LH, A-Size to A-Size	A
312-1716	230	Oxygen RH, A-Size to B-Size	A/B
312-1718	231	Acet./F. Gases LH, A-Size to B-Size	A/B
312-1318	30	Oxygen RH, B-Size to B-Size	B
312-1322	31	Acet./F. Gases LH, B-Size to B-Size	B
C-SIZE: CGA-024 RH & CGA-025 LH/D-SIZE: CGA-026 RH & CGA-027 LH			
312-2970	C-30	Oxygen RH, C-Size to C-Size	C
312-2972	C-31	Acetylene/F. Gases LH, C-Size to C-Size	C
312-3256	D-30	Oxygen RH, D-Size to D-Size	D
312-3258	D-31	Acetylene/F. Gases LH, D-Size to D-Size	D



HOSE ADAPTORS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)



WESTERN
ENTERPRISES

Order No.	MFG No.	Description	Gas
312-1564	107	90° Male B-Size to Female B-Size, RH	Oxygen
312-1566	108	90° Male B-Size to Female B-Size, LH	Acet/F. Gases
312-1612	127	45° 1/4" Male NPT to Male B-Size, RH	Oxygen
312-1614	128	45° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases
312-1744	253	90° 1/4" Male NPT to Male B-Size, RH	Oxygen
312-1746	254	90° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases
312-1604	123	1/4" Male NPT to Female Swivel B-Size, RH	Oxygen
312-1606	124	1/4" Male NPT to Female Swivel B-Size, LH	Acet/F. Gases
312-1608	125	1/4" Male NPT to Female Swivel A-Size, RH	Oxygen
312-1610	126	1/4" Male NPT to Female Swivel A-Size, LH	Acet/F. Gases
312-1652	153	Female Swivel B-Size to 1/4" Male NPT, RH	Oxygen
312-1654	154	Female Swivel B-Size to 1/4" Male NPT, LH	Acet/F. Gases
312-1724	234	1/4" Female NPT to Female Swivel B-Size, RH	Oxygen
312-1726	235	1/4" Female NPT to Female Swivel B-Size, LH	Acet/F. Gases
312-1736	244	1/4" Female NPT to Male B-Size, RH	Oxygen
312-1738	245	1/4" Female NPT to Male B-Size, LH	Acet/F. Gases
312-1548	103	Male A-Size to Female B-Size, RH	Oxygen
312-1552	104	Male A-Size to Female B-Size, LH	Acet/F. Gases
312-1556	105	Male B-Size to Female A-Size, RH	Oxygen
312-1560	106	Male B-Size to Female A-Size, LH	Acet/F. Gases
312-1118	14-0	Female Swivel to 1/4" ID Hose, RH, A-Size	Oxygen
312-1116	14	Female Swivel to 1/4" ID Hose, LH, A-Size	Acet/F. Gases
312-1302	24-0	Female Swivel to 1/4" ID Hose, RH, B-Size	Oxygen
312-1300	24	Female Swivel to 1/4" ID Hose, LH, B-Size	Acet/F. Gases
312-1928	544	Male 1/8" NPT to 3/16" ID Hose	
312-1930	545	Male 1/8" NPT to 1/4" ID Hose	
312-1936	548	Male 1/8" NPT to 1/8" ID Hose	
312-1912	540	Male 1/4" NPT to 3/16" ID Hose	
312-1916	541	Male 1/4" NPT to 1/4" ID Hose	
312-1920	542	Male 1/4" NPT to 5/16" ID Hose	
312-1924	543	Male 1/4" NPT to 3/8" ID Hose	
312-1940	549	Male 1/4" NPT to 1/8" ID Hose	
312-1910	539	Male 3/8" NPT to 3/8" ID Hose	
312-1906	537	Male 3/8" NPT to 1/4" ID Hose	
312-2990	C-42	Male 1/2" NPT to 1/2" ID Hose	
312-1944	551	Female 1/8" NPT to 3/16" ID Hose	
312-1946	552	Female 1/8" NPT to 1/4" ID Hose	
312-1950	554	Female 1/4" NPT to 3/16" ID Hose	
312-1954	555	Female 1/4" NPT to 1/4" ID Hose	
312-1958	556	Female 1/4" NPT to 5/16" ID Hose	
312-1962	557	Female 1/4" NPT to 3/8" ID Hose	
312-1966	558	Female 3/8" NPT to 1/4" ID Hose	
312-1352	40	Male B-Size, RH to 3/16" ID Hose Barbed	Oxygen
312-1356	40-B	Male B-Size, RH to 1/4" ID Hose Barbed	Oxygen
312-1358	41	Male B-Size, LH to 3/16" ID Hose Barbed	Acet/F. Gases
312-1362	41-B	Male B-Size, LH to 1/4" ID Hose Barbed	Acet/F. Gases



253



123



105



24-0



541



40-B

STAINLESS STEEL FLEXIBLE PIGTAILS

- 100% tested and cleaned for oxygen
- Female connection on both ends
- 3000 PSIG maximum pressure
- 1/4" NFPT thread size



WESTERN
ENTERPRISES

Order No.	MFG No.	Length"
312-4109	PF2-4-18	18
312-4111	PF2-4-24	24
312-4113	PF2-4-36	36
312-4115	PF2-4-48	48





BRASS FITTINGS

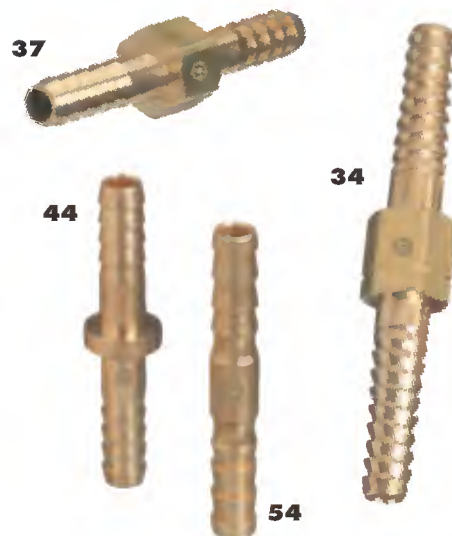
HOSE SPLICERS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Style
312-1338	35	3/16" to 3/16" ID Hose	Spirol Hex
312-1336	34	1/4" to 1/4" ID Hose	Spirol Hex
312-1728	238	3/8" to 3/8" ID Hose	Spirol Hex
312-1346	38	3/16" to 3/16" ID Hose	Borb Hex
312-1350	39	3/16" to 1/4" ID Hose	Borb Hex
312-1342	37	1/4" to 1/4" ID Hose	Borb Hex
312-1638	139	5/16" to 5/16" ID Hose	Borb Hex
312-1650	149	3/8" to 3/8" ID Hose	Borb Hex
312-2984	C-38	1/2" to 1/2" ID Hose	Borb Hex
312-3268	D-38	3/4" to 3/4" ID Hose	Borb Hex
312-1378	45	3/16" to 3/16" ID Hose	Borb Round
312-1374	44	1/4" to 1/4" ID Hose	Borb Round
312-1380	46	5/16" to 5/16" ID Hose	Borb Round
312-1382	47	3/8" to 3/8" ID Hose	Borb Round
312-1386	48	1/2" to 1/2" ID Hose	Borb Round
312-1392	53	1/8" to 1/8" ID Hose	Borb No Stop
312-1396	55	3/16" to 3/16" ID Hose	Borb No Stop
312-1394	54	1/4" to 1/4" ID Hose	Borb No Stop
312-1398	56	5/16" to 5/16" ID Hose	Borb No Stop
312-1400	57	3/8" to 3/8" ID Hose	Borb No Stop
312-2982	C-37	1/2" to 1/2" ID Hose	Borb No Stop



WESTERN
ENTERPRISES



CHAIN & PLUG ASSEMBLIES, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size	Service
B-SIZE (9/16"-18 THREAD) * C-SIZE (7/8"-14 THREAD) * D-SIZE (1 1/4"-12 THREAD)				
312-2232	927	2-Piece Assembly, Gos Tight Seal, Female Oxygen RH Nut & Plug	B	CGA-022
312-2234	928	2-Piece Assembly, Gos Tight Seal, Female Acetylene LH Nut & Plug	B	CGA-023
312-3308	DC-B7	1-Piece Dust Cap, Not Gos Tight, Female Oxygen RH	B	CGA-022
312-3310	DC-B8	1-Piece Dust Cap, Not Gos Tight, Female Acetylene LH	B	CGA-023
312-3002	C-907	2-Piece Assembly, Gos Tight Seal, Female Oxygen, RH Nut & Plug	C	CGA-024
312-3004	C-908	2-Piece Assembly, Gos Tight Seal, Female Acetylene LH Nut & Plug	C	CGA-025
312-3312	DC-C7	1-Piece Dust Cap, Not Gos Tight, Female Oxygen RH	C	CGA-024
312-3314	DC-C8	1-Piece Dust Cap, Not Gos Tight, Female Acetylene LH	C	CGA-025
TTT849	D-907	2-Piece Assembly, Gos Tight Seal, Female Oxygen RH, Nut & Plug	D	CGA-026
TTT850	D-908	2-Piece Assembly, Gos Tight Seal, Female Acetylene, LH, Nut & Plug	D	CGA-027



MANIFOLD ONE-PIECE DUST CAP ASSEMBLIES

NOT GAS-TIGHT

Order No.	MFG No.	Description	Gas	Service
312-3308	DC-B7	RH Female B-Size	Oxygen	CGA-022
312-3310	DC-B8	LH Female B-Size	Acetylene	CGA-023
312-3312	DC-C7	RH Female C-Size	Oxygen	CGA-024
312-3314	DC-C8	LH Female C-Size	Acetylene	CGA-025
312-3274	DC-200	MC Tonk, RH Female	Acetylene	CGA-200
312-3278	DC-300	RH Female	Coml. Acetylene	CGA-300
312-3280	DC-320	RH Female	Carbon Dioxide	CGA-320
312-3286	DC-346	RH Female	Air	CGA-346
312-3288	DC-350	LH Female	Hydrogen	CGA-350
312-3290	DC-510	LH Mole	POL Acetylene	CGA-510
312-3294	DC-540	RH Female	Oxygen	CGA-540
312-3300	DC-580	RH Mole	Nitrogen, Argon, Helium	CGA-580
312-3306	DC-660	RH Female	Mixtures	CGA-660



INERT ARC NUTS, BRASS (TIG)

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size	Service
A-SIZE (3/8"-24) * B-SIZE (5/8"-18) * C-SIZE (7/8"-14)				
312-1076	9	Inert Gas, Female RH	A	CGA-020
312-1082	10	Water, Female LH	A	CGA-021
312-2498	AW-21	Water, Male LH	A	CGA-031
312-2500	AW-21A	Inert Gas, Male RH	A	CGA-030
Use Above With AW-13, AW-24, A-Size Cable Nipples				
312-2452	AW-7	Air-Water, Female RH	B	-
Use Above With AW-30 and AW-32 Couplers				
312-2464	AW-14	Water, Male LH	B	CGA-033
312-2472	AW-14A	Inert Gas, Male RH	B	CGA-032
Use Above With All B-Size Inert Arc Nipples				
312-2454	AW-10	Water, Male LH	C	CGA-035
312-2456	AW-10A	Inert Gas, Male RH	C	CGA-034
Use Above With All C-Size Power Cable Nipples				



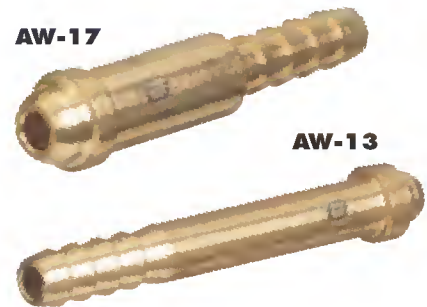
WESTERN
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INERT ARC NIPPLES, BRASS (TIG)

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size
A-SIZE (3/8"-24) * B-SIZE (5/8"-18)			
312-2508	AW-24	2" Long, Barb for 1/8" ID Hose	A
312-2462	AW-13	2" Long, Barb for 3/16" ID Hose	A
Use Above With 9, 10, AW-21, AW-21A Nuts			
312-2450	AW-3	2.175" Long, 1/8" NPT	B
312-2482	AW-16	2 7/32" Long, Barb for 1/8" ID Hose	B
312-2486	AW-17	2 7/32" Long, Barb for 1/4" ID Hose	B
312-2490	AW-18	2 7/32" Long, Barb for 3/16" ID Hose	B
312-2494	AW-19	2 7/32" Long, Barb for 3/8" ID Hose	B
312-2496	AW-20	2 7/32" Long, Barb for 5/16" ID Hose	B
Use Above With AW-14, AW-14A, AW-7 Nuts			
312-2484	AW-16B	1 13/32" Long, for 1/8" ID Hose, .190 OD	B
312-2530	AW-40	2" Long, Undersized 1/8" Barb	B
312-2542	AW-47	2 7/32" Long, Special 1/4" Barb	B



INERT ARC ADAPTORS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

MALE TO FEMALE AIR-WATER CONNECTIONS FOR INERT ARC WELDING

Order No.	MFG No.	Description	Size
A-SIZE (3/8"-24")			
312-2458	AW-12	1/8" NPT Male to A-Size Female LH Water	A
312-2460	AW-12A	1/8" NPT Male to A-Size Female RH Inert Gas	A
B-SIZE (5/8"-18")			
312-2580	AW-152	1/8" NPT Male to B-Size Female LH Water	B
312-2582	AW-152A	1/8" NPT Male to B-Size Female RH Inert Gas	B
312-2466	AW-15	1/4" NPT Male to B-Size Female LH Water	B
312-2476	AW-15A	1/4" NPT Male to B-Size Female RH Inert Gas	B
312-2518	AW-28	9/16"-18 Male to B-Size Female LH Water	B
312-2520	AW-28A	9/16"-18 Male to B-Size Female RH Inert Gas	B
C-SIZE (7/8"-14")			
312-2514	AW-27	1/4" NPT Male to C-Size Female LH Water	C
312-2516	AW-27A	1/4" NPT Male to C-Size Female RH Inert Gas	C





INERT ARC HOSE & TORCH ADAPTORS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description
B-SIZE (5/8"-18)		
312-2584	AW-403	RHM to CGA-022 9/16"-18 RHM
312-2588	AW-404	LHM to B-Size RHM
312-2590	AW-405	RHF to CGA-022 9/16"-18 RHF
312-2594	AW-406	LHF to B-Size RHF
312-2596	AW-407	RHM to B-Size RHF -90°
312-2598	AW-408	LHM to B-Size LHF -90°
312-2600	AW-409	RHM to B-Size RHM
312-2604	AW-423	RHM to CGA-023 9/16"-18 LHM
312-2606	AW-424	LHM to CGA-023 9/16"-18 LHM
312-2608	AW-425	RHF to CGA-023 9/16"-18 LHF
312-2610	AW-426	LHF to CGA-023 9/16"-18 LHF
312-2612	AW-427	RHM to 1/4" NPT M
312-2614	AW-428	LHM to 1/4" NPT M
312-2638	AW-432B	9/16" - 18 F to 5/8" - 18 F
312-2640	AW-433	RHM to CGA-023 9/16"-18 LHF



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ENTERPRISES



INERT ARC HOSE COUPLERS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size
A-SIZE (3/8"-24)			
312-2618	AW-430A	CGA-030 RH Female to A-Size RH Female	A
TTT851	AW-431A	CGA-031 LH Female to A-Size LH Female	A
B-SIZE (5/8"-18)			
312-2616	AW-430	CGA-032 RH Female to B-Size RH Female	B
312-2626	AW-431	CGA-033 LH Female to B-Size LH Female	B
312-2620	AW-430B	1/4" NPT Female to CGA-032 RH Female	B
312-2630	AW-431B	1/4" NPT Female to CGA-033 LH Female	B
C-SIZE (7/8"-14)			
312-2622	AW-430C	CGA-034 RH Female to C-Size RH Female	C
312-2632	AW-431C	CGA-035 LH Female to C-Size LH Female	C

AW-431A

AW-430



INERT ARC AIR-WATER COUPLERS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size
312-2522	AW-30	5/8"-18 Male RH to 5/8"-18 Male RH	B
312-2524	AW-32	1/4"-18 NPT Male to 5/8"-18 Male RH	B
312-2526	AW-34	5/8"-18 Male RH to 9/16"-18 Male RH	B
312-2528	AW-35	5/8"-18 Male LH to 9/16"-18 Male LH	B

AW-30

AW-35



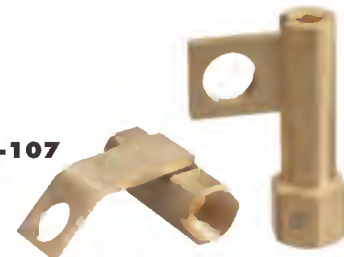
INERT ARC POWER CABLE ADAPTORS, BRASS (TIG)

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description	Size
B-SIZE (5/8"-18)			
312-2576	AW-110	RH Female to A-Size RH Female, 2 15/16" Long	B
312-2566	AW-105	RH Female to B-Size RH Female, 3/4" Hex, 2 1/8" Long	B
312-2570	AW-107	LH Female to B-Size LH Female, 3/4" Hex, 2 1/8" Long	B
C-SIZE (7/8"-14)			
312-2574	AW-109	LH Female to B-Size LH Female, 1 1/8" Hex, 2" Long	C

AW-110

AW-107



INERT ARC POWER CABLE NIPPLES & CONNECTOR ASSEMBLIES, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

ONE-PIECE POWER CABLE NIPPLE & TUBE CONNECTOR FOR CRIMPING

Order No.	MFG No.	Description	Size
A-SIZE (3/8"-24)			
312-2536	AW-44	1/8" ID Hose, .22 OD Tube, 1 3/4" Long	A
312-2538	AW-45	3/16" ID Hose, .245 OD Tube, 2 3/8" Long	A
B-SIZE (5/8"-18)			
312-2540	AW-46	3/8" ID Hose, .367 OD Tube, 2 3/4" Long	B
C-SIZE NIPPLES FOR CRIMPING CABLE, USE WITH AW-10 & AW-10A NUT - C-SIZE (7/8"-14)			
312-2506	AW-23	.312" OD Copper Tube, 3 11/32" Long	C
312-2512	AW-26	.225" OD Brass Tube, 1.45" Long	C
312-2550	AW-52	.375" OD Copper Tube, 3 3/8" Long	C
312-2554	AW-54	.312" OD Copper Tube, 3 1/32" Long	C

INERT ARC POWER CABLE NUT, NIPPLE & COPPER TUBE ASSEMBLIES

PRESSURES TO 200 PSIG (1400 KPA)

- Assemblies with copper tube for crimping cable
- Copper or brass nipple & swivel nut

Order No.	MFG No.	Description
312-2502	AW-22	Nipple & .312 OD Copper Tube with Brass A-Size LH Swivel Nut, 2-13/16" Long
312-2504	AW-22A	Nipple & .312 OD Copper Tube with Brass A-Size RH Swivel Nut, 2-13/16" Long
312-2510	AW-25	Nipple & .312 OD Copper Tube with Brass A-Size Female Swivel Nut, 2 5/8" Long
312-2548	AW-51	Nipple & .375" OD Copper Tube with 7/16"-20 Female Nut, 2 5/16" Long
312-2552	AW-53	Nipple & .218" OD Copper Tube with RH 1/4"-28 Female Nut, 1-15/16" Long
312-2556	AW-55	Nipple & .312" OD Copper Tube with 7/16"-20 Female Nut, 2" Long
312-2558	AW-56	Nipple & .375" OD Copper Tube with 5/8"-18 RH Male Nut (AW14-A), 3 1/4" Long

Y CONNECTIONS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

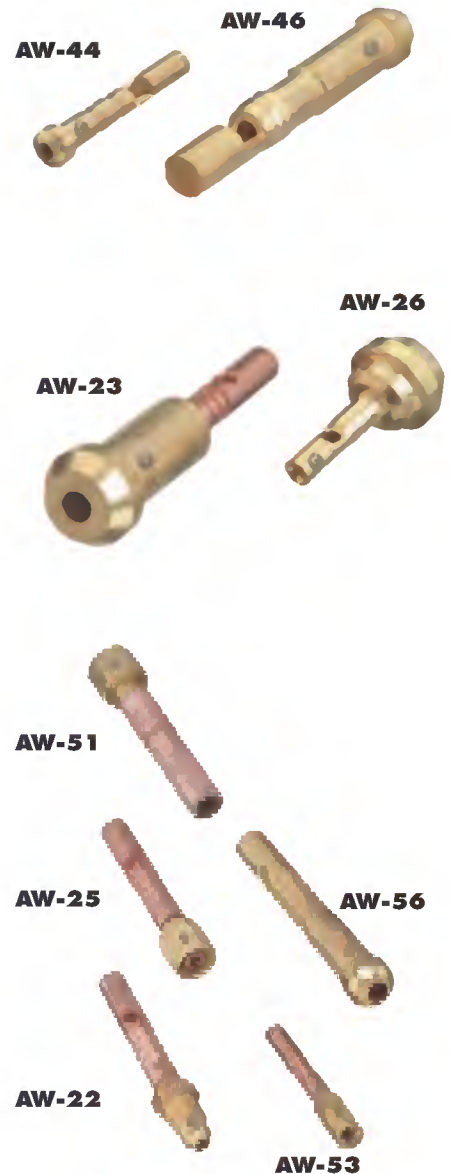
Order No.	MFG No.	Description	Service
A-SIZE (3/8"-24 THREAD) / B-SIZE (9/16"-18 THREAD)			
312-1540	101	Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
312-1544	102	Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023
312-1590	113	Oxygen RH: A-Size F Inlet to A-Size M Outlets	CGA-020
312-1594	114	Acetylene/F. Gases LH: A-Size F Inlet to A-Size M Outlets	CGA-021
312-1848	401	Inert Gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032
312-1850	402	Water, Industrial Air LH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-033

PRESSURES TO 3000 PSIG (20,700 KPA)

312-1578	111-5	Short "Y" Connection: 1/4" NPT M Inlet to 1/4" NPT F Outlets
312-1580	111-6	Short "Y" Connection: 1/8" NPT F Inlet



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BRASS FITTINGS

VALVED "Y" CONNECTIONS, BRASS

PRESSURES TO 200 PSIG (1400 KPA)

- For use of two cutting and/or two welding torches at once
- Precision shut off valves

Order No.	MFG No.	Description	Service
B-SIZE (9/16"-18 THREAD)			
312-1572	111	Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
312-1584	112	Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023
312-1598	115	Oxygen RH: A-Size F Inlet to A-Size M Outlets	CGA-020
312-1600	116	Acetylene/F. Gases LH: A-Size F Inlet to A-Size M Outlets	CGA-021
312-1852	411	Inert Gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032
312-1854	412	Water, Industrial Air LH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-033

VALVES, BRASS

PRESSURES TO 200 PSIG (1400 KPA), UL LISTED

Order No.	MFG No.	Outlet	Service	Gas
1/2" NPT MALE INLET * 7/8"-14 CGA MALE OUTLET				
314-2035	WSV-1-1	RH, Gas Tight Plug/Chain	CGA-024	Oxygen
314-2050	WSV-1-2	LH, Gas Tight Plug/Chain	CGA-025	Fuel Gas
314-2045	WSV-1-1P	RH, No Outlet Protection	CGA-024	Oxygen
314-2060	WSV-1-2P	LH, No Outlet Protection	CGA-025	Fuel Gas
TTT852	WSV-1-1DC	RH, Dust Cap and Chain	CGA-024	Oxygen
TTT853	WSV-1-2DC	LH, Dust Cap and Chain	CGA-025	Fuel Gas

BRASS BODY VALVES FOR NON-CORROSIVE GASES

PRESSURES TO 200 PSIG (1400 KPA)

Order No.	MFG No.	Description
B-SIZE (9/16"-18 THREAD)		
312-1672	203	Oxygen CGA-022: Inlet: B-Size Female Swivel Nut RH; Outlet: B-Size Male RH
312-1674	204	Acetylene/F. Gases CGA-023: Inlet: B-Size Female Swivel Nut LH; Outlet: B-Size Male LH
312-1676	205	Oxygen CGA-022: Inlet: 1/4" NPT Male; Outlet: B-Size Male RH
312-1680	206	Acetylene/F. Gases CGA-023: Inlet: 1/4" NPT Male; Outlet: B-Size Male LH
312-1684	207	Oxygen CGA-022: Inlet: B-Size Male RH; Outlet: 1/4" NPT Male
312-1686	208	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: 1/4" NPT Male
312-1688	208-F	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: 1/4" NPT Female
312-1698	212	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: 1/8" NPT Female
312-1690	209	Oxygen CGA-022: Inlet: B-Size Male RH; Outlet: B-Size Male RH
312-1692	210	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: B-Size Male LH
312-1702	215-AR	Inert Gas CGA-032: Inlet: 1/4" NPT Male; Outlet: 5/8"-18 Female RH
312-1700	215-AL	Inert Gas CGA-033: Inlet: 1/4" NPT Male; Outlet: 5/8"-18 Female LH
312-1704	215-FR	Inert Gas CGA-032: Inlet: 5/8"-18 Male Swivel Nut RH; Outlet: 5/8"-18 Female RH

PRESSURES TO 3000 PSIG (20,700 KPA)

ALL NON-CORROSIVE GASES:

312-1696	211-E	Inlet: 1/8" NPT Male; Outlet: 1/8" NPT Male
312-1694	211	Inlet: 1/4" NPT Male; Outlet: 1/4" NPT Male
312-1708	217	Inlet: 1/4" NPT Male; Outlet: 1/4" NPT Female
312-1710	218	Inlet: 1/4" NPT Female; Outlet: 1/4" NPT Male
312-1712	218-D	Inlet: 1/4" NPT Female; Outlet: 1/4" NPT Female



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ENTERPRISES



111



WSV-1-1P



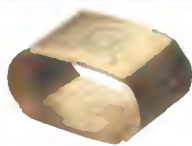
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215-AIR



BRASS DUAL HOSE BRACES, OVAL



Order No.	MFG No.	Inside Dimension"	Length"	Metal Thickness"
312-2404	9116	0.448 x 0.890	15/32	0.019
312-2416	9979	0.474 x 0.943	15/32	0.019
312-2412	9940-P	0.535 x 1.071	3/4	0.024
312-1872	453	0.593 x 1.238	3/4	0.025
312-1874	453-A	0.640 x 1.310	3/4	0.025
312-1876	454	0.700 x 1.325	3/4	0.025

BENCH FERRULE CRIMPING TOOL

BENCH MODEL HOSE CRIMPER

- Dies need to be ordered separately (see table below)
- Dies are available in standard sets listed in Ferrule
- Each set includes four segments
- Dies are available with plain contracting surface (CD) or special three-ribbed surface (CDR)
- Sets are ordered by using die numbers in the Ferrule Table

Examples: Plain Die for Ferrule K-K: Order CD-38

Ribbed Die for Ferrule K-K: Order CDR-37

Order No. 312-2350

MFG No. 5111-A



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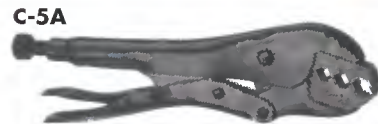


HAND-HELD FERRULE CRIMP TOOLS



Order No.	MFG No.	Description of Jaw
CRIMP WITH HAMMER STRIKE OR VISE PRESSURE:		
312-2928	C-1	2 Hole 5/8" Wide, Use on 3/16", 1/4" Hose
312-2936	C-3	3 Hole 1" Wide, Use on 3/16", 1/4", 3/8" Hose
312-2940	C-3B	3 Hole 1" Wide, Use on 1/4", 5/16", 3/8" Hose
CRIMP WITH HAND-GRIP PRESSURE:		
312-2944	C-5	2 Hole 1/2" Wide, Use on 3/16", 1/4" Hose
312-2946	C-5A	3 Hole 1/2" Wide, Use on 5/16", 11/32", 27/64" Hose

C-5A



C-3



HEAVY-DUTY FERRULE CRIMP MACHINE

- Crimps Ferrules on 3/16", 1/4", 5/16", 3/8" Hose
- Die Width: 1/2"

Order No. 312-3174

MFG No. CR-100



WESTERN ENTERPRISES



BRASS HOSE FERRULES

- Listed by size in inches, smallest to largest I.D.

Order No.	MFG No.	Inside Diameter"	Length"	Recommend Hand Crimp Tool	5111-A Die	
					Plain	Ribbed
312-2352	6231	0.330	1/2	C-5A	-	CDR-46
312-2174	833	0.358	1/2	C-5A	-	CDR-45
312-2032	622	0.380	1/2	C-5A	-	-
312-2030	620	0.410	1/2	C-5A	-	-
312-2108	769	0.450	9/16	C-1, C-5, C-5A, CR-100	-	CDR-41
312-2342	4750	0.478	11/16	CR-100	-	CDR-41
312-2034	624	0.500	1/2	CR-100	-	CDR-40
312-2372	7322	0.500	1	C-3B	-	CDR-39
312-2038	625	0.525	1/2	C-3B	-	CDR-39
312-2376	7323	0.525	1	C-3B	CD-38	CDR-38
312-2040	626	0.548	31/64	C-3B	CD-39	CDR-38
312-2380	7325	0.562	1	C-3B, C-5, CR-100	CD-38	CDR-37
312-2338	3588	0.564	3/4	C-3B, C-5, CR-100	CD-38	CDR-37
312-3592	K-K	0.575	31/64	C-1, C-3B, C-5, C-3, CR-100	CD-38	CDR-37
312-2384	7326	0.593	1	C-1, C-3B, C-3, C-5	-	CDR-36
312-3590	J-J	0.600	1/2	C-1, C-3B, C-3, C-5	-	CDR-36
312-3588	H	0.625	1/2	C-3B, C-6, CR-100	-	CDR-35
312-2388	7327	0.625	1	C-3B, C-6, CR-100	-	CDR-35
312-3586	H-H	0.650	1/2	C-6	-	CDR-34
312-2390	7328	0.656	1	C-3B, C-6, CR-100	-	CDR-34
312-3578	G-G	0.675	33/64	C-3B, C-6, CR-100	-	-
312-2392	7329	0.687	1	C-3, C-6, CR-100	-	-
312-3390	F-F	0.700	33/64	C-3, C-6, CR-100	-	CDR-32
312-2394	7330-B	0.718	1	C-3, C-6	-	-
312-3326	E-E	0.725	17/32	C-3, C-6	-	-
312-2396	7331	0.750	1	C-3, C-6	-	-
312-3022	C-C	0.775	17/32	C-3, C-6	-	-
312-2398	7332	0.781	1	C-3, C-6	-	-
312-2400	7333	0.812	1	5111-A*	CD-28	-
312-2370	7244-A	0.875	27/32	5111-A*	CD-26	CDR-25
312-2348	5029-A	0.900	27/32	5111-A*	CD-25	-
TTT854	7242-A	0.937	27/32	5111-A*	-	-
TTT855	5028-A	0.975	27/32	5111-A*	CD-22	-

* Use of hand tool is not recommended. Model 5111-A is a heavy-duty bench style ferrule machine.



WESTERN ENTERPRISES





HOSE REPAIR KITS

HOSE REPAIR KITS

- Hose repair kits include crimping tool, nuts, couplers, splicers, nipples and ferrules
- Fast, easy concave crimp ensures strong connections
- Convenient plastic case is durable and includes a full color label and description chart



CK-3



WESTERN
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Order No.	MFG No.	Description
HOSE REPAIR KITS WITH "HAMMER-STRIKE" CRIMP TOOL: A-SIZE (3/8"-24) & B-SIZE (9/16"-18) FITTINGS		
312-3078	CK-1	Kit with C-1 Crimp Tool for 3/16", 1/4" ID Hose
312-3080	CK-3	Kit with C-3 Crimp Tool for 3/16", 1/4", 3/8" ID Hose
312-3100	CK-20	Kit with C-1 Crimp Tool for 3/16", 1/4" ID Hose
312-3101	CK-22	Kit with C-1 Crimp Tool, for 1/4" ID Hose, B-Size Fittings Only
HOSE REPAIR KITS WITH "HAND-GRIP" CRIMP TOOL: B-SIZE (9/16"-18) FITTINGS ONLY		
312-3084	CK-5	Kit with C-5 Crimp Tool for 3/16", 1/4" ID Hose
312-3086	CK-6	Kit with C-6 Crimp Tool for 5/16", 3/8" ID Hose
NP497	CK-24	Kit with C-5 Crimp Tool for 3/16", 1/4" ID Hose
312-3103	CK-26	Kit with C-5 Crimp Tool for 1/4" ID Hose, B-Size Fittings Only
HOSE REPAIR KIT B-SIZE (9/16"-18) FITTINGS ONLY		
312-3088	CK-7	B-Size (9/16"-18) Kit, 189 Fittings in Case (Does not include Crimp Tool)

CK-5



BRASS FERRULE & CRIMPING TOOL KIT

Order No.	MFG No.	Description
312-3094	CK-10	Ferrule kit, 134 pieces, C-3B Crimp Tool

PIPE THREAD ELBOWS

Order No.	MFG No.	Description"	Material	Max PSIG (kPa)
(90° FEMALE TO FEMALE NPT)				
312-2794	BEL-4-4LP	1/4 x 1/4	Brass	1000 (6900)
312-2792	BEL-4HP	1/4 x 1/4	Brass	3000 (20,700)
312-2796	BEL-6HP	3/8 x 3/8	Brass	3000 (20,700)
312-2798	BEL-8HP	1/2 x 1/2	Brass	3000 (20,700)
(90° FEMALE TO MALE NPT)				
312-2844	BL-2-2LP	1/8 x 1/8	Brass	1000 (6900)
312-2842	BL-2HP	1/8 x 1/8	Brass	3000 (20,700)
312-2850	BL-4-2LP	1/4 x 1/8	Brass	1000 (6900)
312-2852	BL-4-4LP	1/4 x 1/4	Brass	1000 (6900)
312-2848	BL-4SS	1/4 x 1/4	Stainless Steel	6000 (41,300)
312-2846	BL-4HP	1/4 x 1/4	Brass	3000 (20,700)
312-2854	BL-6HP	3/8 x 3/8	Brass	3000 (20,700)
312-2856	BL-8HP	1/2 x 1/2	Brass	3000 (20,700)
(45° FEMALE TO MALE NPT)				
312-2916	BSL-4-4LP	1/4 x 1/4	Brass	1000 (6900)
312-2914	BSL-4HP	1/4 x 1/4	Brass	3000 (20,700)

BL-4-4LP



BEL-4HP

BSL-4HP

BCR-4LP



BCR-4HP

PIPE THREAD CROSSES

4-WAY FEMALE				
Order No.	MFG No.	Description"	Material	Max PSIG (kPa)
312-2786	BCR-4LP	1/4 NPT	Brass	1000 (6900)
312-2784	BCR-4HP	1/4 NPT	Brass	3000 (20,700)
TTT856	BCR-4SS	1/4 NPT	Stainless Steel	6000 (41,300)

PIPE THREAD TEES

3-WAY FEMALE:

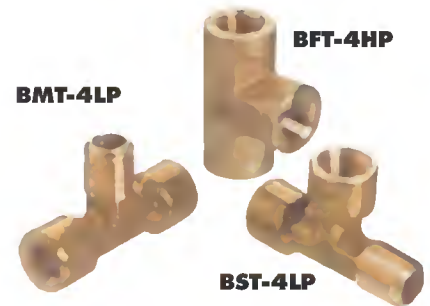
Order No.	MFG No.	Description"	Material	Max PSIG (kPa)
312-2808	BFT-2LP	1/8 NPT	Brass	1000 (6900)
312-2806	BFT-2HP	1/8 NPT	Brass	3000 (20,700)
312-2812	BFT-4LP	1/4 NPT	Brass	1000 (6900)
312-2810	BFT-4HP	1/4 NPT	Brass	3000 (20,700)
312-2814	BFT-4SS	1/4 NPT	Stainless Steel	6000 (41,300)
312-2816	BFT-6HP	3/8 NPT	Brass	3000 (20,700)
TTT857	BFT-12HP	3/4 NPT	Brass	3000 (20,700)

FEMALE x MALE:

312-2858	BMT-2HP	1/8 NPT (Branch)	Brass	3000 (20,700)
312-2862	BMT-4LP	1/4 NPT (Branch)	Brass	1000 (6900)
312-2920	BST-4LP	1/4 NPT (Street)	Brass	1000 (6900)
312-2860	BMT-4HP	1/4 NPT (Branch)	Brass	3000 (20,700)
312-2918	BST-4HP	1/4 NPT (Street)	Brass	3000 (20,700)



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ENTERPRISES



PIPE THREAD REDUCER COUPLINGS, FEMALE TO FEMALE

BRASS, PRESSURES TO 3000 PSIG (20,700 KPA)

Order No.	MFG No.	Description"	Length"	Hex"
312-2830	BF-4-2HP	1/4 NPT x 1/8 NPT	1.093	3/4
312-2834	BF-6-4HP	3/8 NPT x 1/4 NPT	1.281	7/8
312-2838	BF-8-4HP	1/2 NPT x 1/4 NPT	1.671	1-1/8
TTT858	BF-12-8HP	3/4 NPT x 1/2 NPT	1.700	1-3/8



PIPE THREAD ADAPTORS, FEMALE TO MALE

TO 3000 PSIG (20,700 KPA):

Order No.	MFG No.	Description	Material	Length"	Hex"
312-2758	BA-4-2HP	1/4 NPT x 1/8 NPT	Brass	1.062	3/4
312-2754	BA-4HP	1/4 NPT x 1/4 NPT	Brass	1.281	3/4
312-2760	BA-6-4HP	3/8 NPT x 1/4 NPT	Brass	1.312	7/8
312-2762	BA-8-4HP	1/2 NPT x 1/4 NPT	Brass	1.500	1-1/8
312-2764	BA-8-6HP	1/2 NPT x 3/8 NPT	Brass	1.562	1-1/8



PIPE THREAD HEX NIPPLES, MALE TO MALE

TO 3000 PSIG (20,700 KPA):

Order No.	MFG No.	Description	Material	Length"	Hex"
312-2646	B-2HP	1/8 NPT x 1/8 NPT	Brass	0.937	7/16
312-2648	B-4HP	1/4 NPT x 1/4 NPT	Brass	1.437	5/8
312-2656	B-6HP	3/8 NPT x 3/8 NPT	Brass	1.500	11/16
312-2662	B-8HP	1/2 NPT x 1/2 NPT	Brass	1.875	7/8
312-2668	B-9HP	3/4 NPT x 3/4 NPT	Brass	1.937	1-1/8

TO 6000 PSIG (41,300 KPA)

312-2650	B-4SS	1/4 NPT x 1/4 NPT	St. Steel	1.437	5/8
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PIPE THREAD COUPLINGS, FEMALE TO FEMALE

TO 3000 PSIG (20,700 KPA):

Order No.	MFG No.	Description	Material	Length"	Hex"
312-2824	BF-2HP	1/8 NPT x 1/8 NPT	Brass	0.800	9/16
312-2826	BF-4HP	1/4 NPT x 1/4 NPT	Brass	1.187	3/4
312-2832	BF-6HP	3/8 NPT x 3/8 NPT	Brass	1.180	7/8
312-2836	BF-8HP	1/2 NPT x 1/2 NPT	Brass	1.500	1-3/8
312-2820	BF-12HP	3/4 NPT x 3/4 NPT	Brass	1.520	1-3/8

TO 6000 PSIG (41,300 KPA):

312-2828	BF-4SS	1/4 NPT x 1/4 NPT	St. Steel	1.187	3/4
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ORDERING INFORMATION - FILTERS FOR REGULATOR INLET NUTS & NIPPLES

MOST BRASS AND STAINLESS STEEL NIPPLES MAY BE ORDERED IN ANY OF THE FOLLOWING 3 CONFIGURATIONS:

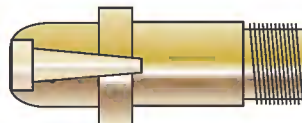
1 BRASS AND STAINLESS STEEL NIPPLES WITHOUT A FILTER.

Simply order the part numbers as listed in the tables on pages 38 through 42 of this catalogue.

2 BRASS NIPPLES REQUIRING A FILTER RECESS. (NO FILTER INSTALLED)

Add a "-S" to the part numbers listed in the tables on pages 38 through 42 of this catalogue. Brass nipples may be ordered with a filter recess. Filters are placed at the front or rear of the nipple, depending on the nipple design.

Example:



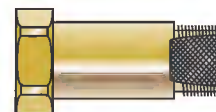
63 - S
- Brass Nipple with recess



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ENTERPRISES

3 BRASS AND STAINLESS STEEL NIPPLES WITH INSTALLED FILTER.

Add a "-SF" to the part numbers listed in the tables of pages 38 through 42 of this catalogue.

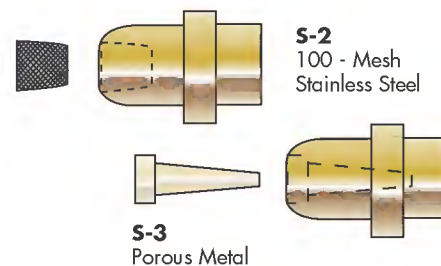


CO - 3SF
- 100 Mesh stainless steel filter

FILTERS FOR REGULATOR INLET NIPPLES

Order No.	MFG No.	Description
312-4590	S-2	100 Mesh Stainless Steel: 140 Microns
312-4592	S-3	Porous Metal: Nickel Plated Bronze, 45 Microns

May be used with all stainless steel and brass nipples, except for CGA-320 nipples



REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES TO 500 PSIG (3400 KPA)

CGA - 200 FOR "MC" TANK ACETYLENE:

Order No.	MFG No.	Part	Description	Service
312-1788	305-2	Nut	Brass, "MC" T, .628"-20 NGO, RH Female	CGA-200
312-1790	305-3	Nipple	Brass, 7/16"-20, 1 1/4" Long	CGA-200
312-1792	305-3A	Nipple	Brass, 1/8" NPT, 1 1/4" Long	CGA-200

REGULATOR NUTS & NIPPLES, BRASS

PRESSURES TO 3000 PSIG (20,700 KPA)

Order No.	MFG No.	Part	Description	Service
312-1752	284	Nut	Brass, 0.750"-14 NGO, RH Female	CGA-280
312-1748	283	Nipple	Brass, 1/4" NPT, 2" Long	CGA-280

CGA - 296 FOR INDUSTRIAL MIXTURES OF OXYGEN:

312-1304	29-2	Nut	Brass, .803"-14 UNS-2A, RH Male	CGA-296
312-1306	29-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-296
TTT862	6296	Nut	Brass, Hand-Tight, RH Male	CGA-296
TTT863	6296-3	Nipple	Hand-Tight, 1/4" NPT, 3" Long	CGA-296
312-2356	6296-0	O-Ring	Replacement	CGA-296

HAND-TIGHT NUTS & NIPPLES

Order No.	MFG No.	Description	Service
312-2022	616-2P	Plastic Grip Hand-Tight Nut	CGA-300
312-2024	616-3	Brass Hand-Tight Nipple	CGA-300
312-2090	692	Brass Grip Hand-Tight Nut	CGA-580
312-2092	692P	Plastic Grip Hand-Tight Nut	CGA-580
312-2006	615-3	Brass Hand-Tight Nipple	CGA-500, 510, 580, 590



REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES TO 3000 PSIG (20,700 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 320 FOR CARBON DIOXIDE:				
312-3106	CO-2	Nut	Brass, .830"-14 NGO RH Female	CGA-320
312-3110	CO-3	Nipple	Brass, 1/4" NPT, 2" Long	CGA-320
312-3122	CO-4	Nipple	Brass, 1/4" NPT, 2 1/2" Long	CGA-320
312-3124	CO-4CV	Nipple	Brass, 1/4" NPT, 2 1/2" Long w/Check	CGA-320
312-3142	CO-7	Nipple	Brass, 1/2"-27, 2 1/2" Long	CGA-320
312-3149	CO-8	Nipple	Brass, 1/4" NPT, LH, 2" Long	CGA-320
TTT864	CO-3M2	Nipple	Recessed for 5/16" OD Tube	CGA-320
312-1052	6-CO-2	Nut	Brass, Hand-Tight, RH Female	CGA-320
312-1054	6-CO-2P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-320
312-1056	6-CO-4	Nipple	Hand-Tight, 1/4" NPT, 2 1/2" Long	CGA-320
TTT865	6-CO-4M1	Nipple	Hand-Tight, Recessed for 1/4" Tube	CGA-320
312-4756	SS-CO-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-320
312-4758	SS-CO-3	Nipple	St. Steel, 1/4" NPT, 2" Long	CGA-320
312-3104	CO-1TW	Washer	Teflon, Snap-In	CGA-320
312-3132	CO-5	Washer	Fiber, Flat	CGA-320
312-3136	CO-6	Washer	Teflon, Flat	CGA-320
312-3138	CO-6N	Washer	Nylon, Snap-In	CGA-320

CGA - 326 FOR NITROUS OXIDE:

312-1094	13-2	Nut	Brass, .830"-14 NGO, RH Female	CGA-326
312-1096	13-3	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-326
312-1098	13-3CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/Check V	CGA-326
312-1982	613-2	Nut	Brass, Hand-Tight, RH Female	CGA-326
312-1984	613-2P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-326
312-1986	613-5	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-326
312-1988	613-KPT	Tip	Soft Tip, Replacement	CGA-326
312-4606	SS-13-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-326
312-4608	SS-13-3	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-326

CGA - 330 FOR NON-CORROSIVE GASES (BRASS) OR CORROSIVE GASES (STAINLESS STEEL):

312-1844	334	Nut	Brass, .830"-14 NGO, LH Female	CGA-330
TTT866	333	Nipple	Brass, 1/4" NPT, 2" Long	CGA-330
312-1840	333-A	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-330
312-4706	SS-334	Nut	St. Steel, .830"-14 NGO, LH Female	CGA-330
312-4704	SS-333	Nipple	St. Steel, 1/4" NPT, 2" Long	CGA-330
312-1846	335	Washer	Teflon	CGA-330
312-3138	CO-6N	Washer	Nylon, Snap-In	CGA-330

CGA - 346 FOR AIR:

312-1120	14-2	Nut	Brass, .830"-14 NGO, RH Female	CGA-346
312-1122	14-3	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-346
312-1124	14-3CV	Nipple	Brass, 1/4" NPT, 2 -/2" Long w/Check	CGA-346
312-1990	614-2	Nut	Brass, Hand-Tight, RH Female	CGA-346
312-1992	614-2P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-346
312-1994	614-5	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-346
312-1996	614-KPT	Tip	Soft Tip Replacement	CGA-346
312-4612	SS-14-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-346
312-4614	SS-14-3	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-346

REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES 3001 PSIG TO 5500 PSIG (37,950 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 347 FOR AIR/HIGH PRESSURE:				
312-1845	347-2	Nut	Brass, .830"-14 NGO, RH Female	CGA-347
312-1847	347-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-347
312-6275	6347-2	Nut	Hand-Tight, RH Female	CGA-347
312-2359	6347-3	Nipple	Hand-Tight, 1/4" NPT, 3" Long	CGA-347
TTT867	6347-3-3	O-Ring	Replacement	CGA-347
312-4710	SS-347-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-347
312-4712	SS-347-3	Nipple	St. Steel, 1/4" NPT, 3" Long	CGA-347
312-4746	SS-6347-2	Nut	Hand-Tight, St. Steel, RH Female	CGA-347
312-4748	SS-6347-3	Nipple	Hand-Tight, St. Steel, 1/4" NPT, 3" Long	CGA-347



WESTERN
ENTERPRISES

CO-2



CO-3

13-2



13-3

14-2



14-3

347-2



347-3



REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES TO 3000 PSIG (20,700 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 350 FOR HYDROGEN/NATURAL GAS:				
312-1502	82	Nut	Brass, .830"-14 NGO, LH Female	CGA-350
312-1504	83	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-350
312-1506	83-CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/Check V	CGA-350
312-1508	83-M1	Nipple	Recessed for 1/4" OD Tube	CGA-350
TTT868	83-M2	Nipple	Recessed for 5/16" OD Tube	CGA-350
312-1530	87	Nipple	Brass, 1/4" NPT, 3" Long	CGA-350
312-2078	682	Nut	Brass, Hand-Tight, LH Female	CGA-350
312-2080	682P	Nut	Plastic Grip, Hand-Tight, LH Female	CGA-350
312-2082	683	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-350
312-2088	683-PT	Tip	Soft Tip Replacement	CGA-350
312-4670	SS-82	Nut	Stainless Steel, .830"-14 NGO, LH Female	CGA-350
312-4672	SS-83	Nipple	Stainless Steel, 1/4" NPT, 2-1/2" Long	CGA-350
312-4674	SS-83M1	Nipple	Recessed for 1/4" OD Tube	CGA-350

CGA - 410 FOR CANADIAN LIQUID AIR ACETYLENE

312-8620	410-2	Nut	Brass .855" 14NGO LH Internal	CGA-410
312-8621	410-3	Nipple	Brass 1/4" NPT, 2 1/2" Long	CGA-410

CGA - 500 FOR MEDICAL MIXTURES:

312-1882	500-2	Nut	Brass, .880"-14 NGO, RH Male	CGA-500
312-1200	15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-500
312-1202	15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/CV	CGA-500
312-1168	15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-500
312-1176	15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-500
312-1158	15-11	Nipple	Brass, 1/4" NPT, 4-1/2" Long	CGA-500
312-1220	15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-500
312-1204	15-8M1	Nipple	Recessed for 1/4" OD Tube	CGA-500
312-1208	15-8M2	Nipple	Recessed for 5/16" OD Tube	CGA-500
312-1212	15-8M3	Nipple	Recessed for 3/8" OD Tube	CGA-500

REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES TO 500 PSIG (3400 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 510 FOR POL ACETYLENE:				
312-1164	15-2	Nut	Brass, .880"-14 NGO, LH Male	CGA-510
312-1168	15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-510
312-1176	15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-510
312-1182	15-5	Nipple	Brass, 1/2"-27, 4" Long	CGA-510
312-1200	15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-510
312-1202	15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/Check	CGA-510
312-1220	15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-510
312-1158	15-11	Nipple	Brass, 1/4" NPT, 4-1/4" Long	CGA-510
312-1204	15-8M1	Nipple	Recessed for 1/4" OD Tube	CGA-510
312-1208	15-8M2	Nipple	Recessed for 5/16" OD Tube	CGA-510
312-1212	15-8M3	Nipple	Recessed for 3/8" OD Tube	CGA-510
312-2002	615-2	Nut	Brass, Hand-Tight, LH Male	CGA-510
312-2004	615-2P	Nut	Plastic Grip, Hand-Tight, LH Male	CGA-510
312-2006	615-3	Nipple	Hand-Tight, 1/4" NPT, 3-1/2" Long, w/O-Ring	CGA-510
312-2008	615-3T	Nipple	Hand-Tight, 1/4" NPT, 3" Long, w/Soft Tip	CGA-510
TTT869	615-8M1T	Nipple	Hand-Tight, Recessed for 1/4" Tube w/Soft Tip	CGA-510
312-2000	615-0	O-Ring	Replacement O-Ring	CGA-510
312-2018	615-PT	Tip	Soft Tip Replacement	CGA-510
312-4618	SS-15-2	Nut	Stainless Steel, .880"-14 NGO, LH Male	CGA-510
312-4620	SS-15-3	Nipple	Stainless Steel, 1/4" NPT, 3" Long	CGA-510
312-4621	SS-15-3CV	Nipple	Stainless Steel, 1/4" NPT, 3" Long w/CV	CGA-510
312-4624	SS-15-8M1	Nipple	Recessed for 1/4" OD Tube	CGA-510

CGA - 520 FOR "B" TANK - ACETYLENE:

312-1762	300-2	Nut	Brass, .899"-18 NGO, RH Female	CGA-520
312-1764	300-3	Nipple	Brass, 1/4" NPT, 1-3/4" Long	CGA-520



WESTERN
ENTERPRISES

82



83



500-2



15-8

15-2



15-3



300-2



300-3



REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES TO 3000 PSIG (20,700 KPA)

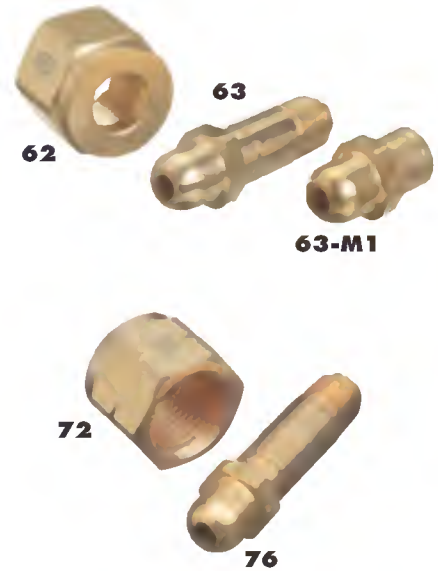
Order No.	MFG No.	Part	Description	Service
CGA - 540 FOR OXYGEN:				
312-1412	62	Nut	Brass, .908"-14 NGO, RH Female	CGA-540
312-1416	63-CV	Nipple	Brass, 1/4" NPT, 2" Long w/CV	CGA-540
312-1414	63	Nipple	Brass, 1/4" NPT, 2-1/6" Long	CGA-540
312-1444	66	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-540
312-1462	69	Nipple	Brass, 1/4" NPT, 3" Long	CGA-540
312-1450	67	Nipple	Brass, 1/2"-27, 2-1/2" Long	CGA-540
312-1418	63-M1	Nipple	Recessed for 1/4" OD Tube	CGA-540
312-1422	63-M2	Nipple	Recessed for 5/16" OD Tube	CGA-540
312-2046	662	Nut	Brass, Hand-Tight, RH Female	CGA-540
312-2048	662P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-540
312-2050	663	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-540
312-2054	663-KPT	Tip	Soft Tip Replacement	CGA-540
312-4656	SS-62	Nut	Stainless Steel, .908"-14 NGO, RH Female	CGA-540
312-4658	SS-63	Nipple	Stainless Steel, 1/4" NPT, 2-1/2" Long	CGA-540

CGA - 555 FOR BUTANE, PROPANE (LIQUID WITHDRAWAL):

312-1468	72	Nut	Brass, .908"-14 NGO, LH Female	CGA-555
TTT870	73-CV	Nipple	Brass, 1/4" NPT, 2" Long w/Check V	CGA-555
312-1470	73	Nipple	Brass, 1/4" NPT, 2-1/16" Long	CGA-555
312-1490	76	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-555
312-2064	672	Nut	Brass, Hand-Tight, LH Female	CGA-555
312-2066	672-P	Nut	Plastic Grip, Hand-Tight, LH Female	CGA-555
312-2068	673	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-555
312-2070	673-KPT	Tip	Soft Tip Replacement	CGA-555

CGA - 577 FOR OXYGEN:

312-1972	577-2	Nut	Brass, .965"-14 NGO, RH Female	CGA-577
TTT871	577-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-577



REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES TO 3000 PSIG (20,700 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 580 FOR ARGON, HELIUM & NITROGEN				
312-1536	92	Nut	Brass, .960"-14 NGO, RH Male	CGA-580
312-1168	15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-580
312-1176	15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-580
312-1200	15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-580
312-1202	15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/CV	CGA-580
312-1158	15-11	Nipple	Brass, 1/4" NPT, 4-1/2" Long	CGA-580
312-1220	15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-580
312-1182	15-5	Nipple	Brass, 1/2"-27, 4" Long	CGA-580
312-1204	15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-580
312-1208	15-8M2	Nipple	Recessed For 5/16" OD Tube	CGA-580
312-1212	15-8M3	Nipple	Recessed For 3/8" OD Tube	CGA-580
312-2090	692	Nut	Brass, Hand-Tight, RH Male	CGA-580
312-2092	692P	Nut	Plastic Grip, Hand-Tight, RH Male	CGA-580
TTT869	615-8M1T	Nipple	Hand-Tight, Recessed for 1/4" Tube w/Soft Tip	CGA-580
312-2000	615-0	O-Ring	Replacement O-Ring	CGA-580
312-2018	615-PT	Tip	Soft Tip Replacement	CGA-580
312-4678	SS-92	Nut	Stainless Steel, .960"-14 NGO, RH Male	CGA-580
312-4620	SS-15-3	Nipple	Stainless Steel, 1/4" NPT, 3" Long	CGA-580
312-4621	SS-15-3CV	Nipple	Stainless Steel, 1/4" NPT, 3" Long w/CV	CGA-580
312-4624	SS-15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-580





BRASS FITTINGS

REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL

PRESSURES TO 3000 PSIG (20,700 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 590 FOR INDUSTRIAL AIR:				
312-1538	93	Nut	Brass, .960"-14 NGO, LH Male	CGA-590
312-1168	15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-590
312-1176	15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-590
312-1200	15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-590
312-1202	15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/CV	CGA-590
312-1220	15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-590
312-1182	15-5	Nipple	Brass, 1/2"-27, 4" Long	CGA-590
312-1158	15-11	Nipple	Brass, 1/4" NPT, 4-1/2" Long	CGA-590
312-1204	15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-590
312-1208	15-8M2	Nipple	Recessed For 5/16" OD Tube	CGA-590
312-1212	15-8M3	Nipple	Recessed For 3/8" OD Tube	CGA-590
312-2094	693	Nut	Brass, Hand-Tight, LH Male	CGA-590
312-2093	693P	Nut	Plastic Grip, Hand-Tight, LH Male	CGA-590
312-2006	615-3	Nipple	Hand-Tight, 1/4" NPT, 3-1/2" Long, w/O-Ring	CGA-590
312-2008	615-3T	Nipple	Hand-Tight, 1/4" NPT, 3" Long, w/Soft Tip	CGA-590
312-2000	615-0	O-Ring	Replacement O-Ring	CGA-590
312-2018	615-PT	Tip	Soft Tip Replacement	CGA-590
312-4680	SS-93	Nut	Stainless Steel, .960"-14 NGO, LH Male	CGA-590
312-4620	SS-15-3	Nipple	Stainless Steel, 1/4" NPT, 3" Long	CGA-590
312-4621	SS-15-3CV	Nipple	Stainless Steel, 1/4" NPT, 3" Long w/CV	CGA-590
312-4624	SS-15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-590

CGA - 660 FOR REFRIGERANT GASES:

312-1980	604	Nut	Brass, 1.035"-14 NGO, RH Female	CGA-660
312-1976	603	Nipple	Brass, 1/4" NPT, 1-3/4" Long	CGA-660
312-1978	603-A	Nipple	Brass, 1/4" NPT, 2-1/4" Long	CGA-660
312-4718	SS-603A	Nipple	Stainless Steel, 1/4" NPT, 2-1/4" Long	CGA-660
312-4722	SS-604	Nut	Stainless Steel, 1.035"-14 NGO, RH Female	CGA-660
312-2060	665	Washer	Teflon	CGA-660



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REGULATOR NUTS & NIPPLES, STAINLESS STEEL

PRESSURES TO 500 PSIG (3400 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 670 FOR MIXTURES:				
312-4738	SS-704	Nut	Stainless Steel, 1.035"-14 NGO, LH Female	CGA-670
312-4732	SS-703A	Nipple	Stainless Steel, 1/4" NPT, 2-1/2" Long	CGA-670

REGULATOR NUTS & NIPPLES, STAINLESS STEEL

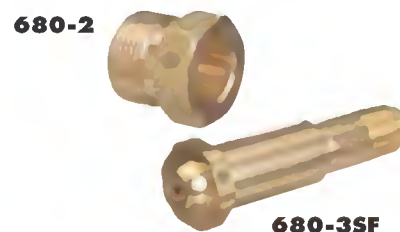
PRESSURES TO 7500 PSIG (41,300 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 677 FOR INERT GASES:				
312-4646	SS-60-2	Nut	Stainless Steel, 1.035"-14 NGO, LH Female	CGA-677
312-4648	SS-60-3	Nipple	Stainless Steel, 1/4" NPT, 2-1/2" Long	CGA-677
312-4652	SS-60-4	Nipple	Stainless Steel, 3/8" NPT, 3" Long	CGA-677
TTT872	SS-60M1	Nipple	Recessed For 1/4" OD Tube	CGA-677

REGULATOR NUTS & NIPPLES, BRASS

PRESSURES FROM 3000 PSIG (20,700 KPA) TO 5500 PSIG (37,950 KPA)

Order No.	MFG No.	Part	Description	Service
CGA - 680 FOR INERT GASES:				
312-2072	680-2	Nut	Brass, 1.040"-14 NGO RH Male	CGA-680
312-2074	680-3SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-680
312-2076	680-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3-1/2" Long	CGA-680
312-2366	6680	Nut	Hand-Tight (Use With 680-4SF Nipple)	CGA-680
CGA - 695 FOR FLAMMABLE GASES:				
TTT873	695-2	Nut	Brass, 1.040"-14 NGO LH Male	CGA-695
312-2074	680-3SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-695
312-2076	680-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3-1/2" Long	CGA-695



REVERSE FLOW CHECK VALVES

For torch and regulator applications, Western Check Valves guard against danger caused by plugged tips, over-pressurizing or incorrect startup procedures. Proper Check Valve installation helps prevent accidents caused by gases mixing in hoses, regulators or cylinders.

Note: Check valves do not stop flashbacks. See Flashback Arrestors page for more information.



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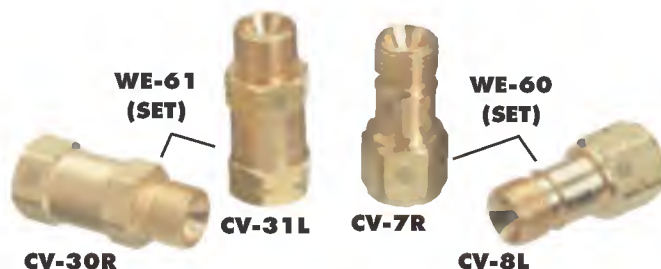
WESTERN'S REVERSE FLOW CHECK VALVES MEET OR EXCEED CGA AND OSHA REQUIREMENTS (PAMPHLET CGA-E2) AND FEATURE:

- Flows for cutting up to 12" of steel • Machined high quality brass with stainless steel operating spring and valve disc
- Low open/close pressures: 3 oz. open valve and 10 oz. reverse pressure to positively close valve • 100% tested
- Made in U.S.A • Pressure ratings: (unless otherwise listed) Oxygen – To 125 PSIG (860 kPa) / Fuel Gas – To 50 PSIG (345 kPa)
- Check Valve Seat Material: A-Size Models – Viton™ / B-Size Models – Buna-N™

CHECK VALVES

TORCH MODEL, A-SIZE (3/8"-24)

A one-piece, compact unit designed for A-Size applications. Mounts to torch to prevent reverse flow at point of origin.



Order No.	MFG No.	Description	Service
TORCH MODEL, A-SIZE (3/8"-24)			
312-3230	CV-A9	Oxygen RH, A-Size Male to A-Size Female Nut, to 125 PSIG (800 kPa)	CGA-020
312-3232	CV-A10	Fuel Gas LH, A-Size Male to A-Size Female Nut, to 50 PSIG (345 kPa)	CGA-021
312-4912	WE-63	Torch Style - Set CV-A9 & CV-A10	-

TORCH MODEL, B-SIZE (9/16"-18)

Mounts easily on torch, is readily seen and can be removed for periodic testing. Flows cut up to 12" steel plate or handle heating tips (1200 SCFH at 50 PSIG). Stops reverse flow at point of origin.

Order No.	MFG No.	Description	Service
TORCH MODEL B-SIZE (9/16"-18)			
312-3204	CV-7R**	Oxygen RH, B-Size Male to B-Size Female Nut, to 125 PSIG (800kPa)	CGA-022
312-3208	CV-8L**	Fuel Gas LH, B-Size Male to B-Size Female Nut, to 50 PSIG (345 kPa)	CGA-023
312-4906	WE-60**	Torch Style Set CV-7R & CV-8L	-

REGULATOR BUSHING ADAPTOR MODEL, B-SIZE (9/16"-18)

Easily mounts on outlet bushing of any regulator having a B-Size outlet. This model has the same flow capacity as the torch - type (1200 SCFH at 50 PSIG) when installed on a regulator. The Check Valve is to easy to see and is less subject to contamination, abuse and damage.

Order No.	MFG No.	Description	Service
REGULATOR BUSHING ADAPTOR MODEL B-SIZE (9/16"-18)			
312-3216	CV-30R**	Oxygen RH, B-Size Female Nut to B-Size Male, to 125 PSIG (800kPa)	CGA-022
312-3218	CV-31L**	Fuel Gas LH, B-Size F Nut to B-Size Male, to 50 PSIG (345 kPa)	CGA-023
312-4908	WE-61	Regulator Adaptor - Set CV-30R & CV-31L	-

** UL Listed

SEE PAGE 121 FOR



WELDING SCREENS





QUICK-CONNECTS FOR WELDING EQUIPMENT

Western's Quick-Connects provide fast, reliable and positive connections and quick disconnections for torches, hoses and regulators. All models are color-coded for gas service for added safety (oxygen/green, fuel gas/red, inert gas/blue). Oxy/fuel gas models include integral reverse flow Check Valves. Quick-Connects fit all B-size welding and cutting equipment.



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FEATURES & SPECIFICATIONS:

- Brass construction provides long service life—cycle tested over 10,000 operations indicating a service life of 10 to 12 years of comparable use
- Non-interchangeable Oxygen and Fuel Gas connectors prevent accidental gas mixing
- Instant closure on reverse flow Check Valves with total shutoff at only 10 oz. of back pressure
- Exceed CGA flow specifications—1100 SCFH flow at 125 PSIG inlet pressure and 800 SCFH flow at 125 PSIG inlet pressure when 2 additional check valves are used in conjunction with the Quick Connects
- Spring loaded locking mechanism responds to fingertip action and achieves a gas-tight connection
- For inert gas models, demand valve on supply side creates a positive seal when fitting is not connected
- Double seal socket connection on second seal provides added safety protection
- Installation and operating instructions included • 200 psig maximum operating pressure

QUICK-CONNECTS SETS

Order No.	MFG No.	Description	Components
312-4276	QDB10	Torch-to-Hose Set w/Check Valves	QDB11—Fuel Gas/QDB12—Oxygen/Inert
312-4280	QDB20	Hose-to-Hose Set w/Check Valves	QDB21—Fuel Gas/QDB22—Oxygen/Inert
312-4284	QDB30	Regulator-to-Hose w/Check Valves	QDB31—Fuel Gas/QDB32—Oxygen

QUICK-CONNECTS INDIVIDUAL UNITS

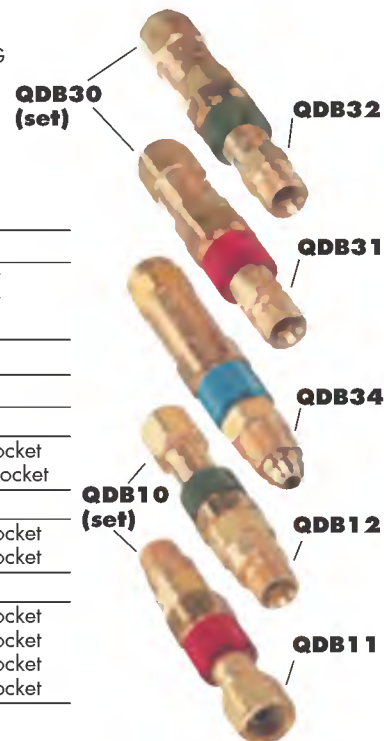
Order No.	MFG No.	Description	Components
TORCH-TO-HOSE			
312-4277	QDB11	Fuel Gas w/Check Valve	QDB200—Male Plug/QDB201—Female Socket
312-4278	QDB12	Oxygen/Inert Gas w/Check Valve	QDB100—Male Plug/QDB101—Female Socket

HOSE-TO-HOSE

312-4281	QDB21	Fuel Gas w/Check Valve	QDB205—Male Plug/QDB201—Female Socket
312-4282	QDB22	Oxygen/Inert Gas w/Check Valve	QDB105—Male Plug/QDB101—Female Socket

REGULATOR-TO-HOSE

312-4285	QDB31	Fuel Gas w/Check Valve	QDB205—Male Plug/QDB206—Female Socket
312-4286	QDB32	Oxygen w/Check Valve	QDB105—Male Plug/QDB106—Female Socket
312-4287	QDB33	Inert Gas—Regulator-to-Hose	QDB300—Male Plug/QDB301—Female Socket
312-4290	QDB34	Inert Gas—Hose-to-Machine	QDB302—Male Plug/QDB303—Female Socket



FLASHBACK ARRESTORS -OXY/FUEL GAS

Welders rely on Western's advanced Flashback Arrestors to help prevent serious incidents caused by reverse gas flows or flashbacks. Western's Flashback Arrestors are designed to stop flashbacks by preventing ignition of mixed gases and to protect equipment such as hoses, regulators and cylinders

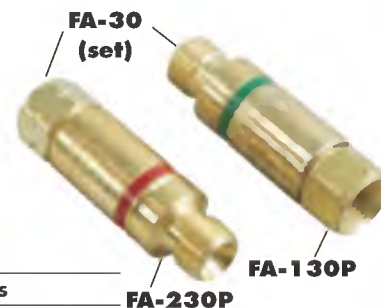
FEATURES & SPECIFICATIONS:

- Color-coded for gas service to provide added safety—oxygen (green), fuel gas (red)
- Internal check valves designed to prevent reverse flow and accidental mixing of oxygen and fuel gases
- Maximum operating pressures are 15 PSIG for acetylene, 22 PSIG for other fuel gases, and PSIG for oxygen
- Rated capacity of 40 SCFH with a 5 PSIG pressure drop
- Torch and Regulator models provide downstream and upstream protection
- 10" maximum cutting capacity
- Reusable; manual resetting not required
- UL listed and 100% tested
- Complete installation, testing and operating instructions included
- Safe-Mate models feature quick connect design for quick and easy installation and disconnection

Order No.	MFG No.	Description	Components
312-3376	FA-10	Flashback Arrestor Set, Torch Style	FA-100P, FA200P
312-3377	FA-30	Flashback Arrestor Set, Regulator Adaptor Style	FA-130P, FA-230P

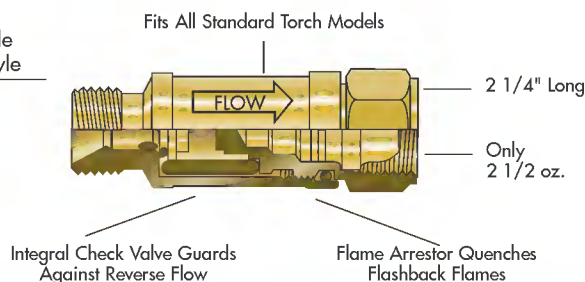
FLASHBACK ARRESTOR COMPONENTS

312-3378	FA-100P	Flashback Arrestor, Oxygen, Torch Style
312-3380	FA-200P	Flashback Arrestor, Fuel Gas, Torch Style
312-3379	FA-130P	Flashback Arrestor, Oxygen, Regulator Adaptor Style
312-3381	FA-230P	Flashback Arrestor, Fuel Gas, Regulator Adaptor Style



SAFE-MATE QUICK-CONNECTS SETS WITH BUILT-IN FLASHBACK ARRESTORS

Order No.	MFG No.	Description
312-4299	QDF10	Torch-to-Hose Set w/Check Valves (Oxy/Fuel Gas)
312-4302	QDF30	Regulator-to-Hose (Oxy/Fuel Gas)



CYLINDER ADAPTORS

Adaptors connect a regulator to a cylinder or other equipment when different CGA threads on the mating ports make a direct connection impossible. Adaptors must be selected with care to ensure that regulators and other equipment are used only with compatible gases and pressure ratings.

A mixture of non-compatible gases in any system is a possible hazard. Regulators and all other parts of an adopted system must be thoroughly purged of all contaminants, especially organic material and residual gases. Replace worn or damaged fittings immediately to ensure safe and dependable operation.

Adaptors should not be used as permanent installations. For long-term use, the appropriate CGA regulator should be used on all cylinders and gas systems.



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CYLINDER ADAPTORS TABLE

CYLINDER CGA TO REGULATOR CGA PLUS COMPONENT PARTS

Cylinder Adaptor	Cylinder Nut	Regulator Nipple	Adaptor	From Cylinder Service	To Regulator Service
322	305-2	305-3	15-1	CGA-200 "MC" Acetylene	CGA-300 Commercial Acetylene
321	305-2	305-3	16-1	CGA-200 "MC" Acetylene	CGA-510 POL Acetylene 90°
324	305-2	305-3	16-1	CGA-200 "MC" Acetylene	CGA-510 POL Acetylene
305	305-2	305-3	305-1	CGA-200 "MC" Acetylene	CGA-520 "B" Tonk 90°
314	305-2	305-3	314-1	CGA-200 "MC" Acetylene	CGA-520 "B" Tonk
831	284	283	415-1	CGA-280 Medical Mixtures	CGA-540 Oxygen
840	N/A	N/A	N/A	CGA-295 Argon (LqW)	CGA-440 Oxygen (LqW)
841	29-2	29-3	417-1	CGA-296 Ind Mix (Oxygen)	CGA-590 Industrial Air
304	16-2	16-3	302-1	CGA-300 Commercial Acetylene	CGA-200 "MC" Acetylene
16	16-2	16-3	16-1	CGA-300 Commercial Acetylene	CGA-510 POL Acetylene
61	16-2	16-3	16-1	CGA-300 Commercial Acetylene	CGA-510 POL Acetylene
1690	16-2	16-3	300-1	CGA-300 Commercial Acetylene	CGA-510 POL Acetylene 90°
316	16-2	16-3	301-1	CGA-300 Commercial Acetylene	CGA-520 "B" Tonk
806	CO-2	CO-3	416-1	CGA-320 Carbon Dioxide	CGA-580 Nitrogen
827	14-2	14-3	415-1	CGA-346 Air	CGA-540 Oxygen
828	14-2	14-3	416-1	CGA-346 Air	CGA-580 Nitrogen
843	14-2	14-3	417-1	CGA-346 Air	CGA-590 Industrial Air
808	82	83	416-1	CGA-350 Hydrogen	CGA-580 Nitrogen
872	500-2	15-8	415-1	CGA-500 Medical Mixtures	CGA-540 Oxygen
873	500-2	15-8	416-1	CGA-500 Medical Mixtures	CGA-580 Nitrogen
874	500-2	15-8	417-1	CGA-500 Medical Mixtures	CGA-590 Industrial Air
320	15-2	15-8	302-1	CGA-510 POL Acetylene	CGA-200 "MC" Acetylene
15	15-2	15-8	15-1	CGA-510 POL Acetylene	CGA-300 Commercial Acetylene
51	15-2	15-8	15-1	CGA-510 POL Acetylene	CGA-300 Coml Acet 1 Piece
818	15-2	15-8	800-1	CGA-510 POL Acetylene	CGA-350 Hydrogen
1516	15-2	15-8	1516-1	CGA-510 POL Acetylene	CGA-410 Conodion Acetylene
820	15-2	15-8	300-1	CGA-510 POL Acetylene	CGA-510 POL Acetylene 90°
315	15-2	15-8	301-1	CGA-510 POL Acetylene	CGA-520 "B" Tonk
306	300-2	-	306-1	CGA-520 "B" Tonk Acetylene	CGA-300 Commercial Acetylene
319	300-2	300-3	15-1	CGA-520 "B" Tonk Acetylene	CGA-300 Commercial Acetylene
317	300-2	300-3	16-1	CGA-520 "B" Tonk Acetylene	CGA-510 POL Acetylene
318	300-2	300-3	300-1	CGA-520 "B" Tonk Acetylene	CGA-510 POL Acetylene 90°
832	62	63	1341-1	CGA-540 Oxygen	CGA-346 Air
416	62	63	416-1	CGA-540 Oxygen	CGA-580 Nitrogen
802	72	73	16-1	CGA-555 Propone (LqW)	CGA-510 POL Acetylene
809	72	73	416-1	CGA-555 Propone (LqW)	CGA-580 Nitrogen
810	92	15-8	CO-2-1	CGA-580 Nitrogen	CGA-320 Carbon Dioxide
830	92	15-8	1341-1	CGA-580 Nitrogen	CGA-346 Air
811	92	15-8	800-1	CGA-580 Nitrogen	CGA-350 Hydrogen
415	92	15-8	415-1	CGA-580 Nitrogen	CGA-540 Oxygen
812	92	15-8	414-1	CGA-580 Nitrogen	CGA-555 Propone (LqW)
813	92	15-8	417-1	CGA-580 Nitrogen	CGA-590 Industrial Air
858	93	15-8	1341-1	CGA-590 Industrial Air	CGA-346 Air
815	93	15-8	416-1	CGA-590 Industrial Air	CGA-580 Nitrogen

CGA-200

TO CGA-300:

Order No. 312-1830

MFG No. 322

"MC" Acetylene
Cylinder To
Commercial
Acetylene
Regulator



CGA-280

TO CGA-540:

Order No. 312-2170

MFG No. 831

Medical Breathing
Mix Cylinder
To Oxygen
Regulator



CGA-346

TO CGA-580:

Order No. 312-2166

MFG No. 828

Air Cylinder
To Argon, Helium,
Nitrogen Regulator



CGA-200

TO CGA-510:

Order No. 312-1828

MFG No. 321

"MC" Acetylene
Cylinder To
POL Acetylene
Regulator





CGA-295

TO CGA-440:

Order No. 312-2178

MFG No. 840

Argon (LqW) Cylinder To Oxygen (LqW) Regulator



CGA-346

TO CGA-590:

Order No. 312-2184

MFG No. 843

Air Cylinder To Industrial Air Regulator



CGA-200

TO CGA-510:

Order No. 312-1834

MFG No. 324

"MC" Acetylene Cylinder To POL Acetylene Regulator



CGA-296

TO CGA-590:

Order No. 312-2180

MFG No. 841

Industrial Mix Of Oxygen (Over 23%) Cylinder To Industrial Air Regulator



CGA-350

TO CGA-580:

Order No. 312-2128

MFG No. 808

Hydrogen Cylinder To Nitrogen, W.P. Regulator



CGA-200

TO CGA-520:

Order No. 312-1784

MFG No. 305

Adapts "MC" Acetylene Cylinder To "B" Tank Regulator At 90°



CGA-320

TO CGA-580:

Order No. 312-2124

MFG No. 806

Carbon Dioxide Cylinder To Nitrogen, W.P. Regulator



CGA-500

TO CGA-540:

Order No. 312-2214

MFG No. 872

Med Mixtures Cylinder To Oxygen Regulator



CGA-200

TO CGA-520:

Order No. 312-1804

MFG No. 314

"MC" Acetylene Cylinder To "B" Tank Regulator



CGA-346

TO CGA-540:

Order No. 312-2164

MFG No. 827

Air Cylinder To Oxygen Regulator



CGA-500

TO CGA-580:

Order No. 312-2216

MFG No. 873

Med Mixtures Cylinder To Nitrogen, W.P. Regulator



CGA-500

TO CGA-590:

Order No. 312-2218

MFG No. 874

Medical Mixtures Cylinder To Industrial Air Regulator



CGA-510

TO CGA-410:

Order No. 312-2308

MFG No. 1516

POL Acetylene Cylinder To Canadian Acetylene Regulator



CGA-520

TO CGA-510:

Order No. 312-1816

MFG No. 317

"B" Tank Cylinder To POL Acetylene Regulator



CGA-555

TO CGA-580:

Order No. 312-2130

MFG No. 809

Propane (LqW) Cylinder To Nitrogen, W.P. Regulator



CGA-510

TO CGA-200:

Order No. 312-1826

MFG No. 320

POL Acetylene Cylinder To Commercial "MC" Acetylene Regulator





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CGA-510

TO CGA-510:

Order No. 312-2152

MFG No. 820

POL Acetylene
Cylinder To
POL Acetylene
Regulator
At 90°



CGA-520

TO CGA-510:

Order No. 312-1820

MFG No. 318

"B" Tank Cylinder
To POL Acetylene
Regulator At 90°



CGA-580

TO CGA-320:

Order No. 312-2132

MFG No. 810

Nitrogen W.P. Cylinder To
Carbon Dioxide Regulator



CGA-510

TO CGA-300:

Order No. 312-1146

MFG No. 15

POL Acetylene Cylinder
To Commercial
Acetylene Regulator



CGA-510

TO CGA-520:

Order No. 312-1810

MFG No. 315

POL Acetylene Cylinder
To "B" Tank Regulator



CGA-540

TO CGA-346:

Order No. 312-2172

MFG No. 832

Oxygen Cylinder
To Air Regulator



CGA-580

TO CGA-346:

Order No. 312-2168

MFG No. 830

Nitrogen Cylinder To
Air Regulator



CGA-510

TO CGA-300:

Order No. 312-1388

MFG No. 51

POL Acetylene Cylinder
To Commercial Acetylene
Regulator (1 Piece)



CGA-520

TO CGA-200:

Order No. 312-1794

MFG No. 306

"B" Tank Cylinder To
"MC" Acetylene Regulator



CGA-540

TO CGA-580:

Order No. 312-1864

MFG No. 416

Oxygen Cylinder To Nitrogen,
Argon, W.P. Regulator



CGA-580

TO CGA-350:

Order No. 312-2136

MFG No. 811

Nitrogen W.P. Cylinder
To Hydrogen Regulator



CGA-510

TO CGA-350:

Order No. 312-2150

MFG No. 818

POL Acetylene Cylinder
To Hydrogen Regulator



CGA-520

TO CGA-300:

Order No. 312-1822

MFG No. 319

"B" Tank Cylinder To
Commercial Acetylene Regulator



CGA-555

TO CGA-510:

Order No. 312-2116

MFG No. 802

Propane (LqW) Cylinder
To POL Acetylene Regulator



CGA-580

TO CGA-540:

Order No. 312-1860

MFG No. 415

Nitrogen W.P. Cylinder
To Oxygen Regulator



19804E



TIP CLEANERS & LIGHTERS

SPIRAL TIP CLEANERS

- Cleaning data on back of case
- Hardened steel file included in each case
- Choice of standard or extra long king set
- Quality aluminum case
- Includes 12 cleaners



Order No.	Description
NT641	Standard Set
NT640	King Set



WELD FILLET GAUGE

- Precision gauge
- Covers eleven sizes from 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8" and 1"
- Constructed of rust proof 22 gauge, type 304 steel
- Die blanked to eliminate sharp edges - adds to accuracy
- Permanently etched and black filled lettering for long life and abrasion resistance



Order No.	MFG No.
704-5015	MWFG

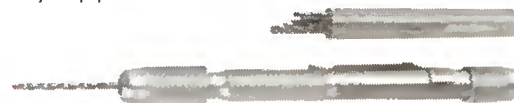


TIP DRILL KIT

- Cleans welding tips and a variety of other fuel orifices and injectors
- Includes 10 drills in sizes 52-74
- Promotes more effective fuel use and increases performance in welding, cutting and heating tips
- Drills store neatly in pipe vise handle



Order No.
NT660



'TIP-NIP' TIP REFACER

- For easy, fast precision tip resurfacing
- Insert tip and give a few turns
- Pitted tip is resurfaced for new performance
- Extends tip life



Order No.	Description
NT820	Tip Refacer



SHOOT-A-LITE SPARK LIGHTER

- Flat, pistol shaped device throws off a brilliant spark from a flint with each squeeze of the trigger
- Flint remains adjusted automatically
- Zinc chromate finish casing

Order No.	MFG No.	Description
322-1370	710	Shoot-A-Lite
322-1410	732X	Flint Renewals



322-1370



322-1410

TRI-FLINT LIGHTER

- Heavy-duty steel band with 3 flints attached
- Dependable ignition under all working conditions



322-1240

322-1320



Order No.	MFG No.	Description
322-1240	4501	Spark Lighter
322-1320	5012X	Tri-Flint Renewal

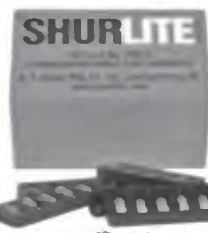
UNIVERSAL SINGLE FLINT LIGHTER

- Square hood wrapped around the frame
- Under the hood is the round file which spins, always assuring a fresh spark
- Replaceable flints

Order No.	MFG No.	Description
322-1540	3001	Spark Lighter
322-1560	3001X	Single Flint Renewal



322-1560



FLINT LIGHTERS

- Choice of single or tri-flint lighters
- Additional flints sold separately

NT663



Order No.	Description
NT642	Single Flint Lighter
NT663	Flints, 5 per Holder
TTU071	Tri Flint Lighter
TTU072	Flints - each



TTU071



TTU072



TIP CLEANER KITS

- Attractive aluminum case with contained spool assembly
- Uniform ridges wipe and polish orifice wall
- Tapered ends for smooth easy entry without scratching
- Smooth leader pilot
- Tangle-free closed loops
- Stainless steel tips, includes file



Order No.	MFG No.	Size Group	Includes
326-1330	STANDARD	6-26	13 Cleaners
326-1350	MASTER	6-45	22 Cleaners
326-1370	JUMBO	28-45	9 Cleaners
326-1390	KING	6-26	13 X-Long Cleaners





GAS ROLLER GUIDE

- The essential accessory for your gas torch
- Suits oxy/acetylene torches
- Optimum tip height at all times
- Stainless steel axles and guards, non-rusting
- Non-jamming hub design
- CNC machined quality parts
- No tools required for fitting
- Adaptor bush sold separately



Order No.	MFG No.	Description
826-1085	TJ1601	Gas Roller Guide
ADAPTOR BUSH (FOR)		
826-1205	TJ2182	Victor® Series 1
826-1210	TJ2183	Airco®
826-1215	TJ2184	Purox®
826-1220	TJ2185	Harris®
826-1225	TJ2186	Liquid Air®
826-1235	TJ2189	Victor® Series 3
826-1245	TJ2192	Smith SC®
826-1250	TJ2193	Smith MC®

TRAKKA LINE CUTTER

- Cuts accurate and precise straight lines and bevel edges with ease and control
- Suits oxy/acetylene torches
- Offers optimum tip height at all times
- Magnetic clamping system, bases slide and twist to lock to suit plate width
- Bevel edges cut easily
- 1.35 m (4.4 ft) aluminum guide rail, cuts 1.2 m (3.9 ft)
- CNC machined quality parts, brass forgings, stainless rails and axles



Order No.	MFG No.	Description
826-1480	TJ5085	Trakka Line Cutter
ADAPTOR BUSH (FOR)		
826-1205	TJ2182	Victor® Series 1
826-1210	TJ2183	Airco®
826-1215	TJ2184	Purox®
826-1220	TJ2185	Harris®
826-1225	TJ2186	Liquid Air®
826-1235	TJ2189	Victor® Series 3
826-1245	TJ2192	Smith SC®
826-1250	TJ2193	Smith MC®
ACCESSORIES		
826-1640	TJ5181	1.2 m Aluminum Guide Rail (requires rail joiner)
826-1645	TJ5260	Rail Joiner for TJ5181

CIRCLE CUTTING GUIDES

- Suits oxy/acetylene torches
- For straight line, curved line or bevel cutting applications
- Rotating head design allows full 360° one-position operation
- Cuts accurate holes from 1" (25 mm) diameter
- Constant tip height – increases cut quality and speed
- Adaptor bush (Harris® or Victor® series) sold separately
- **Universal Cutting Guide** for any cutting tip up to 18 mm O.D.
- **Standard Cutting Guide** requires adaptor bush (sold separately)



Order No.	MFG No.	Description
826-1655	TJ1080	Universal Cutting Guide
826-1025	TJ1083	Standard Cutting Guide (Bush sold separately)
ADAPTOR BUSH (FOR)		
826-1205	TJ2182	Victor® Series 1
826-1210	TJ2183	Airco®
826-1215	TJ2184	Purox®
826-1220	TJ2185	Harris®
826-1225	TJ2186	Liquid Air®
826-1235	TJ2189	Victor® Series 3
826-1245	TJ2192	Smith SC®
826-1250	TJ2193	Smith MC®
826-1560	TJ6086	Magnet (sold separately)

BRASS GAUGES

- Brass casing
- Lexan cover lens
- 1/4" NPT inlet

Order No.	Description
NT616	2" x 100 PSI
NT617	2" x 200 PSI
NT618	2" x 30 PSI – Red line
NT619	2" x 400 PSI
NT620	2" x 4000 PSI
NT622	2 1/2" x 200 PSI
NT623	2 1/2" x 30 PSI – Red line
NT624	2 1/2" x 400 PSI
NT625	2 1/2" x 4000 PSI



PRESSURE GAUGES

Order No.	MFG No.	Scale Ranges	Entry Type
1-1/2" STEEL CASE, DUAL SCALE, 1/8" NPT INLET			
331-2980	G15-030RL	0-30 PSI – Red Line	Side
331-2985	G15-100	0-100 PSI	Side
331-2990	G15-400	0-400 PSI	Side
331-2995	G15-4000	0-4000 PSI	Side
331-2445	GR15-4000	0-4000 PSI	Rear
2" STEEL CASE, DUAL SCALE, 1/4" NPT INLET			
331-2405	G20-050CF	0-30 SCFH	Side





BULK SINGLE LINE CORRUGATED WELDING HOSE, GRADE R

- Green hose is for oxygen
- Red hose is for acetylene use only, and where cover must resist abrasion, weather and ozone
- Heat resistant EPDM tube and cover
- 2 spiral polyester yarn reinforcement, more flexible than braid reinforced hose, easier to coil and handle
- Conforms to RMA/CGA specifications
- Multi-ventilating pores disperses permeating gases, enhances welder's safety
- Sold in full 700 ft. reels
- Working pressure: 200 PSI, 1.38 MPa

Thermoid®
HGD INDUSTRIES, INC.

Order No.	MFG No.	Nominal I.D."	Nominal O.D."	Min. Bend Radius"
GREEN HOSE				
302-5005	00521803205	3/16	0.44	1.25
302-5020	00521804205	1/4	0.53	1.50
302-5070	00521806400	3/8	0.72	2.25
RED HOSE				
302-5000	00521903205	3/16	0.44	1.25
302-5015	00521904205	1/4	0.53	1.50
302-5060	00521905400	5/16	0.66	2.00
302-5065	00521906400	3/8	0.72	2.25

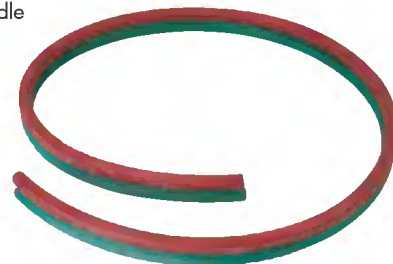


BULK "TULINE" TWIN WELDING HOSE, GRADE R

- Red hose is for acetylene use only, and where cover must resist abrasion, weather and ozone
- Heat resistant EPDM tube and cover
- 2 spiral polyester yarn reinforcement, more flexible than braid reinforced hose, easier to coil and handle
- Conforms to RMA/CGA specifications
- Multi-ventilating pores disperses permeating gases, enhances welder's safety
- Sold in full 700 ft. reels
- Working pressure: 200 PSI, 1.38 MPa

Thermoid®
HGD INDUSTRIES, INC.

Order No.	MFG No.	Nominal I.D."	Nominal O.D."	Min. Bend Radius"
302-1000	00521403200	3/16	0.44	1.25
302-1010	00521404200	1/4	0.53	1.50
302-1020	00521405200	5/16	0.59	2.00
302-1030	00521406200	3/8	0.66	2.25



BULK "TULINE" TWIN WELDING HOSE, GRADE T

- For use with all fuel gases and where a flame and oil resistant tube and cover are required
- CR (polychloroprene) tube and cover offers medium-high fuel gas resistance
- 2 spiral polyester yarn reinforcement, more flexible than braid reinforced hose, easier to coil and handle
- Conforms to RMA/CGA specifications
- Multi-ventilating pores disperses permeating gases, enhances welder's safety
- Sold in full 700 ft. reels
- Working pressure: 200 PSI, 1.38 MPa

Thermoid®
HGD INDUSTRIES, INC.

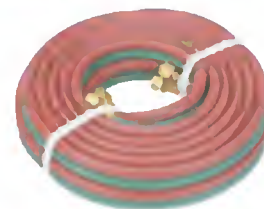
Order No.	MFG No.	Nominal I.D."	Nominal O.D."	Min. Bend Radius"
302-7010	00521504200	1/4	0.53	1.50



"TULINE" TWIN WELDING HOSE ASSEMBLIES

- Premium quality US made hose with "B" size brass fittings

Thermoid®
HGD INDUSTRIES, INC.



Order No.	MFG No.	Nominal I.D."	Length'
GRADE "R" HOSE			
PB087	00521403225	3/16	25
PB090	00521484225	1/4	25
PB091	00521484250	1/4	50
PB092	00521484290	1/4	100
PB094	00521405252	5/16	50
PB095	00521405291	5/16	100
302-1260	00521406251	3/8	50
302-1270	00521406290	3/8	100

Order No.	MFG No.	Nominal I.D."	Length'
GRADE "T" HOSE			
PB069	00521584225	1/4	25
PB070	00521584250	1/4	50
PB071	00521584290	1/4	100
PB073	00521585250	5/16	50
PB074	00521585290	5/16	100
302-7170	00521586250	3/8	50
302-7180	00521586290	3/8	100



HOSE REPAIR KIT

- Special B-size kit offers 12 different items most frequently used for hose repair
- Kit with C-5 crimp tool for 3/16" x 1/4" I.D. hose

Includes: Hose nuts & nipples, splicers, couplers, ferrules and a choice of crimping tool. Tough polyethylene case includes handy chart that identifies and describes fittings in each compartment.

Order No. NP497

MFG No. CK-24



**WESTERN
ENTERPRISES**



EMERGENCY WELDING HOSE REPAIR KIT

Plastic kit box contains:

Qty	Description
6	Oxy. R.H. Standard "B" 9/16 - 18 UNF - 2B Thread
6	Acet. L.H. Standard "B" 9/16- 18 UNF-2B Thread
2	Oxy R.H. - std a/c "A" 3/8-24 UNF-2B Thread
2	Acet L.H. - Std A/C "A" 3/8-24 UNF - 2B Thread
6	Barbed Hose Nipples "B" for 1/4" I.D. Hose
2	Barbed Hose Nipples "A" for 3/16" I.D. Hose
4	Barb Hex Center Stop for 1/4 I.D. Hose
2	Barb Hex Center Stop for 3/16 I.D. Hose
30	2-Ear Clamp 9/16"
20	2-Ear Clamp 1/2"
1	Pincers
1	Kit Box



OETIKER

Connecting Technology

Order No. NP512 MFG No. WK-82

CRIMPING PINCERS

- Portable and lightweight, used for pinching and removing ear clamps
- Choice of straight jaw or side jaw pincers
- Dual purpose, side jaw model allows clamps to be applied or removed in confined areas with pincers held parallel to the hose

OETIKER

Connecting Technology

Order No.	MFG No.	Style
320-4010	1098	Straight jaw
320-4020	1099	Side jaw

2-EAR CLAMPS

- Especially suited for industrial use and heavily vibrating equipment
- One-piece design offers a positive, tamperproof seal without damaging the hose
- Zinc plated carbon steel clamps:
SAE 1008/1010 or DIN 1.0338



Order No.	MFG No.	Nominal Size"	Clamping Range Closed"	Range Open"
320-2020	0305	3/16	0.118	0.197
320-2040	0507	1/4	0.197	0.276
320-2060	0709	5/16	0.276	0.354
320-2070	0811	3/8	0.315	0.433
320-2090	1113	1/2	0.433	0.512
320-2110	1315	9/16	0.512	0.591
320-2130	1517	19/32	0.544	0.669
320-2140	1518	5/8	0.591	0.708
320-2150	1720	3/4	0.669	0.787
320-2170	1922	13/16	0.748	0.866
320-2180	2023	7/8	0.787	0.905
320-2210	2327	1	0.905	1.063

GAS SAVER

- Double shutoff valves with pilot flame are designed for quick shut-off and easy restart of the working flame
- Working flame is automatically extinguished and gas flow discontinued by placing the torch handle on the convenient hook
- To reignite the working flame, lift the torch handle from the hook and place the tip close to the pilot flame
- Dual shutoff valve assembly is convenient, safe and fuel efficient
- Maximum pressure: Oxygen 150 PSI, fuel gas 22 PSI



GENTEC
GENSTAR TECHNOLOGIES

Order No.	MFG No.	Type
230-1030	100QF-Y	For acetylene
TTT478	100QF-F	For fuel gas



GAS CYLINDER CARTS

GAS CYLINDER CARTS

• Choice of carts for a wide range of cylinder sizes and terrains.



Order No.	MD211
Mfg. No.	202-14 / CC-5
Weight	55 lbs
Base Dimensions	25" x 13"
Wheels	14" Dia. x 3" rubber
Capacity	244 cu.ft. oxygen, 300 cu.ft. acetylene cylinders



Order No.	TTT449
Mfg. No.	202-16P / CC5-16PN
Weight	55 lbs
Base Dimensions	25" x 13"
Wheels	16" Dia. pneumatic
Capacity	244 cu.ft. oxygen, 300 cu.ft. acetylene cylinders



Order No.	MD210
Mfg. No.	202-24S
Weight	60 lbs
Base Dimensions	25" x 13"
Wheels	24" Dia. steel
Capacity	244 cu.ft. oxygen, 300 cu.ft. acetylene cylinders



Order No.	MD212
Mfg. No.	203 / CC-3
Weight	27 lbs
Base Dimensions	12" x 16"
Wheels	10" Dia. semi-pneumatic
Capacity	144 cu.ft. or 244 cu.ft. oxygen, 130 cu.ft. acetylene cylinders



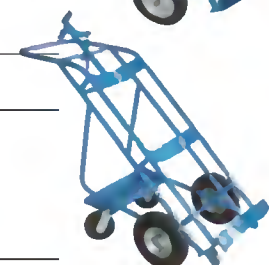
Order No.	MD213
Mfg. No.	204 / CC-4
Weight	30 lbs
Base Dimensions	19" x 10"
Wheels	10" Dia. semi-pneumatic
Capacity	144 cu.ft. or 244 cu.ft. oxygen, 130 cu.ft. acetylene cylinders

Order No.	TTT450
Mfg. No.	206 / CC-2L
Weight	10 lbs
Base Dimensions	7" x 14"
Wheels	6" Dia
Capacity	80 cu.ft. oxygen, 75 cu.ft. acetylene cylinders

Order No.	TTT451
Mfg. No.	207 / CC-1
Weight	22 lbs
Base Dimensions	25" x 13"
Wheels	10" Dia. semi-pneumatic
Capacity	300 cu.ft. 9" Dia. cylinder

Order No.	TTT455
Mfg. No.	MC-4
Weight	30 lbs
Collapsible Undercarriage	
Wheels	8" rubber semi-pneumatic
Capacity	244 cu.ft. oxygen cylinders

Order No.	TTT456
Mfg. No.	CRT-100
Weight	100 lbs
Liquid - Cylinder Cart	
Wheels	12" rubber semi-pneumatic 6" Dia. caster undercarriage



ACETYLENE CYLINDER STAND & CART

- Durable heavy-duty steel construction
- Built-in hose rack and torch/tip holder
- Fits "B" acetylene cylinder
- **TTU100** comes with detachable handle and steel wheels

330-1378



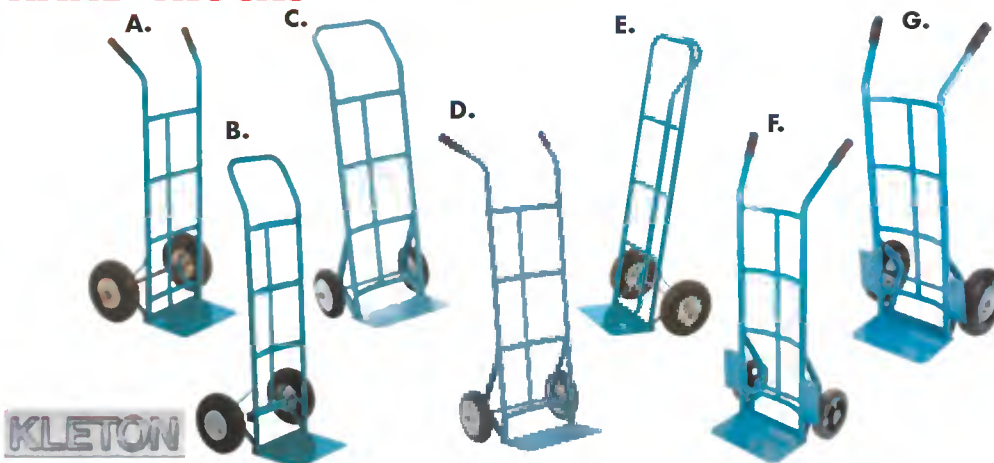
TTU100



Order No.	MFG No.	Description
330-1378	C-850	Stand
TTU100	C-850CW	Cart



HAND TRUCKS



Order No.	Overall Height"	Overall Width"	Nose Plate"	Wheel Type	Wheel Size"	Cap. lbs.
A. MH300	46	21 1/2	8 x 14	Pneumatic	10 x 3 1/2	600
B. MH301	49	21 1/2	9 x 14	Pneumatic	10 x 3 1/2	600
C. MK728	46	19 1/2	8 x 14	Rubber	8 x 2	600
D. MK729	45	19 1/2	8 x 14	Rubber	8 x 2	600
E. MH302	51 1/2	21 1/2	8 x 14	Pneumatic	10 x 3 1/2	600
F. MK730	46	20	8 x 14	Rubber	8 x 2	1000
G. MK731	46	20	8 x 14	Pneumatic	10 x 3 1/2	800

MINI-MIG WELDING CART

- Designed to carry a variety of Mini Migs, Inverters and Plasma machines
- Cylinder Capacity: 9 1/2"
- Dimensions: 18" W x 36" D x 17" H
- Weight: 48 lbs

Order No.
NP571
MFG No.
MM-8



2-CYLINDER POLY-STAND™

- Free-standing design maximizes floor space
- Made of polyethylene resisting sparking, rust and corrosion
- Prevents accidental tipping with durable nylon straps to keep cylinders and stand secure
- Ideal for inexpensive wall-mounted storage
- Accommodates two cylinders with diameters of 3" to 12 3/8" diameter
- Dimensions: 28" W x 14" D x 30" H
- Load bearing capacity of 400 lbs.
- Weight: 14 lbs.
- OSHA 29 CFR.1910 regulation

Order No. **SE966**
MFG No. 7212-YE



DUAL-CYLINDER DOLLY

- Accommodates cylinders up to 12" in diameter, including a class 300 SCF industrial gas cylinder and a no. 5 acetylene cylinder
- Composite construction with stands extreme weather conditions
- Tough 16" diameter pneumatic wheels gives manoeuvrability on rough terrain
- Powder coated steel tool/supplies tray
- Handle offers maximum stability allowing for wrapping of hose equipment
- Rust, corrosion and spark resistant
- Will not dent, chip or scratch paint from cylinders
- Dimensions: 35.35" W x 23.26" D x 45.20" H
- Weight: 50 lbs.
- Load capacity: 500 lbs.

Order No. **SK741**
MFG No. 7302-CG

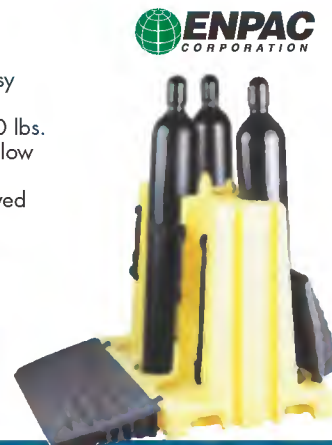
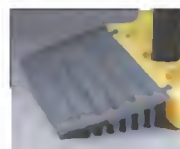


6-PACK CYLINDER RACK

- Maximizes floor space
- Will not rust or corrode
- Suited for outdoor storage
- Forkliftable, crane liftable or optional black caster frame for mobility to go anywhere
- Sturdy retaining straps assure stable storage
- Optional black accessory strap can be added to bottom for extra security
- Moulded-in cap holders to keep cylinder caps at hand
- Cylinder rack has a loading capacity of 1200 lbs.

- Black rack ramp optional to attach to cylinder rack for easy manoeuvring of cylinders
- Load bearing capacity of 600 lbs.
- Cylinder rack available in yellow
- Handles cylinders 3" to 10"
- OSHA 29 CFR.1910 approved

Order No.	MFG No.	Description	W"	x	D"	x	H"	Wt. lbs.
SE967	7202-YE	Cylinder Rack	48	x	31	x	41	62
SE968	7204-BK	Caster Frame	33 1/2	x	31 1/2	x	4 1/2	95
SE969	7205-BK	Bottom Straps	-	-	-	-	-	1
SE970	7203-CG	Rack Ramp	46	x	20	x	6	20

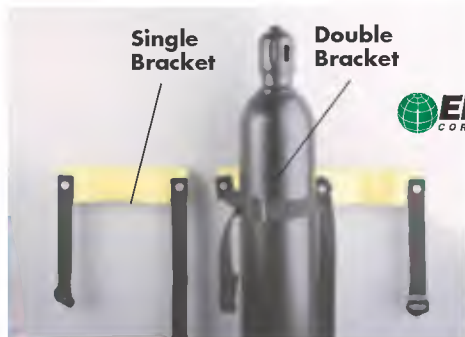




GAS CYLINDER BRACKETS

POLY-CYLINDERS BUMPER BRACKETS™

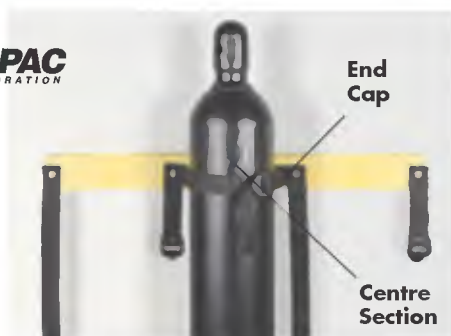
- Choose from a single or double cylinder design
- Bumper brackets easily and securely attach to any wall
- Durable nylon straps hold cylinders secure
- Rounded edges prevent cylinder from marring
- Low density polyethylene is rust and corrosion resistant, also resists sparking
- Accommodates cylinder diameters 3" to 10"
- OSHA 29 CFR.1910 approved



Order No.	MFG No.	Description	Dimensions L" x W" x H"	Wt. lbs.
SE972	7211-YE	Single	15 x 4 x 3	2
SE973	7210-YE	Double	24 x 4 x 3	3

POLY-CYLINDER MODULAR BUMPER BRACKETS™

- Modular design
- Holds one, two or three cylinders
- Attaches to any wall securely and easily
- Yellow polyethylene
- Accommodates 3" to 10" cylinders
- Dimensions: 16" L x 4" W x 4" H
- Weight: 2 lbs.
- OSHA 29 CFR.1910 approved



Order No.	MFG No.	Description
SE974	7215-YE	Centre Section
SE975	7214-YE	End Cap

CYLINDER CARRY STANDS

- Choice of 3 types
- Easy storage, portability of cylinders and accessories

Order No.	MFG No.	Construction	Fits Tank
TTT491	CRT10	Heavy-duty plastic	10 cu.ft. acetylene and 20 cu.ft. oxygen
TTT492	CRT10MC	Steel	10 cu.ft. acetylene or 16 oz. MAPP®
TTT493	CRT40B	Steel	40 cu.ft. acetylene



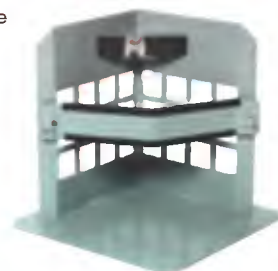
19912E

GAS CYLINDER SUPPORT

- Adjustable floor bracket to accommodate most cylinders and prevent accidental tipping of cylinders
- V bracket slides in and out to adjust to cylinder diameters from 4" to 10"
- Four holes enable unit to be bolted to the floor
- Weight: 29 lbs.

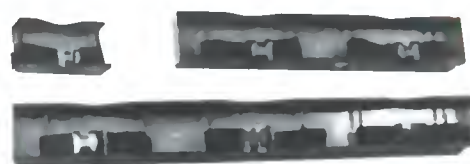
Order No. SB862

MFG No. G-181



CYLINDER WALL BRACKETS

- Accommodates most standard gas cylinder sizes
- Adjustable buckle straps hold cylinder securely to wall or any other stable surface
- Available in single, double or triple banks



Order No.	MFG No.	Description	Wt. lbs.
SB860	G-100	Single Cylinder Bracket	3
SB863	G-200	Double Cylinder Bracket	7
SB864	G-300	Triple Cylinder Bracket	11

10-WAY CYLINDER WRENCH

- For regulators, torches and commercial acetylene cylinders.
- Drop-forged, special alloy steel for maximum durability.
- Baked powder coated finish.

Order No. BZ944 MFG No. D1013



TANK KEY

- For B and MC acetylene valves, double ended

Order No. NP536 MFG No. B-MC





GAS CYLINDER CABINETS

- Heavy-duty construction
- 2" x 2" 10-gauge formed steel angle posts
- 9-gauge wire mesh doors and walls for venting
- 14-gauge checker plate shelves and roof
- English and French warning labels included
- Padlock hasp for added security
- Innovative door design allows for left or right opening installation
- Easy assemble, knock-down feature saves on shipping costs

KLETON



SAF837



SAF847

OXYGEN GAS (9" DIAMETER CYLINDERS)

Order No.	Dimensions W" x D" x H"	Cylinder Capacity	Wt. lbs.
SAF837	44 x 30 x 74	10	210
SAF848*	88 x 30 x 74	20	420

*Consists of two units of the SAF837

LIQUID PROPANE (35 LB CYLINDERS)

Order No.	Dimensions W" x D" x H"	Cylinder Capacity	Wt. lbs.
SAF836	44 x 30 x 37	6	135
SAF847	44 x 30 x 74	12	270

Notes: Constructed to meet or exceed strict CSA International B149.2-0 Propane Storage and Handling Code must be stored vertically at all times.

LPG CYLINDER LOCKER STORAGE

ALUMINUM CYLINDER LOCKERS OFFER DURABLE AND SECURE STORAGE FOR YOUR COMPRESSED GAS AND LPG CYLINDERS!

Safely secure LPG and oxygen cylinders from theft and unauthorized access with cylinder lockers from Justrite®. Superior features make these units extremely durable and easy to use. Constructed of 100% welded aluminum, they will not rust, corrode or discolour. Aluminum, expanded metal panels are the heaviest in the industry – 20% heavier than others – offering additional resistance to tampering. Heavier gauge aluminum mesh and extruded (not bent) frame add rigidity. Justrite® offers an exclusive solid aluminum roof panel that slants to the back to shed water and ice.

Aluminum cylinder storage lockers are ideal for any facility using a forklift truck or welding equipment. Compare features and benefits! These sturdy cylinder lockers offer today's best value for safely storing gas cylinders.



Sloped roof design sheds water and ice to the rear. Solid top reinforces stability.

Comes complete with warning and full/empty cylinder labels. Extruded framework provides superior strength.

Heavy expanded aluminum for improved security. All-welded aluminum construction resists abusive outdoor elements – will not rust or discolour.

Easy-to-use rock positions cylinders securely and stores 20 and 33 lbs. cylinders.

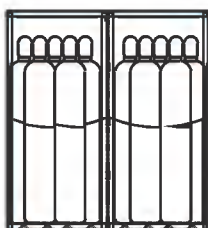
Designed to accept padlock (not included) to prevent unauthorized access.

Cylinders stay clear of ground with strong floor plate.

Predrilled hole at each corner for anchoring. Accepts 1/2" anchor for maximum security and stability.

Shipped fully assembled to save on set-up time.

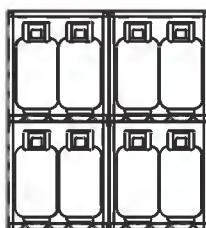
Weights 66% lighter than steel...costs less to ship.



Vertical Storage Locker
20 Compressed Gas Cylinders
Model SAI577



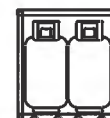
Vertical Storage Locker
10 Compressed Gas Cylinders
Model SAI576



Vertical Storage Locker
16 LPG Cylinders
Model SAI575



Vertical Storage Locker 8
LPG Cylinders
Model SAI574



Vertical Storage Locker
4 LPG Cylinders
Model SAI573



Complies with NFPA 58 and OSHA 1910.110 or The Canadian Standards Association CSA-B149.2.

Order No.	Mfg. No.	Description	Cylinder Type	Capacity	Dimensions W" x D" x H"	Wt. lbs.
SAI573	23009	4-Cylinder Vertical	LPG	4 - 20 or 33-lb cylinders	30 x 32 x 33 1/2	79
SAI574	23010	8-Cylinder Vertical	LPG	8 - 20 or 33-lb cylinders	30 x 32 x 65	114
SAI575	23011	16-Cylinder Vertical	LPG	16 - 20 or 33-lb cylinders	60 x 32 x 65	211
SAI576	23006	10-Cylinder Vertical	Compressed Gas	Up to 10 comp. gas cylinders	30 x 32 x 65	102
SAI577	23007	20-Cylinder Vertical	Compressed Gas	Up to 20 comp. gas cylinders	60 x 32 x 65	187

23086E



OUTPUT ICONS



For constant current stick and TIG processes



For constant voltage MIG, flux-cored and subarc processes



Alternating current welding output



Direct current welding output



2-Roll Wire feeder



For multiprocess constant current or constant voltage applications



Alternating or direct current welding output



Peak auxiliary power output

INPUT ICONS



Single phase input power



Three phase input power



Engine Driven - Gas, Diesel or LPG



12 Volt DC Wire feeder input power



50 Hertz input power



60 Hertz input power



50/60 Hertz input power

AC-225

AC GENERAL PURPOSE WELDING

Use the popular AC-225 to stick weld mild steel, low alloy and stainless steels as well as cast iron for common repair and hobby projects.

- 40-225 amps AC stepped output control is enough for 3/16" (4.8 mm) diameter mild steel general purpose stick electrodes and select 5/32" (4.0 mm) diameter electrodes
- Weld 16-gauge sheet metal to heavy plate on mild steel, low alloy stainless, cast iron and hard facing applications
- Optional carbon arc torch can be used for brazing, soldering and heating for metal bending
- Fan-cooled for extra thermal protection
- NEMA rated
- UL listed and CSA approved
- 3-year warranty on parts and labour

LINCOLN
ELECTRIC
THE WELDING EXPERTS™



Processes

Stick

Output



Input



Includes:

- Insulated electrode holder and cable
- Lightweight helmet with lenses
- Heavy duty work clamp and cable
- Sample pack of electrodes
- Helpful Welder's Guide
- Input Cable with integrated plug

Order No.	MFG No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle*	Input Current @ Rated Output	Output Range
TTT445	K1170	230/1/60	225A/25V/20%	50A	40-225 Amps Max. OCV: 79V

* Except 75-amp setting which can be used continuously for 1 hour.

AC/DC 225/125

TACKLE MORE TASKS WITH AC/DC

Select DC polarity for extremely stable arc action or out-of-position welding with Lincoln® Fleetweld® 5P. Choose AC polarity for welding on heavier plate, greater deposition or faster travel speeds with Lincoln® Fleetweld® 35. Great choice for stick welding on mild steel, low alloy and stainless steels as well as cast iron and hardfacing for maintenance, repair and light fabrication projects.

- 40-225 amps AC and 30-125 amps DC stepped output control is enough for 3/16" (4.8 mm) mild steel general purpose electrode diameters and select 5/32" (4.0 mm) diameter electrodes
- Weld 16-gauge sheet metal to heavy plate on mild steel, low alloy stainless, cast iron and hardfacing applications
- Optional carbon arc torch can be used for brazing, soldering and heating for metal bending
- Includes integrated input power cable with plug and receptacle for wall-mounting
- Fan-cooled for extra thermal protection
- NEMA rated
- UL listed and CSA approved
- 3-year warranty on parts and labour

LINCOLN
ELECTRIC
THE WELDING EXPERTS™



Processes

Stick

TIG

Output



Input



Includes:

- Insulated electrode holder and cable
- Heavy duty work clamp and cable
- Helpful Welder's Guide
- Input cable with integrated plug and receptacle

Order No.	MFG No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range
TTT447	K1297	230/1/60	AC:225A/25V/20% DC:125A/25V/20%	AC: 50A DC: 36A	40-225 Amps AC Max. OCV: 79V 30-125 Amps DC Max. OCV: 73V

23724E



INVERTEC® V155-S

PORTABLE, PROFESSIONAL, RUGGED, AFFORDABLE

- Weighs less than 15 lbs. (6.8 kg)
- 120/230 V auto reconnect operation, can operate from a portable generator
- Plugs into a 200' (61 m) 230 V extension cord so you can weld just about anywhere
- Tough dent resistant case is IP23-rated for outdoor use
- Two stick modes, SOFT and CRISP, provide the right arc characteristics for different types of electrodes
- Auto-Adaptive Arc Force™ minimizes electrode sticking in the puddle without compromising arc stability or increased spatter
- Automatic Hot-Start™ boosts the current during starting to make striking an arc easier
- Touch Start TIG™ DC operation allows you to strike the arc easily without high frequency or tungsten contamination
- Available in two models: a base unit (TTU115) with stick accessories or a complete Stick/TIG ready-to-weld package (TTU116) in an Easy-Store/Easy-Carry suitcase
- 3-year warranty on parts and labour



**LINCOLN®
ELECTRIC**
THE WELDING EXPERTS™

Processes

Stick
DC TIG

Output



Input



Includes:

- Invertec® V155-S
- Stick electrode holder, cable and Twist-Mate™ plug
- Work cable and clamp with Twist-Mate™ plug
- Fully adjustable shoulder strap
- 120/230 V 6.6' (2 m) input cord with a 120 V 15 Amp plug
- Extra 120 V 20 Amp plug

Ready-Pak® Includes:

All of the above plus

- Gas regulator
- PTA-17V TIG torch with Ultraflex™ cable and Twist-Mate™ adapter
- PTA-17 TIG accessory kit
- Easy-Store/Easy-Carry suitcase

Order No.	MFG No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output*	Output Range
TTU115	K2605-1	120/1/50/60	75A/23.0V/100% Stick 100A/24.0V/30% Stick 105A/14.2V/100% TIG 130A/15.2V/30% TIG	24.0A 33.8A 21.5A 28.8A	5-155 Amps DC Max. OCV: 75V
TTU116	K2606-1	230/1/50/60	100A/24.0V/100% Stick 145A/25.8V/30% Stick 100A/14.0V/100% TIG 155A/16.2V/30% TIG	21.0A 31.0A 14.1A 22.8A	5-155 Amps DC Max. OCV: 75V

*Input amps on 60 Hz input

PRECISION TIG® 225

GREAT FOR CUSTOM FABRICATORS

The Precision TIG® 225 gives you the "Power to PerformSM", for general fabrication, automotive/motorsports, vocational schools or serious hobby work. Micro-Start™ II Technology delivers precision arc performance to improve arc starting, welding and weld cratering.

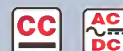
- 5-230 amps is the widest welding range in its class
- Patented Micro-Start™ II Technology delivers extremely stable low amperage starting, welding and cratering for AC and DC welding
- AC Auto-Balance™ automatically sets the optimal cleaning vs. penetration levels for great looking aluminum welds
- Built-in TIG pulser helps control heat input in the weld
- 115 volt auxiliary power receptacles with 20 amp service reliably powers water coolers or other tools
- Shielding gas sold separately
- Fan-As-Needed™ (F.A.N.) prevents overheating, reduces power consumption noise, motor wear and dust in the machine
- Ready-Pak® with Cart includes everything listed above and the understorage cart
- CSA C/US certified
- Three-Year Warranty on parts and labour



Processes

Stick
TIG

Output



Input



Ready-Pak® Includes:

- Precision TIG® 225
- Removable Lift Eye
- 10 ft. Work Cable and Clamp
- NEMA 6-50R Receptacle
- TIG Procedure Guide
- GTAW (TIG) Handbook
- PTA-17 One-Piece TIG Torch, 12.5 ft.
- Gas Regulator with Hose
- Foot Amptrol®

**LINCOLN®
ELECTRIC**
THE WELDING EXPERTS™

Order No.	MFG No.	Description	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output*	Output Range
TTT398	K2535-1	Ready-Pak® Pkg.	208/230/1/60	90A/23.4V/100%	42/39A	5-230A AC
TTT399	K2535-2	Ready-Pak® Pkg. w/cart				5-230A DC Max. OCV: 75V

*All inputs reported include 20 amp output on 115 volt auxiliary

23725E



MIG: WIRE FEEDER/WELDERS

SP-140T

120 VOLT AC INPUT COMPACT WIRE WELDER

Welder for project and repair welding with MIG on mild steel or stainless and flux-cored on mild steel at home, on the farm or in an autobody shop.

- Ready to weld! Includes mild steel MIG and Flux-cored wire spools, regulator and basic handshield
- Easy-to-set 5-position tap voltage control and continuous full-range wire feed speed control help dial-in applications
- Wide 30-140 amp welding output range
- MIG weld 24-gauge up to 10-gauge (0.135") sheet metal in a single pass, weld up to 5/16" steel using self-shielded Lincoln Innershield® wire (FCAW-S)
- Spool Gun ready, add the optional Magnum® 100SG spool gun (TTU118, see page 61) for reliable aluminum wire feeding
- 3-year warranty on parts and labour, 90 days on gun and cable assembly

LINCOLN
ELECTRIC
THE WELDING EXPERTS™



Processes

MIG
Flux-Cored

Output



Input



Includes:

- Magnum® 100L gun and 10' (3.0 m) cable assembly with brass gun connection and 4-pin MS-Type connection for trigger control
- 3-0.025" (0.6 mm) contact tips
- 3-0.035" (0.9 mm) contact tips
- Gasless nozzle for Innershield® welding
- Gas nozzle for MIG welding
- Spindle adapter for 8" (203 mm) diameter spools
- 0.025" - 0.30" (0.6-0.7 mm) diameter MIG drive roll
- 0.035" (0.9 mm) diameter MIG drive roll
- 0.030" - 0.045" (0.7-1.1 mm) knurled drive roll for flux-cored welding
- Adjustable gas regulator and hose
- 2 lb. (0.90 kg) spool of 0.025" (0.6 mm) diameter SuperArc® L-56® MIG wire
- 1 lb. (0.45 kg) spool of 0.035" (0.9 mm) diameter Innershield® NR® 211-MP flux-cored wire
- Work clamp and 10' (3.0 m) cable
- Handshield • How to use DVD

Order No.	MFG No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output*	Output Range
TTU105	K2688-1	120/1/60	90A/19.5V/20%	20A	30-140 Amps DC 50-500 ipm WFS (1.3-12.7 m/min) Max. OCV: 33V

LINCOLN
ELECTRIC
THE WELDING EXPERTS™

SP-180T

MORE POWER FOR THICKER MATERIAL

Compact wire welder plugs it into a 208 or 230 volt outlet in your garage, barn or shop-weld up to 3/16" with MIG welding and 1/2" with gas-less flux-cored welding.

- Includes both mild steel MIG and Flux-cored wire as well as an adjustable gas regulator
- Easy-to-set 5-position tap voltage control and continuous full-range wire feed speed control help dial-in applications
- Wide 30-180 amp welding output range, use 0.025" wire on the thinnest sheet metal up to 0.045" flux-cored wire on thick plate
- MIG weld 24 gauge up to 3/16" sheet metal in a single pass, weld up to 1/2" steel using self-shielded Lincoln Innershield® wire (FCAW-S)
- Spool Gun ready, add the optional Magnum® 100SG spool gun (TTU118, see page 61) for reliable aluminum wire feeding
- 3-year warranty on parts and labour, 90 days on gun and cable assembly



Processes

MIG
Flux-Cored

Output



Input



Includes:

- Magnum® 100L gun and 10' (3.0 m) cable assembly with brass gun connection and 4-pin MS-Type connection for trigger control
- 3-0.025" (0.6 mm) contact tips
- 3-0.035" (0.9 mm) contact tips
- Gasless nozzle for Innershield® welding
- Gas nozzle for MIG welding
- Spindle adapter for 8" (203 mm) diameter spools
- 0.025" - 0.30" (0.6-0.7 mm) diameter MIG drive roll
- 0.035" (0.9 mm) diameter MIG drive roll
- 0.030" - 0.045" (0.7-1.1 mm) knurled drive roll for flux-cored welding
- Adjustable gas regulator and hose
- 2 lb. (0.90 kg) spool of 0.025" (0.6 mm) diameter SuperArc® L-56® MIG wire
- 1 lb. (0.45 kg) spool of 0.035" (0.9 mm) diameter Innershield® NR® 211-MP flux-cored wire
- Work clamp and 10 feet (3.0 m) cable
- Handshield • How to use DVD

Order No.	MFG No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output*	Output Range
TTU117	K2689-1	208/230/1/60	208: 130A/17V/30% 230: 130A/20V/30%	20A	30-180 Amps DC 50-500 ipm WFS (1.3-12.7 m/min) Max. OCV: 33V

23727E



POWER MIG® 215XT

THE PROFESSIONAL'S CHOICESM

Offers the autobody and sheet metal fabrication industries top welding performance and a host of professional features

- Rated at 215 A/22 V @ 30% duty cycle, with an amperage range of 30-250 A DC, has the highest rating and widest amperage range in its class
- Diamond Core TechnologyTM, a patented choke design, delivers a forgiving arc, even with large stickout changes, excellent out-of-position arc action, a wide voltage sweet spot at a given wire feed speed for steel, stainless steel or aluminum and low spatter
- Moxtrac[®] cost aluminum industrial wire drive features dual driven rolls, regulated wire feed speed control, easy-turn numeric tension indicator, brass-to-brass connections and Lincoln's 100% wire supporting split wire guide system
- 15' (4.5 m) gun and cable assembly makes it easy to reach your work
- Seven tapped voltage ranges make it easy to select the right procedure for your application
- Only machine in its class to feature a 115 volt auxiliary power receptacle
- Spool gun ready for light duty Magnum[®] 100SG spool gun (TU118, see page 61)
- Includes: an easy-load gas cylinder platform, a locking storage compartment with tool tray for your personal tools and valuables, intuitive input reconnect panel and easy-load wire spindle system with tool-less brake adjustment
- 3-year warranty on parts and labour, 90-days on gun and cable assembly



LINCOLN
ELECTRIC
THE WELDING EXPERTSSM

Processes

MIG
Flux-Cored

Output



Input



Includes:

- Magnum[®] 250 L gun and 15' (4.5 m) "quick-connect" cable assembly equipped with fixed gas nozzle assembly
- Lockable storage compartment with tool tray for keeping tools safe
- Work clamp and 10' (3.0 m) cable
- 10' (3.0 m) 230V input power cable with plug
- Dual driven drive rolls and split wire guides to support the wire 100%
- Drive roll and wire guide to feed both 0.035" & 0.045" (0.9 & 1.2 mm) wire
- Gas regulator and hose kit for CO₂ or argon blend gases (For use with CO₂ shielding gas, order a CO₂ shielding gas bottle adapter)

Order No.	MFG No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output**	Output Range
TU119	K2700-1	208/230/1/50/60	215A/22V*/ 30% 190A/23V/40% 170A/24V/60%	45/41A 42/38A 39/35A	30-250 Amps DC 50-700 ipm WFS (1.3-17.7 m/min) Max. OCV: 39V

* 21V on 220V 50 Hz input. ** Input current is at the rated output with the 115V auxiliary receptacle also drawing 15 amps

POWER MIG® 255XT

THE PROFESSIONAL'S CHOICETM

Sets the standard for MIG and flux-cored welding in light industrial job shop fabrication, maintenance or repair work

- Diamond Core TechnologyTM delivers a wide voltage sweet spot across the welding range, low spatter levels and a forgiving arc on steel, stainless and aluminum – even for demanding out-of-position work
- Moxtrac[®] cost aluminum industrial wire drive features dual driven rolls, easy-turn numeric tension indicator, brass-to-brass gun connections and Lincoln's 100% wire-supporting split wire guide system
- Digital meters display, preset voltage and wire feed speed, and actual voltage and preset wire feed speed while welding
- 15' (4.5 m) gun and cable assembly makes it easy to reach your work
- Electronics and second gas solenoid built-in to drive either the Magnum[®] 250LX or the Mognum[®] SG spool gun (TU118, see page 61)
- Most economic spool gun solution in the 250A category – costing hundreds less
- 115 V auxiliary receptacle to power a grinder or other auxiliary equipment in your work area
- Free timer functions adds 4-step trigger interlock, spot mode, adjustable run-in speed for smoother arc starting, and adjustable burnback time to minimize wire sticking in puddle
- 3-year warranty on parts and labour, 90 days assembly on gun and cable



LINCOLN
ELECTRIC
THE WELDING EXPERTSSM

Processes

MIG
Flux-Cored

Output



Input



Includes:

- Magnum[®] 250L gun and 15' (4.5 m) "quick-connect" cable assembly equipped with fixed gas nozzle assembly
- Lockable storage compartment with tool tray for keeping tools safe
- Work clamp and 10' (3.0 m) cable
- 10' (3.0 m) 230 V input power cable with plug
- Dual driven drive rolls and split wire guides to support the wire 100%
- Drive roll and wire guide to feed both 0.035" & 0.045" (0.9 & 1.2 mm) wire
- Gas regulator and hose kit for CO₂ or argon blend gases (For use with CO₂ shielding gas, order a CO₂ shielding gas bottle adapter)

Order No.	MFG No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output*	Output Range
TU099	K2701-1	208/230/1/60	250A/26V/40%	56/52A	30-300 Amps 50-700 ipm WFS (1.3-17.7 m/min) Max. OCV: 40V

* Input current is at the rated output with the 115V auxiliary receptacle also drawing 15 amps



PLASMA CUTTING SYSTEMS



PLASMA CUTTER

BY THE HARRIS PRODUCTS GROUP

A professional-grade, lightweight, portable plasma cutting system that can be carried anywhere with little effort. It is ideal for the farm, HVAC, autobody shop, contractor, sheet metal fabricator, and home owner for metal cutting jobs.

- Recommended for cutting sheet metal to 1/8" material with a maximum capacity of 1/4"
- Inverter design makes the 21-lbs. unit very portable and ideal for HVAC and autobody work
- Operates on 115 V, 20 A for maximum output, 115 V, 15 A for 10-15 A output
- No high-frequency to damage sensitive electronic equipment
- Perfect for cutting expanded metal, stainless steel and aluminum
- Built-in air pressure regulator, top mounted for easy adjustment
- Fan-cooled unit has 40-50% duty cycle depending on the setting
- Saddle hooks for convenient cable storage
- Uses standard compressed air requires 65 PSI @ 3.5 CFM
- **Includes:** cutting torch assembly with 9.5' reach, ground clamp with 8' cable, power cord and plug
- 1-year warranty on parts and labour, 90-day torch limited warranty



LINCOLN
ELECTRIC

THE WELDING EXPERTSSM

Order No.	MFG No.	Input Power	Rated Output Current	Input Current @	Max OCV
TTU121	K2682-1	115/1/60	20A @ 40% 10-15A @ 50%	20A @ max. output 15A @ 10-15A output	310 Vdc

PRO-CUT® 25

PORTABLE CUTTING POWER UP TO 3/8"

The handy Pro-Cut® 25 is ideal for hobby, farm, HVAC, auto body shop or sheet metal fabrication. This professional-grade plasma cutting system lists a host of features that will make your metal cutting jobs safe, fast and easy!

- 25 amps of cutting power from only a 29.5-lb, (13.4 kg) package (without cables) for competitive performance on materials up to 3/8" (9.5 mm) thick
- Patented PCT 20 torch with VORTECH™ technology consumables for unmatched cutting speed, precision and long life
- Automatic re-connection between 115 V and 230 V for easy power connection and flexibility
- Parts-in-Place™ safety indicator and lockout circuit to safely protect both the operator and the system
- Can be powered by most Lincoln® engine driven welders for ultimate portability



Processes

- Air plasma cutting
- Gouging

Output



Input



Includes:

- PCT 20 hand torch, 15' (4.5 m)
- Work lead and clamp
- Spare consumables
- Built-in air pressure regulator with gauge
- Input cord with 115 V, 15 A plug (NEMA 5-15P)
- 115 V, 20 A plug

LINCOLN
ELECTRIC

THE WELDING EXPERTSSM

Order No.	MFG No.	Torch Length'	Input Power Voltage/Phase /Hertz	Rated Output Current /Duty Cycle	Input Current @ Rated Output	Pilot Current	Output Range	Air Pressure Required	Air Flow Rate
TTT944	K1756-1	15	115/1/50/60	25A/35%* 20A/60%	37.7A 26.7A	12A	12-25A	65 PSI	240 SCFH
			230/1/50/60	25A/60% 20A/100%	19A 15A				

*Full-output current requires use of 25 amp branch circuit and plug (supplied).

23728E



MAGNUM® 100SG SPOOL GUN

A reliable, low-price aluminum welding spool gun for novice and experienced welders

- Lightweight at only 3.5 lbs. (1.6 kg)
- All combinations of specified aluminum alloys and wire diameters can be fed with the same drive roll and liner assembly
- 0.030-0.035" (0.8-0.9 mm) drive roll included
- Professionally-styled, smooth exterior with ergonomic grip and balance
- Full travel mechanical trigger can be easily felt through a welding glove
- 10' (3.0 m) gun cable, control harness, and gun connector offers fast connections to the welding machine
- No expensive gun or bulky adapter module required
- Uses the same tips, diffuser, and nozzles as the Magnum® 100L
- Recommended power sources:
Power MIG® 140C/180C and SP-140T/180T
- Cushioned carrying case protects the gun during storage
- 90-day warranty on parts and labour



**LINCOLN®
ELECTRIC**

THE WELDING EXPERTS™

Order No.	MFG No.	Rated Output Current/Duty Cycle	Cable Length'
TTU118	K2532-1	130 A/30 %	10

Processes

MIG/GMAW

Output



Input



Includes:

- Fully assembled spool gun with spring for use with alloy 5356 wire
- 1 spool of 0.035" (0.9 mm) aluminum alloy 4043 wire
- 3 contact tips
- Electrical harness with toggle switch (must be installed in welding machine)
- 10' (3.0 m) cable length
- Instruction manual
- Cushioned carrying case

RANGER® 10,000 PLUS EXCELLENT VALUE AC/DC STICK WELDING

The right choice for a general contractor, maintenance crew, farmer or rancher who needs a reliable and rugged general purpose AC/DC welder and an AC generator. Use peak power for starting and running motors.

- Smooth AC/DC welding output for a broad range of stick electrodes, such as Lincoln Excalibur® 7018 (AWS E7018) and Fleetweld® 5P+ (AWS E6010)
- Capable of MIG, Flux-Cored, and TIG welding (with additional optional equipment)
- 10,500 watts peak single-phase AC generator power
- 9,000 watts continuous power for high capacity needs such as a back-up generator, powering a Pro-Cut® plasma cutter or an Invertec® inverter welder. Also for lights, a grinder or other power tools.
- Rugged Reliability
- All rated outputs at 100% duty cycle 104° F (40° C)
- Three-year Lincoln warranty on parts and labour on welder (Engine is warranted separately by the manufacturer)



Processes

Stick
TIG
MIG
Flux-Cored
Gouging

Output



Input



**LINCOLN®
ELECTRIC**

THE WELDING EXPERTS™

Order No.	MFG No.	Rated Output Current/Voltage/Duty Cycle	Output Range	Type of Engine	No. of Cylinder	HP @ Speed (RPM)
TTU120	K1419-5	225A AC CC/25V/100% 210A DC CC/25V/100% 200A DC CV/20V/100%	50-225A AC 50-210A DC 15-25V CV 10,500 watts peak 9,000 watts continuous	Kohler® OHV Command® CH23S	2	23 @ 3600



TIG TORCH COOLING SYSTEM

- Plastic water tank eliminates coolant contamination due to electrolysis or chemical reactions
- All units are plumbed with copper tubing and reinforced hose
- Extended life pump features a direct drive power system reducing maintenance and vibration
- No external plumbing is required because of closed loop water system
- Self-priming and easy-change pump
- Strong rigid construction designed to support power unit
- Compact design
- Designed for TIG torches and MIG guns up to 300 amps
- Defense coolant anti-freeze and pump lubricant is recommended for all Dynaflux cooling systems

Order No. TT580 MFG No. Tiger-115



SPECIFICATIONS

- Factory set at 50 PSI
- 2-gallon reservoir
- 115 or 230 VAC/single phase – 50/60 Hz
- 3.2/1.5 amps: 60 Hz
- 10,000 BTU
- 1/4" female pipe fitting (water in/out) with 5/8 LH standard inert gas fitting
- 8' power cord
- Visible water level through tank
- Thermal overload
- Dimensions: 12" L x 14" W x 9" H
- Net weight: 30 lbs.

WATER RECIRCULATING COOLING SYSTEM

- Factory set at 50 PSI adjustable to 100 PSI
- 15,000 BTU
- Visible water level and water flow sight glass
- Dimensions: 23" L x 11" W x 14.75" H
- 3-gallon reservoir
- 5/8 LH standard inert gas fittings – 1/4" FPT
- Thermal overload
- Net weight: 42 lbs.

ROTARY GEAR PUMP

- 1.8 GPM at 50 PSI • Built in by-pass to tank

ROTARY VANE PUMP

- 1.7 GPM at 50 PSI

DYNAFLUX, INC.

DESIGNED FOR

MIG Guns:	Up to 750 amps
TIG Torches:	Up to 750 amps
Plasma Welders/Cutters:	Up to 200 amps
Resistance Welders:	Up to 75 KVA
Induction Welding:	Up to 5 KW



WATER RECIRCULATING COOLING SYSTEM W/VANE PUMP

- Factory set at 50 PSI adjustable to 100 PSI
- 15-gallon reservoir (6 gallon available)
- 4.0 GPM at 50 PSI
- 115 or 230 VAC/single phase – 60 Hz
- 8.2/4.1 amps: 60 Hz
- 30,000 BTU
- 1/2" FPT fittings
- 8' power cord
- Visible water level and water flow sight glass
- Thermal overload
- Dimensions: 23" L x 16" W x 25.5" H
- Net weight: 70 lbs.

Order No.	MFG No.	Description
TT582	R1100G	Rotary Gear Pump
TT581	R1100V	Rotary Vane Pump

DYNAFLUX, INC.

DESIGNED FOR

MIG Guns:	Up to 1000 amps
TIG Torches:	Up to 1000 amps
Plasma Welders/Cutters:	Up to 300 amps
Resistance Welders:	Up to 150 KVA
Induction Welding:	Up to 10 KW



DEFENSE ANTI-FREEZE & PUMP LUBRICANT

- Provides year round pump protection for water coolers closed loop water systems
- Contains a lubricant additive providing continuous pump lubrication during operation
- Prolongs seal and shaft life because of its silicate free formula
- Protects from freezing to -30°F when undiluted (a dilution of two parts Defense to one part water protects to 10°F)

Order No.	MFG No.	Size
881-1355	DF927-PM	1 Gallon, Pre-mixed
881-1350	DF929-4x1	1 Gallon
881-1365	DF929-5	5-Gallon Pail
881-1370	DF929-55	55-Gallon Drum

DYNAFLUX, INC.

Note:
Although Defense is a permanent anti-freeze and pump lubrication solution, it should be changed annually to maintain maximum anti-freeze protection and pump lubrication.

881-1355

881-1350



21408E

POWER CAT® PORTABLE BLOWERS

- Provides the extra power to tackle tough, industrial jobs
- Unique portable blower can be used for ventilating, cooling and heating the work space
- Removes fumes and smoke created during welding through addition of accessories
- Choice of 300 CFM model blower, or variable 1120/877 CFM unit
- Fitted with a duplex receptacle featuring 25', heavy-duty grounded extension cord
- 120 Volt/60 Hz motor
- Accessories sold separately



ACCESSORIES FOR MODEL EA090



ACCESSORIES FOR MODEL EA091



Order No.	MFG No.	Blower	Lamp	Receptacle
EA090	A300	300 CFM	40 Watts	Duplex, Grounded
EA091	1200XL	High Speed – 1120 CFM Low Speed – 877 CFM	N/A	Duplex, Grounded Weather-Resistant

ACCESSORIES

Order No.	MFG No.	Description
FOR USE WITH EA090		
EA092	300DA	Duct accessory. 10' x 5" flexible duct with exhaust adaptor.
EA093	300EXT	Extension accessory. 10' x 6" flexible duct with connecting sleeve and clamp. Use to extend EA092 and EA094 in 10' increments.
EA094	300IA	Intake accessory. 10' x 6" flexible duct with quick-mount fittings at both ends.
EA095	300FE	Welding Fume Exhaust Nozzle. Clamps to 300IA to direct intake of welding fumes.
FOR USE WITH EA091		
EA096	1200EA	Extension accessory. Easily attaches to connect EA098 to unit.
EA097	1200IA	Intake Adaptor. Quick-mount fitting to attach duct to unit.
EA098	1200FD	Flexible Duct. 10' x 8" duct to be used with either EA096 or EA097.
EA099	1200DC	Duct Coupling. Clamp-on connector for additional EA098 ducts.
EA100	1200FE	Welding Fume Exhaust Nozzle. Clamps to EA098 for extraction of welding fumes.

PORTABLE CLEAN-AIR BLOWERS

- At 37 lbs, these light weight units will go anywhere
- Designed for use in confined spaces and areas where portability is a must
- Quickly removes harmful airborne smoke and particulate from the breathing and work zone in welding and other industrial applications
- Both units include a 10' flexible hose and slot nozzle with flexible arm assembly and magnetic base
- TTT513 unit is designed for use with smokeless welding torches and lighter duty applications for collection of dust and smoke at the source
- Polluted air is drawn away and filtered through a 3-stage filtration system

- Comes with pre-filter and 95% main filter
- Single 7 amp 120 VAC motor, 113 CFM
- TTT514 unit collects dust and smoke at the source, drawing polluted air away and filtered through a 3-stage filtration system
- Comes with pre-filter and 95% main filter
- Dual 14 amp 120 VAC motor, 226 CFM

Order No.	MFG No.	Description
TTT513	AIP-73-100G	Single Motor System
TTT514	AIP-73-200G	Dual Motor System



MOBILE FUME EXTRACTOR WITH MECHANICAL FILTERS

- Compact and flexible unit made of 16 GA powder steel sheet all welded construction
- Easy filter change-out
- Decreases the need for general ventilation as well as the amount of dust in the air
- Less dust will give less wear on the machinery, less cleaning in the workshop and in the office, increased productivity
- This filter offers both high volume extraction, and a high degree of filtration-up to 99.9% efficiency
- The Super-flexible Flexi® extraction arm captures fume and dust at a distance of (30-50) cm from the source and within an area of (0.5 metre) diameter
- The arm can be rotated through 360° • Locking casters • Integrated damper
- Product ships FOB manufacturer, Pickering, Ontario

FILTER CARTRIDGE

Order No.	MFG No.	Description
BA657	P-160	Replacement Filter Cartridge >99%, 14 m² (2 x 7 m²)

Order No.	MFG No.	Description	Fan Volts/PH	Free Air CFM	Active Filter Area Sq. Ft.	Airflow Thru Hood CFM	Dimensions L" x W" x H"
BA655	P-150/P-002	Mobile w/2M Arm	115/240/1	1260	150.7	720	25 x 19 x 33
BA656	P-150/P-003	Mobile w/3M Arm	115/240/1	1260	150.7	720	25 x 19 x 33





ELECTRODE HOLDERS

SHORTSTUB™ ELECTRODE HOLDERS

- Grip the electrode closer to the end
- Allows you to use 20% more of the electrode than with standard tong holders
- Manufactured from copper alloy for maximum conductivity and strength
- Fibreglass insulators are designed to withstand intense heat and impact
- Will not burn, break or carbon char



Order No.	Amps	Description
NT629	400	Electrode Holder w/Neck Ring
NT631	600	Electrode Holder w/Neck Ring
NT630	400	Slimline – Bernard® Style Holder



NT629

NT631

NT630

JAW TYPE ELECTRODE HOLDERS

- Made from a high copper alloy for maximum conductivity and strength
- Long top and bottom tip insulators are fibreglass to withstand intense heat and impact
- Will not break, burn or char
- Oval-point screw cable connections on both models



Order No.	MFG No.	Amps	Max. Electrode Capacity"	Max AWG Size	Length"
702-2100	WM-2	200	5/32	1/0	8 1/4
702-4120	WM-5	500	5/16	4/0	11



702-2100

702-4120

BERNARD® SHORTSTUB™ ELECTRODE HOLDER

- Electrode can be used to within one inch of Shortstub™ head
- Built to last with a proven high impact, high heat separate head
- 2000-lb gripping pressure
- Better visibility, greater hand-to-arc distance



Order No.	MFG No.	Amps	Electrode Capacity"
360-9001	40S	400	1/16 - 1/4



360-9001

LENCO "AF" SERIES ELECTRODE HOLDERS

- Fit in a welder's hand like a glove to provide superior electrode control
- Durable tip insulators are moulded from high impact, high temperature fibreglass compound
- Fully insulated upper lever
- Powerful spring holds the electrode securely in place and prevents slippage
- Spring is protected by a Lexan cup insulator



Order No.	MFG No.	Amps	Cable Capacity	Electrode Capacity"	Length"
MEDIUM-DUTY					
380-1455	AF-25	250 - 300	2/0	3/16	8-1/2
380-1450	AF-3	300 - 350	2/0	1/4	10
HEAVY-DUTY					
380-1460	AF-35	350 - 400	3/0	1/4	10
380-1465	AF-50	450 - 500	4/0	3/8	10-1/2



380-1455



CAM ACTION CABLE CONNECTORS

- One model fits cable sizes 4 through 4/0
- Manufactured from heavy wall precision machined brass alloy
- Cable is held securely by large dome screw
- Brass body assembly slides easily into unique heavy-duty neoprene insulator with no external screws to avoid shock hazards
- Cam locking connectors are compatible with most common brands



Order No.	Description
NT664	Male/Female Connector Set
NT649	Male Half with Insulator
NT650	Female Half with Insulator

EITHER-END CABLE CONNECTORS

- For use with 1/0 - 2/0 cable
- Unique "Either-End" design allows ends to interlock without the need for male/female connection points
- Brass body assembly slides into heavy-duty neoprene insulator



Order No.	MFG No.	Description
NP528	E-102M	Either-End Connector Set

JACKSON QUIK-TRIK® CABLE CONNECTORS

- Top-of-the-line Quik-Trik® connector sets have Morse-tapered sections that are drawn together with a cam and locking bar for maximum conductivity
- Flexible insulators with tapered ends that cover the cable jacket and lock out moisture, dirt and oil



Order No.	MFG No.	Cable Capacity
140-1865	QNB-2-BP	1/0 - 2/0
140-1870	QNB-4-BP	3/0 - 4/0

LENCO® LC-10 CABLE CONNECTORS

- Positive lock-tight action
- Metal parts are precision machined from heavy, specially shaped brass extrusion
- Cam action design of male half connector pulls the two halves tightly together
- Female brass connector is recessed to minimize accidental shorting
- Moulded connector covers
- 250 Amps
- Cable capacity: 4 - 1/0



Order No.	MFG No.	Description
380-1610	05040	Complete Connector Set
380-1620	05043	Male Half
380-1615	05046	Female Half

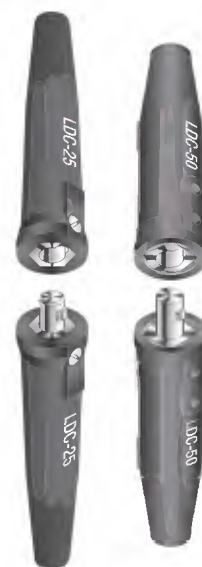
CABLE CONNECTORS

INTERNATIONAL DINSE TYPE

- Black



Order No.	MFG No.	Description	Male End Diameter	Cable Capacity	Cable Connection	Amp Capacity
LDC-25						
TTT957	05420	Complete Unit	0.355 (9.0 mm)	No. 8 thru No. 4 (10-25 mm²)	Single Oval-Point Screw	150
TTT958	05423	Male Half				
TTT959	05426	Female Half				
LDC-50						
TTT960	05430	Complete Unit	0.508 (12.9 mm)	No. 4 thru No.1/0 (20-50 mm²)	Single Oval-Point Screw	250
TTT961	05433	Male Half				
TTT962	05436	Female Half				
LDC-70						
TTT963	05440	Complete Unit	0.508 (12.9 mm)	No. 1/0 thru No. 2/0 (50-70 mm²)	Single Oval-Point Screw	350
TTT964	05443	Male Half				
TTT965	05446	Female Half				
LDC-95						
TTT966	05450	Complete Unit	0.508 (12.9 mm)	No. 3/0 thru No. 4/0 (70-95 mm²)	Double Oval-Point Screw	500
TTT967	05453	Male Half				
TTT968	05456	Female Half				





CABLE CONNECTORS

CONNECTOR TERMINALS

- Offer the advantage of quickly connecting or disconnecting welding cable at the power source
- Used in place of solder-type lugs and secured directly to the studs of the welder
- The Male half of a cable connector is attached to welding cable and is inserted into the terminal
- 17/32" stud hole diameter
- **TTT986 & TTT987** are designed for male *Dinse* type connectors



Order No.	MFG No.	Style	Used with Male Connector
380-1520	CT-10FA	Angle	LC-10
TTT985	CT-10FS	Straight	LC-10
380-1530	CT-40FA	Angle	LC-40 or LC-40HD
380-1535	CT-40FS	Straight	LC-40 or LC-40HD
TTT986	LDCT-50FA	Angle	LDC-50/70/95
TTT987	LDCT-50FS	Straight	LDC-50/70/95

ADAPTERS & RECEPTACLES

ADAPTERS

Offers one-piece adapters which have a *Dinse* type male (power source, 0.355 or 0.508 dia.) on one end and a *Lenco*® female LC-10, LC-40/LC-40HD on the opposite end.



Order No.	MFG No.	Male End Diameter"	Cable Capacity
TTT969	LDA	0.508 (12.9mm)	<i>Dinse</i> Male/LC-40/40HD Female
TTT970	LDA-10	0.508 (12.9mm)	<i>Dinse</i> Male/LC-10 Female
TTT971	LDA-2510	0.355 (9.0mm)	<i>Dinse</i> Male/LC-10 Female
TTT972	LDA-2540	0.355 (9.0mm)	<i>Dinse</i> Male/LC-40 Female

RECEPTACLES

- Panel receptacles

Order No.	MFG No.	Description	Male End Diameter"	Fits Cable Connector
TTT973	LDPM-25	Female	0.355 (9.0mm)	LDP-25M
TTT974	LDPM-50	Female	0.508 (12.9mm)	LDP-50/70/95M
TTT975	LDPM-50-M	Male	0.508 (12.9mm)	LDC-50/70/95 Female

MACHINE PLUGS

INTERNATIONAL DINSE TYPE

- International style connectors for secondary connections
- For use with No. 8 (10 mm²) through 4/0 (95 mm²) AWG size cable
- Available in black, red or set (black and red)



Black	Order No.		MFG. No	Interchangeable with the following Models				Miller	
	Red	Set		Dinse	ESAB/Airco	Lincoln	M.K. Product	Female	Male
TTT976	TTT978	TTT981	LDP-25M	Dix SK 25	160360895	S19301-6	N/A	127835	127836
380-1751	TTT979	TTT982	LDP-50M	Dix SK 50	N/A	N/A	N/A	129526	129527/042418
380-1753	380-1754	TTT983	LDP-70M	Dix SK 70	13792513	K-852-70	153-0755	136600	134460/042533
TTT977	TTT980	TTT984	LDP-95M	Dix SK 95	13792513	K-852-95	N/A	138180	138181/042574

DINSE CONNECTOR DATA/SPECIFICATIONS

Connector Size	Male Plug Dia.	Cable Capacity	Type of Cable Connection	Amp Capacity
All 25	0.355 (9.0 mm)	No. 8 thru No. 4 (10-25 mm ²)	Single Oval-Point Screw	150
All 50	0.508 (12.90 mm)	No. 4 thru No. 1/0 (25-50 mm ²)	Single Oval-Point Screw	250
All 70	0.508 (12.90 mm)	No. 1/0 thru No. 2/0 (50-70 mm ²)	Single Oval-Point Screw	350
All 95	0.508 (12.90 mm)	No. 2/0 thru No. 4/0 (10-25 mm ²)	Double Oval-Point Screw	500



HAMMER-ON LUGS

- Manufactured from heavy wall cast copper alloy, annealed for maximum conductivity
- Fast, easy installation, just slide into cable and strike it with hammer for durable connection



Order No.	For AWG Cable Sizes
NT606	1 to 4
NT605	1/0, 2/0
NT604	3/0, 4/0

SOLDER/CRIMP LUGS

- Manufactured from heavy wall copper alloy, annealed for maximum conductivity
- Long length and flared ends make installation fast and easy



Order No.	For AWG Cable Sizes
PB132	1 to 4
PB131	3/0, 4/0



EXCELENE® WELDING CABLE - 105° C/600V

- For connections from electrode holder and clamp to arc welder, bus, welding box or transformer
- Extra flexible for long life
- Conductor: Extra flexible, 30 AWG (class K) stranded annealed uncoated copper per ASTM B-172
- Jacket: Ethylene propylene diene monomer (EPDM) rubber; black

- Resistant to chemicals, oils, and acids and is also weather, ozone and sunlight-resistant
- Separator: Paper
- Temperature: 105°C to -50°C
- Voltage: 600 volts
- **Sold and priced per full reel length**



RECOMMENDED MINIMUM COPPER WELDING CABLE SIZE

Welding Current AMPS	Length of cable in circuit feet - Total of both electrode and ground cable									
	50	100	150	200	250	300	350	400	450	500
100	4	4	4	2	2	1	1/0	1/0	2/0	2/0
150	4	4	2	1	1/0	2/0	3/0	3/0	4/0	4/0
200	2	2	1	1/0	2/0	3/0	4/0			
250	2	2	1/0	2/0	3/0	4/0				
300	1	1	2/0	3/0	4/0					
350	1/0	1/0	3/0	4/0						
400	2/0	2/0	3/0							
500	3/0	4/0	4/0							
600	4/0	4/0								

Amp capacities are based on 105° C conductor temp., 40° C ambient air / 50% duty cycle and approximate voltage drop of 4V @ 25° C conductor temp. or 5VB @ 105° C conductor temp.



Order No.	AWG Size	Nominal O.D."	Reel Size'
TTU106	# 4 Cable	0.375	300
TTU107	# 2 Cable	0.44	300
TTU108	# 1 Cable	0.515	300
TTU109	# 1/0 Cable	0.55	300
TTU110	# 2/0 Cable	0.59	300
TTU111	# 4/0 Cable	0.725	300

HIGH-LEVERAGE CABLE CUTTER

- High-leverage jaws with shear-cut blades
- Cuts up to: 4/0 aluminum cable (not ACSR), 2/0 soft copper cable
- Plastic covered, non-slip grips
- Compact cutter fits in most tool pouches
- NOT an insulated tool
- Overall length: 9 1/2"

Order No. **TBG092**
MFG No. 0890CSJ

H.K. Porter®



RATCHET-TYPE CABLE CUTTER

- Compact size cutter
- Ratchet-type jaws with shear-cut blades
- Cuts copper and aluminum cleanly, leaving no burrs or sharp edges
- Cuts up to a maximum: 1000 MCM aluminum (not ACSR), 750 MCM copper
- Quick release allows discontinuation of cutting without completing the full cutting cycle
- Overall length: 10 1/2"

Order No. **TBG188** MFG No. 5090FS

H.K. Porter®



INDUSTRIAL-DUTY SCRATCH BRUSHES

- Wood handle
- Choice of carbon or stainless steel bristles
- 12 per box

Order No.	Bristles	Rows
LONG HANDLE BRUSHES		
NT607	Carbon Steel	3 x 19
NT608	Carbon Steel	4 x 19
NT611	Stainless Steel	3 x 19
NT612	Stainless Steel	4 x 19
SHOE HANDLE BRUSHES		
NT609	Carbon Steel	3 x 16
NT610	Carbon Steel	4 x 16
NT613	Stainless Steel	3 x 16
NT614	Stainless Steel	4 x 16
"TOOTHBRUSH" CLEANING BRUSH		
NT615	Stainless Steel	3 x 7



Long Handle



Shoe Handle



"Toothbrush"

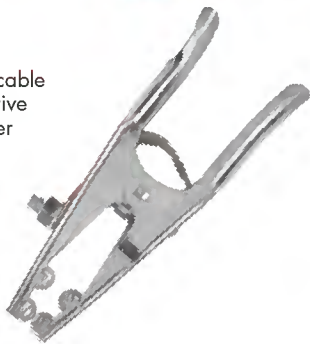




GROUND CLAMPS

GROUND CLAMPS

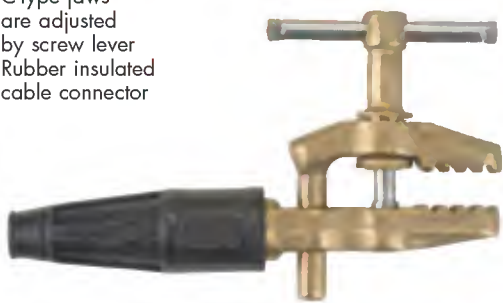
- Manufactured from nickel-plated steel with forged brass conductors
- Heavy-duty springs provide positive strength at jaws
- **NT661** is ideal for farm welder and light shop work; current flows directly from lower jaw to welding cable
- **NT662** is ideal for portable gas drive welders; braided zinc coated copper strap carries current to both upper and lower jaws, fully insulated hinge and spring prevents arcing



Order No.	Amps
NT661	300
NT662	500

HEAVY-DUTY "C-STYLE" GROUND CLAMP

- C-type jaws are adjusted by screw lever
- Rubber insulated cable connector



Order No.	Amps
NT665	600



HEAVY-DUTY GROUND CLAMPS

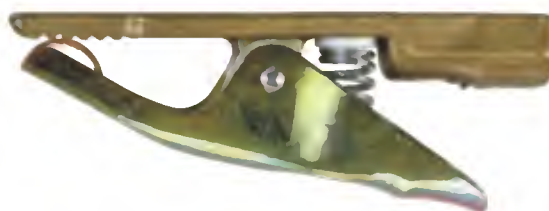
- Manufactured from heavy-duty nickel-plated steel with forged brass conductors and braided copper strap to carry current to upper jaw
- Heavy-duty spring provides positive contact at jaws
- Cable is easy to install with built-in cable connector and oval point screw
- Allen-type wrench included



Order No.	Amps
PB177	200
NT668	300
NT669	500

JACKSON GROUND CLAMPS

- Double-lock clamps have forged copper alloy conductors
- High clamping pressure and long "finger-grip" levered handles for easy jaw opening
- Extra large contact areas for greater conductivity
- Fully insulated pivots and springs



Order No.	MFG No.	Amps	Cable Capacity	Jaw Capacity"
140-1775	GC-2	200	4 - 1/0	1 1/4
140-1780	GC-3	300	1/0 - 2/0	1 5/8
140-1785	GC-5	500	3/0 - 4/0	2

LENCO GROUND CLAMPS

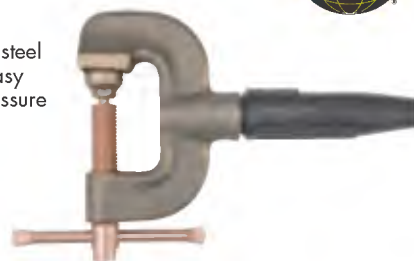
- Large contact area
- Serrated upper and lower jaws insure maximum bite to the work
- High copper alloy jaws assure excellent current carrying ability
- Tough brass hinge pin
- Insulated, enclosed heavy-duty spring
- Mechanical oval-point screw cable connection



Order No.	MFG No.	Amps	Cable Capacity	Jaw Opening"
380-1425	200	200	4 - 1/0	1
380-1430	300	300	1/0 - 2/0	1 1/2
380-1435	400	500	3/0 - 4/0	1 1/2

LENCO MIG-600 GROUND CLAMP

- Designed especially for the MIG welding process
- Powerful bite and swivel pad allows for low resistance ground connections
- Full two-inch opening with a copper coated steel pressure screw
- 5/16" copper coated steel "T" handle makes it easy to apply maximum pressure
- Cable attaches with two oval-point screws and comes with connector insulator

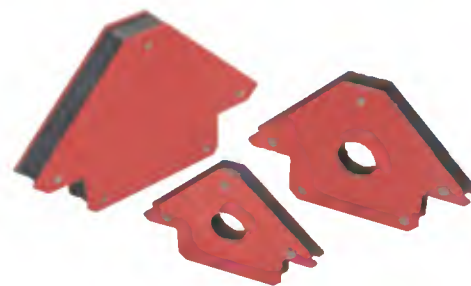


Order No.	MFG No.	Amps	Cable Capacity
380-1950	MIG-600	600	3/0 - 4/0



MAGNETIC HOLDERS

- Multi-purpose holders for assembly and positioning
- Adheres to any metal object
- Ideal for welding, soldering, assembly, pipe insulation



No order	Description	Dimensions"
NT626	Medium	5 x 3,25 x 0,5
NT627	Large	6,25 x 4 x 0,75
NT628	X-Large	8 x 5 x 1

MAGNETIC WELDING SQUARES

- Provides fast set-up and accurate holding of steel sheet stock, plate and tubing for welding
- Holds work pieces at 45°, 90°, 135° and 180° angles
- TGY629 and TGY630 feature "Breakaway Handle"

Holds pieces at 10 angles:

30°, 45°, 60°, 75°, 90°, 105°, 120°, 135°, 150° and 180°.

TGY626

TGY629

TGY625



TGY630



Order No.	Description	Pull lbs.	L"	H"	W"
TGY624	10 Angle	23	3 1/8	2 9/16	1/2
TGY625	Standard	55	3 3/8	3 3/8	5/8
TGY626	Adjustable	110	6 1/8	3 3/8	5/8
TGY627	Standard HD	75	3 3/4	4 3/8	3/4
TGY628	Covered HD*	75	3 3/4	4 3/8	3/4
TGY629	Extra HD	150	3 3/4	4 3/8	1 1/2
TGY630	Super HD*	325	8	8	1 5/8

*Weld spatter resistant covers on certain models

MAGNETIC ACTIVATED GROUND

- Rated at 450 amps @ 100% duty cycle and 600 amps @ 20% duty cycle
- 360° rotation around the electrode for improved placement and movement of clamp
- Built-in pipe boot for use inside and outside pipe
- Dual-sided, built-in scraper cleans away rust and debris for solid contact
- One-handed on/off switch



Order No.	MFG No.
TTU076	MAG-450



WESTERN ENTERPRISES

MAGNETIC WELDING GROUNDS

- Powerful magnet attaches securely to your steel work surface
- Spring loaded 1/2" diameter stud assures constant electrical ground contact



Order No.	Holding Cap. lbs.	Stud Type Amperage	Dia."	H"
TGY631	35	250 A/Brass	3 1/2	2 1/4
TGY632	35	800 A/Copper	3 1/2	2 1/4

ROTARY GROUND CLAMP PUTS AN END TO TANGLED GROUND LEADS

- Rotary head turns with the pipe, puts an end to ground lead twist, tangle and wear
- Provides quick, positive ground for roll-out welding of pipe and fittings, eliminates weld pinholes caused by poor grounding
- Attaches and detaches in seconds
- Makes up ground leads three ways—lug, clamp-on and bare cable
- Positive anti-arc bearings take loads up to 400 amps



Order No.	MFG No.	Description
432-1025	780435	ST-107 Rotary Ground Clamp



AIR CARBON-GOUGING TORCH

For gouging, cutting, beveling, piercing and flushing metal.

- Economical air carbon-arc cutting process
- Can be used on most metals
- Chemical change are virtually nil, as the process is primarily physical

AIR REQUIREMENTS

Ordinary compressed air as supplied by a shop airline or compressor is suitable. Most applications require 80-100 PSI.

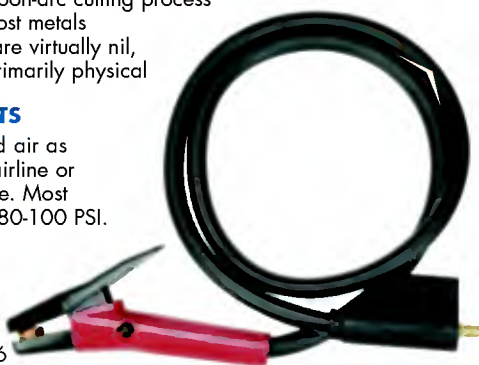
Air

PSI:	80
kg/cm ² :	5.6
CFM:	35
CMM:	0.076

Compressor

Intermittent:	5HP (3.73 KW)
Continuous:	7.5HP (5.60 KW)

Order No.	Amps
NT667	800



AIR CARBON GOUGING ELECTRODES

- Consistent copper-coating insulates against side burn through, offers improved conductivity
- Used for gouging out defective welds and cutting non-ferrous metals
- Electrodes are 12" in length
- Sold per package



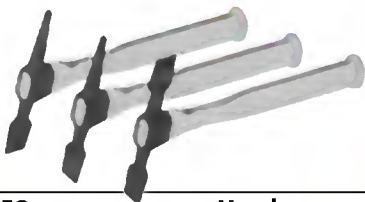
Order No.	Dia."	Qty/Pkg.
NT632	5/32	100
NT633	3/16	50
NT634	1/4	50
NT635	5/16	50
NT636	3/8	50
NT637	1/2	50



PLASTIC HANDLE CHIPPING HAMMERS

- High impact thermoplastic handles reduce impact sting
- Outlast standard wood handles
- Easy-to-find bright yellow colour
- Forged steel head, 11 7/8" overall length

380-1880



Order No.	MFG No.	Head Style	Weight oz.
380-1865	LPHCM	Cross Chisel & Pick	20
380-1875	LPHH	Chisel & Pick	16
380-1880	LPHHC	Cross Chisel & Pick	16
380-1870	LPHG	Chisel & Cross Chisel	20

CHIPPING HAMMER

- Cone and chisel head
- Spring steel handle
- Head length: 6 1/4"
- Overall length: 10 1/2"

Order No. NP532



ATLAS STEEL GRIP TOMAHAWKS®

- Heads are pinned to shafts
- Flex-O steel coil hand grips
- Head length: 6 1/2"
- Overall length: 10 1/2"



Order No.	MFG No.	Head Style
PB134	G	Chisel & Cross Chisel
PB135	H	Cone & Chisel
PB136	HCP	Cone & Cross Chisel



ATLAS STAINLESS TOMAHAWKS®

- Stainless steel (420) forged heads conform to weld code requirements for food processing equipment, nuclear plants and other industries welding stainless steel
- Flex-O steel coil handle
- Head length: 6 1/2"
- Overall length: 10 1/2"



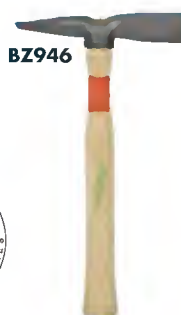
Order No.	MFG No.	Head Style
378-1120	HSS	Cone & Chisel





ATLAS LONG-NEK TOMAHAWKS®

- "Fit-the-hand" hickory handle
- Deep neck steel head design offers 50% greater handle support and protection from splinter when working over edges
- 12" overall length



BZ946



PB139



378-1245



BZ945

Order No.	MFG No.	Head Style	Head Length"
BZ946	WH-10	Chisel & Cross Chisel	7
BZ945	WH-20	Cone & Chisel	7 3/4
PB139	WH-30	Cone & Cross Chisel	7 3/4
378-1245	WH-40	Cone & Cross Chisel	8 1/4
378-1055	26	Replacement Handle	

MULTI-PURPOSE MIG PLIERS

- Eight-way pliers
- Nickel plated finish
- Ideally suited for removal of hot spatter from nozzle ends, as well as many other uses



Order No.	Description
NP537	Pliers
NT666	Holster for pliers

MIG NOZZLE REAMER

- Cleans hot MIG nozzle on the torch
- Self adjusting to fit all size nozzles
- Expanding spring steel cleaner

Order No. NP535



ELECTRICAL PLUG & RECEPTACLE

- For use with copper or aluminum wire
- Plug - Universal angle ground, 50 amps, 250 volts, male
- Receptacle - 50 amps, 250 volts



Order No.	MFG No.	Description
NP495	42	Plug
NP496	1252	Receptacle

MATADOR® WELDER'S PLIERS

- Ideal for installing tips, nozzles and bushings, cutting and hammering
- Universal use for all wire feed guns
- Vanadium-steel construction is tough, durable
- Satin finish reduces rust



Order No.	MFG No.	Description
899-1700	4705008	Matador® Pliers

77777



MIG GUNS

- Recommended for applications using solid and flux core wire
- Guns are complete with 15' cable length
- A complete selection of replacement parts for most brands of guns is available
- Contact us for pricing on guns with different amperage ratings or cable lengths

CM INDUSTRIES[®]
INC.



BERNARD[®] STYLE REPLACEMENT AIR COOLED MIG GUNS

200 AMPS

Rating:

- 200 Amps CO₂ @ 100% duty cycle
- 150 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.023" – 0.045"

300 AMPS

Rating:

- 300 Amps CO₂ @ 100% duty cycle
- 250 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.030" – 0.062"

350 AMPS

Rating:

- 350 Amps CO₂ @ 100% duty cycle
- 250 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.030" – 0.062"

400 AMPS

Rating:

- 400 Amps CO₂ @ 100% duty cycle
- 300 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.035" – 5/64"



Order No.	MFG No.	Feeder Plug
200 AMPS		
379-4395	B2-4215A	Bernard DP
379-1101	B2-4215AM	Miller DP
379-4510	B2-4215AE	Euro DP
379-4201	B2-4215AL	Lincoln DP
TTT009	B2-4215AWM	Lincoln Wirematic
TTT010	B2-4215AT	Tweco DP
300 AMPS		
NT172	B2-4315A	Bernard DP
NT174	B2-4315AM	Miller DP
NT173	B2-4315AE	Euro DP
NT204	B2-4315AL	Lincoln DP
TTT011	B2-4315AWM	Lincoln WM 250
NT175	B2-4315AT	Tweco DP

Order No.	MFG No.	Feeder Plug
350 AMPS		
379-4570	B2-43515A	Bernard DP
379-1113	B2-43515AM	Miller DP
TTT012	B2-43515AE	Euro DP
379-4223	B2-43515AL	Lincoln DP
TTT013	B2-43515AWM	Lincoln Wirematic
379-4920	B2-43515AT	Tweco DP
400 AMPS		
TW978	B2-4415A	Bernard DP
TW983	B2-4415AM	Miller DP
TW979	B2-4415AE	Euro DP
TW981	B2-4415AL	Lincoln DP
TW984	B2-4415AT	Tweco DP

BERNARD[®] STYLE CONSUMABLES



Contact Tip

Order No.	MFG No.	Description	Size"	200 AMPS	300 AMPS	350 AMPS	400 AMPS
NT179	B7488	Contact Tip	0.030	X	X	X	
NT180	B7489	Contact Tip	0.035	X	X	X	X
NT181	B7490	Contact Tip	0.045	X	X	X	X
NT182	B7491	Contact Tip	1/16	X	X	X	X
PB048	B7492	Contact Tip	5/64				X
PB050	B7494	Contact Tip	7/64				X
PB052	B7496	Contact Tip	0.040	X	X	X	X
NT183	B7497	Contact Tip	0.023	X	X	X	
PB054	B7498	Contact Tip	0.052	X	X	X	X
TTT074	B1588	Contact Tips, Long	0.030	X	X	X	
TW993	B1589	Contact Tips, Long	0.035	X	X	X	X
TW994	B1590	Contact Tips, Long	0.045	X	X	X	X
TW995	B1591	Contact Tips, Long	1/16	X	X	X	X
TW996	B1592	Contact Tips, Long	5/64				X
TW997	B1593	Contact Tips, Long	3/32				X
TW998	B1594	Contact Tips, Long	7/64				X
PB042	B1596	Contact Tips, Long	0.040	X	X	X	X
PB043	B1597	Contact Tips, Long	0.023	X	X	X	
PB044	B1598	Contact Tips, Long	0.052	X	X	X	X
TTT132	B4280	Contact Tips, Tapered	1/16	X	X	X	
379-1124	B4281	Contact Tips, Tapered	0.035	X	X	X	
TTT133	B4282	Contact Tips, Tapered	0.045	X	X	X	
TTT134	B4283	Contact Tips, Tapered	0.052	X	X	X	

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Continued on next page

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BERNARD® STYLE CONSUMABLES

Continued from previous page

CM INDUSTRIES®
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Nozzles



Gas Diffusers



Trigger Assembly



Liner Assembly

Order No.	MFG No.	Description	Size"	200 AMPS	300 AMPS	350 AMPS	400 AMPS
PB063	B4491	Nozzle, Brass, Standard	3/4 I.D.			X	X
PB064	B4591	Nozzle, Brass	3/4 I.D.			X	
NT177	B4391	Nozzle, Brass	5/8 I.D.	X	X		
NT178	B4393	Nozzle, Copper	5/8 I.D.	X	X		
BZ934	B4392	Nozzle, Brass, Standard	1/2 I.D.	X	X		
379-4224	B4394	Nozzle, Copper	1/2 I.D.	X	X		
PB059	B4492	Nozzle, Brass	9/16 I.D.			X	X
PB060	B4592	Nozzle, Copper	9/16 I.D.			X	X
379-1125	B4295	Nozzle, Brass	11/32 I.D.	X	X		
NT176	B4335	Head Assembly, Standard		X	X		
PB057	B4435	Head Assembly, Standard				X	X
379-1231	B7126	O-Ring		X	X		
379-1232	B7127	O-Ring				X	X
TTT135	B1510	Snap Ring					X
379-1233	B7360	Retaining Ring		X	X		
TTT136	B7560	Retaining Ring				X	X
PB055	B4235	Head Assembly for Long Contact Tip		X	X		
PB056	B4635	Head Assembly for Long Contact Tip				X	X
379-1140	B4323R	Silicone Cap, Standard		X	X		
379-1186	B4423R	Silicone Cap, Standard				X	X
379-1223	B4786	Body Tube Assembly		X	X		
TTT137	B4790	Body Tube Assembly				X	X
379-1222	B4780	Insulator Hex Nut		X	X	X	X
TTT877	B4238	Hang Up Hook		X	X	X	X
TTT423	B4438	Hang Up Hook		X	X	X	X
TTT138	B1880004	Handle Screw w/Nut					X
379-1225	B5662	Trigger Assembly		X	X	X	
TTT139	B5662M	Trigger Assembly, w/Microswitch		X	X		
379-1178	B4422	Trigger Assembly					X
379-1127	B43015	Liner Assembly, 15'	0.023 - 0.030	X	X		
379-1135	B43115	Liner Assembly, 15', Standard	0.035 - 0.045	X	X		
379-1139	B43215	Liner Assembly, 15'	0.045 - 0.062	X	X		
379-5840	B43115X	Liner Assembly, Teflon®, 15'	0.035 - 3/64	X	X	X	
379-1170	B44115	Liner Assembly, 15'	0.035 - 0.045			X	X
379-1175	B44215	Liner Assembly, 15'	0.045 - 0.062			X	X
TTT140	B44215X	Liner Assembly, Teflon®, 15'	0.045 - 0.062			X	X
379-1188	B44315	Liner Assembly, 15'	5/64				X
TTT141	B45615	Liner Assembly, 15'	7/64				X
TTT142	B44125	Liner Assembly, 25'	0.035 - 0.045				X
TTT143	B44225	Liner Assembly, 25'	0.045 - 0.062				X
379-6610	B44325	Liner Assembly, 25'	5/64				X
TTT144	B45425	Liner Assembly, 25'	3/32				X
TTT145	B43015T	Liner Assembly, 15', "T" Style	0.023 - 0.030	X	X		
379-1136	B43115T	Liner Assembly, 15', "T" Style	0.035 - 0.045	X	X		
379-1167	B43215T	Liner Assembly, 15', "T" Style	0.045 - 0.062	X	X		
TTT146	B43115XT	Liner Assembly, Teflon®, 15', "T" Style	0.035 - 3/64	X	X	X	
379-1171	B44115T	Liner Assembly, 15', "T" Style	0.035 - 0.045			X	X
379-5970	B44215T	Liner Assembly, 15', "T" Style	0.045 - 0.062			X	X
TTT147	B44215XT	Liner Assembly, Teflon®, 15', "T" Style	0.045 - 0.062			X	

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BINZEL® STYLE REPLACEMENT AIR COOLED MIG GUNS

- Guns are complete with 15' cable length

Rating:

- 290 Amps CO₂ @ 60% duty cycle
- 260 Amps mixed gas @ 60% duty cycle
- Wire capacity: 0.030" – 0.045"

Order No.	MFG No.	Feeder Plug
TTT014	700-26-015	Euro DP
TTT015	700-26-115	Lincoln DP
TTT016	700-26-M15	Miller DP
TTT017	700-26-T15	Tweco DP



CM INDUSTRIES
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CONSUMABLES



379-1725



379-4905

Order No.	MFG No.	Description	Size"
TTT148	150-06-120	Contact Tip, M6	0.024
TTT149	150-08-120	Contact Tip, M6	0.030
379-1725	150-09-120	Contact Tip, M6, Standard	0.035
TTT150	150-10-120	Contact Tip, M6	0.040
379-1740	150-12-120	Contact Tip, M6	0.045
TTT151	150-14-120	Contact Tip, M6	0.052
TTT152	150-16-120	Contact Tip, M6	0.062
379-1805	165-52-001	Nozzle, Conical, Standard	5/8 I.D.
379-1806	165-52-002	Nozzle, Cylindrical	3/4 I.D.
TTT154	165-52-011	Nozzle, Conical Small	9/16 I.D.
379-1815	165-52-111	Nozzle, Conical Super Small	7/16 I.D.
TTT155	160-06-026	Contact Tip Holder, M6, Standard	
TTT156	160-06-126	Contact Tip Holder, Long, M6	
TTT157	160-08-126	Contact Tip Holder, Long, M8, H.D.	
TTT158	046-26-001	Insulator/Gas Diffuser, Standard	
TTT159	051-26-045	Swan Neck, 45°, Standard	
TTT160	051-26-060	Swan Neck, 60°	
TTT161	047-00-100	Body Insulator	
TTT162	290-01-010	Hex Nut	
TTT163	300-05-004	Trigger Wire Connector, Large	
TTT164	170-66-002	Handle, Complete w/Screws & Nuts	
TTT165	170-66-000	Trigger Only	
TTT166	185-66-003	Replacement Switch Assembly	
TTT167	170-66-005	Handle Screw, Standard	
TTT168	170-66-009	Handle Nut, Standard	
TTT169	401-01-001	Liner Retaining Nut	
TTT170	241-26-016	Liner #26, 15'	0.024 - 0.035
379-1840	241-22-016	Liner #22, 15', Standard	0.035 - 0.045
TTT171	255-18-010	Liner #18, Teflon®, 10'	0.035
TTT172	255-18-012	Liner #18, Teflon®, 12'	0.035
379-4905	255-18-015	Liner #18, Teflon®, 15'	0.035
TTT173	255-10-010	Liner #10, Teflon®, 10'	0.045
TTT174	255-10-012	Liner #10, Teflon®, 12'	0.045
TTT175	255-10-015	Liner #10, Teflon®, 15'	0.045
TTT176	259-10-001	Replacement Collet, Teflon® Liner #10 & #18	

MILLER® STYLE REPLACEMENT AIR COOLED MIG GUNS

- Guns are complete with 15' cable length

150 AMPS

Rating:

- 150 Amps CO₂ @ 100% duty cycle
- 150 Amps mixed gas @ 60% duty cycle
- Wire capacity: 0.023" – 0.035"

250 AMPS

Rating:

- 250 Amps CO₂ @ 100% duty cycle
- 250 Amps mixed gas @ 60% duty cycle
- Wire capacity: 0.030" – 0.045"



CM INDUSTRIES
INC.

Order No.	MFG No.	Amps	Feeder Plug
TTT018	M169-593	150	Miller DP
NT206	M169-598	250	Miller DP

CONSUMABLES



379-M169-715



379-1050

Order No.	MFG No.	Description	Size"	150 Amps	250 Amps
NT168	M087-299	Contact Tip	0.023	X	X
NT165	M000-067	Contact Tip	0.030	X	X
NT166	M000-068	Contact Tip	0.035	X	X
NT167	M000-069	Contact Tip	0.045	X	X
379-M169-715	M169-715	Nozzle	1/2	X	
NT169	M169-724	Nozzle, 1/8" Tip Recess	1/2		X
NT170	M169-725	Nozzle, 1/8" Tip Recess	5/8		X
379-1050	M169-726	Nozzle, Flush	5/8		X
TTT177	M169-727	Nozzle, 1/8" Tip Stickout	5/8		X
379-1055	M169-729	Nozzle Retainer			X
TTT178	M170-467	Replacement Retaining Ring			X
TTT179	M170-468	Replacement O-Ring			X
TTT180	M169-716	Retaining Head		X	
TTT181	M170-470	Replacement Retaining Ring			X
TTT182	M170-471	Replacement O-Ring		X	
TTT183	M169-717	Shock Washer		X	
TTT184	M169-730	Shock Washer			X
TTT185	M169-718	Gooseneck, 45°		X	
TTT186	M169-731	Gooseneck, 45°			X
NT171	M169-728	Gas Diffuser			X
TTT188	M194-010	Liner Conduit, 15' 0.023 - 0.025		X	X
TTT189	M194-011	Liner Conduit, 15' 0.030 - 0.035		X	X
TTT190	M194-012	Liner Conduit, 15' 0.035 - 0.045		X	X
TTT191	M194-014	Liner Conduit, 15', 0.035 - 3/64 Aluminum			X

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TREGASKISS® STYLE REPLACEMENT AIR COOLED MIG GUNS

• Guns are complete with 15' cable length

300 AMPS

Rating:

- 300 Amps CO₂ @ 100% duty cycle
- 250 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.030" - 0.062"

Order No.	MFG No.	Feeder Plug
NT211	R3015-35	Tweco DP
NT212	RE3015-35	Euro DP
NT213	RLN3015-35	Lincoln DP
NT214	RM3015-35	Miller DP

400 AMPS

379-6705	R4015-45	Tweco DP
379-4830	RE4015-45	Euro DP
TTT019	RLN4015-45	Lincoln DP
TTT020	RM4015-45	Miller DP

400 AMPS

Rating:

- 400 Amps CO₂ @ 100% duty cycle
- 300 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.030" - 5/64"

Order No.	MFG No.	Feeder Plug
TTT021	R4015-45-6	Tweco DP
TTT022	RE4015-45-6	Euro DP
TTT023	RLN4015-45-6	Lincoln DP
TTT024	RM4015-45-6	Miller DP

500 AMPS

TTT025	R5015-45	Tweco DP
TTT026	RE5015-45	Euro DP
TTT027	RLN5015-45	Lincoln DP
TTT028	RM5015-45	Miller DP

500 AMPS

Rating:

- 500 Amps CO₂ @ 100% duty cycle
- 400 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.035" - 3/32"



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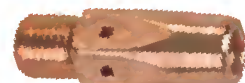
CONSUMABLES



Contact Tip



Nozzles



Diffuser

Order No.	MFG No.	Description	Size"
NP666	R403-23	Contact Tip	0.023
NT215	R403-30	Contact Tip	0.030
NT203	R403-35	Contact Tip	0.035
TTT192	R403-1.0	Contact Tip	0.040
NT202	R403-45	Contact Tip	0.045
NT205	R403-52	Contact Tip	0.052
NP658	R403-116	Contact Tip	1/16
TTT193	R403-2-23	Contact Tip, Tapered	0.023
TTT194	R403-2-30	Contact Tip, Tapered	0.030
TTT195	R403-2-35	Contact Tip, Tapered	0.035
TTT196	R403-2-1.0	Contact Tip, Tapered	0.040
TTT197	R403-2-45	Contact Tip, Tapered	0.045
NP659	R403-1-30	Contact Tip, Heavy-duty	0.030
NT196	R403-1-35	Contact Tip, Heavy-duty	0.035
TTT198	R403-1-1.0	Contact Tip, Heavy-duty	0.040
NT193	R403-1-45	Contact Tip, Heavy-duty	0.045
NP664	R403-1-52	Contact Tip, Heavy-duty	0.052
NT201	R403-1-116	Contact Tip, Heavy-duty	1/16
NP665	R403-1-564	Contact Tip, Heavy-duty	5/64
NP660	R403-1-332	Contact Tip, Heavy-duty	3/32
NP662	R403-1-364	Contact Tip, Heavy-duty	3/64
TTT199	R403-3-30	Contact Tip, Heavy-duty Tapered	0.03
TTT200	R403-3-35	Contact Tip, Heavy-duty Tapered	0.035
TTT201	R403-3-1.0	Contact Tip, Heavy-duty Tapered	0.040
TTT202	R403-3-45	Contact Tip, Heavy-duty Tapered	0.045
TTT203	R403-3-52	Contact Tip, Heavy-duty Tapered	0.052
TTT204	R403-3-116	Contact Tip, Heavy-duty Tapered	1/16
NP643	R401-4-38	Nozzle, Flush Tip	3/8
NT195	R401-4-50	Nozzle, 1/8" Tip Recess	1/2
NT197	R401-4-62	Nozzle, 1/8" Tip Recess	5/8
NT216	R401-4-75	Nozzle, 1/8" Tip Recess	3/4
NP652	R401-8-62	Nozzle, 1/8" Tip Stickout, Short Arc	5/8
TTT205	R401-42-50	Nozzle, Bottleneck 1/8" Tip Recess	1/2
TTT206	R401-44-50	Nozzle, Bottleneck 1/4" Tip Stickout	1/2
TTT207	R401-48-50	Nozzle, Bottleneck 1/8" Tip Stickout	1/2
NP646	R401-5-50	Nozzle, Heavy-duty, 1/4" Tip Recess	1/2
NP647	R401-5-62	Nozzle, Heavy-duty, 1/4" Tip Recess	5/8
NP648	R401-5-75	Nozzle, Heavy-duty, 1/4" Tip Recess	3/4
NP649	R401-6-50	Nozzle, Heavy-duty, 1/8" Tip Recess	1/2
NP650	R401-6-62	Nozzle, Heavy-duty, 1/8" Tip Recess	5/8
NP651	R401-6-75	Nozzle, Heavy-duty, 1/8" Tip Recess	3/4
TTT208	R401-7-62	Nozzle, Heavy-duty, 1/4" Tip Recess, Brass	5/8
TTT209	R401-7-75	Nozzle, Heavy-duty, 1/4" Tip Recess, Brass	7/8

Order No.	MFG No.	Description	Size"
TTT210	R401-7-87	Nozzle, Heavy-duty, 1/4" Tip Recess, Brass	7/8
NT200	R404	Gas Diffuser for Standard Tips	
TTT211	R404-10	Gas Diffuser w/Set Screw	
NT199	R404-1	Gas Diffuser for Heavy-duty Tips	
TTT212	R404-11	Gas Diffuser for Heavy-duty Tips w/Set Screw	
NT198	R402-3	Nozzle Retainer	
TTT213	R402-4	Replacement Retaining Ring	
TTT214	R402-6	Replacement O-Ring	
NT194	R404-3	Retaining Head, Heavy-duty	
TTT215	R404-13	Retaining Head, Heavy-duty w/Set Screw	
TTT216	R454-1-2	Retaining Ring, Replacement	
NP654	R402-5	Shock Washer, Heavy-duty	
TTT217	R305-45NB	Gooseneck 300 Amps, 45°	
NP642	R305-60NB	Gooseneck 300 Amps, 60°	
379-2012	R405-45NB	Gooseneck 400 Amps, 45°	
NP673	R405-60NB	Gooseneck 400 Amps, 60°	
TTT218	R405-180NB	Gooseneck 400 Amps, 180°	
TTT219	R505-45NB	Gooseneck 500 Amps, 45°	
TTT220	R505-60NB	Gooseneck 500 Amps, 60°	
TTT221	R505-180NB	Gooseneck 500 Amps, 180°	
379-2016	R407	Body	
379-2017	R407-2	Replacement Body Screw	
NP674	R410	Handle, Front and Rear	
NP675	R411-1	Switch Only	
NP676	R411-2	Switch Housing	
379-4216	R411-3	Mounting Screw	
TTT222	R408	Connector Cone	
TTT223	R409	Cone Nut	
NP680	R415-23-15	Liner Conduit, 15'	0.023
NP681	R415-30-15	Liner Conduit, 15'	0.030
NP684	R415-35-0	Liner, Teflon®, 15'	0.035 Aluminum
NP686	R415-35-2	Liner Conduit, 15'	0.035 Aluminum
NP685	R415-35-15	Liner Conduit, 15'	0.035
NP687	R415-35-25	Liner Conduit, 25'	0.035
NP677	R415-116-0	Liner, Teflon®, 15'	1/16 Aluminum
379-4680	R415-116-2	Liner Conduit, 15'	3/64 - 1/16 Aluminum
NP678	R415-116-15	Liner Conduit, 15'	0.045 - 1/16
NP679	R415-116-25	Liner Conduit, 25'	0.045 - 1/16
NP688	R415-564-15	Liner Conduit, 15'	1/16 - 5/64
NP689	R415-564-25	Liner Conduit, 25'	1/16 - 5/64
NP682	R415-332-15	Liner Conduit, 15'	5/64 - 3/32
NP683	R415-332-25	Liner Conduit, 25'	5/64 - 3/32

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19339E



TWECO® STYLE REPLACEMENT AIR COOLED MIG GUNS

- Guns are complete with 15' cable length

160 AMPS

Rating:

- 160 Amps CO₂ @ 80% duty cycle
- 100 Amps mixed gas @ 80% duty cycle
- Wire capacity: 0.023" – 0.045"

200 AMPS

Rating:

- 200 Amps CO₂ @ 100% duty cycle
- 150 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.023" – 0.045"

300 AMPS

Rating:

- 300 Amps CO₂ @ 100% duty cycle
- 200 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.030" – 0.062"

400 AMPS

Rating:

- 400 Amps CO₂ @ 100% duty cycle
- 300 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.030" – 5/64"

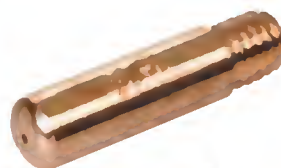


CONSUMABLES

Order No.	MFG No.	Description	Size"
160 AMPS			
379-1265	C11-23	Contact Tip	0.023
379-1270	C11-30	Contact Tip	0.030
379-1275	C11-35	Contact Tip, Standard	0.035
TTT224	C11-40	Contact Tip	0.040
379-1280	C11-45	Contact Tip	0.045
379-1285	C11H-35	Contact Tip, Heavy-duty	0.035
TTT227	C11H-45	Contact Tip, Heavy-duty	0.045
379-4209	C11T-23	Contact Tip, Tapered	0.023
TTT228	C11T-30	Contact Tip, Tapered	0.030
TTT229	C11T-35	Contact Tip, Tapered	0.035
TTT230	C11T-40	Contact Tip, Tapered	0.040
TTT231	C11T-45	Contact Tip, Tapered	0.045
379-1455	C21-50	Nozzle, Standard	1/2 I.D.
TTT232	C21-50-F	Nozzle, Flush	1/2 I.D.
379-1460	C21-62	Nozzle	5/8 I.D.
TTT233	C21-62-F	Nozzle, Flush	5/8 I.D.
379-1445	C21-37	Nozzle	3/8 I.D.
TTT234	C21-37-F	Nozzle, Flush	3/8 I.D.
379-1465	C21T-37	Nozzle Tapered	3/8 I.D.
TTT235	C21T-37-F	Nozzle Tapered, Flush	3/8 I.D.
379-1570	C35-50	Gas Diffuser, Standard	
TTT236	C35-60-45	Conductor Tube, 45°	
TTT237	C35-60-60	Conductor Tube, 60°, Standard	
TTT238	C35-60-180	Conductor Tube, 180°	
379-1488	C23-40-15	Liner Assembly, 15'	0.023
379-1569	C35-40-15	Liner Assembly, 15', Standard	0.035
TTT239	C45-40-15	Liner Assembly, 15'	0.045
TTT240	C35TF-40-10	Liner Assembly, Teflon® 10'	0.035
TTT241	C35TF-40-15	Liner Assembly, Teflon® 15'	0.035
TTT242	C45TF-40-10	Liner Assembly, Teflon® 10'	0.045
TTT243	C45TF-40-15	Liner Assembly, Teflon® 15'	0.045

CM INDUSTRIES® INC.

Order No.	MFG No.	Feeder Plug
160 AMPS		
TTT029	C35-15	No gun plug
TTT030	CC35-15	Century DP
TTT031	CL35-15	Lincoln SP100-185 DP
TTT032	CWM35-15	Lincoln Wirematic
TTT033	CSP35-15	Lincoln SP150/200DP
TTT034	CM35-15	Miller DP
TTT035	CT35-15	Tweco DP
TTT036	CX35-15	Euro DP
200 AMPS		
TTT037	C215-3035	Tweco plug
TTT038	CM215-3035	Miller DP
TTT039	CL215-3035	Lincoln "LN" DP
TTT040	CLPM215-3035	Lincoln Power MIG
TTT041	CWM215-3035	Lincoln Wirematic
TTT042	CX215-3035	Euro DP
300 AMPS		
NT189	C315-3545	Tweco plug
NT192	CM315-3545	Miller DP
NT207	CL315-3545	Lincoln "LN" DP
NT208	CH315-3545	Hobart DP
NT209	CX315-3545	Euro DP
400 AMPS		
379-1590	C415-3545	Tweco plug
379-1680	CM415-3545	Miller DP
TTT043	CL415-3545	Lincoln "LN" DP
TTT044	CH415-3545	Hobart DP
TTT045	CX415-3545	Euro DP



379-1265



379-1455



379-1570



379-1488

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Order No.	MFG No.	Description	Size"	200 Amps	300 Amps	400 Amps
200, 300 AND 400 AMPS						
NP602	C14-23	Contact Tip	0.023	X		
NP603	C14-30	Contact Tip	0.030	X	X	
NP604	C14-35	Contact Tip, Standard	0.035	X	X	X
NP605	C14-40	Contact Tip	0.040	X	X	X
NP606	C14-45	Contact Tip	0.045	X	X	X
NP608	C14A-364	Contact Tip, Aluminum	3/64	X	X	X
NP607	C14-52	Contact Tip	0.052		X	X
NP601	C14-116	Contact Tip	1/16		X	X
TTT244	C14-564	Contact Tip	5/64			X
NP611	C14H-35	Contact Tip, Heavy-duty	0.035	X	X	X
NP612	C14H-40	Contact Tip, Heavy-duty	0.040	X	X	X
NP613	C14H-45	Contact Tip, Heavy-duty	0.045	X	X	X
NP609	C14AH-364	Contact Tip, Heavy-duty, Aluminium	3/64	X	X	X
NP614	C14H-52	Contact Tip, Heavy-duty	0.052		X	X
NP610	C14H-116	Contact Tip, Heavy-duty	1/16		X	X
NP615	C14H-564	Contact Tip, Heavy-duty	5/64			X
TTT245	C14T-23	Contact Tip, Tapered	0.023	X		
TTT246	C14T-30	Contact Tip, Tapered	0.030	X	X	
379-1395	C14T-35	Contact Tip, Tapered	0.035	X	X	X
TTT247	C14T-40	Contact Tip, Tapered	0.040	X	X	X
379-1400	C14T-45	Contact Tip, Tapered	0.045	X	X	X
TTT248	C14T-52	Contact Tip, Tapered	0.052		X	X
TTT249	C14T-116	Contact Tip, Tapered	1/16			X
379-1475	C22-50	Nozzle, Adjustable, Standard	1/2 I.D.	X		
379-1480	C22-62	Nozzle, Adjustable	5/8 I.D.	X		
NP621	C24A-50	Nozzle, Adjustable	1/2 I.D.		X	X
NP622	C24A-62	Nozzle, Adjustable, Standard	5/8 I.D.		X	X
NP623	C24A-75	Nozzle, Adjustable	3/4 I.D.		X	X
TTT250	C22-37-SS	Nozzle, Short Stop	3/8 I.D.	X		
379-4960	C22-50-SS	Nozzle, Short Stop	1/2 I.D.	X		
TTT251	C22-62-SS	Nozzle, Short Stop	5/8 I.D.	X		
NP620	C24A-37-SS	Nozzle, Short Stop	3/8 I.D.		X	X
NP697	C24A-50-SS	Nozzle, Short Stop	1/2 I.D.		X	X
NP698	C24A-62-SS	Nozzle, Short Stop	5/8 I.D.		X	X
NP699	C24A-75-SS	Nozzle, Short Stop	3/4 I.D.		X	X
379-1485	C22T-37-SS	Nozzle, Tapered, Short Stop	3/8 I.D.	X		
NP700	C24AT-37-SS	Nozzle, Tapered, Short Stop	3/8 I.D.		X	X
NP616	C23-37	Nozzle, Self Insulated	3/8 I.D.	X	X	X
NP617	C23-50	Nozzle, Self Insulated	1/2 I.D.	X	X	X
NP618	C23-62	Nozzle, Self Insulated	5/8 I.D.	X	X	X
TTT252	C23-75	Nozzle, Self Insulated	3/4 I.D.		X	X
379-1500	C23T-37	Nozzle, Self Insulated, Tapered	3/8 I.D.	X	X	X
NP624	C24CT-37-S	Nozzle, Coarse Thread	3/8 I.D.	X	X	X
NP625	C24CT-50-S	Nozzle, Coarse Thread	1/2 I.D.	X	X	X
NP626	C24CT-62-S	Nozzle, Coarse Thread	5/8 I.D.	X	X	X
NP627	C24CT-75-S	Nozzle, Coarse Thread	3/4 I.D.		X	X
NP629	C34CT	Nozzle Insulator, Fixed Nozzle		X	X	X
379-1550	C32	Nozzle Insulator, Standard		X		
NP628	C34A	Nozzle Insulator, Standard			X	X
379-1630	C52	Gas Diffuser, Standard		X		
NT191	C54A	Gas Diffuser, Standard			X	X
379-1635	C52FN	Gas Diffuser for Fixed Nozzle		X		
TTT253	C44C	Replacement Set Screw			X	X
TTT254	C62A-45	Conductor Tube, 45°		X		
379-4490	C63-45	Conductor Tube, 45°			X	
379-4675	C64A-45	Conductor Tube, 45°				X
TTT255	C62A-60	Conductor Tube, 60°, Standard		X		
379-4565	C63-60	Conductor Tube, 60°, Standard			X	
379-1660	C64A-60	Conductor Tube, 60°, Standard				X
TTT256	C62A-45HD	Conductor Tube, Heavy-duty, 45°		X		
TTT257	C63-45HD	Conductor Tube, Heavy-duty, 45°			X	
TTT258	C64A-45HD	Conductor Tube, Heavy-duty, 45°				X
TTT259	C62A-60HD	Conductor Tube, Heavy-duty, 60°		X		
TTT260	C63-60HD	Conductor Tube, Heavy-duty, 60°			X	
TTT261	C64A-60HD	Conductor Tube, Heavy-duty, 60°				X
TTT262	C72A	Replacement Neoprene Insulation		X		
379-1662	C74A	Replacement Neoprene Insulation			X	X
TTT263	C62N	Replacement Gas Hose Nipple		X		
379-4815	C64N	Replacement Gas Hose Nipple			X	X
NP635	C83	Handle Case with Screws		X	X	
379-1665	C84A	Handle Case with Screws				X



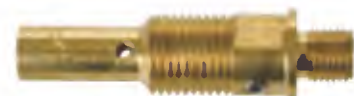
NP611



379-1400



379-1500



379-1635

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379-1600

Order No.	MFG No.	Description	Size"	200 Amps	300 Amps	400 Amps
200, 300 AND 400 AMPS						
379-4935	C122FM	Binder screw and post		X		
379-1303	C124FM	Binder screw and post			X	X
TTT264	C152	Gun hanger		X	X	
TTT265	C154	Gun hanger				X
NP637	C92	Trigger switch assembly		X	X	X
379-4500	C92C	Trigger switch blades, replacement		X	X	X
379-4495	C102	Cable connector block assembly		X	X	
379-4805	C104	Cable connector block assembly				X
TTT266	C244	Control wire terminal		X	X	X
379-1595	C42-3035-15	Liner assembly, 15', Standard	0.030 - 0.035	X		
NP631	C44-3545-15	Liner assembly, 15', Standard	0.035 - 0.045		X	X
379-1600	C42-4045-15	Liner assembly, 15'	0.040 - 0.045	X		
NP630	C44-116-15	Liner assembly, 15'	0.062		X	X
NP706	C44-564-15	Liner assembly, 15'	5/64			X
TTT267	C42-3035-25	Liner assembly, 25'	0.030 - 0.035	X		
TTT268	C42-4045-25	Liner assembly, 25'	0.040 - 0.045	X		
379-1618	C44-3545-25	Liner assembly, 25'	0.035 - 0.045		X	X
379-1610	C44-116-25	Liner assembly, 25'	0.062		X	X
TTT269	C44-564-25	Liner assembly, 25'	5/64			X
379-7010	C42N-3545-15	Liner assembly, Nylon, 15'	0.035 - 0.045	X		
NP633	C44N-3545-15	Liner assembly, Nylon, 15'	0.035 - 0.045		X	X
NP632	C44N-116-15	Liner assembly, Nylon, 15'	0.062		X	X

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CHANGING THE WIRE ASSEMBLY (LINER)

1. REMOVE MIG GUN
from wire feeder.
Lay in a straight line.

2. REMOVE NOZZLE,
contact tip and
diffuser/adaptor.

3. REMOVE OLD CONDUIT
from rear of gun.

4. UNCOIL REPLACEMENT
conduit and push
into rear of gun.

5. TRIM REPLACEMENT
conduit to the same length
as old liner. See MIG
gun manufacturer's
recommendations for
additional information.

21539E



BERNARD® Q-GUNS

- Designed from the ground up to solve problems, maximize productivity and improve bottom line
- Standard Bernard® Q-Guns are available with curved handle in 15' cable lengths with either rotatable or fixed necks

AMPERAGE RATINGS

100% NEMA	100% CE	Duty Cycle 60% CE	35% CE	Description
Q200				
250	200	240	325	CO ₂ Gas
N/A	175	200	240	80% Ar, 20% CO ₂
Q300				
350	320	370	470	CO ₂ Gas
N/A	270	310	390	80% Ar, 20% CO ₂
Q400				
400	350	425	520	CO ₂ Gas
N/A	285	350	440	80% Ar, 20% CO ₂

Rotatable Neck Order No.	MFG No.	Fixed Neck Order No.	MFG No.	Direct Plug
Q200				
TTT046	Q2015AB7EB	TTT050	Q2015AO7EB	Bernard®
TTT047	Q2015AB7EL	TTT051	Q2015AO7EL	Lincoln®
TTT048	Q2015AB7EM	TTT052	Q2015AO7EM	Miller®
TTT049	Q2015AB7ET	TTT053	Q2015AO7ET	Tweco®
Q300				
TTT054	Q3015AE7EB	TTT058	Q3015AR7EB	Bernard®
TTT055	Q3015AE7EL	TTT059	Q3015AR7EL	Lincoln®
TTT056	Q3015AE7EM	TTT060	Q3015AR7EM	Miller®
TTT057	Q3015AE7ET	TTT061	Q3015AR7ET	Tweco®
Q400				
TTT062	Q4015AE7IB	TTT066	Q4015AR7IB	Bernard®
TTT063	Q4015AE7IL	TTT067	Q4015AR7IL	Lincoln®
TTT064	Q4015AE7IM	TTT068	Q4015AR7IM	Miller®
TTT065	Q4015AE7IT	TTT069	Q4015AR7IT	Tweco®



Because MIG Guns Matter™



BERNARD® Q-GUN LINERS

REPLACEMENT JUMP LINERS

- Nylon liners available for aluminum wire

Order No.	MFG No.	Description	Wire Size"
TTT070	QJL-2330	Standard	0.023 - 0.030
360-7772	QJL-3545	Standard	0.035 - 0.045
TTT071*	QJLN-364	Nylon	0.035 - 0.045
360-7774	QJL-116	Standard	1/16
TTT072*	QJLN-116	Nylon	1/16

* For aluminum wire

REPLACEMENT LINERS

- Length: 15 feet

Order No.	MFG No.	Description	Amps	Wire Size"
360-4250	43015	Standard	150 - 600	0.023 - 0.030
360-4275	43115	Standard	150 - 600	0.035 - 0.045
360-4330	44115	Standard	200 - 600	0.035 - 0.045
360-4355	44215	Standard	200 - 600	0.045 - 1/16
360-4390	44315	Standard	200 - 600	5/64
360-4405	45415	Standard	500 - 600	3/32
360-4285	43115X	Standard	200 - 600	0.035 - 3/64 Aluminum
360-4365	44215X	Standard	200 - 600	3/64 - 1/16 Aluminum

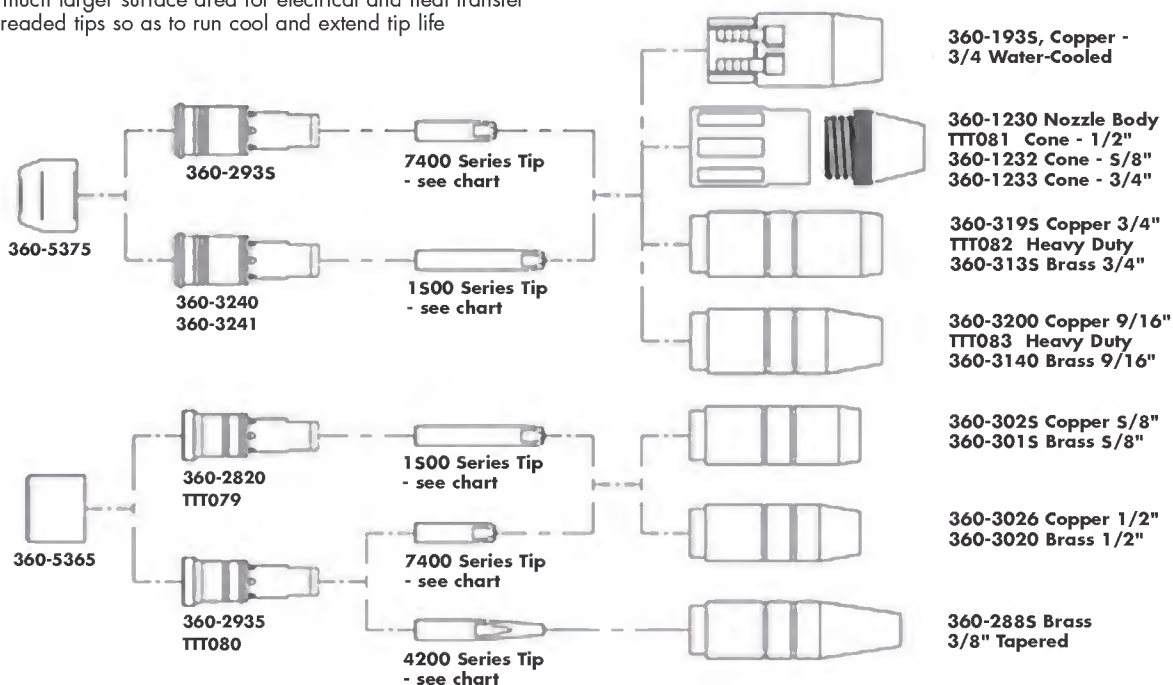




ELLIPTICAL CONSUMABLES

CONTACT TIPS

- Elliptical contact tips integrate with the Q-Gun's thermal transfer system to run cooler and last longer
- Engages the wall of the gas diffuser, locking firmly into place with a 1/4 turn
- Provides a much larger surface area for electrical and heat transfer than fine-threaded tips so as to run cool and extend tip life



Order No.	MFG No.	Description	Wire Size"
CONTACT TIPS, 1500 SERIES, 2.00" LONG HEAVY-DUTY			
TTT073	1597	Long Heavy-Duty 2.00"	0.023
TTT074	1588	Long Heavy-Duty 2.00"	0.030
360-2270	1589	Long Heavy-Duty 2.00"	0.035
360-2305	1596	Long Heavy-Duty 2.00"	0.039
360-2275	1590	Long Heavy-Duty 2.00"	0.045
360-2315	1598	Long Heavy-Duty 2.00"	0.052
360-2280	1591	Long Heavy-Duty 2.00"	1/16
TW996	1592	Long Heavy-Duty 2.00"	5/64
360-2290	1593	Long Heavy-Duty 2.00"	3/32
TW998	1594	Long Heavy-Duty 2.00"	7/64
TTT075	1595	Long Heavy-Duty 2.00"	1/8

CONTACT TIPS, 7400 SERIES, 1.25" LONG STANDARD			
360-3955	7497	Long Standard 1.25"	0.023
360-3910	7488	Long Standard 1.25"	0.030
BZ933	7489	Long Standard 1.25"	0.035
360-3950	7496	Long Standard 1.25"	0.039
360-3920	7490	Long Standard 1.25"	0.045
360-3960	7498	Long Standard 1.25"	0.052
360-3925	7491	Long Standard 1.25"	1/16
360-3930	7492	Long Standard 1.25"	5/64
360-3935	7493	Long Standard 1.25"	3/32
360-3940	7494	Long Standard 1.25"	7/64
360-3945	7495	Long Standard 1.25"	1/8

CONTACT TIPS, 4200 SERIES, 2.00" LONG TAPERED			
360-2865	4281	Long Tapered 2.00"	0.035
TTT077	4299	Long Tapered 2.00"	0.039
360-2870	4282	Long Tapered 2.00"	0.045
TTT078	4283	Long Tapered 2.00"	0.0528

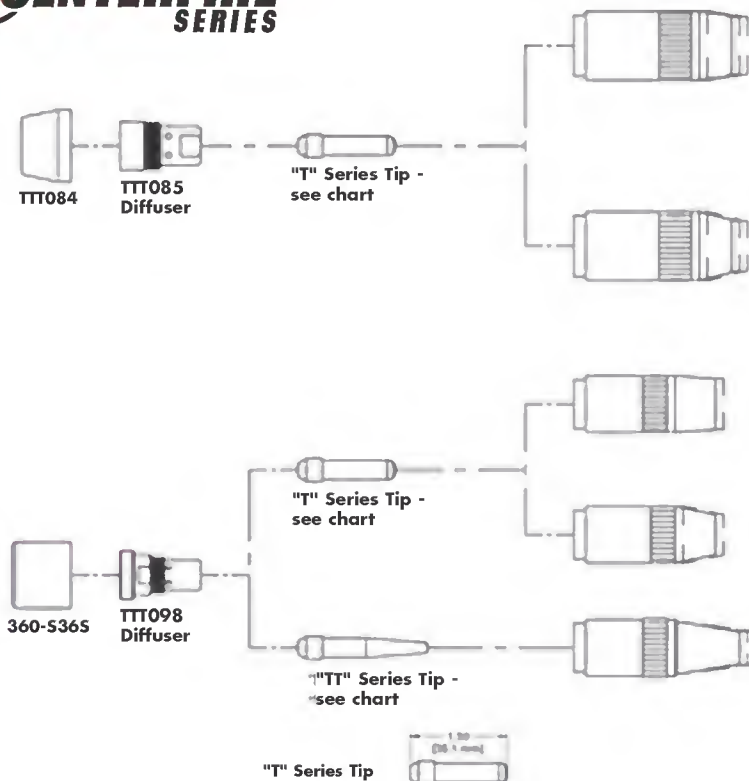
Order No.	MFG No.	Description	Wire Size"
CAPS			
360-5365	4323R	Insulator Cap for 200 and 300 Amps	
360-5375	4423R	Insulator Cap for 400 Amps	
DIFFUSER			
TTT079	4235-116	W/1500 Series Tip for 200 and 300 Amps	
360-3240	4635	W/1500 Series Tip for 400 Amps, 0.030 - 0.045 Wire Size	
360-3241	4635-116	W/1500 Series Tip for 400 Amps, 1/16" and Larger Wire Size	
TTT080	4335-116	W/7400 Series Tip for 200 and 300 Amps	
360-3080	4435	W/7400 Series Tip for 400 Amps	

HEAD ASSEMBLY			
360-2820	4235	Head Assembly for 1500 Series Contact Tip	
360-2935	4335	Head Assembly for 7400 & 4200 Contact Tips	
NOZZLE			
360-1935	1101QD	Copper, Water-Cooled	3/4
360-1230	36	Nozzle Body	-
TTT081	36-50	Nozzle Body Cone	1/2
360-1232	36-63	Nozzle Body Cone	5/8
360-1233	36-75	Nozzle Body Cone	3/4
360-3195	4591	Copper	3/4
TTT082	4591HD	Heavy-Duty	3/4
360-3135	4491	Brass	3/4
360-3200	4592	Copper	9/16
TTT083	4592HD	Heavy-Duty	9/16
360-3140	4492	Brass	9/16
360-3025	4393	Copper	5/8
360-3015	4391	Brass	5/8
360-3026	4394	Copper	1/2
360-3020	4392	Brass	1/2
360-2885	4295	Brass, Tapered	3/8



CENTERFIRE™ SERIES NOZZLES, TIPS & DIFFUSERS

- No tools required to replace tip or nozzle
- "Drop-In" tip with no threads means quick change after burnback, reducing down time
- Large diameter tip base and tapered seat provide better electrical conductivity and heat transfer
- Spatter shield within nozzle protects diffuser and gives smoother, less turbulent gas flow
- Solid, concentric relationship between tip and nozzle keeps tip centered even after hard use... and abuse
- Threaded nozzle holds tip fixed at 1/8" or 1/4" recess, flush, or 1/8" stick out
- Compatible with all standard air-cooled Bernard® guns
- Complete family of tips and nozzles is available to meet most of your welding needs



- TTU273 Copper Nozzle**
(3/4" I.D., Flush Tip)
- TTU037 Copper Nozzle**
(3/4" I.D., 1/8" Tip Recess)
- TTT092 Copper Nozzle**
(3/4" I.D., 1/4" Tip Recess)
- TTT093 Brass Nozzle**
(3/4" I.D., 1/8" Tip Recess)
- TTT094 Brass Nozzle**
(3/4" I.D., 1/4" Tip Recess)
- TTU274 Copper Nozzle**
(5/8" I.D., Flush Tip)
- TTU038 Copper Nozzle**
(5/8" I.D., 1/8" Tip Recess)
- TTT095 Copper Nozzle**
(5/8" I.D., 1/4" Tip Recess)
- TTT096 Brass Nozzle**
(5/8" I.D., 1/8" Tip Recess)
- TTT097 Brass Nozzle**
(5/8" I.D., 1/4" Tip Recess)
- TTT104 Brass Nozzle**
(5/8" I.D., 1/8" Tip Recess)
- TTT106 Brass Nozzle**
(1/2" I.D., Flush Tip)
- TTT105 Brass Nozzle**
(1/2" I.D., 1/8" Tip Recess)
- TTU275 Brass Nozzle**
(3/8" I.D., Flush Tip)
- TTT107 Brass Nozzle**
(3/8" I.D., 1/8" Tip Recess)
- TTU276 Brass Nozzle**
(3/8" I.D., 1/8" Tip Extension)

T SERIES

Order No.	MFG No.	Description	Wire Size"
DIFFUSERS			
TTT084	10012	Insulator Cap	
TTT085	D-1	Diffuser	
CONTACT TIPS			
TTT086	T-030	1.50" Long	0.030
TTT087	T-035	1.50" Long	0.035
TTT088	T-039	1.50" Long	0.039
TTT089	T-045	1.50" Long	0.045
TTT090	T-052	1.50" Long	0.052
TTT091	T-062	1.50" Long	1/16
NOZZLES			
TTU273	N-3400C	Copper, Flush Tip	3/4 I.D.
TTU037	N-3418C	Copper, 1/8" Tip Recess	3/4 I.D.
TTT092	N-3414C	Copper, 1/4" Tip Recess	3/4 I.D.
TTT093	N-3418B	Brass, 1/8" Tip Recess	3/4 I.D.
TTT094	N-3414B	Brass, 1/4" Tip Recess	3/4 I.D.
TTU274	N-5800C	Copper, Flush Tip	5/8 I.D.
TTU038	N-5818C	Copper, 1/8" Tip Recess	5/8 I.D.
TTT095	N-5814C	Copper, 1/4" Tip Recess	5/8 I.D.
TTT096	N-5818B	Brass, 1/8" Tip Recess	5/8 I.D.
TTT097	N-5814B	Brass, 1/4" Tip Recess	5/8 I.D.

TT SERIES

Order No.	MFG No.	Description	Wire Size"
DIFFUSERS			
360-5365	4323R	Insulator Cap	
TTT098	DS-1	Diffuser	
CONTACT TIPS			
TTT099	TT-030	2.00" Long	0.030
TTT100	TT-035	2.00" Long	0.035
TTT101	TT-045	2.00" Long	0.045
TTT102	TT-052	2.00" Long	0.052
TTT103	TT-062	2.00" Long	1/16
NOZZLES			
TTT104	NS-5818B	Brass, 1/8" Tip Recess	5/8 I.D.
TTT106	NS-1200B	Brass, Flush Tip	1/2 I.D.
TTT105	NS-1218B	Brass, 1/8" Tip Recess	1/2 I.D.
TTU275	NST-3800B	Brass, Flush Tip	3/8 I.D.
TTT107	NST-3818B	Brass, 1/8" Tip Recess	3/8 I.D.
TTU276	NST-38XTB	Brass, 1/8" Tip Extension	3/8 I.D.



TIG TORCHES & ACCESSORIES

Innovative "WP" silicone rubber insulated TIG welding torches

AIR (GAS) COOLED TORCHES

WP-24

Small, Lightweight

- Ideal for intricate work
- Reaches into tight places
- Handle mounted gas control valve
- Feather weight, but well balanced and durable
- Torch body head: 60° angle
- Torch length: 7 1/2"
- Max capacity: 80 amps
- Handle style: Ribbed

WP-9

Versatile, Lightweight for Thin Gauge Materials

- Quick-release tungsten adjustment
- Torch body head: 70° angle
- Torch length: 7"
- Max capacity: 125 amps
- Handle style: Ribbed



Description	Order No.	Weldcraft MFG No.	Amps	Max. Angle	Gas Valve
WP-24					
Torch Body					
W/insulating gasket	366-4669	WP-24	80	60°	No
W/insulating gasket and flexible head	TTT271	WP-24F	80	60°	No
W/insulating gasket, gas valve and flexible head	TTT272	WP-24FV	80	60°	Slide
Torch Packages - Torch body, handle, 25' power cable					
W/insulating gasket	TTT273*	WP-24-25-R	80	60°	No
W/insulating gasket and flexible head	TTT275*	WP-24F-25-R	80	60°	No
W/insulating gasket, gas valve and flexible head	TTT276*	WP-24FV-25-R	80	60°	Slide
WP-9					
Torch Body					
W/cup gasket	366-4249	WP-9	125	70°	No
W/cup gasket and gas valve	366-4378	WP-9V	125	70°	Knob & Stem
W/cup gasket and flexible head	366-4278	WP-9F	125	70°	No
W/cup gasket, gas valve and flexible head	366-4300	WP-9FV	125	70°	Knob & Stem
Torch Packages - Torch body, handle, medium back cap, 25' power cable					
W/cup gasket	366-4402*	WP-9-25-R	125	70°	No
W/cup gasket and gas valve	366-4399*	WP-9V-25-R	125	70°	Knob & Stem
W/cup gasket and flexible head	TTT277*	WP-9F-25-R	125	70°	No
W/cup gasket, gas valve and flexible head	366-4324*	WP-9FV-25-R	125	70°	Knob & Stem
WP-17					
Torch Body					
W/cup gasket	366-4438	WP-17	150	70°	No
W/cup gasket and gas valve	366-4513	WP-17V	150	70°	Knob & Stem
W/cup gasket and flexible head	366-4462	WP-17F	150	70°	No
W/cup gasket, gas valve and flexible head	366-4486	WP-17FV	150	70°	Knob & Stem
Torch Packages - Torch body, long back cap, handle, 25' power cable					
W/cup gasket	NP473	WP-17-25-2	150	70°	No
W/cup gasket and gas valve	NP474	WP-17V-25-2	150	70°	Knob & Stem
W/cup gasket	366-4459*	WP-17-25-R	150	70°	No
W/cup gasket and gas valve	366-4540*	WP-17V-25-R	150	70°	Knob & Stem
W/cup gasket and flexible head	366-4483*	WP-17F-25-R	150	70°	No
W/cup gasket, gas valve and flexible head	366-4510*	WP-17FV-25-R	150	70°	Knob & Stem
WP-26					
Torch Body					
W/cup gasket	366-4744	WP-26	200	70°	No
W/cup gasket and gas valve	366-4822	WP-26V	200	70°	Knob & Stem
W/cup gasket and flexible head	366-4774	WP-26F	200	70°	No
W/cup gasket, gas valve and flexible head	366-4795	WP-26FV	200	70°	Knob & Stem
Torch Packages - Torch body, long back cap, handle, 25' power cable					
W/cup gasket	NP475	WP-26-25-2	200	70°	No
W/cup gasket and gas valve	NP476	WP-26V-25-2	200	70°	Knob & Stem
W/cup gasket	366-4765*	WP-26-25-R	200	70°	No
W/cup gasket and gas valve	366-4843*	WP-26V-25-R	200	70°	Knob & Stem
W/cup gasket and flexible head	366-4792*	WP-26F-25-R	200	70°	No
W/cup gasket, gas valve and flexible head	366-4819*	WP-26FV-25-R	200	70°	Knob & Stem

* Power cable adapter must be ordered separately

21555E

TIG TORCHES & ACCESSORIES



WP-17

High Capacity for Thin to Medium Gauge Materials

- Compact and durable for field welding applications
- Ribbed handle for comfort and cool operation
- Finger tip gas control valve on WP-17V
- Torch body head: 70° angle
- Torch length: 7 3/4"
- Max capacity: 150 amps
- Handle style: Ribbed



WP-17

WP-26

Maximum Capacity for Continuous Heavy-Duty Use

- Heavy copper construction for rugged field work
- Torch body head: 70° angle
- Torch length: 8 1/2"
- Max capacity: 200 amps
- Handle style: Ribbed



WP-26

Power Cable	Accessory Kit	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
	AK-5 AK-5 AK-5				
1-Piece Rubber Jacketed 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed	AK-5 AK-5 AK-5			820-2265	CK25-25-R-FX
	AK-1 AK-1 AK-1 AK-1	363-1265 363-1905 363-1925 363-1950	ANVT-9 ANVT-9V ANVT-9F ANVT-9FV	820-1615 820-2070	CK90 CK90V
1-Piece Rubber Jacketed 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed	AK-1 AK-1 AK-1 AK-1	363-1895 363-1920 363-1945 363-1970	ANVT-9-25-R ANVT-9V-25-R ANVT-9F-25-R ANVT-9FV-25-R	820-1620	CK925VH
	AK-2 AK-2 AK-2 AK-2	363-1270 363-1275 363-1975	ANVT-17 ANVT-17V ANVT-17F	820-CK17FX 820-CK17V-FX	CK17FX CK17V-FX
2-Piece 2-Piece 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed	AK-2 AK-2 AK-2 AK-2 AK-2 AK-2	363-1400 363-1410 363-2020	ANVT-17-25-R ANVT-17V-25-R ANVT-17FV-25-R	820-1210 820-2155	CK17V-25-R CK17-25-R-FX
	AK-3 AK-3 AK-3 AK-3	363-1280 363-1640 363-2025 363-2050	ANVT-26 ANVT-26V ANVT-26F ANVT-26FV	820-1480	CK26
2-Piece 2-Piece 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed	AK-3 AK-3 AK-3 AK-3 AK-3 AK-3	363-1435 363-1460 363-2045 363-2070	ANVT-26-25-R ANVT-26V-25-R ANVT-26F-25-R ANVT-26FV-25-R	820-1485	CK26V-25-R



TIG TORCHES & ACCESSORIES

WATER COOLED

- Require cooling water flow of one quart per minute at a maximum of 50 PSI pressure.

WP-24W

Small Torch

- Ideal for cramped locations
- Fits through narrow openings yet excellent capacity
- Extremely light and well balanced
- Water cooling requirements: 1 quart per minute at maximum of 50 PSI pressure
- Torch body head: 70° angle
- Torch length: 7 1/2"
- Max capacity: 180 amps
- Handle style: Textured

WP-20

Lightweight, Small Durable

- Compact and well-balanced for general duty use
- Efficient around-the-head cooling for trouble free performance and long life
- Water cooling requirements: 1 quart per minute at maximum of 50 PSI pressure
- Torch body head: 70° angle
- Torch length: 7"
- Max capacity: 250 amps
- Handle style: Textured



Description	Order No.	Weldcraft MFG No.	Amps	Max. Angle	Gas Valve
WP-24W					
Torch Body					
W/insulating gasket	366-4726	WP-24W	180	70°	No
Torch Packages - Torch body, handle, 25' power cable & hoses					
W/insulating gasket	366-4732*	WP-24W-25	180	70°	No
W/insulating gasket	TTT278*	WP-24W-25-R	180	70°	No
WP-20					
Torch Body					
W/cup gasket	366-4597	WP-20	250	70°	No
W/cup gasket and gas valve	TTT279	WP-20V	250	70°	Knob & Stem
Torch Packages - Torch body, medium back cap, handle, 25' power cable & hoses					
W/cup gasket	NP477	WP-20-25	250	70°	No
W/cup gasket and gas valve	NP478	WP-20V-25	250	70°	Knob & Stem
W/cup gasket	366-4610*	WP-20-25-R	250	70°	No
WP-18					
Torch Body					
W/cup gasket	366-4543	WP-18	350	70°	No
W/cup gasket and gas valve	366-4585	WP-18V	350	70°	Knob & Stem
Torch Packages - Torch body, long back cap, 25' power cable & hoses					
W/cup gasket	NP479	WP-18-25	350	70°	No
W/cup gasket and gas valve	NP480	WP-18V-25	350	70°	Knob & Stem
W/cup gasket	TTT281*	WP-18-25-R	350	70°	No
W/cup gasket and gas valve	TTT282*	WP-18V-25-R	350	70°	Knob & Stem
WP-12					
Torch Body					
W/nozzle gasket	366-4405	WP-12	500	70°	No
Torch Packages - Torch body, long back cap, 25' power cable & hose assembly in rubber sheath					
W/nozzle gasket	366-4414*	WP-12-25	500	70°	No

* Power cable adapter must be ordered separately



WP-18

Work Horse for Continuous Duty

- Heavy-duty rugged production torch for continuous duty to 350 amps
- Water cooling requirements: 1 quart per minute at maximum of 50 PSI pressure
- Built-in fingertip gas control valve available on WP-18V models
- Torch body head: 70° angle
- Torch length: 9 1/4"
- Max capacity: 350 amps
- Handle style: Textured



WP-12

Totally Sealed Water Chamber with Heavy Duty Components

- Heavy-duty performer with a unique water cooling design
- Heavy-duty collets, collet bodies and gas lens
- Water cooling requirements: 1.5 - 2 quarts per minute at maximum of 50 PSI pressure
- Torch body head: 70° angle
- Torch length: 11 1/2"
- Max capacity: 500 amps
- Handle style: Smooth

Power Cable	Accessory Kit	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
1-Piece Rubber Jacketed	AK-5W AK-5W				
	AK-4 AK-4			820-1260 820-1265	CK200 CK200V
3-Piece Vinyl 3-Piece Vinyl 1-Piece Rubber Jacketed	AK-4 AK-4 AK-4			820-1405	CK225
	AK-3 AK-3	363-1285	ANVT-18	820-1505 820-1510	CK300 CK300V
3-Piece Vinyl 3-Piece Vinyl 1-Piece Rubber Jacketed 1-Piece Rubber Jacketed	AK-3 AK-3 AK-3 AK-3			820-1530 820-1545	CK325 CK325V
	AK-7				
Rubber	AK-7				



TIG TORCHES & ACCESSORIES

FLEX TORCHES

WATER-COOLED

- Modular design for easy low-cost repairs
- Tough copper head and coil assembly – runs cooler, lasts longer
- "Bellows" type boot for maximum flexibility
- Built-in restraining wire – resist leaking from coil and boot
- Built-in ball/stem gas control valve for greater control
- Ribbed handle for cool operation
- Heavy-duty, two-piece power cable for uninterrupted use
- Long neck option, **366-4735**, for extended reach requirements
- Maximum amperage is determined by torch assembly and head
- Hytril lined vinyl for heavy duty use and reinforced neoprene hose for increased durability and flexibility
- Torch assembly includes: **366-1315** and **366-2998** heads, power cable, water hose, gas hose, and handle

WELDCRAFT®

TORCH PACKAGE ASSEMBLY

Order No.	MFG No.	Power Cable'	Power Cable	Water Hose	Gas Hose
366-7040	SF-225-12	12	45V03	45V07	45V09
TTT283	SF-225-25	25	45V04	45V08	45V10
TTT284	SF-225-12-HD	12, Hytril Lined Vinyl	45V03HD	45V07HD	45V09
TTT285	SF-225-25-HD	25, Hytril Lined Vinyl	45V04HD	45V08HD	45V10
TTT286	SF-225-12-R	12, Reinforced Neoprene	45V03R	45V07R	45V09R
366-7200	SF-225-25-R	25, Reinforced Neoprene	45V04R	45V08R	45V10R

FLEXIBLE TORCH BODY

Order No.	MFG No.	Max. Amps
Torch Body , for use with interchangeable heads		
366-7000	SF-225	225

TORCH PACKAGE ASSEMBLY

Order No.	MFG No.	Power Cable'	Power Cable	Water Hose	Gas Hose
TTT287	WP-25-12	12	45V03	45V07	45V09
366-4741	WP-25-25	25	45V04	45V08	45V10
TTT290	WP-25-12-R	12, Reinforced Neoprene	45V03R	45V07R	45V09R

LONG REACH FLEX-PENCIL TYPE TORCH BODY

Order No.	MFG No.	Max. Amps
Torch Body		
366-4735	WP-25	200

INTERCHANGEABLE HEADS



TTT293



TTT294



TTT295



366-1315



366-2998

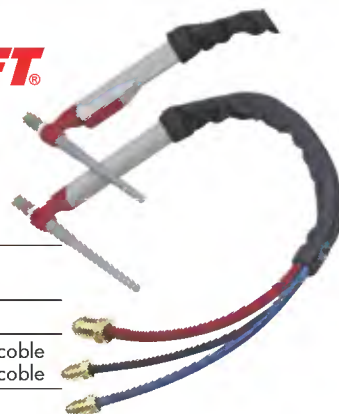
Order No.	MFG No.	Max. A/C	Amps W/C	Head Angle°	Fits
366-1315	9-70	125	200	70	WP-9, WP-9V WP-20 SF-225
TTT292	9P	125	200	180	WP-9, WP-9V WP-20 SF-225
TTT293	24	80	160	70	WP-24, WP-24W SF-225
366-2998	1726	150/200	225	70	WP-17, WP-17V WP-18, WP-18V, WP-26, WP-26V SF-225
TTT294	1726P	150/200	225	180	WP-17, WP-17V WP-18, WP-18V, WP-26, WP-26V SF-225
TTT295	24-90	80	160	90	WP-24, WP-24W SF-225



CRAFTER SERIES WATER-COOLED TORCHES

- Engineered for the professional TIG welder
- Potented integral double lip back cop seal, **Model CS310**, improves high frequency shielding and reduces gas leakage
- Self-indexing flat top handle lets you orient the torch by feel, improving comfort and torch control
- Reinforced rubber hose sets remain flexible in cold weather
- ColorSmart™ colour-coded hose set quickly identifies cold water, hot water return, power and gas
- Mechanical hose connections on the water and gas hoses eliminate the need for wire ties

WELDCRAFT®



Torch Pockages come assembled with:

CS310

- Torch body
- Handle
- Gas and water hoses
- Power cable
- #6 HPN nozzle
- 3/32" collet
- 3/32" collet body
- 3/32" x 7" tungsten electrode
- Long back cop
- Cable cover

CS410

- Torch body
- Handle
- Gas and water hoses
- Power cable
- #8 HPN nozzle
- 1/8" collet
- 1/8" collet body
- 1/8" x 7" tungsten electrode
- Long back cop
- Cable cover

Order No.	MFG No.	Amps	Description
CS310			
TTT296	CS310-12	310	Torch w/12' cable
366-3730	CS310-25	310	Torch w/25' cable
CS410			
TTT297	CS410-12	410	Torch w/12' cable
366-3745	CS410-25	410	Torch w/25' cable

LAVA NOZZLES (CERAMIC)

- Mode from grade "A" lava materials
- Less shock-and heat-resistant than alumino nozzles
- Functions in confined areas where excessive heat is reflected back into the nozzle
- Ideal for general applications
- Packed 10 nozzles per box

Order No.	Weldcraft MFG No.	Size	Orifice"	Fits Torch Series	Order No.	Weldmate MFG	Order No.	C-K MFG No.	
LAVA NOZZLES									
1 27/32" Length									
NP431	105Z43	4	1/4	WP-17, WP-17V,	363-1355	AN AN105Z44	818-2185	3C4	
NP432	105Z42	5	5/16	WP-18, WP-18V,			818-2210	3C5	
NP433	105Z44	6	3/8	WP-26, WP-26V			818-2230	3C6	
NP434	105Z45	7	7/16				818-2240	3C7	
NP435	08N78	8	1/2				818-2250	3C8	
NP430	08N79	10	5/8				818-2150	3C10	
TTT308	08N80	12	3/4		363-1340	AN AN08N80	TTT001	3C12	
1 5/32" Length									
NP437	13N14	4	1/4	WP-9, WP-9V,			818-1730	2C4	
NP438	13N15	5	5/16	WP-20,			818-1755	2C5	
NP439	13N16	6	3/8	WP-25,			818-1765	2C6	
NP440	13N17	7	7/16				818-1775	2C7	
NP441	13N18	8	1/2				818-1780	2C8	
NP436	13N19	10	5/8				818-1695	2C10	
5/8" Length									
TTT309	53N23	0.165	0.165	WP-24, WP-24W			818-2785	8C4	
366-2368	53N24	4	1/4					818-2800	8C5
366-2371	53N25	5	5/16					818-2805	8C6
366-2377	53N27	6	3/8						
1 1/8" Length									
366-2380	53N28	4L	1/4	WP-24, WP-24W			818-2795	8C4L	
366-2374	53N26	6L	3/8						
LONG LAVA NOZZLES									
3 7/32" Length									
NP456	12N03	4L	1/4	WP-17, WP-17V,			818-2205	3C4L	
NP457	105Z60	5L	5/16	WP-18, WP-18V,				818-2225	3C5L
NP458	12N02	6L	3/8	WP-26, WP-26V				818-2235	3C6L
NP459	105Z61	7L	7/16					818-2245	3C7L
1 7/8" Length									
366-2941	796F70	3L	3/16	WP-9, WP-9V,			818-1725	2C3L	
366-2926	796F71	4L	1/4	WP-20,				818-1750	2C4L
366-2929	796F72	5L	5/16	WP-25				818-1760	2C5L
366-2932	796F73	6L	3/8					818-1770	2C6L
2 1/2" Length									
TTT310	796F74	3XL	3/16	WP-9, WP-9V,					
NP414	796F75	4XL	1/4	WP-20,					
NP415	796F76	5XL	5/16	WP-25					
NP416	796F77	6XL	3/8						

NOTE: The nozzle number indicates the orifice (I.D. of the outlet end) in 1/16ths of an inch. No. 4 = 1/4" I.D.



NP431



NP435



NP437



NP457



TIG TORCHES & ACCESSORIES

ALUMINA NOZZLES

- Made from high strength alumina materials
- Very good electrical insulating properties
- Exceptionally high impact resistance, heat resistance and thermal conductivity

- Recommended for most welding operations except for use in confined area
- Resists splatter build-up
- Packed 10 nozzles per box

Order No.	Weldcraft MFG No.	Size	Orifice"	Fits Torch Series	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
ALUMINA NOZZLES								
1 27/32" Length								
NP395	10N50	4	1/4	WP-17, WP-17V,	363-1000	AN AN10N50	818-2050	3A4
NP396	10N49	5	5/16	WP-18, WP-18V,	363-1005	AN AN10N49	818-2060	3A5
NP397	10N48	6	3/8	WP-26, WP-26V	363-1010	AN AN10N48	818-2070	3A6
NP398	10N47	7	7/16		363-1015	AN AN10N47	818-2080	3A7
NP399	10N46	8	1/2		363-1020	AN AN10N46	818-2090	3A8
NP394	10N45	10	5/8		363-1025	AN AN10N45	818-2040	3A10
366-1477	10N44	12	3/4		363-1030	AN AN10N44	818-2045	3A12
1 5/32" Length								
NP464	13N08	4	1/4	WP-9, WP-9V,	363-1035	AN AN13N08	818-1615	2A4
NP465	13N09	5	5/16	WP-20,	363-1040	AN AN13N09	818-1625	2A5
NP466	13N10	6	3/8	WP-25	363-1045	AN AN13N10	818-1635	2A6
NP467	13N11	7	7/16		363-1050	AN AN13N11	818-1645	2A7
NP468	13N12	8	1/2		363-1055	AN AN13N12	818-1655	2A8
NP463	13N13	10	5/8		363-1060	AN AN13N13	818-1610	2A10
1 1/4" Length								
TTT298	14N57	4	1/4	WP-12				
TTT299	14N58	5	5/16					
366-1678	14N59	6	3/8					
366-1681	14N60	7	7/16					
366-1684	14N61	8	1/2					
366-1687	14N61-10	10	5/8					
366-1690	14N61-12	12	3/4					
5/8" Length								
TTT300	A53N24	4	1/4	WP-24, WP-24W				
TTT301	A53N25	5	5/16					
LONG ALUMINA NOZZLES								
3" Length								
NP445	10N49L	5L	5/16	WP-17, WP-17V,			818-3625	3A5L
NP446	10N48L	6L	3/8	WP-18, WP-18V,			TTT004	3A6L
NP447	10N47L	7L	7/16	WP-26, WP-26V			TTT005	3A7L
3" Length For Gas Lens								
NP442	54N17L	5L	5/16	WP-17, WP-17V,				
NP443	54N16L	6L	3/8	WP-18, WP-18V,				
NP444	54N15L	7L	7/16	WP-26, WP-26V				
2 5/8" Length								
TTT303	14N69	5L	5/16	WP-12				
TTT304	14N70	6L	3/8					
ALUMINA GAS LENS NOZZLES - ALSO ORDER INSULATOR								
1 5/8" Length								
NP384	54N18	4	1/4	WP-17, WP-17V,	363-1815	AN AN54N18	818-2115	3AG4
NP385	54N17	5	5/16	WP-18, WP-18V,	363-1810	AN AN54N17	818-2120	3AG5
NP386	54N16	6	3/8	WP-26, WP-26V	363-1805	AN AN54N16	818-2125	3AG6
NP387	54N15	7	7/16		363-1800	AN AN54N15	818-2130	3AG7
NP388	54N14	8	1/2		363-1795	AN AN54N14	818-2135	3AG8
1 1/8" Length								
TTT307	54N19	Short	11/16	WP-17, WP-17V WP-18, WP-18V WP-26, WP-26V	363-2080	AN AN54N19	818-2105	3AG11
1" Length								
NP389	53N58	4	1/4	WP-9, WP-9V,			818-1665	2AG4
NP390	53N59	5	5/16	WP-20,	363-1735	AN AN53N59	818-1670	2AG5
NP391	53N60	6	3/8	WP-24,	363-1740	AN AN53N60	818-1675	2AG6
NP392	53N61	7	7/16	WP-25,	363-1745	AN AN53N61	818-1680	2AG7
1 7/8" Length - Large Diameter Gas Lens								
NP428	57N75	6	3/8	WP-17, WP-17V,				
NP429	57N74	8	1/2	WP-18, WP-18V,				
NP427	53N88	10	5/8	WP-26, WP-26V,	363-1780	AN AN53N88	818-2100	3AG10LD
366-2431	53N87	12	3/4	WP-12	363-1775	AN AN53N87	818-2110	3AG12LD
366-2437	53N89	Short	15/16		363-1785	AN AN53N89		



NP395



NP464





ACCESSORIES AND SPARE PARTS

- Accessories, such as collets, collet bodies, different length back caps, gas lens collet bodies and nozzles, must be ordered to complete the torch package
- Accessories may be ordered in convenient accessory kits or separately as needed



TTT311



366-2473



TTT322



TTT325



366-1882

Order No.	Weldcraft MFG No.	Size"	Fits Torch Series	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
COLLETS							
366-1627	13N20	0.020	WP-9, WP-9V,			818-1710	2C20
NP410	13N21	0.040	WP-20,	363-1095	AN AN13N21	818-1735	2C40
NP411	13N22	1/16	WP-25	363-1100	AN AN13N22	818-1700	2C116
NP413	13N23	3/32		363-1105	AN AN13N23	818-1715	2C332
NP412	13N24	1/8		363-1110	AN AN13N24	818-1740	2C418
TTT311	10N21	0.020	WP-17, WP-17V,			818-2170	3C20
NP407	10N22	0.040	WP-18, WP-18V,	363-1070	AN AN10N22	818-2190	3C40
NP408	10N23	1/16	WP-26, WP-26V	363-1075	AN AN10N23	818-2155	3C116
NP409	10N24	3/32		363-1080	AN AN10N24	818-2175	3C332
366-1453	10N25	1/8		363-1085	AN AN10N25	818-2195	3C418
366-2473	54N20	5/32		363-1820	AN AN54N20	818-2215	3C532
TTT312	53N15	0.020	WP-24, WP-24W	363-1705	AN AN53N15	TTT006	8C20
TTT313	53N16	0.040		363-1710	AN AN53N16	818-8C40	8C40
366-2338	53N14	1/16		363-1700	AN AN53N14	818-2770	8C116
366-1882	24C332	3/32				818-2780	8C332
TTT314	53N62	0.020	For Gas Lens	363-1755	AN AN53N62	TTT007	8CG20
TTT315	53N63	0.040		363-1760	AN AN53N63	818-2845	8CG40
TTT316	53N64	1/16				818-2835	8CG116
366-1891	24GLC332	3/32				818-2840	8CG332
TTT317	85Z14	1/16	WP-12				
TTT318	85Z15	3/32					
TTT319	85Z16	1/8					
366-2740	85Z17	5/32					
TTT320	85Z18	3/16					
TTT321	85Z19	1/4					
COLLETS BODIES							
TTT322	13N25	0.020	WP-9, WP-9V,			818-1790	2CB20
NP403	13N26	0.040	WP-20,	363-1145	AN AN13N26	818-1800	2CB40
NP404	13N27	1/16	WP-25	363-1150	AN AN13N27	818-1785	2CB116
NP406	13N28	3/32		363-1155	AN AN13N28	818-1795	2CB332
NP405	13N29	1/8		363-1160	AN AN13N29	818-1805	2CB418
366-1465	10N29	0.020	WP-17, WP-17V,	363-1115	AN AN10N29		
NP400	10N30	0.040	WP-18, WP-18V,	363-1120	AN AN10N30	818-2270	3CB40
NP401	10N31	1/16	WP-26, WP-26V	363-1125	AN AN10N31	818-2255	3CB116
NP402	10N32	3/32		363-1130	AN AN10N32	818-2265	3CB332
366-1462	10N28	1/8		363-1135	AN AN10N28	818-2275	3CB1418
366-3484	406488	5/32		363-1465	AN AN406488	818-2280	3CB532
TTT323	53N17	0.020	WP-24, WP-24W*	363-1715	AN AN53N17	818-3645	8CB20
TTT324	53N18	0.040		363-1720	AN AN53N18	818-3650	8CB40
366-2353	53N19	1/16		363-1725	AN AN53N19	818-2815	8CB116
TTT325	24CB332	3/32				818-2825	8CB332
366-1564	11WP65	1/16 - 1/4	WP-12				

*Note: Order Wrench for WP-24 & WP-24W Collet Body



366-3484



366-1627



TTT312



TIG TORCHES & ACCESSORIES

GAS LENS COLLET BODIES

- Eliminates turbulence in the gas shielding stream as it emerges from the nozzle, better shielding patterns
- Long stable stream allows the electrode to be extended farther beyond the end of the nozzle for improved visibility of the weld zone



NP417



NP424



NP426



TTT327



366-2200

Order No.	Weldcraft MFG No.	Size"	Fits Torch Series	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
GAS LENS COLLET BODIES (ALSO ORDER INSULATOR)							
366-2200	45V41	0.020	WP-9, WP-9V,	363-1630	AN AN45V41	TTT008	2GL20
NP420	45V42	0.040	WP-20,	363-1635	AN AN45V42	818-1830	2GL40
NP421	45V43	1/16	WP-25	363-1440	AN AN45V43	818-1820	2GL116
NP423	45V44	3/32		363-1645	AN AN45V44	818-1825	2GL332
NP422	45V45	1/8		363-1650	AN AN45V45	818-1835	2GL418
TTT326	45V29	0.020	WP-17, WP-17V,			818-2360	3GL20
NP417	45V24	0.040	WP-18, WP-18V,	363-1600	AN AN45V24	818-2375	3GL40
366-2185	45V25	1/16	WP-26, WP-26V	363-1605	AN AN45V25	818-2345	3GL116
NP419	45V26	3/32		363-1610	AN AN45V26	818-2365	3GL332
366-2191	45V27	1/8		363-1615	AN AN45V27	818-2380	3GL418
366-2194	45V28	5/32		363-1620	AN AN45V28	818-2390	3GL532
NP424	45V0204	0.020-0.040	WP-17, WP-17V,				
NP418	45V116	1/16	WP-18, WP-18V,	363-1595	AN AN45V116		
NP426	45V64	3/32	WP-26, WP-26V	363-1665	AN AN45V64	818-2370	3GL332LD
366-3490	995795	1/8	Large Dia. Gas Lens	363-1900	AN AN995795	818-2385	3GL418LD
366-2221	45V63	5/32		363-1660	AN AN45V63	818-2395	3G6532LD
TTT327	11GL16	1/16	WP-12				
TTT328	11GL32	3/32					
TTT329	11GL18	1/8					
TTT330	11GL53	5/32					
366-1534	11GL36	3/16					
INSULATORS							
366-2440	54N01		WP-17, WP-17V, WP-18, WP-18V, WP-26, WP-26V Gas Lens	363-1790	AN AN54N01		
366-2497	54N63		Large Diameter Gas Lens (use on above torches)	363-1840	AN AN54N63		
366-3487	598882		WP-9, WP-9V, WP-20, WP-25 (supplied on torch body)	363-1885	AN AN598882		
366-2419	53N66		WP-24, WP-24W Gas Lens	363-1770	AN AN53N66		
TTT331	12GLG		WP-12 Gas Lens				
366-1756	18CG20		Stubby Collet Body				
BACK CAPS							
366-2116	41V33	Short	WP-9, WP-9V,	363-1310	AN AN41V33	818-1390	200S
366-2119	41V35	Medium	WP-20	363-1315	AN AN41V35	818-1380	200M
366-2083	41V24	Long		363-1305	AN AN41V24	818-1375	200L
366-2611	57Y02	Long	WP-17, WP-17V,			818-1925	300L
366-2626	57Y04	Short	WP-18, WP-18V, WP-26, WP-26V			818-1940	300S
366-2548	56Y44	Long	WP-12				
366-2551	56Y45	Short					



366-2611



366-2116



366-2119

21569E



STUBBY COLLETS/COLLET BODIES

- Stubby collet system allows use of a smaller nozzle
- Reduces overall torch head length giving access to confined areas
- Eliminates the need and cost of changing to a smaller torch



NP469

Order No.	Weldcraft MFG No.	Size"	Fits Torch Series	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
STUBBY COLLETS/COLLET BODIES							
366-1438	10N22S	0.040	WP-17, WP-17V,			818-2505	4C40
366-1444	10N23S	1/16	WP-18, WP-18V			818-2480	4C116
NP472	10N24S	3/32				818-2495	4C332
366-1459	10N25S	1/8				818-2510	4C418
STUBBY COLLET BODY (ALSO ORDER INSULATOR)							
NP469	17CB20	All	WP-17, WP-17V, WP-18, WP-18V, WP-26, WP-26V				

POWER CABLE ADAPTERS

- Adapters are not supplied with the torch packages
- Order adapter separately if needed

Order No.	Weldcraft MFG No.	Fits Torch Series	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
366-2179	45V11	WP-18, WP-18V, WP-20, WP-24W WP-25 WP-12	363-1590	AN AN45V11	818-1850	2PCA
366-2827	105Z57	WP-9, WP-9V*, WP-17*, WP-17V*	363-1365	AN AN105Z57	818-1185	15PCA
366-2383	53N43	WP-24			818-1315	1PCA
366-2218	45V62	WP-26*, WP-26V*	363-1655	AN AN45V62	818-2465	CK 45V62

*Torch packages are supplied with two-piece power cable assembly. Adapters are required with optional one-piece power cable assembly only.

ACCESSORY KITS

WP-9 TORCH SERIES

- 1 Long back cap
- 2 Collets: 0.040", 1/16"
- 2 Collet bodies: 0.040", 1/16"
- 3 Alumina nozzles: 4, 5, 6
- 2 Tungsten electrodes 2%: 0.040", 1/16" x 7"

Order No. 366-3613 MFG No. AK-1

WP-17, WP-17V TORCH SERIES

- 1 Short back cap
- 3 Collets: 0.040", 1/16", 3/32"
- 3 Collet bodies: 0.040", 1/16", 3/32"
- 3 Alumina nozzles: 4, 5, 6
- 3 Tungsten electrodes 2%: 0.040", 1/16", 3/32" x 7"

Order No. NT529 MFG No. AK-2

WP-18, WP-18V, WP-26, WP-26V TORCH SERIES

- 1 Short back cap
- 3 Collets: 1/16", 3/32", 1/8"
- 3 Collet bodies: 1/16", 3/32", 1/8"
- 3 Alumina nozzles: 5, 6, 8
- 3 Tungsten electrodes 2%: 1/16", 3/32", 1/8" x 7"

Order No. NT530 MFG No. AK-3

WP-20

- 1 Long back cap
- 3 Collets: 1/16", 3/32", 1/8"
- 3 Collet bodies: 1/16", 3/32", 1/8"
- 3 Alumina nozzles: 5, 6, 7
- 3 Tungsten electrodes 2%: 1/16", 3/32", 1/8" x 7"

Order No. NT531 MFG No. AK-4

WELDCRAFT®



WP-25

- 3 Collets: 1/16", 3/32", 1/8"
- 3 Collet bodies: 1/16", 3/32", 1/8"
- 3 Alumina nozzles: 5, 6, 8
- 3 Tungsten electrodes 2%: 1/16", 3/32", 1/8" x 7"

Order No. 366-3628 Mfg No. AK-4A

WP-24

- 2 Collets: 0.040", 1/16"
- 2 Collet bodies: 0.040", 1/16"
- 3 Alumina nozzles: 4, 5, 6
- 1 Collet body wrench
- 2 Tungsten electrodes 2%: 0.040", 1/16" x 7"

Order No. 366-3631 MFG No. AK-5

WP-24W

- 3 Collets: 0.040", 1/16", 3/32"
- 3 Collet bodies: 0.040", 1/16", 3/32"
- 3 Alumina nozzles: 4, 5, 6
- 1 Collet body wrench
- 3 Tungsten electrodes 2%: 0.040", 1/16", 3/32" x 7"

Order No. 366-3634 MFG No. AK-5W

GAS CONTROL VALVE

- Handle mounted valve for WP-24 air-cooled torches
- Replaces standard handle and can be installed on torches already in use
- Usable with conventional one-piece power cable or heavy-duty two-piece power cable assembly

Order No. TTT411 MFG No. V-2

WELDCRAFT®



POWER CABLES - WATER AND GAS HOSES

Order No.	Weldcraft MFG No.	Description	Size'	Fits Torch Series	Order No.	Weldmate MFG No.	Order No.	C-K MFG No.
POWER CABLES - WATER & GAS HOSES (VINYL TUBE CONSTRUCTION)								
366-2599*	57Y01	Power Cable	12 1/2	WP-9, WP-9V,				
366-2614*	57Y03	Power Cable	25	WP-17, WP-17V				
366-1993	40V64	Power Cable	12 1/2	WP-18, WP-18V	TTU051	AN AN40V64	818-1965	312PC
366-2086	41V29	Power Cable	25		363-1500	AN AN41V29	818-1995	325PC
366-2002	40V74	Water Hose	12 1/2		363-1480	AN AN40V74	818-1975	312WH
366-2104	41V32	Water Hose	25		363-1520	AN AN41V32	818-2005	325WH
TTT412	40V75	Gas Hose	12 1/2		363-1490	AN AN40V75	818-1950	312AH
366-2095	41V30	Gas Hose	25		363-1510	AN AN41V30	818-1980	325AH
366-2131	45V03	Power Cable	12 1/2	WP-20, WP-20V	363-1530	AN AN45V03	818-1430	212PC
366-2137	45V04	Power Cable	25	WP-25	363-1540	AN AN45V04	818-1465	225PC
366-2155	45V07	Water Hose	12 1/2				818-1440	212WH
366-2161	45V08	Water Hose	25				818-1475	225WH
366-2167	45V09	Gas Hose	12 1/2				818-1415	212AH
366-2173	45V10	Gas Hose	25				818-1455	225AH
TTT333	45V03HD	Heavy-Duty Power Cable	12 1/2					
TTT334	45V04HD	Heavy-Duty Power Cable	25					
TTT335	45V07HD	Heavy-Duty Water Hose	12 1/2					
TTT336	45V08HD	Heavy-Duty Water Hose	25					
*Rubber Power cables are recommended for superior service								
RUBBER POWER CABLES (RUBBER HOSE CONSTRUCTION)								
TTT337	56Y38R	Power Cable	12 1/2	WP-24				
TTT338	56Y97R	Power Cable	25	WP-9, WP-9V,				
TTT339	57Y01R	Power Cable	12 1/2	WP-17, WP-17V	363-1865	AN AN57Y01R	818-1150	1512PCHF
366-2623	57Y03R	Power Cable	25		363-1880	AN AN57Y03R	818-1170	1525PCHF
TTT340	40V64R	Power Cable	12 1/2	WP-18, WP-18V	363-1475	AN AN40V64R		
366-2092	41V29R	Power Cable	25		363-1505	AN AN41V29R		
366-2254	46V28R	Power Cable	12 1/2	WP-26, WP-26V	363-1670	AN AN26V28R		
366-2263	46V30R	Power Cable	25		363-1690	AN AN46V30R		
2-PIECE POWER CABLES - GAS HOSES								
TTT341	57Y01-2	Power Cable & Gas Hose	12 1/2	WP-9, WP-9V,			TTT187	1512PCN
366-2170	45V09R	Gas Hose only	12 1/2	WP-17, WP-17V	363-1575	AN AN45V09R		
366-2617	57Y03-2	Power Cable & Gas Hose	25				818-1180	1525PCN
366-2176	45V10R	Gas Hose only	25		363-1585	AN AN45V10R		
366-2251	46V28-2	Power Cable & Gas Hose	12 1/2	WP-26, WP-26V	363-1675	AN AN46V28-2		
366-2008	40V75R	Gas Hose only	12 1/2		363-1495	AN AN40V75R		
366-2260	46V30-2	Power Cable & Gas Hose	25		363-1685	AN AN46V30-2		
366-2101	41V30R	Gas Hose only	25		363-1515	AN AN41V30R		

PYTHONrap™ CABLE COVER

- Nylon cover
- Full length zipper
- 4" W x 22' L

Order No.
NT887

WELDAS®



CABLE/HOSE COVER

- Durable leather with Kevlar® sewn seams
- Lightweight to enhance flexibility and strength
- Metal snaps every 3"
- For TIG, MIG, plasma and flux-cored torch cable/hose assembly
- 4" W x 22' L

Order No.
NP520

WELD-MATE





"AHP" TIG TORCHES

Interchangeable with Airco® Torches

- "AHP" line of high quality TIG torches feature quality construction of high conductive components carefully silver brazed together for maximum current capacities, cool operation and long trouble-free performance
- Gas control valve is installed on torch body allowing the operator to turn on and off the shielding gas
- Completely interchangeable with the Airco® TIG holders
- Torch packages are available with hoses and power cable assemblies
- Power connector is not supplied with the torch package

AIR-COOLED

AHP10

- 100 Amps AC, DCSP

AHP16

- 160 Amps AC, DCSP
- Torch body includes adapter, equivalent to Airco® holder

WATER-COOLED

AHP20

- 200 Amps, AC, DCSP
- Torch package includes a protective rubber sheath covering the power cable and hoses

AHP35

- 350 Amps DCSP, 300 Amps AC
- Torch package includes a protective rubber sheath covering the power cable and hoses



Description	Order No.	Weldcraft MFG No.	Max. Amps	Airco® Equivalent	Order No.	C-K MFG No.
AIR COOLED TORCHES AHP10 TORCH BODY						
W/Nozzle O-ring and nose transfer block	366-3550	AHP10	100	H-10A	TTT375	CKA10
TORCH PACKAGES - 25' POWER CABLE						
Torch body, handle	366-3559	AHP10-25	100	2301-0030	TTT377	CKA105
Torch body, gas valve	TTT342	AHP10-25V	100	2301-0071	820-1635	CKA105V
AHP16 TORCH BODY						
W/Nozzle gasket, nose transfer block, and adapter	366-3574	AHP16	160	H-16C, E	820-1725	CKA16
TORCH PACKAGES - 25' POWER CABLE						
W/Torch body, ribbed handle	366-3583	AHP16-25	160	2301-0049	820-1685	CKA165
W/Torch body, ribbed handle and gas valve	366-3586	AHP16-25V	160	2301-0085	820-1715	CKA165V
WATER-COOLED AHP20 TORCH BODY						
W/Nozzle O-ring and nose transfer block	366-3589	AHP20	200	H-20C	820-1740	CKA20
TORCH PACKAGES - 25" POWER CABLE						
W/Torch body, handle, hoses	TTT343	AHP20-25	200	2301-0042	TTT378	CKA205
AHP35 TORCH BODY						
W/Nozzle gasket and nose transfer block	366-3598	AHP35	350	H-35C	820-1775	CKA35
TORCH PACKAGES - 25' POWER CABLE						
W/Torch body, handle, hoses	366-3604	AHP35-25	350	2301-3776	820-1790	CKA355



366-3118

ALUMINA & LAVA NOZZLES

Lava and alumina nozzles are packed 10 nozzles per box.



Order No.	Weldcraft MFG No.	Size	Orifice"	Fits Torch Series	Order No.	C-K MFG No.
ALUMINA NOZZLES						
1 9/16" Length						
-	-	4	1/4	AHP-10	818-3060	A4A2
-	-	5	5/16	AHP-20	818-3105	A5A2
366-3082	2304-0073	6	3/8		818-3180	A6A2
366-3085	2304-0074	7	7/16		818-3200	A7A2
1 1/8" Length						
-	-	4	1/4	AHP-10	818-3065	A4A2S
-	-	5	5/16	AHP-20	TTT380	A5A2S
1 5/8" Length						
-	-	4	1/4	AHP-16	818-3070	A4A3
366-3106	2304-0080	5	5/16	AHP-35	818-3115	A5A3
366-3112	2304-0081	6	3/8		818-3185	A6A3
366-3118	2304-0082	8	1/2		818-3210	A8A3
366-3124	2304-0083	10	5/8		818-2875	A10A3
1 1/4" Length						
-	-	4	1/4	AHP-16	818-3075	A4A3S
TTT347	2304-0085	8	1/2	AHP-35	818-3215	A8A3S

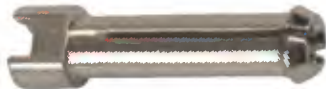
Note: The nozzle number indicates the orifice (I.D. of the outlet end) in 1/16ths of an inch. No. 4 = 1/4" I.D.

POWER CABLES - WATER & GAS HOSES

Order No.	Weldcraft MFG No.	Description	Size'	Fits Torch Series	Airco® Equivalent	Order No.	C-K MFG No.
TTT368	2310-1845	Power Cable	12 1/2	AHP-10	H-10 ABE	818-2940	A2PC10
366-3361	2310-1844	Power Cable	25			818-3145	A5PC10
TTT369	2310-1853	Power Cable	12 1/2	AHP-16	H-16 CDEF	818-2435	A2PC16
366-3376	2310-1854	Power Cable	25			818-2450	A5PC16
TTT370	2310-1817	Power Cable	12 1/2	AHP-20	H-20 C	818-6600	A2PC20
366-3334	2310-1818	Power Cable	25			TTT382	A5PC20
TTT371	2310-1808	Water Hose	12 1/2			TTT383	A2WH20
366-3310	2310-1807	Water Hose	25			TTT384	A5WH20
TTT372	2310-1806	Gas Hose	12 1/2			TTT385	A2AH20
TTT373	2310-1805	Gas Hose	25			818-3120	A5AH20
366-3379	2310-1856	Power Cable	12 1/2	AHP-35	H-35 C	818-2950	A2PC35
366-3382	2310-1857	Power Cable	25			818-3160	A5PC35
366-3406	2310-1871	Water Hose	12 1/2			TTT386	A2WH35
366-3403	2310-1870	Water Hose	25			TTT387	A5WH35
TTT374	2310-1873	Gas Hose	12 1/2			818-2935	A2AH35
366-3400	2310-1869	Gas Hose	25			TTT388	A5AH35



ACCESSORIES



366-3163



366-3316



366-3184

Order No.	Weldcraft MFG No.	Size"	Fits Torch Series	Airco® Equivalent	Order No.	C-K MFG No.
COLLETS						
366-3166	2304-0136	0,020	AHP-10,	H-10,	TTT381	A20C20
366-3163	2304-0135	0,040	AHP-20	H-20	818-3040	A40C20
		1/16			818-2890	A116C20
		3/32			818-2995	A332C20
		1/8			818-3050	A418C20
		0,020	AHP-16,	H-16,	818-2925	A20C35
		0,040	AHP-35	H-35	818-3045	A40C35
366-3148	2304-0088	1/16			818-2895	A116C35
366-3151	2304-0089	3/32			818-3000	A332C35
366-3154	2304-0090	1/8			818-3055	A418C35
366-3157	2304-0091	5/32			818-3100	A532C35
		3/16			818-2990	A316C35
NOSE TRANSFER BLOCKS						
366-3316	2310-1810		AHP-10, AHP-20	H-10, H-20	818-3340	ANT20
366-3433	2310-1938		AHP-16, AHP-35	H-16, H-35	818-3345	ANT35
BACK CAPS						
366-3025	2304-0008	2" Short Cap	AHP-10,	H-10,	818-3370	AS20
TTT364	2304-0009	3" Medium Cap	AHP-20	H-20	818-3330	AM20
366-3031	2304-0010	7" Long Cap			818-3320	AL20
366-3181	2304-0143	2" Short Cap	AHP-16,	H-16,	818-3375	AS35
366-3184	2304-0144	3" Medium Cap	AHP-35	H-35	818-3335	AM35
366-3187	2304-0145	7" Long Cap			818-3325	AL35
POWER CABLE ADAPTER						
TTT365	2310-2101		AHP-10	H-10		
366-3412	2310-1879		AHP-16	H-16	818-3355	APCA16
	-		AHP-20	H-20	818-3360	APCA20
TTT367	2310-0735		AHP-35	H-35	818-3365	APCA35

WATER COOLED MICRO TIG TORCH KIT

FITS INTO SMALL WELD JOINTS!

- Handles hard-to-access welding applications
- 140 amps @ 100% duty cycle
- Clear Pyrex nozzles and a low profile torch body allows operator to see the weld puddle, ensuring a high quality weld
- Clear Pyrex nozzle fits 45°, 90°, and 180° interchangeable heads eliminating the need for angled nozzles
- 3-piece Super-Flex® cable assembly makes it easier to manipulate the torch
- Tungsten gauge and wrench makes installing tungsten easy, set the gauge to the desired length and tighten the collet with the wrench

Kit includes:

- 45°, 90° and 180° heads
- 0.040", 1/16" and 3/32" collets
- 3 Clear Pyrex Nozzles
- Tungsten Stick-Out Gauge and Wrench



Dimensions:

Neck diameter: 0,312"
Neck Length: 3,100"
Cup Diameter: 0,360"
Cup Length: 0,600"

Order No.

TTU277
TTU278

MFG No.

MR141 2SF
MR1425SF

Length'

12 1/2
25



Tungsten Stick-Out Gauge and Wrench
(Included in torch package)





TIG TORCHES & ACCESSORIES

FLEX-LOC™ TORCHES

- Flex-Loc™ series torch is a variable angle torch that locks into position within a 360° rotation
- Interchangeable heads allow different size tungsten and head sizes to be quickly and efficiently changed
- Ergonomically designed to help eliminate fatigue
- Great for applications requiring a unique angle yet allowing the user a rigid torch

Applications: Cup walking on pipe root welds, welds that require a mirror to access weldment, welds requiring different tungsten sizes.

Torch packages include: Body assembly, replaceable torch head (with heat shield and back cap) and cable assembly

AIR (GAS) COOLED TORCHES

- Gas-cooled models are available with or without gas control valve and have a Hi-Flex one-piece concentric cable assembly
- Length: 7 3/4" without valve; 8 1/2" with valve

WATER COOLED TORCHES

- Water-cooled models are equipped with a Tri-Flex cable assembly
- Length: 7 3/4" without valve

821-1750



821-1760



820-1905



820-1920



Order No.	MFG No.	Cable Size'	Amps	Cable	Head Style
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AIR-COOLED TORCHES WITHOUT VALVE

820-1905	FL1312	12 1/2	130	1-Piece	FL2L
TTT376	FL1325	25	130	1-Piece	FL2L
820-1920	FL1512	12 1/2	150	1-Piece	FL3L
820-1930	FL1525	25	150	1-Piece	FL3L

WITH VALVE

TTT379	FL1312V	12 1/2	130	1-Piece	FL2L
820-1915	FL1325V	25	130	1-Piece	FL2L
820-1925	FL1512V	12 1/2	150	1-Piece	FL3L
820-1935	FL1525V	25	150	1-Piece	FL3L

WATER-COOLED TORCHES WITHOUT VALVE

820-1940	FL2312	12 1/2	230	Tri-Flex	FL2L
820-1945	FL2325	25	230	Tri-Flex	FL2L
820-2075	FL2512	12 1/2	250	Tri-Flex	FL3L
820-1950	FL2525	25	250	Tri-Flex	FL3L

TORCH HEAD SELECTOR CHART

Order No.	MFG No.	Gas-Cooled	Amps	Water-Cooled	Head Style
821-1750	FL2L	130		230	2 Series
821-1760	FL3L	150		250	3 Series

AMPERAGE CONTROLS

- Remote amperage controls provide welding machine contactor on-off, activate gas and/or water solenoids, and provide full range current output control
- Fingertip controls are available in either a rotary or linear slide potentiometer configuration

ROTARY MODEL

- Handle styles include Velcro® straps where one size fits all handle diameters and retrofits very easily on all makes of torches or built into the handle as original equipment
- A built-in strain-relief prevents the control cord from being pulled out or damaged
- Innovative ergonomic design fits in the welders hand comfortably
- 3 different handle configurations possible with different finger guards
- Choice of built-in handle or Velcro® straps
- "Plug and Play" replacement potentiometer assembly, no soldering required
- Adapts to most standard TIG power supplies
- Protected against high frequency

LINEAR MODEL

- Amtrak™ remote current control provides remote on-off control of the welding machine contactor and/or gas and water solenoid control, as well as full range remote current output control
- A built in strain-relief prevents the control cord from being pulled out or damaged
- Amtrak™ remote current control can be ordered either built into a CK torch handle as original equipment or in the Velcro® model where one size fits all
- Linear slide actuator for complete on/off and full amperage control
- Built-in handle or Velcro® strap design to fit all TIG torches
- Adapts to most standard TIG power supplies
- Protected against high frequency

Call today for more information and custom designs. Items are made to order and are non-returnable.



Velcro® Model

Finger Guards



Built-in Model



Linear Model



AMPERAGE REMOTE CONTROL SELECTOR CHART

Machine Make Potentiometer Rating	Amp Control Type	Plug Config & Pin Count	Control Cable Length	Velcro™ Straps	Built in Handle for CK Torches		
				One Size Fits All	Small	Medium	Large
Hobart 25K Ohm	Rotary	10 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	— RACCV-25-2-H10 RACCV-25-3-H10	RAC2S-25-1-H10 RAC2S-25-2-H10 RAC2S-25-3-H10	RAC2M-25-1-H10 RAC2M-25-2-H10 RAC2M-25-3-H10	
	Linear	10 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-25-1-H10 AMT CV-25-2-H10 AMT CV-25-3-H10	AMT 2 S-25-1-H10 AMT 2 S-25-2-H10 AMT 2 S-25-3-H10	AMT 2 M-25-1-H10 AMT 2 M-25-2-H10 AMT 2 M-25-3-H10	AMT 2 L-25-1-H10 AMT 2 L-25-2-H10 AMT 2 L-25-3-H10
Lincoln® Electric 10K Ohm	Rotary	14 Pin Plug	14 Pin Plug 28 ft. (8.5 m) 53 ft. (16.2 m)	15 ft. (4.6 m) RACCV-10-2-L14 RACCV-10-3-L14	RACCV-10-1-L14 RAC2S-10-2-L14 RAC2S-10-3-L14	RAC2S-10-1-L14 RAC2M-10-2-L14 RAC2M-10-3-L14	RAC2M-10-1-L14
		5 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	RACCV-10-1-L5 RACCV-10-2-L5 RACCV-10-3-L5	RAC2S-10-1-L5 RAC2S-10-2-L5 RAC2S-10-3-L5	RAC2M-10-1-L5 RAC2M-10-2-L5 RAC2M-10-3-L5	
			15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	RACCV-10-1-L6 RACCV-10-2-L6 RACCV-10-3-L6	RAC2S-10-1-L6 RAC2S-10-2-L6 RAC2S-10-3-L6	RAC2M-10-1-L6 RAC2M-10-2-L6 RAC2M-10-3-L6	
		6 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-10-1-L14 AMT CV-10-2-L14 AMT CV-10-3-L14	AMT 2 S-10-1-L14 AMT 2 S-10-2-L14 AMT 2 S-10-3-L14	AMT 2 M-10-1-L14 AMT 2 M-10-2-L14 AMT 2 M-10-3-L14	AMT 2 L-10-1-L14 AMT 2 L-10-2-L14 AMT 2 L-10-3-L14
			15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-10-1-L5 AMT CV-10-2-L5 AMT CV-10-3-L5	AMT 2 S-10-1-L5 AMT 2 S-10-2-L5 AMT 2 S-10-3-L5	AMT 2 M-10-1-L5 AMT 2 M-10-2-L5 AMT 2 M-10-3-L5	AMT 2 L-10-1-L5 AMT 2 L-10-2-L5 AMT 2 L-10-3-L5
			15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-10-1-L6 AMT CV-10-2-L6 AMT CV-10-3-L6	AMT 2 S-10-1-L6 AMT 2 S-10-2-L6 AMT 2 S-10-3-L6	AMT 2 M-10-1-L6 AMT 2 M-10-2-L6 AMT 2 M-10-3-L6	AMT 2 L-10-1-L6 AMT 2 L-10-2-L6 AMT 2 L-10-3-L6
Linde 25K Ohm	Rotary	3 & 3 Pin Pig -Tails Hubbell	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	RACCV-25-1-LIND RACCV-25-2-LIND RACCV-25-3-LIND	RAC2S-25-1-LIND RAC2S-25-2-LIND RAC2S-25-3-LIND	RAC2M-25-1-LIND RAC2M-25-2-LIND RAC2M-25-3-LIND	
	Linear	3 & 3 Pin Pig -Tails Hubbell	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMTCV-25-1-LIND AMTCV-25-2-LIND AMTCV-25-3-LIND	AMT2 S-25-1-LIND AMT2 S-25-2-LIND AMT2 S-25-3-LIND	AMT2 M-25-1-LIND AMT2 M-25-2-LIND AMT2 M-25-3-LIND	AMT2 L-25-1-LIND AMT2 L-25-2-LIND AMT2 L-25-3-LIND
Miller® Electric 1K Ohm	Rotary	14 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	RACCV-1-1-M14 RACCV-1-2-M14 RACCV-1-3-M14	RAC2S-1-1-M14 RAC2S-1-2-M14 RAC2S-1-3-M14	RAC2M-1-1-M14 RAC2M-1-2-M14 RAC2M-1-3-M14	
		5 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	RACCV-1-1-M5 RACCV-1-2-M5 RACCV-1-3-M5	RAC2S-1-1-M5 RAC2S-1-2-M5 RAC2S-1-3-M5	RAC2M-1-1-M5 RAC2M-1-2-M5 RAC2M-1-3-M5	
			15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-1-1-M14 AMT CV-1-2-M14 AMT CV-1-3-M14	AMT 2 S-1-1-M14 AMT 2 S-1-2-M14 AMT 2 S-1-3-M14	AMT 2 M-1-1-M14 AMT 2 M-1-2-M14 AMT 2 M-1-3-M14	AMT 2 L-1-1-M14 AMT 2 L-1-2-M14 AMT 2 L-1-3-M14
	Linear	14 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-1-1-M5 AMT CV-1-2-M5 AMT CV-1-3-M5	AMT 2 S-1-1-M5 AMT 2 S-1-2-M5 AMT 2 S-1-3-M5	AMT 2 M-1-1-M5 AMT 2 M-1-2-M5 AMT 2 M-1-3-M5	AMT 2 L-1-1-M5 AMT 2 L-1-2-M5 AMT 2 L-1-3-M5
		5 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-5-1-TD14 RACCV-5-2-TD14 RACCV-5-3-TD14	RAC2S-5-1-TD14 RAC2S-5-2-TD14 RAC2S-5-3-TD14	RAC2M-5-1-TD14 RAC2M-5-2-TD14 RAC2M-5-3-TD14	
			15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	RACCV-5-1-TD8 RACCV-5-2-TD8 RACCV-5-3-TD8	RAC2S-5-1-TD8 RAC2S-5-2-TD8 RAC2S-5-3-TD8	RAC2M-5-1-TD8 RAC2M-5-2-TD8 RAC2M-5-3-TD8	
Thermal Dynamics 5K Ohm	Rotary	14 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-5-1-TD14 AMT CV-5-2-TD14 AMT CV-5-3-TD14	AMT 2 S-5-1-TD14 AMT 2 S-5-2-TD14 AMT 2 S-5-3-TD14	AMT 2 M-5-1-TD14 AMT 2 M-5-2-TD14 AMT 2 M-5-3-TD14	AMT 2 L-5-1-TD14 AMT 2 L-5-2-TD14 AMT 2 L-5-3-TD14
		8 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	AMT CV-5-1-TD8 AMT CV-5-2-TD8 AMT CV-5-3-TD8	AMT 2 S-5-1-TD8 AMT 2 S-5-2-TD8 AMT 2 S-5-3-TD8	AMT 2 M-5-1-TD8 AMT 2 M-5-2-TD8 AMT 2 M-5-3-TD8	AMT 2 L-5-1-TD8 AMT 2 L-5-2-TD8 AMT 2 L-5-3-TD8
			15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)				
	Linear	14 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)				
		8 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)				
			15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)				

***NOTE:** ONLY THE VELCRO MODEL WILL WORK FOR THE VALVED CKC150 AND THE VALVED FLEX-LOC TORCHES

***CONTACT US FOR OTHER TIG MACHINES**



FLEXIBLE PURGE CHAMBER

The patented CK flexible purge chamber is used in the Gas tungsten Arc Welding (GTAW)/tungsten inert gas (TIG) process.

- Provides a completely inert atmosphere for the welding of reactive metals such as titanium, molybdenum, nickel-based and aluminum-based alloys, as well as non-reactive metals like stainless steel
- Draws a vacuum around the product to be welded by collapsing the chamber
- Chamber is then filled through a perforated hose that encircles the bottom of the chamber which allows the argon gas to expel all atmospheric gases more effectively (through the top valve port) than traditional filling methods
- Reduces the time required to reach an inert atmosphere suitable for welding, while using considerably less gas than traditional rigid purge chambers

Features:

- Less argon required
- Collapsible, easily stored
- Multiple accessory and glove ports
- Less expensive
- Less time to fill
- Vacuum drawn
- Facilitates welding grade atmosphere

INCLUDES:

- 115 V vacuum pump
- Dual flowmeter/regulator
- 2 work stations
- 2 sets of gloves
- 4 accessory ports
- Heat blanket
- 10' (3 m) argon hose
- 10' (3 m) vacuum hose
- Repair kit
- Instructional video
- Storage container



Call today for more information and custom designs. Items are made to order and are non-returnable.

COLD WIRE FEEDERS

For complete installation of a cold wire TIG system, you need both the cold wire feeder and a TIG torch (**hand held or machine mounted**) with cold wire TIG capabilities. The cold wire TIG system works independently of a standard TIG power supply using normal TIG welding parameters.

Two models of cold wire TIG feeders:

WF-1 feed unit is designed for use with CK CWH series hand torches for semi automatic welding applications. The WF-1 has an ON/OFF switch, pilot light, wire feed control, pulse/continuous feed switch, pulse wire on and off timers, and a remote switch receptacle.

WF-3 feed unit has all the features of the WF-1 feed unit plus controls for automatic operation with CK CWM series machine mounted machine torches. Additional controls include ON/OFF switches and timer controls for delay wire start and wire retract.

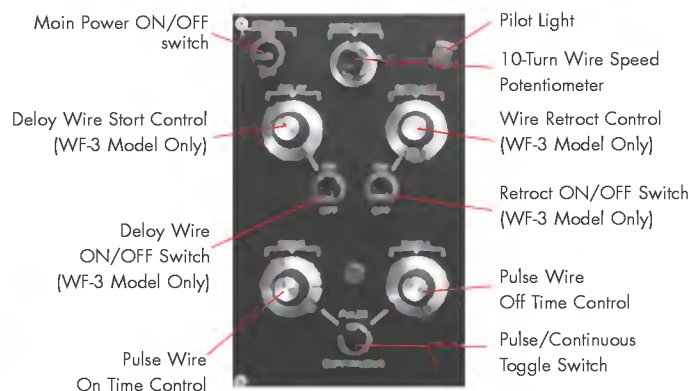
Please specify wire size (0.030", 0.035", 0.045" or 1/16") and type Hard (Steel) or Soft (Aluminum)

Features:

- Automates adding of filler metal in TIG Welding
- All weld parameters can be duplicated
- Dual groove drive roll system accepts multiple wire sizes
- Eliminates TIG rod stub loss
- Cabinet keeps filler wire clean
- Makes fully automatic machine TIG welding possible
- Results are consistent and high quality welds

SPECIFICATIONS

Voltage:	115 V AC (220 V AC 50 Hz – Special Item)
Phase:	Single Phase
Frequency:	50/60 Hz
Height:	15"
Width:	10"
Length:	21"
Weight:	39 lbs.
Motor Type:	DC Permanent Magnet
Motor Rating:	1/3 HP at 4000 RPM
Filler Wire Spool Size:	12"
Filler Wire Sizes:	0.023", 0.030", 0.035", 0.045", 1/16"
Wire Feed Speed Range:	0 - 500 IPM
Feed Time (Pulsed Mode):	Continuously Variable
Dwell Time (Pulsed Mode):	Continuously Variable
Delay Start Time (WF-3 Only):	Continuously Variable
Wire Retract Time (WF-3 Only):	Continuously Variable



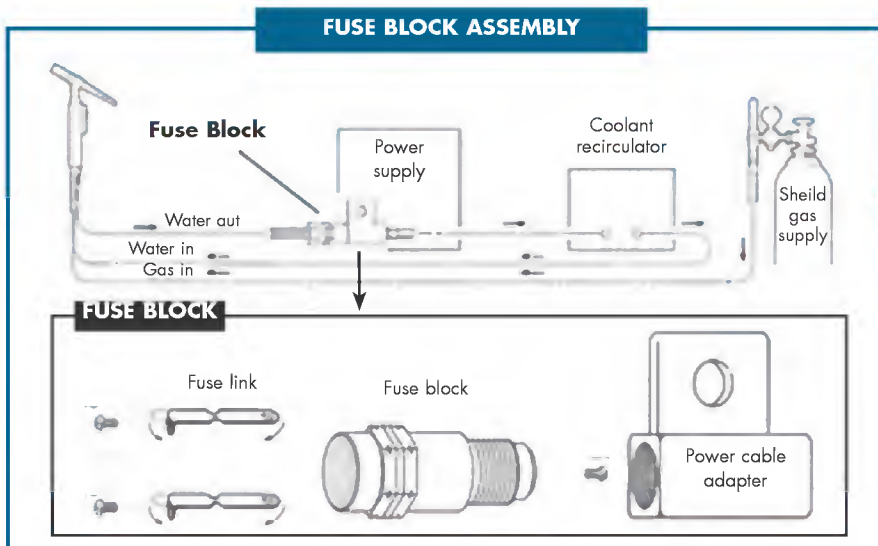
MFG No.	Drive Roll	Wire Size"
WF-1 – HAND HELD		
WF1-030	20 – 35DR	0.023 – 0.030
WF1-035	30 – 45DR	0.030 – 0.045
WF1-045	45 – 564DR	0.045 – 1/16
WF-3 – HAND HELD/MACHINE MOUNTED		
WF3-030	20 – 35DR	0.023 – 0.030
WF3-035	30 – 45DR	0.030 – 0.045
WF3-045	45 – 564DR	0.045 – 1/16



FUSE BLOCK ASSEMBLY

- Water-cooled power cables can burn up within seconds if water is not circulating through the cable assembly
- Fuse block adapter, fits between the power cable and power cable adapter
- If water is not present over the fuse link, it will burn up at around 6 amps
- A simple change of fuse link gets the welder back up and running
- Fuse links sold 5 per package

Order No.	MFG No.	Description
818-1600	260FA	260 Amps Fuse Block
818-2675	550FA	550 Amps Fuse Block
818-1595	260F	260 Amps Fuse, 5/Pkg.
818-2670	550F	550 Amps Fuse, 5/Pkg.



COLD WIRE FEED TORCHES

HAND HELD - WATER COOLED

- Semiautomatic TIG torches are hand torches
- Capability of delivering a continuous filler wire directly to the weld puddle
- Simplifies the skill level required as compared with manual feeding the filler rod
- Used in conjunction with the WF-1 and WF-3 wire feeders
- Cold wire torches come with rigid head without valve
- Available in 12 1/2' feet TriFlex/Superflex cable except model CWH3512 which comes with separate cables
- **Pendant Unit** has an electric switch head style with straight wire guide and is used in conjunction with TIG torch



Please specify wire size (0.030", 0.035", 0.045" or 1/16") and type Hard (Steel) or Soft (Aluminum)

MFG No.	Description	Amps	Length"	Head Accessories
CWH	Hand Held Pendant	-	-	-
CWH3512	Rigid Cold Wire Torch	400	9 1/2	3 Series
CWH1812	Rigid Cold Wire Torch	180	8 1/8	8 Series
CWH2312	Rigid Cold Wire Torch	300	8 1/4	2 Series



CWH



CWH2312



CWH3512



CWH1812

COLD WIRE FEED TORCHES

MACHINE MOUNTED - WATER COOLED

- Automatic TIG torches are machine torches
- Capability of delivering a continuous filler wire directly to the gas tungsten arc puddle
- Complete automatic feeding of the filler wire when torches are used in conjunction with the WF-3 wire feeder
- 12 1/2' feet
- 1 3/8" O.D. barrel

Please specify wire size (0.030", 0.035", 0.045" or 1/16") and Hard (Steel) or Soft (Aluminum)

MFG No.	Amps	Length"	Head Accessories	Head Style	Cable
CWM2312	300	18	2 Series	Straight Barrel	TriFlex
CWM3512	350	18	3 Series	Straight Barrel	Separate
CWMT412	400	4 1/16	3 Series	Face Plate Mounted	Dual Power
CWMT512	500	7	3 Series	7" Barrel	Dual Power



CWM2312



CWM3512



TUNGSTEN ELECTRODES

- TIG welding electrodes usually contain small quantities of metallic oxides which can offer the following benefits:
 - Facilitate arc starting
 - Increase arc stability
 - Improve current carrying capacity of the electrode
 - Reduce the risk of weld contamination
 - Increase electrode life
- Oxides used are primarily zirconium, thorium, lanthanum or cerium
- Additions are 1% – 4%, improve arc initiation, especially when direct current (DC) welding is employed
- Thorium oxide (thoria), effective in terms of long life and thermal efficiency
- Zirconium oxide (zirconia) has been commonly used for alternating (AC) TIG welding, welding aluminum
- Electrode length: 7" • Each package contains 10 electrodes

TYPE:

2% THORIATED:

- Good current capacity, arc stability and easy arc start on CD current
- High resistance to weld pool contamination
- Maintains sharpened tip configuration
- Not normally used on AC current because it is difficult to maintain the balled end
- Medium tendency to spit
- Medium erosion rate

1.5% LANTHANATED:

- Lowest erosion rate
- Wide current range
- No spitting
- Best DC arc starts and stability

2% CERIATED:

- Excellent arc starting, stability, long life and higher-current capacity than thoriated tungsten
- Operate successfully with AC or DC current
- Non-radioactive
- Low erosion rate
- Wide current range
- No spitting

ZIRCONIATED:

- Excellent for AC welding due to the higher arc stability
- High-resistance to weld pool contamination
- Excellent balled end retention
- Handles higher current with less spitting
- Better arc starts and arc stability than pure tungsten

PURE:

- Lowest current capacity and least expensive
- Maintains a clean balled end for welding on AC
- More prone to weld contamination than other types of tungsten electrodes
- Tends to spit at higher currents
- Used for non-critical welds only



Order No.	MFG No.	ISO Colour Chart	Size Dia."
2% THORIATED			
TTT403	T0207GT2	Red	0.020
NP552	T0407GT2	AWS A5.12 EWTh-2	0.040
NP544	T1167GT2	ISO 6848 WT20	1/16
NP545	T3327GT2		3/32
NP543	T187GT2		1/8
714-1150	T5327GT2		5/32
1.5% LANTHANATED			
TTT404	T0207GL	Gold	0.020
TTT405	T0407GL	AWS A5.12 EWL1a-1.5	0.040
714-1200	T1167GL	ISO 6848 WL15	1/16
714-1205	T3327GL		3/32
714-1210	T187GL		1/8
TTT406	T5327GL		5/32
2% CERIATED			
TTT407	T0207GC2	Grey	0.020
NP548	T0407GC2	AWS A5.12 EWCe-2	0.040
NP549	T1167GC2	ISO 6848 WC20	1/16
NP550	T3327GC2		3/32
NP551	T187GC2		1/8
714-1177	T5327GC2		5/32
ZIRCONIATED			
TTT408	T0207GZ	Brown	0.020
TTT409	T0407GZ	AWS A5.12 None	0.040
NP546	T1167GZ	ISO 6848 WZ8	1/16
NP547	T3327GZ		3/32
NP553	T187GZ		1/8
714-1185	T5327GZ		5/32
PURE			
TTT410	T0207G	Green	0.020
NP539	T0407G	AWS A5.12 EWP	0.040
NP540	T1167G	ISO 6848 WP	1/16
NP542	T3327G		3/32
NP541	T187GZ		1/8
714-1060	T5327G		5/32

TUNGSTEN PREPARATION

SHARPENING PROCEDURE



2 1/2 Times
electrode diameter



Ideal tungsten preparation
- Stable arc



Wrong tungsten preparation
- Wandering arc

AC TIG BALL FORMATION

In AC TIG, a ball is formed on the end of the tungsten. On pure tungsten and zirconium, the ball can be formed by creating an arc with AC weld output. With 2% thoriated tungsten, the power source should be set for DCEP to create the ball and AC to weld.



Maximum
2 1/2 times
electrode
diameter



CHEM-SHARP

CHEMICAL TUNGSTEN SHARPENER

- Safest way to sharpen tungsten without grinding
- Chemically mills a perfect point on pure, thoriated or titanium type tungsten
- Repoint time is approximately one minute at the work station
- Extends tungsten life four times longer than that of ground tungsten
- 4.5 net oz. jars, over 500 sharpenings per jar



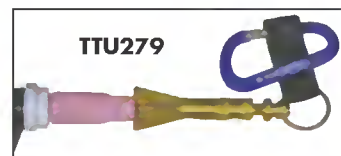
DYNAFLUX, INC.



Order No.	MFG No.	Description
881-1300	DF600-6	Jar, 4.5 net oz.
881-1305	DF601-6	Tungsten Holder
881-1310	DF602-4	Kit w/1 jar and holder

TUNGSTEN STICK-OUT GAUGE

- Made of durable solid brass
- Easily lock-in, correct stick-out from the end of nozzle
- Face of gauge marked in 1/16" indications for easy calculation of required stick-out
- Consistent stick-out adds quality to every weld
- Repeatable for welder to welder



Order No.	MFG No.	Description
TTU279	TG1	For Standard Torch
TTU280	TG1-24	For 24 Series and Micro Torch

TURBO-SHARP® V TUNGSTEN ELECTRODE GRINDERS

Turbo-sharp® V is an enclosed electrode grinder, which eliminates grinding dust exposure to both the user and the environment.

- Multifunctional cover – Through a slot in the cover, one can flatten the electrode to prepare a truncated cone
- 3 position adjustment for triple lifetime of grinding disc
- Angles adjustable from 20° to 60°
- Both sides of grinding disc coated with diamond-powder, giving double wheel life
- Allows exact repetition of longitudinal grinding
- Can be connected to vacuum system, accessory included with unit
- Turbo-sharp® V can be equipped with an optional head which can grind electrodes of diameter: 0.040" (1.0mm), 5/32" (4.0mm), 3/16" (4.8mm) or 1/4" (6.4mm)
- **Short tungsten kit** grinds tungsten as short as 3/4" and includes 0.040" (1.0mm), 1/16" (1.6mm) and 3/32" (2.4mm) collets

Order No.	MFG No.	Description
TTT401	TS5	115V Grinder
TTT402	TS5-230	230V Grinder
821-3707	TS3-W	Replacement Diamond Coated Disc Wheel
TTT413	TS3-HB	Grinder Head - 0.040" – 1/8" (included in TS5)
821-3706	TS3-HR	Grinder Head - 0.040" – 5/32", 3/16", 1/4"
TTT414*	TS3-STK	Short Tungsten Kit

* For use with TS3-HR grinder head only

Both side of disc are coated with diamond-powder (double lifetime)



821-3707

3 position adjustable head!



Grinding disc last 3x longer!



TTT401

TTT414

Short tungsten kit
Grinds electrodes as short as 3/4" (19mm)



Includes: 0.040" (1.0 mm), 1/16" (1.6mm) and 3/32" (2.4 mm) collets

* Kit sold separately



METAL CARRYING CASE INCLUDES:

- Standard head for diameters: 0.040" (1.0mm), 1/16" (1.6mm), 3/32" (2.4mm) and 1/8" (3.2mm)
- Accessory for stationary mounting
- Adapter for vacuum cleaning
- Pen style electrode holder
- Multifunctional cover
- Tools for assembling and replacement of grinding wheel
- User instructions



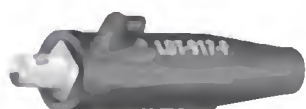
TECHNICAL DATA

Voltage:	120 V AC
Single Phase:	60 Hz
Power:	400 W
Amp:	3.5 A
No load speed:	30,000 RPM
Weight:	3.7 lbs. (1690 g)
Guarantee:	2 years

CABLE CONNECTORS

INTERNATIONAL DINSE TYPE TIG MACHINE PLUGS

- 11 International *Dinse* Type TIG machine plugs for both air and water-cooled TIG torches
- Allows direct connection of the TIG torch to power supplies equipped with *Dinse* type secondary connections



380-2115



TTT880



TTT883



TTT884



TTT878



TTT881



380-2100



TTT885



TTT879



TTT882



TTT886

Order No.	MFG No.	TIG Torch Model	Male End Dia."	Power Cable Connection	Barb O.D.
380-2115	LDT-917-F	9, 17	0.508 (12.9 mm)	3/8"-24 (M) Air Cooled	1/4"-90° w/Boot
TTT878*	LDTI-917-F	9, 17	0.508 (12.9 mm)	3/8"-24 (M) Air Cooled	N/A
TTT879	LDT-24-M	24	0.355 (9.0 mm)	3/8"-24 (F) Air Cooled	1/4"-90° w/Boot
TTT880	LDT-24-M	24	0.355 (9.0 mm)	3/8"-24 (F) Air Cooled	N/A
TTT881	LDT-24-M	24	0.508 (12.9 mm)	3/8"-24 (F) Air Cooled	1/4"-90° w/Boot
TTT882	LDT-26-R	26	0.508 (12.9 mm)	7/8"-14 (R.H.) Air Cooled	1/4"-90° w/Boot
TTT883*	LDTI-26-R	26	0.508 (12.9 mm)	7/8"-14 (R.H.) Air Cooled	1/4"-90° w/Boot
380-2100	LDT-1820-L	18, 20	0.508 (12.9 mm)	7/8"-14 (L.H.) Water Cooled	1/4"-90° w/Boot
TTT884*	LDTI-1820-WC	18, 20, 24W	0.508 (12.9 mm)	7/8"-14 (L.H.) Water Cooled	1/8", 3/16", 1/4"-90° w/Boots
TTT885	LDT-917-F	9, 17	0.355 (9.0 mm)	3/8"-24 (M) Air Cooled	1/4"-90° w/Boot
TTT886*	LDTI-917-F	9, 17	0.355 (9.0 mm)	3/8"-24 (M) Air Cooled	N/A

* In line

GAS AND WATER HOSE CONNECTORS

- Both hoses are nylon braided

LGH-Series used on the following:

LDT-917-F LDT-24-M
LDT-26-R LDT-24-M
LDT-917-F

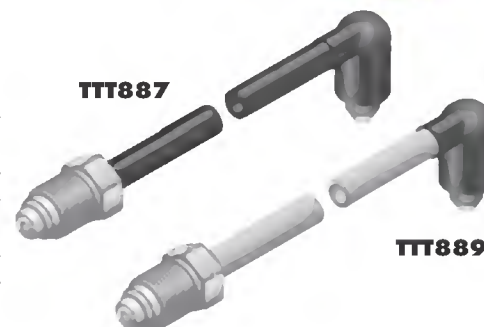
LWH-SERIES used on the following:

LDT-1820-L

LGH-Series & LWH-Series used on the following:

LDT-1820-WC

Order No.	MFG No.	Length"	Hose Colour	Thread Connection
GAS HOSE				
TTT887	LGH-18RH	18	Black	5/8"-18 R.H. Nut
TTT888	LGH-96RH	96	Black	5/8"-18 R.H. Nut
WATER HOSE				
TTT889	LWH-18LH	18	Red	5/8"-18 L.H. Nut
TTT890	LWH-96LH	96	Red	5/8"-18 L.H. Nut



TTT887

TTT889

DINSE CABLE & TIG MACHINE PLUG APPLICATION

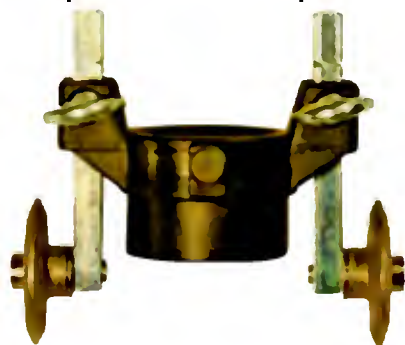
Power Supply Make & Model	Type of Process	Dinse Cable Connector Mole	Dinse Tig Connector Series Tig Torch Models					
			Air Cooled				Water Cooled	
			24 80A	9 125A	17 150A	26 200A	20 250A	18 350A
MILLER®								
Moxstar 85S, 150S	Tig/Stick	LDP-25M	LDTS-24-M	LDTS-917-F	n/r	n/r	n/r	n/r
Maxstar 140STR		LDP-25M	LDTS-24-M	LDTS-917-F	n/r	n/r	n/r	n/r
Maxstar 150 STL & STH		LDP-25M	LDTSI-24-M	LDTSI-917-F	LDTSI-917-F	n/r	n/r	n/r
Maxstar 200		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
Maxstar 200 STR		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
Maxstar 200SD		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
Maxstar 200DX & LX		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
Maxstar 250 T		LDP-50M	n/r	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
Maxstar 300		LDP-70M	n/r	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Maxstar 350		LDP-70M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Econotig		LDP-50M	n/r	LDTI-917-F	LDTI-917-F	LDTI-26-R	n/r	n/r
Dynasty 200-SD & DX		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
Dynasty 350		LDP-70M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
300SD/DX/LX		LDP-70M	n/r	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Syncrowave 180SD & 200		LDP-50M	n/r	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC
Syncrowave 250DX		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Syncrowave 350LX		LDP-70M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
CST 250, 300		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Invision 354 MP	Mig/Stick/Gouging	LDP-70M	n/r	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
XMT 304, 350	Mig/Tig/Stick	LDP-70M	n/r	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
LINCOLN®								
Invertec V100-S	Tig/Stick	LDP-25M	LDTS-24-M	LDTS-917-F	n/r	n/r	n/r	n/r
Invertec V130-S		LDP-25M	LDTS-24-M	LDTS-917-F	LDTS-917-F	n/r	n/r	n/r
Invertec V160-S		LDP-50M	n/r	LDTI-917-F	LDTI-917-F	LDTI-26-R	n/r	n/r
Invertec V160-T		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	n/r	n/r
Invertec V205-T		LDP-50M	n/r	LDTI-917-F	LDTI-917-F	LDTI-26-R	n/r	n/r
Invertec V250-S		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Invertec V275-S		LDP-70M	n/r	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-L	LDTI-1820-L
Square Wave Tig 175		LDP-50M	n/r	LDTI-917-F	LDTI-917-F	LDTI-26-R	n/r	n/r
Square Wave Tig 275		LDP-70M	n/r	n/r	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC
Invertec STT II	Mig	LDP-70M	n/a	n/a	n/a	n/a	n/a	n/a
CV-250, 300	Mig	LDP-70M	n/a	n/a	n/a	n/a	n/a	n/a
Power Wave 355	Mig/Tig/Stick	LDP-70M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Invertec V300-Pro		LDP-70M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Invertec V350-Pro		LDP-70M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
THERMAL ARC®								
Drogster 80	Tig/Stick	LDP-25M	n/r	LDTS-917-F	n/r	n/r	n/r	n/r
P-Wee 85S		LDP-25M	n/r	LDTS-917-F	n/r	n/r	n/r	n/r
P-Wee 130S		LDP-25M	n/r	LDTS-917-F	LDTS-917-F	n/r	n/r	n/r
P-Wee 130GTS		LDP-25M	n/r	LDTS-917-F	LDTS-917-F	n/r	n/r	n/r
P-Wee 190S		LDP-50M	n/r	LDT-917-F	LDT-917-F	n/r	n/r	n/r
P-Wee 200GTS		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
P-Wee 250GTS		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	n/r
Pro-Lite 260S, LS-300		LDP-50M	n/r	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Pro-Wave 300GTSW		LDP-70M	n/r	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L
Pro-Wave 400GTSW		LDP-70M	n/r	n/r	n/r	LDT-26-R	LDT-1820-L	LDT-1820-L
Pro-Plus 400S		LDP-70M	n/r	n/r	n/r	LDT-26-R	LDT-1820-L	LDT-1820-L
Pro-Plus 400GTS		LDP-70M	n/r	n/r	n/r	LDT-26-R	LDT-1820-L	LDT-1820-L
Fabricator 210, 250	Mig	LDP-50M	n/a	n/a	n/a	n/a	n/a	n/a
Pro-Lite LM-300	Mig/Tig/Stick	LDP-70M	n/r	n/r	n/r	LDT-26-R	LDT-1820-L	LDT-1820-L
Pro-Plus 400GMS		LDP-70M	n/r	n/r	n/r	LDT-26-R	LDT-1820-L	LDT-1820-L
Ultra-Flex 350 Pulse		LDP-70M	n/r	n/r	n/r	LDT-26-R	LDT-1820-L	LDT-1820-L
RED-D-ARC®								
Moxstar 200 SD	Tig/Stick	LDP-50M	n/r	LDT-1917-F	LDT-1917-F	n/r	n/r	n/r
EX300	Mig/Tig/Stick	LDP-70M	n/r	n/r	LDT-1917-F	LDT-26-R	LDT-1820-L	n/r
EX300i		LDP-70M	n/r	n/r	LDT-1917-F	LDT-26-R	LDT-1820-L	n/r

n/a = not applicable n/r = not recommended
 Note: Invertec series with optional solenoid valve uses LDTI series adapters.



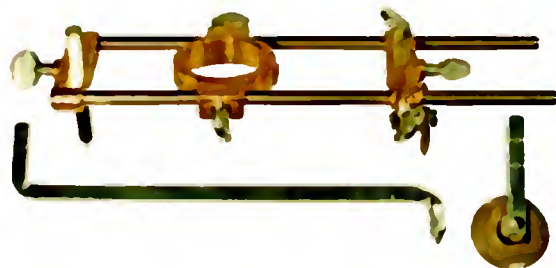
PLASMA CUTTING ROLLER GUIDES

- Guides available to suit most plasma torches
- Optimum cut and speed quality
- Prevents drag damage to tip
- Stainless steel axles and guards are non-rusting
- CNC machined quality parts
- No tools required for fitting
- Free roller wheels won't mark surface
- **Adaptor bush, where required, sold separately**



PLASMA CUTTING CIRCLE GUIDES

- Guides available to suit most plasma torches
- Cuts circles 60 mm to 700 mm in diameter
- Unique rotating bush allows circles to be cut from one position by turning guide frame
- Optimum top height at all times
- Stainless steel axles and rails
- CNC machined quality parts
- **Adaptor bush, where required, sold separately**

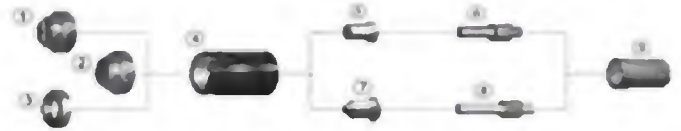


Manufacturer of Torch/Machine	Model of Torch	Roller Guide Order No.	MFG. No.	Circle Guide Order No.	MFG. No.	Bush Order No.	MFG. No.
BINZEL	PSB31KK/HF	826-1075	1506	826-1050	1202+	-	-
BINZEL	CUT-70	TTT988	1539	826-1050	1202+	TTT993	2239
BINZEL	CUT-110/150	TTT989	1540	826-1055	1204+	TTT994	2240
ESAB PCM 500i	PT-31XL	-	-	826-1045	1087+	-	-
ESAB PCM 875/1000i	PT-23/PT-27	-	-	826-1050	1202+	826-1300	2225
ESAB ESP 100i/ PCM 150	PT-25	826-1085	1517	826-1050	1202+	826-1275	2230
ESAB	PT-32	TTT990	1552	826-1050	1202+	TTT995	2232
ESAB PCM70/100 (OLD)	PT-17	826-1130	1514	826-1050	1202+	826-1305	2226
ESAB ARISTOCUT A50	PTH-51	826-1105	1508	826-1065	1088	826-1290	2223
HOBART AIRFORCE375	ICE25C	826-1105	1508	826-1065	1088	826-1290	2223
HYPER THERM MAX43	PAC121TS	826-1105	1508	826-1065	1088	826-1290	2223
HYPER POWERMAX350	PAC 110	826-1105	1508	826-1065	1088	826-1290	2223
HYPER POWERMAX900	PAC123T/125T	826-1105	1508	826-1065	1088	826-1290	2223
HYPER THERM	T-60,T-80,T100	826-1105	1508	826-1065	1088	826-1290	2223
HYPER THERM MAX100	PAC130	826-1155	1530	826-1050	1202+	-	-
HYPER POWERMAX1100	PAC135T	826-1625	1534	826-1050	1202+	826-1362	2250
HYPER MAX100D	PAC160	826-1625	1534	826-1050	1202+	826-1362	2250
LINCOLN PRO-CUT	PCT20/25/55/80	826-1080	1509	826-1050	1202+	826-1630	2229
LINCOLN PC-60	P-70 (CEBORA)	826-1095	1527	826-1050	1202+	-	-
LINCOLN PC-100	P-100 (CEBORA)	826-1190	1542	826-1050	1202+	-	-
MLR SPECTRUM 300/375	ICE12C/25C/27C	826-1105	1508	826-1065	1088	826-1290	2223
MILLER SPECTRUM 701	ICE 40C/50C	826-1110	1510	TTT991	1090	-	-
MILLER SPECTRUM 1000	ICE 80T	826-1110	1510	TTT991	1090	-	-
MILLER SPECTRUM 2050	ICE55C	826-1110	1510	TTT991	1090	-	-
MILLER SPECTRUM 3080	ICE80C	826-1625	1534	826-1050	1202+	826-1362	2250
MILLER SPECTRUM 1250	ICE100	826-1155	1530	826-1050	1202+	-	-
THERMAL DRAG-GUN	PCH10/25/26/28	-	-	TTT992	1093	-	-
THERMAL PAK 50XL	PCH35/40/42	-	-	TTT992	1093	-	-
THERMAL DYN 5XR	PCH-51	826-1110	1510	TTT991	1090	826-1285	2221
THERMAL PAK 625	PCH-75	826-1145	1520	826-1050	1202+	-	-
THERMAL DYN 10XR	PCH-52	-	-	826-1055	1204+	826-1440	2272
THERMAL PAK 1250	PCH-100	826-1145	1520	826-1050	1202+	-	-
TD 50XLPLUS/ PAK75XL	PCH60/62/75/76	826-1145	1520	826-1050	1202+	-	-
THERMAL PAK100XL	PCH80/100/102	826-1145	1520	826-1050	1202+	-	-
THERMAL"1" TORCH	"1" TORCH	826-1145	1520	826-1050	1202+	TTT998	2245
TD A40i COMPACT	'1'T-SL60	826-1145	1520	826-1050	1202+	TTT998	2245
TD CUTMASTER 38	'1'T-SL60	826-1145	1520	826-1050	1202+	TTT998	2245
TD CUTMASTER 81	'1'T-SL60	826-1145	1520	826-1050	1202+	TTT998	2245
TD AP70	'1'T-SL60	826-1145	1520	826-1050	1202+	TTT998	2245
TD AP90	'1'T-SL100	826-1145	1520	826-1050	1202+	TTT998	2245
TD CUTMASTER 101	'1'T-SL100	826-1145	1520	826-1050	1202+	TTT998	2245

Note: All reference to genuine manufacturer's equipment numbers and/or trade names or trademarks are for identification and convenience only. The trademarks and trade names are the property of their respective owners.

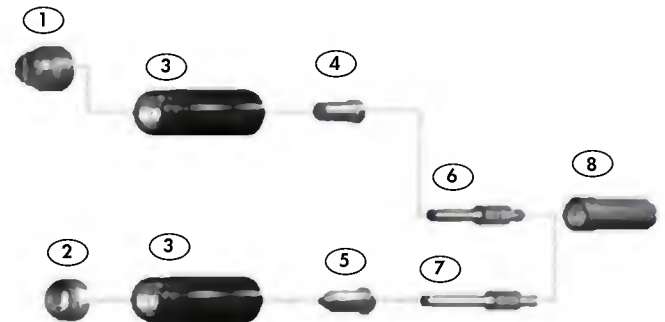
MILLER® ICE-50C TORCH

Order No.	Item	MFG No.	Description	Std Pkg
909-2860	1	192053	Drag Shield	1
909-2785	2	180341	Machine Shield	1
909-2775	3	177888	Deflector	1
909-2845	4	192050	Cup, Retaining	1
909-2780	5	177890	Tip, Standard	5
909-2830	6	192047	Electrode	5
909-2760	7	177876	Extended Tip	5
909-2835	8	192048	Extended Electrode	5
909-2770	9	177886	Swirl Ring	1



MILLER® ICE-55C, 55CM, TORCHES

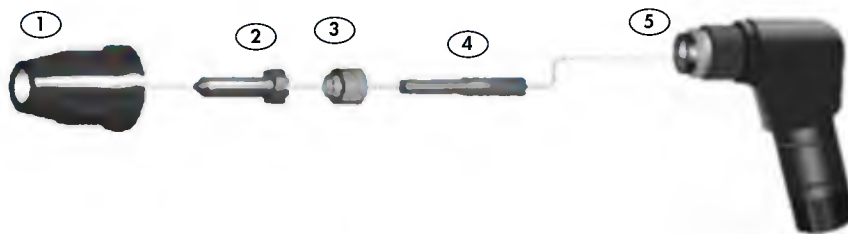
Order No.	Item	MFG No.	Description	Std Pkg
909-2860	1	192053	Shield, Drag	1
909-2775	2	177888	Deflector	1
909-2845	3	192050	Cup, Retaining	1
909-2850	4	192051	Tip, Standard	5
909-2865	5	192056	Tip, Extended	5
909-2830	6	192047	Electrode, Standard	5
909-2835	7	192048	Electrode, Extended	5
909-2840	8	192049	Swirl Ring	1



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THERMAL DYNAMICS® PCH/M-28, PCH-26 TORCHES

PAKMASTER® 50XL, PAKMASTER® 50XL PLUS, ECONO-PAK™ 50



Order No.	Item	MFG No.	Description	Std Pkg
909-5230	1	9-6003	Shield Cup	1
909-5235		9-6004	Shield Cup, Crown, 9-6003 Required	1
909-5595		9-6503	Shield Cup, Long Life	1
909-5215	2	9-6000	Tip	10
909-5220		9-6001	Tip, Drag	10
909-5225		9-6002	Tip, Gouging	10
909-5580		9-6500	Tip, Stand Off, LongLife	10

Order No.	Item	MFG No.	Description	Std Pkg
909-5585		9-6501	Tip, Drag	10
909-5590		9-6502	Tip, Gouging, LongLife	10
909-5245	3	9-6007	Gas Distributor	5
909-5605		9-6507	Gas Distributor, Long Life	5
909-5240	4	9-6006	Electrode	10
909-5600		9-6506	Electrode, Long Life	10
909-5115	5	9-5807	Hand Torch 70°	1

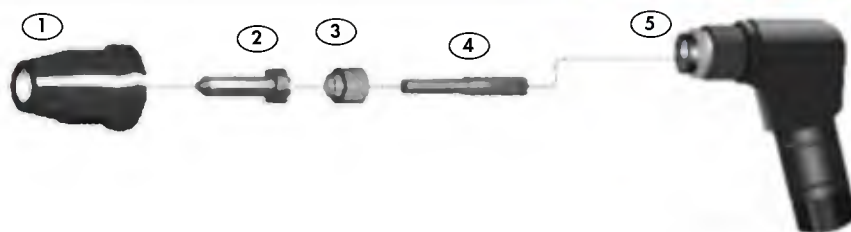
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PLASMA TORCH REPLACEMENT PARTS

THERMAL DYNAMICS® PCH/M-35

STAK PAK®, PAKMASTER® 50

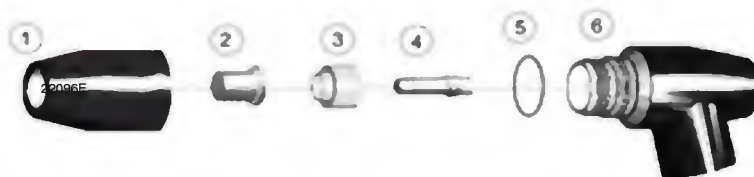


Order No.	Item	MFG No.	Description	Std Pkg
909-5230	1	9-6003	Shield Cup	1
909-5235		9-6004	Shield Cup, Crown, 9-6003 Required	1
909-5595		9-6503	Shield Cup, Long Life	10
909-5215	2	9-6000	Tip	10
909-5220		9-6001	Tip, Drag	10
909-5225		9-6002	Tip, Gouging	10

Order No.	Item	MFG No.	Description	Std Pkg
909-5580		9-6500	Tip, Stand Off	10
909-5585		9-6501	Tip, Drag	5
909-5590		9-6502	Tip, Gouging Lonlife	10
909-5245	3	9-6007	Gas Distributor	5
909-5605		9-6507	Gas Distributor, Long Life	5
909-5240	4	9-6006	Electrode	10
909-5600		9-6506	Electrode, Long Life	10
909-5115	5	9-5807	Hand Torch 70°	1

THERMAL DYNAMICS®, PCH/M-35

PAKMASTER® 75, ECONO-PAK™ 100,
PAKMASTER® 75XL PLUS, PAKMASTER® 100XL PLUS,
CUTMASTER® 80XL

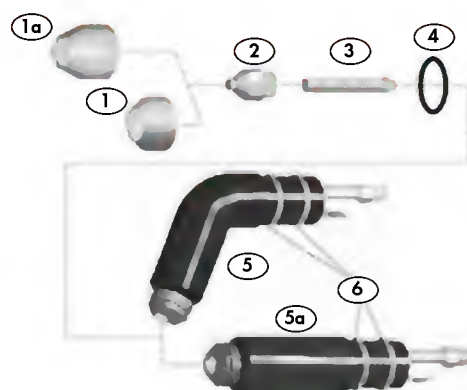


Order No.	Item	MFG No.	Description	Std Pkg
909-4585	1	8-7500	Shield Cap	1
909-4620		8-7507	Crown Shield Cup	1
909-4605	2	8-7504	Tip, 55 Amp	5
909-5630		9-7726	Tip, 60 Amp	5
909-5635		9-7728	Tip, 80 Amp	5
909-4610		8-7505	Tip, 70 Amp	5
909-4600		8-7503	Drag Tip, 35 Amp	5

Order No.	Item	MFG No.	Description	Std Pkg
909-4615		8-7506	Gouging Tip	5
909-4590	3	8-7501	Gas Distributor	5
909-4625		8-7508	Gouging Gas Distributor	1
909-4595	4	8-7502	Electrode	5
909-3995	5	8-0532	O-Ring	10
909-4630	6	8-7510	Torch Body 70°	1
909-4635		8-7512	Torch Body, Machine	1

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THERMAL DYNAMICS® PAK® 3XR, 4XI, 5XT, 5XR, 6XI, 625XR, 750XR, PCH/M-51 TORCH



Order No.	Item	MFG No.	Description	Std Pkg
909-4875	1	9-5630	Shield Cup	10
909-4350	1a	8-5526	Crown Shield Cup	5
909-4880	2	9-5631	Tip, 0.043	10
TTT729		9-5631UP	Tip, 0.043, Unplated	10
909-4970		9-5724	Tip, 0.078, Gouging	10
909-4885	3	9-5633	Electrode	10

Order No.	Item	MFG No.	Description	Std Pkg
TTT730		9-5633UP	Electrode, Unplated	10
909-4345	4	8-5525	O-Ring	10
909-4895	5	9-5635	51, Hand Torch	1
909-4890	5a	9-5634	51, Machine Torch	1
909-4000	6	8-0533	O-Ring	10

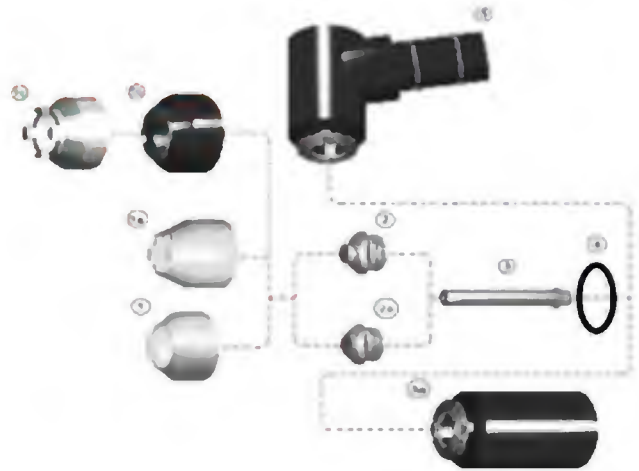
Pak® 3XR, 4XI, 5XT, 5XR, 6XI, are the Registered Trademarks of Thermal Dynamics Corp.

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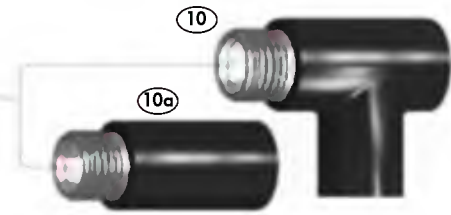
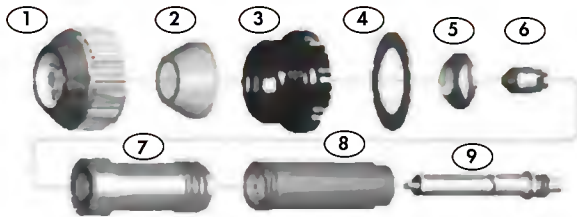
THERMAL DYNAMICS®

PAK® 6XR, 7XR, 8XR, 10XR, 625XR, 750XR, 1000XR, 1250XR, PCH/M-52 TORCH

Order No.	Item	MFG No.	Description	Std Pkg
909-4855	1	9-5617	Shield Cup	10
909-4925	1a	9-5694	Crown Shield Cup	10
909-5090	1b	9-5781	Shield Cup, Long, SR	1
909-5085	1c	9-5780	Shield Cup, Metal	1
909-4940	2	9-5708	Tip, 0.059, 100 Amp	10
909-5095		9-5782	Tip, 0.052, 80 Amp	10
909-4935		9-5707	Tip, 0.047, 70 Amp	10
TTT759		9-5707P	Tip, 0.043, 45 Amp	10
909-4865		9-5618	Tip, 0.031, 35 Amp	10
909-4930		9-5702	Gouging Tip, 100 Amp	10
909-4950	2.a	9-5710	Tip, 0.047, Plated	10
909-4945		9-5709	Gouging Tip, 70 Amp	10
909-4870	3	9-5619	Electrode, Air	10
909-4150		8-3331	Electrode, Air Plated	10
909-4955		9-5711	Electrode, Nitrogen	10
909-4345	4	8-5525	O-Ring	10
909-4910	5	9-5642	52, Hand Torch	1
909-4915	5a	9-5643	52, Machine Torch	1



PAK® 44, 45, PCH/M-6B TORCH



Order No.	Item	MFG No.	Description	Std Pkg
909-4455	1	8-6515	End Cap	1
909-4450	2	8-6514	End Piece	10
909-4515	3	8-6581	Outer Insulator	1
909-4445	4	8-6512	Gasket	5
909-4490	5	8-6572	Tip, 0.125, 400 Amp	5
909-4520		8-6582	Tip, 0.113, 300 Amp	5
909-4495		8-6575	Tip, 0.093, 200 Amp	5
909-4545		8-6648	Tip, 0.076, 150 Amp	5
909-4510		8-6580	Tip, 0.067, 100 Amp	5

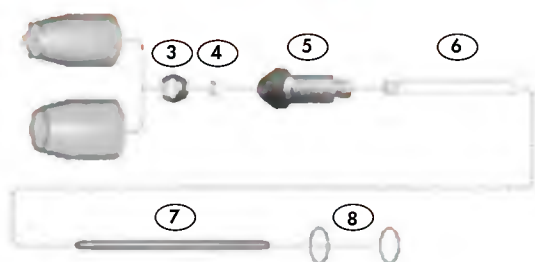
Order No.	Item	MFG No.	Description	Std Pkg
909-4535	6	8-6586	Electrode, Lo-Amp	10
909-4505		8-6578	Electrode	10
909-4485	7	8-6571	Liner w/O-Ring	1
909-4480	8	8-6569	Gas Distributor	1
909-4540	9	8-6615	Electrode Holder	1
909-4530	10	8-6584	6B 90° Hand Torch	1
909-4525		8-6583	6B 70° Hand Torch	1
909-4500	10a	8-6577	6B Machine Torch	1

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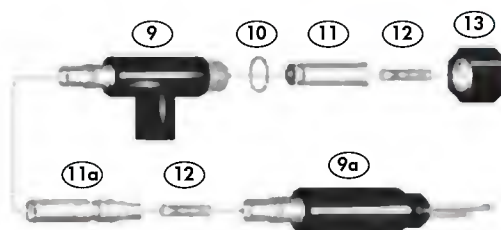


PLASMA TORCH REPLACEMENT PARTS

THERMAL DYNAMICS® PAK® 10, 4B/4BT TORCH



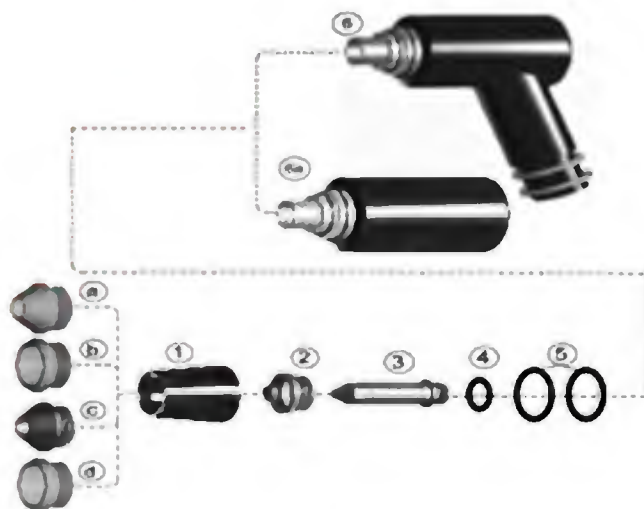
Order No.	Item	MFG No.	Description	Std Pkg
909-4235	1	8-4213	Crown Shield Cup	10
909-4170	2	8-4088	Shield Cup	10
909-4210	3	8-4189	Tip, 0.030	10
909-4230		8-4211	Tip, 0.046	10
909-4175		8-4153	Tip, 0.059	10
909-4780	4	9-2421	Gas Distributor	10
909-4180	5	8-4154	Liner, w/O-Ring	1
909-4205	6	8-4182	Sleeve	1
909-4165	7	8-4073	Electrode	5



Order No.	Item	MFG No.	Description	Std Pkg
909-4025	8	8-0554	O-Ring	10
909-4195	9	8-4160	PCH-4B Hand Torch	1
909-4215	9a	8-4196	PCH-4BT Mach Torch	1
909-3990	10	8-0530	O-Ring	10
909-4185	11	8-4156	Collet, 4B, w/O-Ring	1
909-4220	11a	8-4197	Collet, 4BT, w/O-Ring	1
909-4160	12	8-4050	Spring	1
909-4190	13	8-4158	Back Cap	1

MERLIN®, PAK® 15XC, PCH/M-150 TORCH

Order No.	Item	MFG No.	Description	Std Pkg
909-5010	1a	9-5750	Shield Cup	1
909-5045	1b	9-5758	Shield Cup, Tip Exp.	1
909-5100	1c	9-5790	Shield Cup, Metal	1
909-5070	1d	9-5774	Shield Cup, Gouging	1
909-4990	2	9-5746	Tip, 0.070 Air 150 Amp	5
909-4995		9-5747	Tip, 0.055 Air 100 Amp	5
909-5000		9-5748	Tip, 0.043 Air 50 Amp	5
909-5015		9-5751	Tip, 0.070 Oxy 150 Amp	5
909-5020		9-5752	Tip, 0.052 Oxy 100 Amp	5
909-5025		9-5753	Tip, 0.043 Oxy 50 Amp	5
909-5065		9-5767	Tip, 0.067 Nit 150 Amp	5
909-5060		9-5766	Tip, 0.052 Nit 100 Amp	5
909-5055		9-5765	Tip, 0.043 Nit 50 Amp	5
909-5075		9-5775	Tip, AR/H 150 Amp	5
909-5005	3	9-5749	Electrode, Air	5
909-5030		9-5754	Electrode, Nit, AR/H	5
909-5050		9-5760	Electrode, Oxy	5
909-4010	4	8-0537	O-Ring, Small	10
909-4020	5	8-0540	O-Ring, Large	10
909-4975	6	9-5743	150 Hand Torch	1
909-7985	6a	9-5745	150 Machine Torch	1



HYPERTHERM® MAX20®, PAC 110 TORCH

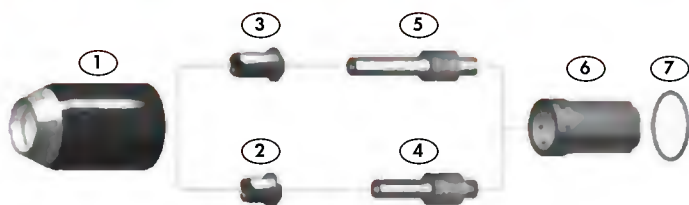


Order No.	Item	MFG No.	Description	Std Pkg
TTT665	1	020218	Retaining Cap	1
909-1530	2	020381	Nozzle, Extended	10
909-1535	3	020382	Electrode, Extended	10
TTT667	4	020299	Nozzle, 20 Amp, 0.028	10

Order No.	Item	MFG No.	Description	Std Pkg
909-1445	5	020220	Electrode	10
909-1450	6	020239	Swirl Ring	2
TTT668	7	044016	O-Ring	10

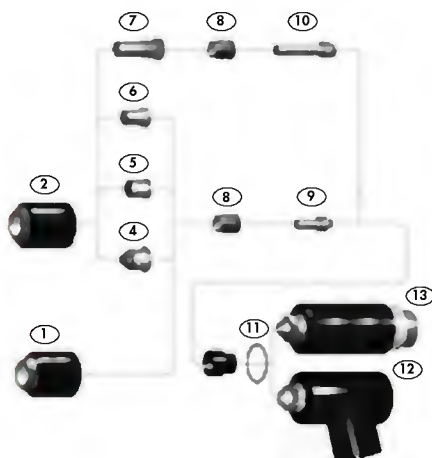
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MAX40CS®, MAX-42®, MAX-43®, PAC 120 TORCH



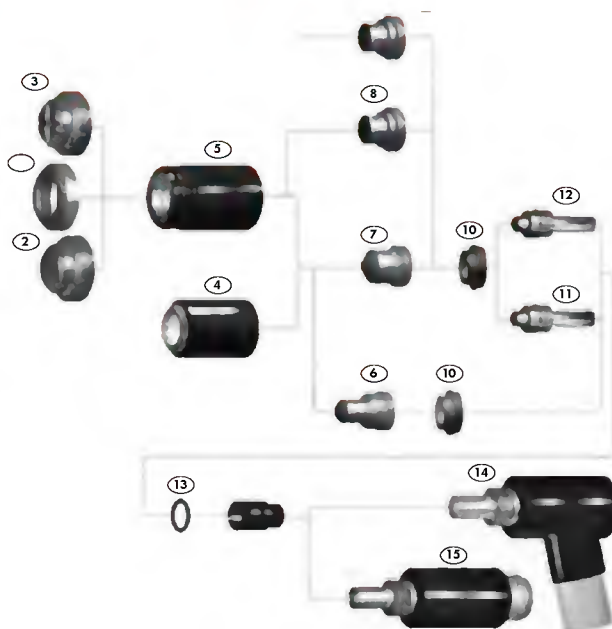
Order No.	Item	MFG No.	Description	Std Pkg
TTT670	1	020930	Retaining Cap	1
TTT672	2	020395	Nozzle	10
909-1520		020350	Nozzle, 40 Amp	10
TTT674	3	020546	Nozzle, Extended	10
909-2230	4	120573*	Electrode	5
909-2235	5	120574*	Electrode, Extended	5
909-1525	6	020361	Swirl Ring	2
TTT668	7	044016	O-Ring	10

MAX40®, HT40®, PAC 140 TORCH



Order No.	Item	MFG No.	Description	Std Pkg
TTT675	1	020200	Retaining Cap, Tapered	1
909-1380	2	020104	Retaining Cap	1
909-1395	4	020131	Pipe Nozzle	10
909-1390	5	020115	Nozzle, Hand	10
909-1370	6	020102	Nozzle, Machine	10
TTT678	7	020466	Nozzle, Extended	10
909-1365	8	020101	Swirl Ring	2
909-1375	9	020103	Electrode, Air	10
TTT680	10	020467	Electrode, Extended	10
TTT668	11	044016	O-Ring	10
TTT682	12	020122	40, Torch w/Handle	1
909-1385	13	020114	40, Machine Torch	1
TTT683	NS	027055	Silicone Grease	1

HYPERTHERM® MAX70®, MAX80®, MAX100®, PAC 130 TORCH



Order No.	Item	MFG No.	Description	Std Pkg
TTT684	1	020333	Deflector	1
909-1495	2	020334	Machine Shield, 100 Amp	1
909-1500	3	020335	Hand Shield	1
TTT686	4	020184	Retaining Cap	1
TTT687	5	020336	Shield Cap	1
TTT689	6	020563	Nozzle, Extended	5
TTT691	7	020203	Nozzle, 40 Amp	5
TTT692		020345	Nozzle, 80 Amp	5
909-1420		020195	Nozzle, 100 Amp	5
909-1550	8	020397	Nozzle, 80 Amp, Shielded	5
909-1510		020337	Nozzle, 100 Amp, Shielded	5
TTT693	9	020396	Nozzle, 40 Amp, Shielded	5
909-1415	10	020194	Swirl Ring	2
TTT695	11	020193	Electrode, Nitrogen	5
TTT696	12	020191	Electrode, Air	5
TTT697	13	026018	O-Ring	10
TTT699	14	020189	100, Hand Torch	1
909-1430	15	020201	100, Machine Torch	1
TTT683	NS	027055	Silicone Grease	1

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SUB-MICRONIC COMPRESSED AIR FILTER FOR PLASMA CUTTING SYSTEMS

- Patented concept of filtration will remove oil aerosols, condensed moisture, smoke and particulates from compressed air lines
- Installation on a plasma cutting system eliminates the "sputter" from the arc
- Helps restore plasma system to maximum cutting efficiency, and reduces the corrosive wear on the tip and electrode
- Equipped with mounting bracket and 1/4" NPT ports to match the fitting on most plasma systems
- Max flow @ 80 PSI: 2700 SCFH
- Max pressure/temp: 10 PSI/175°F
- Removal rating (Nom.): 0.01 microns

Order No.	MFG No.
394-1040	M-26
REPLACEMENT FILTER ELEMENT, SOLD PER BOX OF 4	
394-1060	M-723



MOTOR GUARD CORPORATION



HARLEY-DAVIDSON®
PERSONAL SAFETY WEAR

H-D® PREMIUM STYLE SERIES

ADVANCED TECHNOLOGY
MEETS CUTTING-EDGE DESIGN

- Variable shades 9-13 with external shade selection knob allows for easy access shade selection
- Solar-powered auto-darkening filter
- Extended coverage of the helmet shell provides unsurpassed comfort and protection
- Patented telescoping headgear design allows for better field of vision and fit with other safety equipment
- 2-year warranty on ADF
- Choice of Flame (**SAL969**) or Racing (**SAL970**) design high-gloss graphics

Order No.	MFG No.	Design
SAL969	K918	Flame
SAL970	K919	Racing

**SERIOUS STYLE.
SERIOUS PROTECTION.**



SAL969



SAL970



H-D® SIGNATURE SERIES

CLASSIC STYLE COMBINING VALUE & VARIETY

- Sleek, black helmet features the Harley-Davidson® classic Bar and Shield and Signature logos
- Available in 3 filter options to suit whatever your requirements are:
 - Shade 10 Passive 2" x 4 1/4" Flip-Up (**SAL972**)
 - Shade 10 Passive 4" x 5 1/4" Wide View (**SAL973**)
 - Shade 10 Solar-Powered Auto-Darkening Filter (**SAL971**)
- Patented telescoping headgear design allows for better field of vision and fit with other safety equipment



SAL972



SAL973



SAL971

Order No.	MFG No.	Description
SAL972	K915	Passive 2" x 4-1/4" Flip-Up
SAL973	K916	Passive 4" x 5-1/4" Wide View
SAL971	K917	Solar-Powered Auto-Darkening Filter



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WARNING: Not intended for use when riding a motorcycle. Improper use may result in serious personal injury or death.



ALL SPERIAN HELMETS:

- Use a combination of LCD technology and solar cells eliminating the need for On/Off switches
- Provide full time IR/UV protection at all times in the unlikely event of a cartridge failure
- Are water resistant to IP76 standards against humidity and moisture
- Meet worldwide safety standards including CSA, ANSI and DIN



P250 SERIES WELDING HELMETS

- Nylon helmet shell
- Telescopic, fully adjustable headgear
- Front loading filter and cover plate
- Choice of passive shade 10 lens, single shade, or variable-shade auto-darkening filters
- Single shade: 3-light, 10-dark, with 1.93" x 3.86" viewing area and 2 sensors
- Variable shade: 3-light, variable 9-13 - dark, with 1.93" x 3.86" viewing area
- Solar powered with replaceable batteries
- ANSI Z87, CSA Z94
- 2 year warranty on ADF



Order No.	MFG No.	Shade	Colour
TTU053	K2500	Passive Shade 10	Metallic Black
TTU054	K2501	Single Shade	Metallic Red
TTU055	K2502	Variable Shade	Metallic Red

ACCESSORIES

Order No.	MFG No.	Description
TTU059	K25012A	Outside Cover Lenses, 2/Pkg
TTU060	K25112A	Inside Cover Lenses, 2/Pkg
TTU061	K25122A	Intermediate or Inside (Passive) Cover Lenses, 2/Pkg
TTU062	K25182A	Sweatbands, 2/Pkg.

* Magnifying lenses from 1.00 to 4.00 are also available

SPERIAN SATELLITE™ OSE HELMETS

- Widest field of vision of any helmet
- ADF technology is combined with easily accessible external controls to eliminate the need for helmet removal
- Shell profile channels fumes away, extended coverage protects chest, neck and ears
- Variable shade selection of 5 through 13 with infinite potentiometer adjustment
- Grinding mode setting
- Sensitivity control to match application
- Delay switch to control dark to light switch time
- Power supply: Solar cells
- 2-year warranty on ADF cartridge



Order No.	MFG No.	Colour
SAJ752	K600	Charcoal
SAJ753	K601	Blue
SAJ754	K602	Silver

REPLACEMENT LENSES

Order No.	MFG No.	Description	Qty/Pkg.
SAM897	K5910	Front Cover Lenses	2
SAM898	K5911	Front Cover Lenses	5
SAM901	K5812	Inside Cover Lenses	5
SAM902	K5813	Inside Cover Lenses, Dark Green	5
SAM903	K5814	Inside Cover Lenses, Light Green	5

P350 SERIES WELDING HELMETS

- Narrow shape is perfect for tight spaces and out-of-position applications
- Radius profile with vertically curved cover plate quickly channels away smoke and spatter
- Flame resistant nylon shell with fully adjustable telescopic headgear
- Front loading ADF and cover plate
- Choice of passive shade 10 lens, and variable auto-darkening filter
- Variable shade: 3-light, variable 9-13 - dark, with 1.93" x 3.86" viewing area
- Solar power with replaceable batteries
- ANSI Z87, CSA Z94
- 2 year warranty on ADF



Order No.	MFG No.	Shade	Colour
TTU056	K3500	Passive Shade 10	Metallic Black
TTU057	K3501	Variable Shade	Metallic Blue
TTU290	K3502	Variable Shade	Metallic Red w/Decal

ACCESSORIES

Order No.	MFG No.	Description
TTU070	K35102A	Outside Cover Lenses, 2/Pkg
TTU060	K25112A	Inside Cover Lenses, 2/Pkg
TTU061	K25122A	Intermediate or Inside (Passive) Cover Lenses, 2/Pkg
TTU062	K25182A	Sweatbands, 2/Pkg

* Magnifying lenses from 1.00 to 4.00 are also available

SPERIAN MIRAPLUS™ OSE HELMETS

- Widest field of vision of any helmet
- Shell profile channels fumes away, extended coverage protects chest, neck and ears
- Shade 10 or 11 protection
- 2-year warranty on cartridge



Order No.	MFG. No.	Colour
SAQ330	K533	Black
SAJ750	K532	Blue

REPLACEMENT LENSES

Order No.	MFG No.	Description	Qty/Pkg.
SAM897	K5910	Front Cover Lenses	2
SAM898	K5911	Front Cover Lenses	5
SAM901	K5812	Inside Cover Lenses	5
SAM902	K5813	Inside Cover Lenses, Dark Green	5
SAM903	K5814	Inside Cover Lenses, Light Green	5



NOVA AUTO-DARKENING FILTER

- Automatically darken to shade 10
- Fits most competitive 2" x 4 1/4" openings
- Solar powered
- 2-year warranty



Order No. MFG No.

SAJ757 K590

SIRIUS AUTO-DARKENING FILTER

- Automatically adjusts to shade 10
- Fits most 2" x 4 1/4" helmet openings
- Economical way to upgrade to ADF technology
- Battery powered
- 1-year warranty



Order No. MFG No.

SAM904 K580

HELMET ACCESSORIES

HARD HAT ADAPTER

- Simply remove existing headgear from any *Sperian* helmet and install adapter
- For use with the majority of popular hard hat orders
- Slip-on/off spring assembly for easy installation



Order No. MFG No. Description

SAN048 K5930 Fits all *Sperian* helmets



LEATHER CHEST PROTECTOR

- Insures the safety of welder's chest region
- Clip attachment grips the rim of helmet
- Provides secure fit while eliminating the need for velcro-type attachments on shell



Order No. MFG No. Description

SAN051 K5931 Fits all *Sperian* helmets



LEATHER NECK PROTECTOR

- Coverage of the entire lower neck and back regions of head



Order No. MFG No. Description

SAN049 K5932 Fits all *Sperian* helmets



OTHER ACCESSORIES

- Sweatbands** - For use with all *Sperian* helmets
- Carry-Bag** - Back-pack style



Order No. MFG No. Description

SAN046 K5822 Sweatbands (2/pkg)
SAN047 K906 Carry-Bag

MAGNIFICATION LENSES

- Eliminates the need to wear eyeglasses under your *Sperian* welding helmet
- Simply remove the existing inside cover plate and insert the magnification level of your choice
- 2" x 4 1/4"
- JW Harris brand
- Designed to fit *Sperian* helmets exclusively

Order No.	MFG No.	Diopter
SAM905	JOSC100	1.00
SAM907	JOSC150	1.50
SAN043	JOSC200	2.00
SAN045	JOSC250	2.50



OS100 WELDING POWERED AIR PURIFYING RESPIRATOR SYSTEM

- Provides complete protection against dust, UV/IR radiation, flying particles and metal fumes which are emitted during the welding process
- This NIOSH approved technology utilises the High Efficiency Particulate Air (HEPA) Filter System
- Motorised blower that is powered by a rechargeable, lightweight, lithium ion battery
- Audible and visible alarms warn the user of a missing or clogged filter and low-battery condition
- Air hose protected with a flame-retardant cover
- Ergonomically designed belt is lightweight and adjustable

Battery life: 8 hours of normal use.

Battery charging time: 7-9 hours for total charge
NIOSH 42, CFR 34
ANSI Z87, CSA Z94



Order No.	MFG No.	Description	Colour
SAS074	P581000	Complete OS100 System with <i>Satellite</i>	Blue
SAS075	P571000	Complete OS100 System with <i>Orion</i>	Black
SAS076	P561000	Complete OS100 System with <i>Mira Plus</i>	Black
SAS077	P169220	HE Filter	-



SPEEDGLAS™ UTILITY WELDING HELMETS

- Specifically designed for MIG and stick welding only
- Perfect for the serious part-time welder, as well as for maintenance welding
- Premium optical clarity, consistent shading across lens
- UV/IR protection, even when lens is off or in shades 3 light states
- Choice of shade 10 or shade 11
- 3.57" x 1.68" (91 X 43 mm) viewing area
- 2000 hours average battery life
- Durable, chemical and heat resistant nylon helmet weighs only 17.14 oz. (486 grams)



Order No.	MFG No.	Shade Range
SAN346	04-0014-10U	3/10
SAN347	04-0014-11U	3/11

SPEEDGLAS™ FLEXVIEW 9002X WELDING HELMETS

- The 9002X includes all the features of the 9002V, with a larger 4.09" x 2.13" viewing area (104 mm x 54 mm)
- Solar panel on the front of the lens works to extend battery life to approximately 3000 hours
- Sensitivity and delay controls
- Durable, chemical and heat resistant nylon helmet weighs only 17.39 oz (493 grams)



Order No.	MFG No.	Description	Shade Range
SAN348	04-0012-21	Complete Helmet and Lens	3 / 9-13
SAN349	04-0012-21SW	Complete Helmet and Lens with SideWindows™	3 / 9-13

SPEEDGLAS™ 9002V WELDING HELMETS

- 9002V lenses have detectors with increase sensitivity to provide reliable switching for a wide range of welding methods
- Excellent for extremely stable arcs like those from low amp TIG inverters
- Delay function lets the welder decide how quickly the lens changes from dark to light state
- Outstanding optical clarity, consistent shading across entire viewing area
- Auto-Off: Turns off 60 minutes after last arc
- Variable shade range: 3/9-13
- Sensitivity and delay controls
- 3.57" x 1.68" (91 x 43 mm) viewing area
- Durable, chemical and heat resistant nylon helmet weighs only 17.39 oz. (493 grams)



Order No.	MFG No.	Description	Shade Range
SAN350	04-0012-31	Complete Helmet & Lens	3/9-13
SAN351	04-0012-31SW	Complete Helmet & Lens with SideWindows™	3/9-13

SPEEDGLAS™ SL HELMET

- 25% lighter than 3M's current auto-darkening welding helmets
- Head suspension design increases adjustability
- User-selectable ADF shades 8-12 with 4 sensitivity levels for all types of arc-welding
- Provides excellent optical quality and switching performance
- Motion detector ON/OFF
- 13 oz. (including filter)



Order No.	MFG No.	Description
SAQ961	05-0013-41	Helmet w/Auto-Darkening Filter (ADF)
SAQ962	05-0000-41	Replacement ADF Shade 8-12

SPEEDGLAS™ ADFLO™ RESPIRATORY PROTECTION

- Speedglas™ with Adflo™ is a lightweight, compact, all-in-one system
- "Stackable" configuration means that the Adflo™ cartridge can be stacked onto the HE particle filter for protection against organic vapours, sulphur dioxide, chlorine, and hydrogen chloride vapours
- Adflo™ has constant airflow rate regardless of the battery charge and filter loading
- Audible visual alarms signal low airflow and low battery charge
- Slim profile fits into tight spaces
- Brushless motor
- NiMH battery charges in about 3 hours, will not overcharge
- NIOSH approved



Order No.	MFG No.	Description
SAN355	15-1101-21	Adflo™ with 9002X Helmet
SAN356	15-1101-31	Adflo™ with 9002V Helmet



REPLACEMENT FILTERS & CARTRIDGES

Order No.	MFG No.	Description
SAN357	15-0009-99X02	2-pack Adflo™ Spark Arrestor
SAN358	15-0099-99X06	6-pack Adflo™ Prefilter
SAN359	15-0099-99X12	12-pack Adflo™ Prefilter
SAN360	15-0199-99X02	2-pack Adflo™ HE Particle Filter
SAN361	15-0199-99X06	6-pack Adflo™ HE Particle Filter
SAN362	15-0199-99X36	36-pack Adflo™ HE Particle Filter
SAN363	15-0399-99X02	2-pack Adflo™ OV/SD/CL/HC Cartridge
SAN364	15-0399-99X06	6-pack Adflo™ OV/SD/CL/HC Cartridge



EQC® ELECTRONIC QUICK CHANGE® AUTO-DARKENING HELMETS

Jackson's line of EQC® filters offer safe, reliable IR/UV protections at all times, and are rated with the fastest switching speed in the world! The HTLS feature (High Transmission Light State) allows for hood-down set-up in low ambient light conditions. EQC® filters come with a 2-year limited warranty.



HSL 100 NEXGEN™ EQC® HELMET

- 3N1™ technology allows three modes of operation: Weld (shades 9-13), Grind (3) or Torch (5)
- IntelliSense™ technology allows unit to detect welds less than 5 A
- Smart View™ LCD for fingertip control information
- Clear view light state keeps lens down at all times and reduces strain and fatigue
- Colour: Black
- Meets ANSI Z87.1+ and CSA Z94.31 standards



Order No. **SAN169** MFG No. 3002515

HSL 100 EQC® MASTER VARIABLE HTLS HELMET

- Sensitivity and delay adjustments
- Variable shade range 9-12
- 1 3/4" x 3 3/4" window size
- Colour: Black
- Meets ANSI Z87.1+ and CSA approved

Order No. **PB239** MFG No. 3002513



HSL 100 EQC® PROFESSIONAL® SHADE 10 HELMET

- Intellisense™ technology
- Sensitivity and delay adjustment
- 2 sensors
- 1 3/4" x 3 3/4" viewing area
- Fixed shade 10 • Requires 2 AAA batteries
- 2-year warranty
- Meets ANSI Z87.1+ standards and CSA approved



Order No. **SAN170** MFG No. 3002530

HSL 1 EQC® JOURNEYMAN® HTLS HELMET

- Features an on/off switch with an auto-off feature and uses two "AAA" batteries
- **XB873** (not included)
- Variable shade range 9-12
- 1 1/5" x 3 3/4" window size
- Colour: Black
- Meets ANSI Z87.1+

Order No. **PB195** MFG No. 3002533



Auto-Darkening Lens Features	NexGen™	Master Variable	Professional Shade 10	Journeyman® Variable
Solar Powered				
EQC® Technology Powered	✓	✓	✓	✓
1 1/5" x 3 3/4" Viewing Area				✓
1 3/4" x 3 3/4" Viewing Area		✓	✓	
2 3/8" x 3 3/4" Viewing Area	✓			
Auto-Off Feature	✓	✓	✓	✓
On/Off Switch w/Auto-Off	✓	✓	✓	
Sensitivity Adjustment	✓	✓	✓	
4 Independent Redundant Sensors	✓			
2 Independent Redundant Sensors		✓	✓	
Single Sensor				✓
Uses 2 AAA Batteries		✓	✓	✓
Uses 2 Lithium "Coin" Batteries	✓			
Solar Battery Life Extender	✓	✓		
Low Voltage Indicator Lamp	✓	✓	✓	
Fixed Shade 10			✓	
Variable Shades 9 - 12/13	✓	✓		
Delay Adjustment	✓	✓		
Fits HSL-100 Series Hood (4 1/2" x 5 1/4")	✓	✓	✓	
Fits HSL-1 Series Hood (2" x 4")				✓
3N1™ - Grind, Weld, Cut	✓			
Intellisense™ (Allows for 5 Amp & Below)	✓	✓		

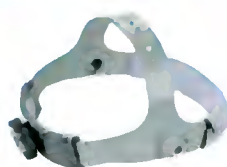
REPLACEMENT HEADGEAR

270 SERIES HEADGEAR

- Far Shadow® Hala X series helmets
- Safer, more comfortable strap material
- Ergonomically designed, streamlined ratchet for easy adjustments and increased shell clearance
- Six crown adjustments and perpendicular to pivot assembly for added balance

170 SERIES HEADGEAR

- Far all "H" series fiberglass helmets
- 45 head size adjustments and 5 crown adjustments
- Ratchet system eliminates "backing off" by the push and turn design
- Lower ratchet strap offers added comfort and strength



SAN183



SAN184



Order No.	MFG No.	Description
SAN183	3002669	270 Headgear
SAN184	3002454	170 Headgear



BOSS™ BIG WINDOW EQC® HELMET

AUTO-DARKENING HELMETS

- Large 13 square inches for optimal viewing area
- Versatile: 3N1 Weld (9-12), Grind (5), Cut mode (3)
- Sensitivity and delay adjustments allows user to adjust lens settings depending on the work environment and process
- Variable shade 9-12
- Amber view lens-gives user greater visibility of weld with less strain on the eye
- *Intellisense™* technology allows unit to detect welds less than 5 amps-ideal for low amp tig
- Two independent sensors
- Mag lens adaptable
- Two-year performance guarantee
- Meets CSA Z94.3 Standards



Order No.	MFG. No.	Description
TTT938	3014754	HS100 Gun Metal w/BOSS™
TTT937	3014755	HLX100 Heavy Metal w/BOSS™
TTU306	3016262	HLX Yellow Flame w/BOSS™
TTU307	3016263	HLX I ² w/BOSS™
TTU308	3016340	HLX Blade Runner w/BOSS™
TTU309	3016336	HLX Speed w/BOSS™
TTT939	3014753	BOSS™ EQC Cartridge Only

NEXGEN™ EQC®

- The next generation of auto-darkening for the welding specialist
- Features four independent sensors in a staggered design to eliminate blocked sensors
- Soft touch controls to eliminate contaminants
- Smart View LCD provides fingertips control adjustments and an easy-to-read digital readout
- Amber view lens provides greater visibility of the weld with less strain on the eyes
- *Intellisense* technology allows unit to detect welds less than 5 amps, ideal for low amp TIG
- Versatile: 3N1 Weld (9-13), Grind (3), and Torch (5) mode
- Protective coating shields EQC® from extreme electromagnetic interference
- Integrated *ClimaSensors™* register ambient temperature three times per minute and adjusts EQC® shade accordingly to ensure a true welding shade
- Variable shade 9-13
- Sensitivity and delay adjustments
- Auto shut-off after 60 minutes in torch and grind modes and 20 minutes after weld mode
- Replaceable lithium batteries with low-battery indicator
- Mag lens adaptable

Order No.	Mfg. No.	Description
SAN169	3002515	HSL100 a/NexGen™
TTT393	3013586	HLX100 Yellow Flame w/NexGen™
TTT395	3013592	HLX100 I ² w/NexGen™
TTU302	3016335	HLX100 Speed w/NexGen™
NT546	3004628	HSL100 Hellraiser w/NexGen™
TTT943	3004384	Cartridge Only



NITRO™ WELDING HELMET

- Infinitely variable shade 9-13
- Sensitivity and delay adjustment
- Lightweight; only weighs 1 lb
- Two independent sensors;ideal for work in tight spaces
- Always on and ready to weld
- Solar powered -no batteries to change
- Two-year performance guarantee
- Meets ANSI Z87.1 standards



NITRO
Auto Darkening Welding Helmet

Order No.	Mfg. No.	Description
SAS083	3018230	Blue Nitro
TTU305	3016157	Smith & Wesson Ghost Flame

REPLACEMENT PARTS

SAS084	3018384	Replacement ADF Cartridge
SAN183	3002669	270-S Headgear
SAS085	3015038	90110 PC Front Cover Plate
SAS086	3016169	24 PC Back Cover Plate, 25/bag
SAS087	3011537	Replacement Sweatband, 2/Pkg.





HSL 100 EQC® PROFESSIONAL® VARIABLE WELDING HELMET

- Variable shade 9-12
- Sensitivity and delay adjustments
- *Intellisense™* technology detects weld less than 5 amps
- Two independent sensors
- Auto-off feature
- 1 3/4" x 3 3/4" viewing area
- CSA approved
- 2-year warranty

Order No. PB238
MFG No. 3002514



HSL-1 APPRENTICE WELDING HELMET

- Fixed shade 10/11 lens
- Solar-powered auto-darkening lens
- Two sensors
- 1 1/5" x 3 3/4" viewing area
- Ideal for hobbyist welder
- 2-year warranty

Order No. NT571
MFG No. 3002516



SHADOW® HSL PASSIVE SERIES HELMETS

- Constructed of engineered thermoplastic allowing for lightweight comfort at only 13.8 ounces
- Narrow shell design is perfect for work in tight spaces
- Extended front for increased throat protection against sparks, slag and fumes
- Can stand up to radiant heat of 350°F

- Comes standard with cover plate and shade 10-polycarbonate filter plate
- Meets ANSI Z87.1, CSA Z94.3 approved



Order No.	MFG No.	Description	Colour
HSL-2 HELMETS - 2" X 4 1/2"			
PB193	3002507	Flip Front	Black
SD618	3002508	Flip Front	Blue
HSL-100 HELMETS - 4 1/2" X 5 1/4"			
SD617	3002498	Fixed Front	Black
SAN172	3002499	Fixed Front	Blue

SD617



PB193



SHADOWAIRE II™

- Powered air purifying respirator featuring tough industrial strength construction with a flame retardant and crush resistant hose – the ONLY one in the industry
- Airflow exceeds NIOSH standard by over 25%
- NiMH battery is 40% lighter than NiCad battery
- Sleek plenum design allows for more head room and attaches to helmet instead of headgear for comfort
- Available with the NexGen™ EQC, latest in auto-darkening technology
- Audible alarm alert low battery and low airflow
- Adjustable belt with lumbar support
- Fast charger provides quick, reliable battery charging
- Includes carry bag
- Meets OSHA requirements & NIOSH approved



TTU310

Order No.	MFG No.	Description
TTU310	3002551	PAPR & P3 Filters, NexGen™ EQC w/2-4 Hour Batteries
TTU311	3002552	PAPR & P3 Filters, NexGen™ EQC w/8 Hour Battery
TTU312	3002544	PAPR & P3 Filters, Shade 10 w/2-4 Hour Batteries
TTU313	3002550	PAPR & P3 Filters, Shade 10 w/8 Hour Battery





RESPIRATOR ADAPTABLE FIBREGLASS HELMET

- Bubble front makes room for mask-type respirators
- Allows for greater worker convenience
- 2" x 4 1/4" plastic flip-front plate holder
- Meets ANSI Z87.1+

Note: Welding fumes are not reduced unless accompanied by the proper respirator



Order No.	MFG No.	Description	Colour
SAN180	3002475	Flip Front, Respirator	Black

FIBREGLASS HANDSHIELDS

- Available in two curved shell models
- Tough, injection-moulded handle
- For inspection and occasional welding applications
- Meets ANSI Z87.1+



SB837



SAN181

Order No.*	MFG No.	Description	Colour
2" X 4 1/4"			
SB837	3002474	Integral Front	Black
4 1/2" X 5 1/4"			
SAN181	3002469	Fixed Front	Black

*Lens plates sold separately

CURVED SHELL FIBREGLASS HELMET

- Curved shell protects chin and lower neck
- 2" x 4 1/2" flip-front design
- Meets ANSI Z87.1+



Order No.	MFG No.	Description	Colour
SAN179	3002464	Flip Front	Black

STRAIGHT SHELL FIBREGLASS HELMET

- Provides extended protection to the throat area
- Allows for better ventilation
- 2" x 4 1/4" plastic flip-front plate holder
- Meets ANSI Z87.1+



Order No.	MFG No.	Description	Colour
SB835	3002468	Flip Front	Black

WELDING HELMETS

- Lightweight design with ratchet headgear
- Comes complete with shade 10 lens
- Choice of 2" x 4 1/4" flip front or 4 1/2" x 5 1/4" wide vision fixed front



NT645



NT687

Order No.	Window size"	Description
NT645	2 x 4 1/4	Flip Front
NT687	4 1/2 x 5 1/4	Fixed Front

LEATHER WELDING HELMET

- Ideal for use in confined spaces
- Tough, pliable, breathable leather covering
- Flip-front glass holder, 2" x 4 1/4"
- Includes adjustable headgear

HUNTSMAN



Order No.	MFG No.
141-1120	3000506

SOLERA™ AUTO CHANGE CARTRIDGE

- Two solar panels and two sensors
- Switching speed of 0.8 milliseconds
- Fits standard 2" x 4 1/4" helmets
- Shade 10/11 protection fits majority of applications

HUNTSMAN



Order No.	MFG No.
141-300900	3004006



FMX™ WELDING HELMETS



- Professional, full-wrap, heat and scratch-resistant graphics
- Packaging reflecting FMX™ quality and performance
- Superior ADF lens
- Proven "3-C" headgear for all-day comfort
- Lightest-weight, full-size helmet available
- Limited lifetime warranty on helmet shell and headgear
- Meets ANSI and CSA standards
- 2-year warranty on ADF lens

Order No.	MFG No.	Description
SAQ809	2999BV913X1	FMX™ helmet with "Flame" graphics
SAQ810	2999BV913X2	FMX™ helmet with "Demon" graphics
SAQ811	2999BV913X3	FMX™ helmet with "Wire Burner" graphics



TIGERHOOD® FUTURA THERMOPLASTIC WELDING HELMETS



- Innovative, streamlined design combined with an exceptionally high performance material
- Features an easy-to-use front loading glass holder
- Extremely lightweight for comfort, sturdy and durable for extended service life
- Comes with shade 10 filter and polycarbonate safety plate

Order No.	MFG No.	Colour	Window Size"
STATIONARY FRONT			
SAG783	2001-BLACK	Black	2 x 4 1/4
SAS116	2001-SRCSA	Silver	2 x 4 1/4
LIFT FRONT			
SAG784	2006-BLACK	Black	2 x 4 1/4
SAS117	2006-SRCSA	Silver	2 x 4 1/4
WIDE VISION			
SAG785	2090-BLACK	Black	4 1/2 x 5 1/4
SAS118	2090-SRCSA	Silver	4 1/2 x 5 1/4



TIGERHOOD® CLASSIC THERMOPLASTIC WELDING HELMETS

- Moulded from Noryl, job proven superior in welding related performance characteristics
- Unique design provides extended throat protection, while blocking fumes and smoke from the face
- Maintains its high performance level across a wide spectrum of welding processes and working conditions
- Moulded-in colours eliminate chipping, peeling and fading
- Comes with shade 10 filter and polycarbonate safety plate
- CSA certified



Order No.	MFG No.	Description	Window Size"
STATIONARY FRONT			
SAG786	910-GREY	Passive lens	2 x 4 1/4
LIFT FRONT			
SR856	906-GREY	Passive lens	2 x 4 1/4
WIDE VISION			
SAG787	990-GREY	Passive lens	4 1/2 x 5 1/4
SAS105	999-GREY	Variable shade, auto-darkening	4 1/2 x 5 1/4



WELDING ACCESSORIES

REPLACEMENT HEADGEAR

For Fibre-Metal® welding helmets (except Tigerood® Ultralite). "Free-floating" arms balance and stabilize, while minimizing pressure points. Strip-proof ratchet adjustable knob.

Order No. SAG808 MFG No. 3-C

REPLACEMENT HEADGEAR

For Fibre-Metal® Tigerood® Ultralite welding helmet models. Strip-proof ratchet adjustable knob.

Order No. SAG809 MFG No. 1-UL

SPEEDY-LOOP

Provides easy on/off welding helmet and faceshield mounting on protective caps. Fully adjustable to fit Fibre-Metal® caps and major competitive brands.

Order No. SAG810 MFG No. 5000



QUICK-LOK SYSTEM

Provides more permanent mounting for longer term or high activity applications. Fibre-Metal® welding helmets and faceshields equipped with Quick-Lok mounting cups, can be mounted on to Fibre-Metal® protective caps that are equipped with Quick-Lok mounting blocks.

Order No. SM865 MFG No. 4000

QUICK-LOK MOUNTING BLADES

For quick and easy mounting of Fibre-Metal® Quick-Lok welding helmets on protective caps with mounting slots.

Order No. SAG811 MFG No. 6000





FLEXIBLE FRAME GOGGLES

- Soft PVC frame seals out light leaks
- Choice of 2" x 4 1/4" fixed front or flip front design
- Comes complete with shade 5 lens



NT646



NT647

Order No.	Description
NT646	Fixed Front
NT647	Flip Front



CUP GOGGLES

- Rigid 2" (50 mm) round lens cup goggle
- Comes complete with shade 5 lens



Order No.	Description
NT648	Cup Goggles



V-MAXX™ SAFETY GOGGLES

- Sport wrap-around style
- Optically correct lens provides excellent field of vision
- OTG goggle; fits over most prescription lenses
- Meets industry performance standards: ANSI Z87.1 and CSA 294.3



Order No.	MFG No.	Description	Lens Tint
SAI907*	11250830	Indirect Vent, Black Body	Shade 3.0
SAI908*	11250850	Indirect Vent, Black Body	Shade 5.0
SAI905*	11250800	Direct vent, Red Headband	Clear
SAI906	11250810	Indirect Vent, Black Neoprene Headband	Clear
SAI909	11250860	Goggle covers, 10/pkg	-

* Elastic Headband

WILDCAT™ CUTTING GOGGLES

- Extreme performance vision protection, material does not melt, drip, or ignite at 350°F for five minutes
- Dual anti-fog lenses on shade 3 and 5
- Lightweight and comfortable goggle ideal for any work environment
- Pivot headband for optimal comfort placement
- Cushioned eye cups for comfortable fit
- Adjustable side vents to increase air flow
- Flame retardant headband
- Available shade 3 or 5
- Meets ANSI Z87.1+ and CSA Z94.3 standards



TTT946



TTT948



TTT950

Order No.	MFG No.	Lens Tint
TTT946	3013710	Clear Anti-Fog
TTT947	3013711	Smoke Anti-Fog
TTT948	3013712	Amber Anti-Fog
TTT949	3013713	Shade 3 Anti-Fog
TTT950	3013714	Shade 5 Anti-Fog

THE SHIELD™ CUTTING GOGGLES

- Features Monoggle XTR with full face protection
- Full-face protection detaches from goggle
- Curved face shield conforms to shape of face, offering better protection
- Polycarbonate shield for added protection
- Provides dust, splash and impact protection
- Anti-fog lenses
- Shade 3.0 and 5.0 models feature flame retardant headband
- Meets ANSI Z87.1+ impact standard



TTT954



TTT955

Order No.	MFG No.	Lens Tint
TTT954	3010343	Clear
TTT955	3010345	Shade 3.0
TTT956	3010346	Shade 5.0



FILTER PLATE LENSES

- Provides ultimate protection against ultraviolet and infrared rays present during the welding process
- Attenuates varying proportions of ultraviolet, visible and infrared rays in conformance with industry standards
- Precision ground and edged to allow a proper and safe fit
- Optically correct and precisely shaded
- Hardened glass

Order No.	MFG No.	Shade
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2" X 4 1/4"

SAN061	FS-1H-4	4
SAN062	FS-1H-5	5
SAN063	FS-1H-6	6
SAN064	FS-1H-7	7
SAN065	FS-1H-8	8
SAN066	FS-1H-9	9
SAN067	FS-1H-10	10
SAN068	FS-1H-11	11
SAN069	FS-1H-12	12
SAN070	FS-1H-13	13
SAN071	FS-1H-14	14

4" X 5 1/4"

SAN073	FS-5H-5	5
SAN074	FS-5H-6	6
SAN075	FS-5H-7	7
SAN076	FS-5H-8	8
SAN077	FS-5H-9	9
SAN078	FS-5H-10	10
SAN079	FS-5H-11	11
SAN080	FS-5H-12	12
SAN081	FS-5H-13	13
SAN082	FS-5H-14	14

50 MM

SAN083	FL-5H-4	4
SAN084	FL-5H-5	5



SAN067



SAN078



SAN083

MAGNIFYING LENSES

- Makes a welder's work easier and more comfortable
- Useful for precision welding jobs
- Offers optically balanced magnifications in 0.25 increments
- 2" x 4 1/4"

Order No.	Diopter Strength
-----------	------------------

GLASS

NT652	0.75
NT653	1.00
NT654	1.25
NT905	1.50
NT655	1.75
NT656	2.00
NT657	2.25
NT658	2.50
NT659	3.00

PLASTIC

SAN095	1.00
SAN096	1.25
SAN097	1.50
SAN098	1.75
SAN099	2.00
SAN100	2.25
SAN101	2.50



NT657



SAN100

CLEAR COVER LENSES

- Polycarbonate lenses are for eye protection against light impact such as sparks and small particles
- Cast resin lenses are also for eye protection and are more resistant to heat, scratching and pitting
- Clear glass lenses are not impact resistant and are only for use against spatter



NT601



NT602

Order No.	MFG No.	Size
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POLYCARBONATE

NT601		2" x 4"
NT602		4" x 5"

CAST RESIN

SAN055	PP-2	2" x 4"
SAN056	PP-4	4" x 5"
SAN057	PL-5	50 mm

CLEAR GLASS

SAN058	GP-2	2" x 4"
SAN059	GP-4	4" x 5"

OMNI-VIEW® GOLD FILTER PLATES

- Allows welder to see more in clearer and natural colours
- Gold coating reflects harmful infrared generated by an arc, keeping eyes cooler and more comfortable
- Made of breakage resistant polycarbonate



SAN108



SAN120

Order No.	MFG No.	Shade
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2" X 4 1/4"

SAN106	FP2G-8	8
SAN107	FP2G-9	9
SAN108	FP2G-10	10
SAN109	FP2G-11	11
SAN110	FP2G-12	12

4 1/2" X 5 1/4"

SAN117	FP4G-8	8
SAN118	FP4G-9	9
SAN119	FP4G-10	10
SAN120	FP4G-11	11
SAN121	FP4G-12	12



WELDING SCREENS

- Comprised of 1 inch square steel tubing assembled with unique corner brackets for the toughest frame product available
- Minimizes frame wobble and sway
- Offer unique combination of strength, sturdiness and safety
- "Spectra Orange See Thru" curtain filters 100% of far UV radiation and 100% of blue light
- Heavy-duty 14 mil vinyl film minimizes arc glare
- Custom sizes available
- **Sold per panel**

Wilson

Order No.	Mfg. No.	Dimensions W' x H'		
CURTAIN AND FRAME				
146-1755	R1064-25	4	x	6
146-1780	R1066-25	6	x	6
146-1810	R1068-25	8	x	6
146-1720	R10610-25	10	x	6
CURTAIN ONLY				
146-3210	6424-25	4	x	6
146-1280	6636-25	6	x	6
146-1340	6848-25	8	x	6
146-1510	61060-25	10	x	6


2 PANELS SHOWN

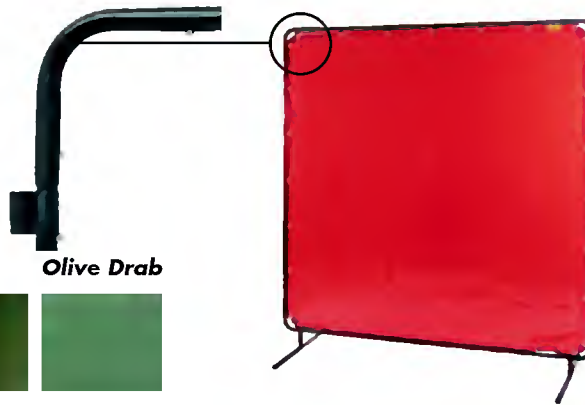
COMBOFRAME ADJUSTABLE MODULAR WELDING SCREENS

FRAMES

- Innovative COMBOframe combines high durability with extreme versatility
- Assembles in less than 5 minutes, no tools required
- Adjustable to fit both 6-foot and 8-foot-wide welding screens
- Made with heavy-duty finished steel tubing and connects with spring-pins
- Includes 360° swivel connectors that allow various configurations

LAVASHIELD™ CURTAIN

- Specially formulated 16 mil thick vinyl
- Grommets every 12" interval
- Screen edges are hemmed with DuPont® Kevlar® stitching
- Resists to UV rays, flame and abrasion
- **Sold per panel**


Yellow Orange Green Olive Drab


Order No.	Dimensions W' x H'	Transparency	UV Resistance	Colour	Curtain Only
CURTAIN AND FRAME					
NT888	6 x 6	High	Moderate	Yellow	NT826
NT889	8 x 6	High	Moderate	Yellow	NT827
NT890	6 x 6	High	Moderate	Orange	NT828
NT891	8 x 6	High	Moderate	Orange	NT829
NT892	6 x 6	Moderate	Moderate	Green	NT830
NT893	8 x 6	Moderate	Moderate	Green	NT831
NT894	6 x 6	Opaque	Maximum	Olive Drab	NT832
NT895	8 x 6	Opaque	Maximum	Olive Drab	NT833

FRAME ONLY

Order No.	Description
NT834	Modular Frame, Adjustable width 6' or 8'





24-OZ. FIBREGLASS LAVASHIELD™ WELDING BLANKETS

- 24-oz. black fibreglass with neoprene coated on both sides
- Hemmed on all sides with Kevlar® thread that has been double-locked stitched
- Large brass grommets added for extra durability and easy handling
- Temperature resistant: 1000°F (538°C)



Applications: Heavy-duty vertical curtain protection against sparks, molten metal splash, welding spatter and grinding spray. General purpose drop cloth for protection against welding spatter.

Order No.	Dimensions'
NT896	6 x 6
NT821	6 x 8



WELDING BLANKETS

- 24-oz. black fibreglass, vermiculite coated
- Heavy-duty, general purpose welding blankets
- Provides protection from sparks, spatter and slag
- Melting temperature: 1200°F



Wilson

Order No.	MFG No.	Dimensions'
146-3100	3309-906	3 x 3
146-1312	6636-906	6 x 6
146-1367	6848-906	6 x 8

30 OZ. FIBREGLASS LAVASHIELD™ WELDING BLANKETS

- 30-oz. gold fibreglass with neoprene coated on both sides
- Hemmed on all sides with Kevlar® thread that has been double-locked stitched
- Large brass grommets added for extra durability and easy handling
- Temperature resistant: 1000°F (538°C)



Applications: Heavy-duty drop cloth and vertical curtain protection against sparks, molten metal splash, welding spatter and grinding spray.

Order No.	Dimensions'
NT822	6 x 6
NT823	6 x 8



FLAMESHIELD SOLDERING & WELDING PAD

- Protects walls, joints and wall studs from burn damage associated with low-temperature soldering
- An excellent blanket for weld sparks and spatter
- A must for every toolbox and maintenance service vehicle
- Made of coated fibreglass
- One grommet in each of the top corners



Wilson

Order No.	MFG No.	Dimensions'
146-1032	912F5	9 x 12

18-OZ. SILICA LAVASHIELD™ WELDING BLANKETS

- 18-oz. sahara brown silica fabric
- Hemmed on all sides with Kevlar® thread that has been double-locked stitched
- Large brass grommets added for extra durability and easy handling
- Temperature resistant: 2300°F (1260°C)



Applications: General purpose drop cloth and vertical curtain protection against extremely high temperature sparks, molten splash, welding spatter and grinding spray.

Order No.	Dimensions'
NT824	3 x 3
NT825	6 x 6



WELDING UMBRELLA

- Provides protection from inclement weather
- Features lightweight aluminum frame and tilt mechanism
- Cover made of Rip-Stop vinyl which is water-resistant, fire-retardant and very tear-resistant
- 6' diameter and 7' high

Order No. 146-2050
MFG No. UM6500

Wilson



23399E



LAVA BROWN LEATHER JACKETS

- Designed to allow complete body movement and freedom
- Heat and flame resistant leather is made from durable side split cowhide
- Seams are double lock stitched
- Include full-sized pocket and multiple-snap adjustment cuffs
- Roll-up collar stops shooting spatter



Order No.	Size	Chest Measurements
644-7300M	Medium	40-42"
644-7300L	Large	44-46"
644-7300XL	X-Large	48-50"
644-7300XXL	2X-Large	52-54"
644-7300XXXL	3X-Large	56-58"
644-7300XXXXL	5X-Large	64-66"



LAVA BROWN LEATHER ACCESSORIES

- Designed to allow even weight distribution on the user to reduce fatigue
- Heat and flame resistant leather is made from durable side split cowhide



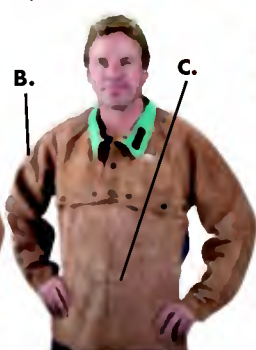
D.



A.



B.



C.

Order No.	Size
A. SLEEVE	
644-7023	23" L
B. CAPE SLEEVES	
644-7800S	Small
644-7800M	Medium
644-7800L	Large
644-7800XL	X-Large
644-7800XXL	2X-Large
644-7800XXX	3X-Large
C. BIBS	
644-7814	14" L
644-7820	20" L
D. SPLIT LEG APRONS & CHAPS	
644-7242	42" L
644-7248	48" L
644-7440	Chaps
E. BIB APRONS	
644-7124	24" L
644-7136	36" L
644-7142	42" L
644-7148	48" L
F. SPATS	
644-7106	6" L
644-7114	14" L

E.



F.



YELLOWJACKET WELDING JACKETS



COOL PROTECTION, COOL LOOK!

- Superior flame, heat and abrasion resistant, select cowhide sleeves for heavy duty protection
- 30" length jacket made of blue 9 oz. Proban FR-7A flame retardant cotton sateen for safety and cool comfort
- Five-snap closure front minimizes hot shooting spatter from entering
- Inside utility pocket for safety and convenience



Order No.	Size	Chest Measurements
630-3060M	Medium	40-42"
630-3060L	Large	44-46"
630-3060XL	X-Large	48-50"
630-3060XXL	2X-Large	52-54"
630-3060XXXL	3X-Large	56-58"
630-3060XXXXL	5X-Large	64-66"



GOLDEN BROWN LEATHER JACKETS



- Made of heat and abrasion resistant select split cowhide
- Sewn with Kevlar® thread for added seam strength
- Roll-up collar with velcro closure and welted shoulder seams
- Reinforced double leather snap panel

Order No.	Size	Chest Measurements
644-2130M	Medium	40-42"
644-2130L	Large	44-46"
644-2130XL	X-Large	48-50"
644-2130XXL	2X-Large	52-54"
644-2130XXXL	3X-Large	56-58"



FLAME RETARDANT CLOTHING

- Manufactured from flame retardant treated cotton sateen
- Will retain its flame retardant properties for up to 50 normal washings
- Specially-designed underarm sport cut and hemmed collar
- 9-oz. jackets include inside pocket and five snaps
- 9-oz. cape sleeves come with six-snap fasteners for bib (sold separately)



Order No.	Size	Chest Measurements
JACKETS		
630-6130M	Medium	40-42"
630-6130L	Large	44-46"
630-6130XL	X-Large	48-50"
630-6130XXL	2X-Large	52-54"
630-6130XXX	3X-Large	56-58"
630-6130XXXXL	5X-Large	64-66"
CAPE SLEEVES		
630-6228M	Medium	40-42"
630-6228L	Large	44-46"
630-6228XL	X-Large	48-50"
630-6228XXL	2X-Large	52-54"
630-6228XXXL	3X-Large	56-58"
BIB & SLEEVES		
630-6220	20" Length Bib	-
630-7318	18" Long Sleeve	-
630-7323	23" Long Sleeve	-

Cape Sleeve



Bib



WELDERS CAPS

NT843

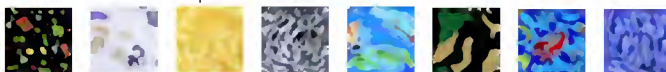
- Athletic mesh lining to allow sweat vapour to quickly evaporate
- Pre-shrunk and pre-softened lightweight fabric, flame retardant until washed
- Air cushioned front lining for comfort and sweat absorbency
- **Sold per package**

Assorted styles include:

Happy Hour, Nautical, Free Spirit, Safari, Paradise, Camo, Feast and Wild.



Happy Hour Nautical Free Spirit Safari Paradise Camo Feast Wild



Order No.		Size	Qty/Pkg.
ASSORTED	CAMO		
NT838	NT843	7 1/8	12
NT839	NT844	7 1/4	12
NT840	NT845	7 3/8	12
NT841	NT846	7 1/2	12
NT842	NT847	7 5/8	12

WELDERS DOORAGS

- Athletic mesh lining to allow sweat vapour to quickly evaporate
- Pre-shrunk & pre-softened lightweight fabric, flame retardant until washed
- Air cushioned front lining for comfort and sweat absorbency
- Assorted styles
- One size fits all
- **Sold per package**



Wild

Camo

Free Spirit



Happy Hour Free Spirit Safari Camo Feast Wild



Order No.	Assorted Styles	Qty/Pkg.
NT835	Camo, Wild, Safari	12
NT836	Happy Hour, Feast, Free Spirit	12
NT837	Authentic Woodland Camo	12

WELDING KNEE PAD

- Made of fire and heat resistant leather
- Flexible non-skid cap designed to stand up to the everyday demands of the welding environment
- Ideal for welding as well as high heat applications such as smelters and foundries
- **Sold per pair**

Order No. SM777 MFG No. 6991-01Q

ALLEGRO INDUSTRIES



HELMET PADS & SWEATBANDS

- Field tested to improve helmet grip with maximum perspiration absorption
- Helmet pads are flame retardant for added safety
- Made of an absorbent air cushioned layer lined with 10% fleece cotton
- Velcro fastening system is designed to fit all major brands of headgear
- Sweatbands come with elastic strap
- **Sold per package of 2**



Suspender headgear



Sweatbands



Non-suspender headgear

Order No.	Description
620-3200V	Suspender Pads For Use With Hard Hats
SAM548	Sweatbands
620-3100V	Non-Suspender Pads For Use With Welding Helmets

COOL OFFS

- Dual-use to keep you cool all day
- Quilted into four sections for an even distribution of cooling material
- Outer shell is 100% cotton
- Soak in cold water for 10 to 15 minutes
- Cooling crystals go to work to keep you cool for days
- Lightweight and comfortable, 38" long
- Can be worn around neck or tied as a headband
- Unique button hole closure allows for a secure fit



ALLEGRO INDUSTRIES

Order No.	MFG No.	Colour
SAI271	8405-50	Cowboy Red
SAI272	8405-51	Cowboy Blue

COTTON WELDER'S BEANIE

- Two colours (green and white)
- One size fits all

Order No. SM858



LEATHER KNEE PAD

Tough abrasion-resistant leather for maximum protection and soft cushion back for comfort. Elastic straps with velcro closures ensure a secure fit. Because of its resistance to heat and fire, this is ideal for welders or any construction application such as concrete work.

Order No. SAL218 MFG No. 6991

ALLEGRO INDUSTRIES





WELDERS' DEERSKIN TIG

- Premium split deerskin leather construction
- Designed for precision welding applications
- Superior fit and dexterity
- Double thumb strap extends wear life
- 4" gauntlet cuff provides superior protection
- Exceptionally soft
- Case qty: 120
- **Sold per pair**



WELDERS' SOFTOUCH™ PIGSKIN TIG

- Seamless index finger construction provides unobstructed control over small diameter welding rods and ultra light TIG torches
- Sewn with DuPont® Kevlar® thread for higher seam strength and seam flame resistance
- Extra long cuff offers wrist and forearm protection against heat
- 4" split pigskin cuff, seamless index finger
- Case qty: 72
- **Sold per pair**



Order No.	Size
SM597	Small
SM598	Medium
SM599	Large
SM600	X-Large
SAP293	2X-Large

WELDERS' PIGSKIN TIG

- Premium grain pigskin leather construction
- Designed for precision welding applications
- Excellent fit and dexterity
- Exceptional durability
- Double thumb strap extends wear life
- 4" gauntlet cuff provides superior protection
- Case qty: 120
- **Sold per pair**



Order No.	Size
SAN639	Small
SAN640	Medium
SAN641	Large
SAN642	X-Large

WELDERS' STANDARD QUALITY

- Rugged split cowhide leather construction
- Excellent abrasion resistance
- Full thermal cotton lining provides added heat protection
- Weltd seams at all critical points
- Case qty: 60
- **Sold per pair**

SAO130

SAO131



Order No.	Description	Size
SAO130	Glove	Large
SAO131	One-Finger Mitt	Large



WELDERS' SUPERIOR QUALITY

- Top split cowhide leather construction
- Excellent abrasion resistance
- Double thumb patch extends wear life
- Full thermal cotton lining provides added heat protection
- Weltd seams at all critical points
- Case Qty: 60
- **Sold per pair**



SAO128



Order No.	Description	Size
SAO128	Glove	Large
SAO129	One-Finger Mitt	Large

WELDERS' PREMIUM QUALITY

- Premium split cowhide leather construction
- Excellent abrasion resistance
- Double thumb patch extends wear life
- Full thermal cotton lining provides added heat protection
- Weltd seams at all critical points
- Sewn with Kevlar® thread to avoid burning
- Case Qty: 60
- **Sold per pair**

Order No. SAN635



WELDERS' PREMIUM QUALITY FOAM LINED

- Premium split cowhide leather construction
- Excellent abrasion resistance
- Double thumb patch extends wear life
- Cotton covered foam lining provides superior heat protection
- Welded seams at all critical points
- Sewn with Kevlar® thread to avoid burning
- Case qty: 60
- **Sold per pair**

Order No. **SAN277**



WELDERS' COMFOFLEX® PREMIUM QUALITY

- Heat and flame resistant shoulder split cowhide
- Fully sock lined for added comfort
- Kevlar® stitched welted seams
- 13 1/2" long with reinforced thumb
- Meets CE standards
- Case qty: 72
- **Sold per pair**

Order No. **610-0328**



WELDERS' COMFOFLEX® PREMIUM LINED

- Flame retardant, air cushioned, sweat absorbent lining
- Provides incomparable comfort and extra insulation
- 14" buck tan, heat resistant side split cowhide
- Kevlar® thread
- Meets CE standards
- Case qty: 72
- **Sold per pair**

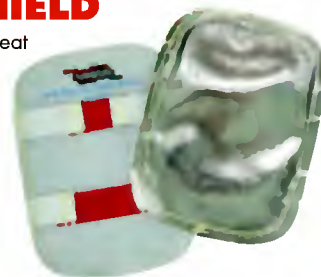


610-2000

HIGH HEAT HAND SHIELD

- Aluminized PFR rayon reflects 95% radiant heat
- 5-ply DuPont® Kevlar® sewn and split cowhide backing for extra durability
- Leather and elastic strap system
- Case qty: 144
- **Sold individually**

Order No. **SE549**



ALUMINIZED WELD-O-GLASS BACK HAND PAD

- Protects the back of your hand and glove from spatter and high radiant heat
- Increases life of gloves
- Allows you to weld longer at higher temperatures
- Double layer protection
- Sewn and riveted for added durability
- Case qty: 144
- **Sold individually**

Order No. **146-1610**

Mfg No. **BHP06**

WILSON



WELDER'S GLOVES

- Premium cowhide split leather orange and black welder's gloves are fully lined for extra protection from the heat associated with welding
- Fleece/cotton lined to provide extra protection from the heat and to help absorb perspiration for added comfort
- Gauntlet cuff allows for additional arm protection as well as easy glove removal
- **Sold per pair**



Order No.	MFG No.	Size	Colour
DUPONT® KEVLAR® STITCHING			
SAO637	HDPFWLD-BK-L	Large	Black
SAO638	HDPFWLD-BK-XL	X-Large	Black
FULLY WELTED SEAM			
SAO639	HDPFWLD-BK/OR-L	Large	Black and Orange
SAO640	HDPFWLD-BK/OR-XL	X-Large	Black and Orange



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WARNING: Not intended for use when riding a motorcycle. Improper use may result in serious personal injury or death.



SAO637



SAO639



HOT MILL

- Top quality heavy cotton fabric construction
- Heavy cotton lined palm provides superior heat resistance
- **SAO167** 32-oz. lined palm for increased heat protection
- 4" gauntlet cuff provides extra protection
- Case qty: 144
- **Sold per pair**

Applications: Forging, foundries, plastic extrusions and other operations that require heat protection



SAO167

Order No.	Description	Size
SAO174	24-oz. yellow palm	Large
SAO167	32-oz. green palm	Large



BROWN JERSEY

- Durable poly/cotton fabric construction
- 65% polyester, 35% cotton
- Moderate abrasion resistance
- Excellent comfort, dexterity and breathability
- Knit wrist eliminates dirt and debris from entering the glove
- Red fleece lined provides moderate warmth in mild winter weather
- **Sold per pair**

Applications: Light duty material handling, warehousing, automotive and as winter liner



SAO126



Order No.	Description	Size	Case Qty
SAO127	Knit wrist	Large	300
SAO126	Slip-on style, red fleece lining	Large	144

COTTON CANVAS

- Excellent comfort, dexterity and breathability
- Knit wrist
- Moderate abrasion resistance
- Heavier weights provide enhanced protection and extended wear
- Case qty: 120
- **Sold per pair**

Applications: Material handling, automotive, assembly and construction



Order No.	Fabric Weight Oz.	Size
SAO146	7	Large
SAO147	8	Medium
SAO148	8	Large
SAP354	8	X-large
SAO149	12	Large



POLY/COTTON STRING KNIT

- String knit design provides excellent breathability
- Reversible pattern extends wear life
- Superior comfort
- Reduced hand fatigue
- Launders exceptionally well
- Knit wrist eliminates dirt and debris from entering the glove
- CFIA approved for food applications
- Case qty: 600
- **Sold per pair**

Order No.	Size
SAO11	X-Small
SF925	Small
SE346	Medium
SF926	Large
SAG012	X-Large
SAP219	2X-Large

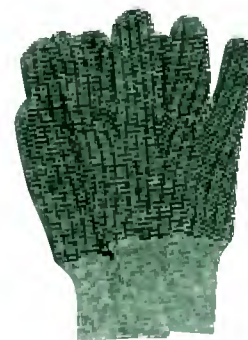


Applications: Parts handling, assembly, food processing and glove liner

SALT & PEPPER JERSEY

- Durable poly/cotton fabric construction
- Moderate abrasion resistance
- Excellent comfort, dexterity and breathability
- Knit wrist eliminates dirt and debris from entering the glove
- Case qty: 300
- **Sold per pair**

Applications: Light duty material handling, warehousing, automotive and as winter liner



Order No.	Size
SAO175	Large
SAO176	X-Large



SPLIT COWHIDE PATCH PALM FITTERS

- Good abrasion resistance
- Absorbent cotton lined palm
- Patch palm design
- Starched safety cuff
- Full leather tipped fingers and knuckle strap
- Case qty: 120
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction



SAP225

Order No.	Description	Size
SA622	Standard Quality, Striped Cuff	Large
SAN636	Better Quality, Denim Cuff	Large
SAN382	Better Quality, Striped Cuff	Large
SAP231	Better Quality, Striped Cuff	X-Large
SAP225	Superior Quality, Striped Cuff	Large

SPLIT COWHIDE FITTERS SUPERIOR QUALITY DOUBLE PALM

- Double layer of leather for premium protection
- Excellent abrasion resistance
- Absorbent cotton lined palm
- Rubberized safety cuff
- Full leather tipped fingers and knuckle strap
- **Sold per pair**

Applications: Heavy-duty material handling, fabrication and metal handling



SM578

Order No.	Description	Size	Case Qty
SM578	Outside Double Palm & Index Finger	Large	120
SM579	Outside Double Palm & Index Finger, 4" Gauntlet Cuff	Large	60
SD604	Outside Double Palm, Index Finger & Finger Tips	Large	60
SE349	Inside Double Palm & Index Finger	Large	120

SPLIT COWHIDE LEATHER PALM

- Good abrasion resistance
- Cotton back provides superior breathability
- Knit wrist
- Case qty: 300
- **Sold per pair**

Applications: Material handling, automotive, assembly and construction



SM572



SM573



SAP297



SAP296

Order No.	Description	Size
SM572	Standard Quality, White Back, Patch Palm	Large
SN266	Good Quality, White Back	Small
SAP274	Good Quality, White Back	Medium
SA616	Good Quality, White Back	Large
SAP294	Good Quality, White Back	X-Large
SM573	Good Quality, White Back, Full Index Finger	Large
SAP297	Good Quality, Stripped Back	Large
SAP296	Superior Quality, White Back	Large

SPLIT COWHIDE FITTERS

- Good abrasion resistance
- Absorbent cotton lined palm
- Starched safety cuff
- Full leather tipped fingers and knuckle strap
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction



SAP224

Order No.	Description	Size	Case Qty
SAN638	Standard Quality	Large	120
SM575	Better Quality	Large	120
SAP228	Better Quality	X-Large	60
SM576	Better Quality, 4" Gauntlet Cuff	Large	60
SAP224	Superior Quality	Large	120

SPLIT COWHIDE FITTERS SUPERIOR QUALITY

- Good abrasion resistance
- Absorbent cotton lined palm
- Full leather tipped fingers and knuckle strap
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction



SAP227



SAP226



SAP298



Order No.	Description	Size	Case Qty
SG281	Rubberized Safety Cuff	Medium	120
SD602	Rubberized Cuff	Large	120
SD603	Rubberized Cuff	X-Large	60
SAP229	Rubberized Cuff	2X-Large	60
SAP298	Rubberized 4" Gauntlet Cuff	Large	60
SAP227	Premium Quality, Rubberized Cuff	Large	60
SAP226	Plasticized Cuff, washable	Large	120

SPLIT COWHIDE LEATHER SUPERIOR QUALITY

- Unlined palm
- Good abrasion resistance
- Full split leather cuff
- Case qty: 120
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction



Order No.	Description	Size
SAL592	2" Cuff	Large
SAL253	4" Cuff	Large



SAL592

GRAIN COWHIDE FURNITURE LEATHER

- Smooth grain leather finish
- Resists oil and water
- Durable construction
- Cotton lined patch palm style
- Starched safety cuff
- Case qty: 60
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction



Order No.	Size
SAN270	Large



SPLIT PIGSKIN FITTERS

- Performs well in wet applications
- Superior comfort and breathability
- Good abrasion resistance
- Good dexterity
- Absorbent cotton lined palm
- Starched safety cuff
- Full leather tipped fingers and knuckle strap
- Case qty: 120
- **Sold per pair**

Applications: Material handling, fabrication and construction

Order No.	Size
SAO156	Large
SAP353	X-Large



GRAIN PIGSKIN FITTERS

- Performs well in wet applications
- Superior comfort and breathability
- Good abrasion resistance
- Good dexterity
- Absorbent cotton lined palm
- Full leather tipped fingers and knuckle strap
- **Sold per pair**

Applications: Material handling, fabrication and construction

Order No.	Description	Size	Case Qty
SM580	Standard quality, safety cuff	Large	120
SAP222	Premium quality, rubberized cuff	Large	60



SAP222



GRAIN COWHIDE FITTERS PATCH PALM

- Superior abrasion resistance
- Excellent comfort and durability
- Absorbent cotton lined palm
- Resists oil and water
- Patch palm design
- Full leather tipped fingers and knuckle strap
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction

Order No.	Description	Size	Case Qty
YC386	Standard quality, safety cuff	Large	120
SAJ497	Good quality, safety cuff	Large	120
SAP230	Good quality, rubberized cuff	X-Large	120
SAP234	Superior quality, rubberized cuff	Large	60



STANDARD QUALITY GRAIN COWHIDE FITTERS

- Smooth grain cowhide leather construction
- Excellent comfort and durability
- Superior abrasion resistance
- Resists oil and water absorption better than split leather
- Safety cuff
- Full leather tipped fingers and knuckle strap provides increased protection
- **SAO051** has an unlined palm for improved dexterity and sensitivity
- **SAO052** has a cotton lined palm keeping hands dry
- Case qty: 120
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction

Order No.	Description	Size
SAO051	Unlined palm	Large
SAO052	Cotton lined palm	Large



GRAIN COWHIDE FITTERS SUPERIOR QUALITY

- Excellent comfort and durability
- Superior abrasion resistance
- Resists oil and water
- Rubberized safety cuff
- Full leather tipped fingers and knuckle strap
- **Sold per pair**

Applications: Material handling, fabrication, metal handling and construction



SAJ023



SAP233

Order No.	Description	Size	Case Qty
SM582	Cotton lined palm	Medium	120
SAJ023	Cotton lined palm	Large	120
SAP232	Cotton lined palm	X-Large	60
SA619	Unlined palm	Large	120
SAP223	Double palm & index, premium	Large	60
SM583	Cotton lined palm, 4" gauntlet cuff	Large	120
SAP233	Premium quality, cotton lined palm	Large	60



SAP223



SM583

GRAIN COWHIDE LEATHER PREMIUM QUALITY

- Superior abrasion resistance
- Unlined palm
- Full split leather
- 4" gauntlet cuff
- Case qty: 120
- **Sold per pair**



SI842

Applications: Material handling, fabrication, metal handling and construction

Order No.	Description	Size
SI842	Full grain cowhide palm, split back	Large
SM592	Full grain cowhide palm and back	Large

SPLIT COWHIDE FITTERS COTTON FLEECE LINED

- Good abrasion resistance
- Full leather tipped fingers and knuckle strap provides increased protection
- Safety starched cuff
- **Sold per pair**

Applications: Moderate cold material handling, fabrication, metal handling and construction



Order No.	Size	Case Qty
SD613	Large	120
SAP299	X-Large	60



SPLIT COWHIDE FITTERS FOAM FLEECE LINED

- Provides excellent warmth
- Good abrasion resistance
- Full leather tipped fingers and knuckle strap
- Rubberized safety cuff
- Case qty: 120
- **Sold per pair**



SAP240

Applications: Moderate/extreme cold material handling, fabrication, metal handling and construction

Order No.	Size	Colour
SAP240	Medium	Red
SAP241	Large	Yellow
SAP242	X-Large	Blue



SPLIT COWHIDE FITTERS ACRYLIC BOA LINED

- Premium leather construction
- Provides superior warmth
- Good abrasion resistance
- Full leather tipped fingers and knuckle strap
- Rubberized safety cuff
- Case qty: 60
- **Sold per pair**

Applications: Extreme cold material handling, fabrication, metal handling and construction

Order No.	Size
SD614	Large
SAP247	X-Large





GRAIN FURNITURE LEATHER FITTERS ACRYLIC BOA LINED

- Smooth grain leather finish
- Provides superior warmth
- Patch palm design
- Excellent abrasion resistance
- Starched safety cuff
- Resists oil and water well
- Full leather tipped fingers and knuckle strap
- Case qty: 60
- **Sold per pair**

Applications:

Extreme cold material handling, fabrication, metal handling and construction



ZENITH
Safety Products

GRAIN PIGSKIN FITTERS ACRYLIC BOA LINED

- Provides superior warmth
- Performs well in wet applications
- Full leather tipped fingers and knuckle strap
- **Sold per pair**

Applications:

Extreme cold material handling, fabrication and construction



SD597

ZENITH
Safety Products

Order No.	Size
SAP290	Large

Order No.	Description	Size
SD597	Better Quality, Safety Cuff	Large
SAP300	Superior Quality, Rubberized Cuff	Large

SPLIT COWHIDE FITTERS THINSULATE™ LINED

- Provides superior warmth
- Good abrasion resistance
- Full leather tipped fingers and knuckle strap
- Provides good dexterity
- Case qty: 60
- **Sold per pair**

Applications: Extreme cold material handling, fabrication, metal handling and construction

ZENITH
Safety Products

Order No.	Size	Lining Weight g
SAN637	Medium	100
SAL544	Large	40
SM609	Large	100
SAP248	X-Large	100
SAP249	2X-Large	100



SAN637



SM609

GRAIN PIGSKIN FITTERS COTTON FLEECE LINED

- Provides moderate warmth
- Superior comfort and breathability
- Performs well in wet applications
- Full leather tipped fingers and knuckle strap provides increased protection
- Safety cuff
- Case qty: 60
- **Sold per pair**

Applications: Moderate cold material handling, fabrication and construction



ZENITH
Safety Products

GRAIN PIGSKIN FITTERS THINSULATE™ LINED

- Full 100-g Thinsulate™ lining provides superior warmth
- Performs well in wet applications
- Good abrasion resistance
- Increased dexterity
- Full leather tipped fingers and knuckle
- Case qty: 60
- **Sold per pair**

Applications: Extreme cold material handling, fabrication and construction



Order No.	Size
SM615	Large
SAP251	X-Large

ZENITH
Safety Products

Order No.	Size
SAP295	Large

GRAIN COWHIDE FITTERS COTTON FLEECE LINED PATCH PALM

- Provides moderate warmth
- Good resistance to oil and water
- Excellent comfort and durability
- Full leather tipped fingers and knuckle strap
- Patch palm design
- Rubberized cuff
- Case qty: 60
- **Sold per pair**



GRAIN COWHIDE FITTERS FOAM FLEECE LINED

- Premium grain cowhide leather construction
- Provides excellent warmth
- Superior abrasion resistance
- Resists oil and water well
- Excellent comfort and durability
- Full leather tipped fingers and knuckle strap
- Rubberized cuff
- Case qty: 120
- **Sold per pair**



ZENITH
Safety Products

Order No.	Size
SR521	Large
SAM023	X-Large

Applications: Moderate cold material handling, fabrication, metal handling and construction

ZENITH
Safety Products

Order No.	Size
SM611	Large

Applications: Moderate/extreme cold material handling, fabrication, metal handling and construction

GRAIN COWHIDE FITTERS ACRYLIC BOA LINED

- Premium construction
- Provides excellent warmth
- Superior abrasion resistance
- Resists oil and water well
- Excellent comfort and durability
- Full leather tipped fingers and knuckle strap
- Rubberized cuff
- Case qty: 60
- **Sold per pair**



ZENITH
Safety Products

Order No.	Size
SAO053	X-Large

Applications: Extreme cold material handling, fabrication, metal handling and construction

GRAIN COWHIDE FITTERS COTTON FLEECE LINED

- Provides moderate warmth
- Superior abrasion resistance
- Resists oil and water well
- Full leather tipped fingers and knuckle strap
- Rubberized cuff
- **Sold per pair**



ZENITH
Safety Products

Order No.	Size	Case Qty.
SM610	Medium	120
SD605	Large	60
SAP245	X-Large	60

Applications: Moderate cold material handling, fabrication, metal handling and construction

GRAIN COWHIDE DRIVERS & ROPERS FLEECE LINED

- Superior abrasion resistance
- Exceptional oil and water resistance
- Excellent comfort and durability
- Full cotton fleece lining provides moderate warmth
- Drivers' style has an elastic wrist
- Ropers' style has an adjustable strap with snap
- **Sold per pair**

Order No.	Size	Case Qty
DRIVERS		
SM616	Small	120
SM617	Medium	120
SM618	Large	120
SM619	X-Large	120
SAP250	2X-Large	60
ROPERS		
SAP215	Small	120
SAP216	Medium	120
SAP217	Large	120
SAP218	X-Large	120



Drivers



Ropers

Applications: Forklift and truck drivers, operators of construction and farm equipment

ZENITH
Safety Products



GRAIN COWHIDE FITTERS THINSULATE™ LINED

- Premium construction
- Provides superior warmth
- Superior abrasion resistance
- Resists oil and water well
- Excellent comfort and durability
- Full leather tipped fingers and knuckle strap
- Rubberized cuff
- Provides good dexterity
- Case qty: 120
- **Sold per pair**



ZENITH
Safety Products

Applications: Extreme cold material handling, fabrication, metal handling and construction

Order No.	Size
SM613	Large
SAP246	X-Large

LIGHTWEIGHT NITRILE COATED

- Seamless nylon knit provides ultimate dexterity and reduces hand fatigue
- Premium comfort and breathability
- Excellent dry grip
- Superior abrasion cut and puncture resistance
- Durable nitrile coated palm
- Knit wrist
- Case Qty: 120
- **Sold per pair**



ZENITH
Safety Products

Applications: Metal stamping, material handling, automotive assembly and small parts handling

Order No.	Size
SAO157	7
SAO158	8
SAO159	9
SAO160	10
SAP355	11

MEDIUMWEIGHT NITRILE 3/4 COATED

- 13-gauge seamless knitted cotton shell
- Excellent dexterity and dry grip
- Resists abrasion, cuts and punctures
- Knit wrist
- 3/4 coating provides a cool comfortable fit
- Meets CE standards
- Case Qty: 120
- **Sold per pair**



ZENITH
Safety Products

Applications: Metal stamping, material handling, automotive, small parts handling and general maintenance

Order No.	Size
SAM646	7
SAM647	8
SAM648	9
SAM649	10

LIGHTWEIGHT NITRILE FOAM COATED

- Lightweight nitrile foam palm coating
- 13-gauge seamless knitted nylon shell
- Resists abrasion, cuts and punctures
- Knit wrist
- Superior dexterity, comfort and wet grip reduces hand fatigue
- Palm coating provides a cool comfortable fit
- Meets CE standards
- Case Qty: 120
- **Sold per pair**



ZENITH
Safety Products

Applications: Metal stamping, material handling, automotive assembly and small oily parts handling

Order No.	Size
SAM629	6
SAM630	7
SAM631	8
SAM632	9
SAM633	10
SAM634	11

NATURAL RUBBER LATEX COATED

- Natural rubber latex palm coating
- 10-gauge seamless knitted poly/cotton shell
- Textured coating
- Exceptional comfort and fit
- Resists abrasion, cuts and punctures
- Knit wrist
- Palm coating provides a cool comfortable fit
- Meets CE standards
- Case Qty: 120
- **Sold per pair**



ZENITH
Safety Products

Applications: Glass handling, construction, wood handling, masonry and general maintenance

Order No.	Size
SAL255	8
SAL256	9
SAL257	10
SAL258	11

NATURAL RUBBER LATEX COATED FLEECE LINED

- Natural rubber latex palm coating
- 10-gauge seamless knitted poly/cotton shell
- Textured coating provides superior wet and dry grip
- Warm fleece lining
- Exceptional comfort and fit
- Resists abrasion, cuts and punctures
- Knit wrist
- Meets CE standards
- Case Qty: 120
- **Sold per pair**



ZENITH
Safety Products

Applications: Glass handling, construction, wood handling, masonry and general maintenance

Order No.	Size
SAN431	8
SAN432	9
SAN433	10
SAN434	11



Z400

- Sporty design with extended wraparound coverage
- Adjustable temples provide a superior comfort and fit
- Ultra-soft non-slip nosepiece
- Scratch-resistant polycarbonate lens with UV protection
- Distortion-free
- Meets or exceeds CSA standard



Order No.	Lens Tint
SAK850	Clear
SAK851	Grey

ZENITH
Safety Products

Z500

- Frameless design with extended wraparound coverage
- Non-slip rubber head grips
- Scratch-resistant polycarbonate lens with UV protection
- Distortion-free
- Clear frame
- Meets or exceeds CSA standard



Order No.	Lens Tint
SAP877	Clear

ZENITH
Safety Products

Z200

- Superior protection at an economical price
- Ideal visitor spectacle
- Moulded-in nose bridge
- Polycarbonate lens with UV protection
- Distortion-free
- Meets or exceeds CSA standard



Order No.	Lens Tint
SAN427	Clear

ZENITH
Safety Products

FALCON®

- Frameless design with patented dual 9 base unilens
- Weightless comfort and superior coverage providing complete and unobstructed vision
- Impact-resistant polycarbonate lens absorb > 99.9% of harmful UVA and UVB radiation
- Temple colours blue nylon or silverstone metal are available on request
- Meets ANSI and CSA standards



uvex
by SPERIAN

Order No	Mfg. No	Lens Tint
ULTRA-DURA®		
SAJ061	S4500	Clear
SAJ065	S4503	Mirror
UVEXTREME® AF		
SAJ062	S4500X	Clear
SAJ064	S4502X	Amber

Z100

- Traditional design with integral sideshields
- Adjustable temples provide a superior comfort and fit
- Moulded-in nose bridge
- Scratch-resistant polycarbonate lens with UV protection
- Distortion-free
- Meets or exceeds CSA standard



Order No.	Lens Tint
SAN426	Clear

ZENITH
Safety Products

Z300

- Impact proof polycarbonate lens with UV protection
- Adjustable elastic headband
- Indirect ventilation protects against dust, fumes and chemical splash
- **SAN430** anti-fog lens for high humidity applications
- Distortion-free
- Meets or exceeds CSA standard



Order No.	Description
SAN428	Direct Vent
SAN429	Indirect Vent
SAN430	Indirect Vent, Anti-fog

ZENITH
Safety Products

IGNITE™

- Sleek, sporty, unisex Lightweight frameless design
- Offers 180° of distortion-free, unobstructed vision
- A nine-base, wrap-around lens design provides close-to-the-face protection and superior coverage
- Adjustable nose piece reduces slippage and provides a personalized, comfortable fit
- Soft temple tip pads ensure a fit that is both comfortable and secure
- Complies with both ANSI Z87+ and CSA Z94.3 standards



uvex
by SPERIAN

Order No.	Mfg. No.	Frame Colour	Lens Tint
SAQ725	S4400	Black & Silver	Clear/Hardcoat
SAQ726	S4400X	Black & Silver	Clear/Uvextra™ AF
SAQ727	S4401	Black & Silver	Grey/Hardcoat
SAQ728	S4401X	Black & Silver	Grey/Uvextra™ AF

ASTROSPEC 3000®

- Lightweight unilens offers panoramic vision
- Easy and economical lens replacement system
- Adjustable lens inclination and temple length
- Moulded side shields
- Meets ANSI Z87+ and CSA Z94.3 standards
- Lifetime frame guarantee



Order No.	MFG No.	Lens Tint
ULTRA-DURA® HARDCOAT		
SE633	S1359	Clear
SE641	S111029	Infra-Dura® 2.0
SE642*	S1111	Infra-Dura® 3.0
SE643*	S1112	Infra-Dura® 5.0

UVEXTREME® AF		
SE622	S1359C	Clear

* Does not feature Duoflex® temples.

SKYPER®

- Simple lens replacement system
- Adjustable temple length and lens inclination
- Meets ANSI Z87+ and CSA Z94.3 standards
- Lifetime frame guarantee



Order No.	MFG No.	Lens Tint
UVEXTREME® AF		
SH014	S1900X	Clear
ULTRA-DURA® HARDCOAT		
SH015	S1900	Clear
SH018	S1906	Infra-Dura® 2.0
SH019	S1907	Infra-Dura® 3.0
SH020	S1908	Infra-Dura® 5.0

MILLENNIA® HIGH STYLE FULL COVERAGE!

- Lightweight frame with superior side and brow protection
- High impact dual 9-base wraparound unilens
- Comfortable universal nose bridge
- Includes adjustable breakaway FlexiCord™ for added security and convenience
- Meets ANSI Z87+ and CSA Z94.3 safety standards



Order No.	MFG No.	Lens Tint
SG990	11150350CSA	Clear
SG993	11150351CSA	TSR® Grey
SG996	11150353CSA	I/O™ Silver Mirror

OP-TEMA®

- Op-Tema® spectacles deliver the features that wearers want: lightweight for all day wear, multiple adjustments for maximum fit and clear unobstructed vision
- Provides high level eye protection
- All models are CSA approved



Black Order No.	MFG No.	Blue Order No.	MFG No.	Lens Tint
SG998	11150400	SG999	11150410	Clear
SH002	11150401	-	-	TSR® Grey

GENESIS®

- Lightweight, extremely resilient external polycarbonate frame
- Soft elastomer internal frame
- Interchangeable dual 9 base wraparound lens
- Vents the eye socket area
- Soft brow bumper provides comfortable fingers that adjust and wraparound almost any nasal profile
- Ratchet lens inclination adjustment
- Meets all ANSI and CSA standards
- Passed military V. ballistic (standard MIL-STD-662) test regimen



Order No.	MFG No.	Lens Tint
BLACK FRAME		
SN209	S3200	Ultra-Dura® Clear
SN210	S3200X	Uvextreme® AF Clear
SN211	S3201	Ultra-Dura® Espresso
SN212	S3201X	Uvextreme® AF Espresso
SN213	S3202	Ultra-Dura® Amber
SAK427	S3207	Infra-Dura® 3.0
SAK428	S3208	Infra-Dura® 5.0

VAPOUR BLUE FRAME		
SN219	S3240	Ultra-Dura® Clear
SN220	S3240X	Uvextreme® AF Clear
SN221	S3241	Ultra-Dura® Espresso
SN222	S3241X	Uvextreme® AF Espresso
SN223	S3242	Ultra-Dura® Amber

Also available in mercury red frames

XC™

- Extended wraparound lens for extra cheek and extra side coverage (up to 20% more)
- Soft, flexible nose fingers conform to fit a variety of nasal profiles
- Adjustable two-shot temples for custom fit
- Available with cushioned temples for all-day comfort
- Optional Rx lens insert holds Rx lenses firmly in place
- Passes ANSI Z87 + & CSA Z94.3 standards



Order No.	MFG No.	Lens Tint
ULTRA-DURA® HARDCOAT		
SAK138	S3300	Clear
SAK405	S3306	Infra-Dura 3.0®
SAK406	S3307	Infra-Dura 5.0®
UVEXTREME® AF		
SAK093	S3300X	Clear

V-MAXX® GOGGLES

- Sleek wrap-around styling
- Direct vent for impact resistance and indirect vent for chemical splash applications
- Peel-off goggle covers available to extend useful life of the lens
- OTG compatible
- 180° clear field of vision
- Lenses coated with Fog-ban® anti-fog coating
- Pivoting headband clips to adjust strap around hardhats or hearing protection
- Adjustable elastic or neoprene headband
- Meets ANSI Z87+ and CSA Z94.3 standards



Order No.	MFG No.	Description	Lens Tint
SAI907	11250830	Indirect vent, elastic headband	Shade 3.0
SAI908	11250850	Indirect vent, elastic headband	Shade 5.0
SAI905	11250800	Direct vent, red elastic headband	Clear
SAI906	11250810	Indirect vent, black neoprene headband	Clear
SAI909	11250860	Goggles covers, 10/Pkg.	-



EYE INJURIES ARE NOT COOL. THESE ARE.

- Harley-Davidson® logo on lens and frame
- Impact-resistant polycarbonate lenses
- 99.9% UV protection
- Scratch resistant hardcoat

HD100 SERIES

- Contemporary, wraparound design
- Moulded-in sideshields and browguards
- Meets ANSI standards



SAK017

HD400 SERIES

- High-tech, high-style protective eyewear
- Provides 180° of panoramic vision
- Excellent side and brow coverage
- Adjustable *HD*® retainer cord shipped with frame
- Meets CSA and ANSI standards



SAK025

HD500 SERIES

- Silver matte metal frame with special nickel-free coating
- 10-base dual lens for optimal field of vision
- Spring hinge temples provide a secure and comfortable fit
- Meets ANSI standards



SAK029

HD700 SERIES

- 8-base, metal rimless frame design with spring hinge temples
- Gunmetal frame with nickel-free coating
- Adjustable optical nose pads conform to varying nose bridge shapes
- Polycarbonate hard-coated lenses
- Complies with ANSI Z87+ high impact standard



SAN330

HD800 SERIES EYEWEAR

- Defies convention while embracing compliance
- Lightweight, comfortable to wear all day long
- Striking mirror lenses coupled with a double 9-base frameless design
- Meets CSA and ANSI standards



SAP450

ACCESSORIES

SAFETY EYEWEAR ZIPPER CASE

- Tough, hard case protects eyewear when not in use
- Includes handy belt loop and clip

Order No. SAK216



SAFETY EYEWEAR RETAINER CORD

- Silkscreened with *H-D*® logo
- Adjustable slide with *H-D*® logo

Order No. SAK217



Order No.	MFG No.	Frame Colour	Lens Tint
HD100 SERIES			
SAK017	HD100	Silver	Blue mirror
SAK018	HD101	Black	Clear
SAK019	HD102	Black	Espresso
SAK020	HD103	Black	Gold mirror
HD400 SERIES			
SAK024	HD400	Black	Clear
SAK025	HD401	Black	Mirror 50
SAK026	HD402	Black	Silver Mirror
HD500 SERIES			
SAK027	HD501	Matte Silver	Clear
SAK028	HD502	Matte Silver	Grey
SAK029	HD503	Matte Silver	Silver Mirror
HD700 SERIES			
SAN327	HD701	Gunmetal	Clear
SAN328	HD702	Gunmetal	Grey
SAN329	HD703	Gunmetal	Amber
SAN330	HD700	Gunmetal	Brown Mirror
HD800 SERIES			
SAP450	HD800	-	Orange Mirror
SAP451	HD801	-	Blue Mirror
SAP452	HD802	-	Silver Mirror

ACCESSORIES

Order No.	MFG No.	Description
SAK216	HD903	Zipper Case
SAK217	HD902	Retainer Cord



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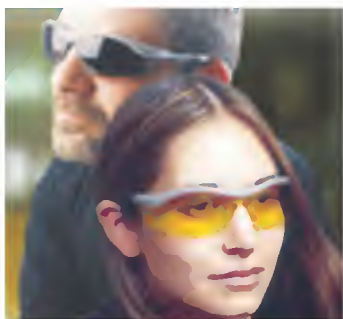
WARNING: Not intended for use when riding a motorcycle. Improper use may result in serious personal injury or death.

21562E



NORTH

TORNADO

Straight
TemplesCurved
Temples

- Unique dual lens styling in a single piece lens design
- Maximum protection and comfort for greater user acceptance
- Full frame in black with grey trim, blue with grey trim and grey with black trim
- Available with fully adjustable curved temples or straight extensible non-pivoting temple ends
- Lenses are anti-fog, anti-scratch, anti-static and anti-UV
- Meets ANSI and CSA standards

BLACK/GREY Order No.	MFG No.	Lens Tint
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CURVED TEMPLES

SH069	T57005B	Clear
SH070	T57005BS	Smoke
SH071	T57005BA	Amber

STRAIGHT TEMPLES

SH078	T58005B	Clear
SH079	T58005BS	Smoke
SH080	T58005BA	Amber

BLUE/GREY Order No.	MFG No.	Lens Tint
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CURVED TEMPLES

SH072	T57005BL	Clear
SH073	T57005BLS	Smoke
SH074	T57005BLA	Amber
SR680	T57005BLM	Mirror*

STRAIGHT TEMPLES

SH081	T58005BL	Clear
SH082	T58005BLS	Smoke
SH083	T58005BLA	Amber

GREY/BLACK Order No.	MFG No.	Lens Tint
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CURVED TEMPLES

SH075	T57005GRY	Clear
SH076	T57005GRYS	Smoke
SH077	T57005GRYA	Amber

STRAIGHT TEMPLES

SH084	T58005GRY	Clear
SH085	T58005GRYS	Smoke
SH086	T58005GRYA	Amber

*Mirror lenses are not anti-fog

LIGHTNING

AND

LIGHTNING PLUS

- High base panoramic lens for a wide unobstructed field of vision
- Self-adjusting temples to insure a secure and comfortable fit
- Frame made of chemical and heat resistant *Elasto LT* material
- *Flexi-Fit* three-point non-slip nosepiece eliminates excessive pressure on the nose
- Exclusive 4A coating: anti-fog, anti-scratch, anti-UV, anti-static
- Fast and easy lens replacement with unique *Rapid-Change* system
- *Soft-Touch* comfort pads
- Optional Rx insert available
- Exceeds CSA Z94.3 and ANSI requirements

NORTH



Order No.	MFG No.	Frame Colour	Lens Tint
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LIGHTNING

SAJ221	T65005	Black	Clear
SAJ222	T65005S	Black	Smoke
SAJ230	T65005A	Black	Amber

LIGHTNING PLUS

SAJ223	T65505B	Black	Clear
SAJ224	T65505BS	Black	Smoke
SAJ232	T65505BA	Black	Amber

ILLUSION

- Made of lightweight high impact resistant material
- Stylish low profile lens design with excellent wraparound coverage
- Lenses are protected by North's exclusive 4A coating, anti-fog, anti-scratch, anti-static and anti-UV at 99.9%
- Meets CSA and ANSI requirements

NORTH



Order No.	MFG No.	Lens Tint
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SAJ252	T15005	Clear
SAJ253	T15005S	Smoke
SAJ254	T15005A	Amber

VISITORS SPECTACLES

NORTH

- Premium protection for plant visitors
- Comfortable, provide a wide viewing field
- Feature superior optical quality with high impact and penetrating resistance
- Exclusive interlocking sideshield system offers all around protection from flying particles
- Universal nose bridge for a good fit
- Specially designed to fit comfortably over prescription glasses
- Individually wrapped in a protective poly envelope
- CSA approved

Order No. SG290
MFG No. 905



N1105

- Economical mask
- Improved fit and NIOSH approved N95 protection
- Recommended for use with particulate aerosols free of oil
- **20 respirators per box**



SPERIAN

Order No.	MFG No.	Size
SAM235	14110387	Small
SAM236	14110388	Medium/Large
SAM237	14110389	X-Large

CFR-1™

- Reusable facepiece with easy to replace disposable filters
- Soft face piece seal
- Built-in exhalation valve
- Face piece design prevents filters from collapsing
- Adjustable harness



SAG362

SAG365

NORTH

Order No.	MFG No.	Size
SAG360	4200S	Small
SAG361	4200M	Medium
SAG362	4200L	Large

WELDING RESPIRATOR

SAG363	4200SW	Small
SAG364	4200MW	Medium
SAG365	4200LW	Large

REPLACEMENT FILTERS FOR CFR-1™

N95 Particulate filters (minimum 95% filter efficiency) provide protection from solids and particulate aerosols free of oil.

P95 Particulate filters (minimum 95% efficiency) provide protection from any particulates.



SAG366

Order No.	MFG No.	Description	Qty /Box
SAG366	42N95	N95 Filters	20
SAM585	42R95	R95 Filters	10

P1135

- Full sealing flange and exhalation valve
- Comfortable disposable respirator
- Applications: sanding, grinding or sweeping, brazing, torch cutting, soldering, certain welding and other hot, dusty and/or oily operations
- **10 respirators per box**



SPERIAN

Order No.	MFG No.	Size
SAM255	14110428	Medium/Large
SAM256	14110429	X-Large

NUISANCE DUST MASKS

- Available for nuisance dusts such as animal dander and pollen
- For nuisance level dusts at exposures below the OSHA permissible exposure limit
- Mask is not NIOSH approved
- **50 respirators per box**



Order No. **SAM286**
MFG No. 14110094CC

SPERIAN

N95 DISPOSABLE PARTICULATE RESPIRATORS

North has designed and engineered this respirator to provide exceptional comfort and worker protection.

- Soft cushioned nose seal
- Nose clip for improved fit
- Latex free headstraps
- N95 provides protection from solids and particulate aerosols free of oil
- Ideal for dusty environments such as grinding, sanding and sweeping



SAH687



SAH678

NORTH

Order No.	MFG No.	Description	Size	Qty /Box
SAO676	7130N95S	Respirator	Small	20
SAH678	7130N95	Respirator	Medium/Large	20
SAO677	7140N95S	Respirator w/exhalation valve	Small	10
SAH687	7140N95	Respirator w/exhalation valve	Medium/Large	10



8210 N95 PARTICULATE RESPIRATORS

- NIOSH approved N95
- Lightweight construction
- Excellent worker protection
- Advanced Electret media
- Adjustable nose clip
- **20 respirators per box**

Order No. SE260

MFG No. 8210N95



3M

8214 N95 PARTICULATE RESPIRATORS

WITH NUISANCE LEVEL ORGANIC VAPOUR PROTECTION



- NIOSH approved N95
- Cool Flow™ exhalation valve
- Adjustable straps
- Face seal
- Caking resistant filter media
- Flame resistant as per ASTM D2859-96 testing
- **10 respirators per box**

Order No. SE883

MFG No. 8214N95

3M

8511 N95 PARTICULATE RESPIRATORS

- NIOSH approved N95
- Cool Flow™ exhalation valve
- M-nose clip
- Lightweight construction
- **10 respirators per box**

Order No. SE261

MFG No. 8511N95



3M

8212 N95 PARTICULATE RESPIRATORS



- NIOSH approved N95
- Cool Flow™ exhalation valve
- Caking resistant filter media
- Fits easily under a welding hood
- Adjustable straps
- Face seal
- Flame resistant as per ASTM D2859-96 testing
- **10 respirators per box**

Order No. SE262

MFG No. 8212N95

3M

P95 PARTICULATE RESPIRATORS

- NIOSH approved P95
- Cool Flow™ exhalation valve
- M-nose clip
- Face seal
- Lightweight construction
- **10 respirators per box**

3M



SE265



SE266



SE267

Order No.	MFG No.	Description
SE267	8271P95	8271 Respirator
SE265	8576P95	8576 with Nuisance Level Acid Gas Relief
SE266	8577P95	8577 with Nuisance Level Organic Vapour Relief

8233 N100 PARTICULATE RESPIRATOR



- NIOSH approved N100
- Cool Flow™ exhalation valve
- Face seal
- Adjustable nose clip

- Lightweight construction
- Buckle adjustable strap
- **1 respirator per bag**

Order No. SE268

MFG No. 8233QN100

3M



7700 SERIES HALF MASK

- Non-allergenic silicone facepiece material conforms to facial features and doesn't harden with age
- Easy to clean, extremely durable and resists distortion ensuring a better fit
- Contoured sealing flange and cradle suspension system eliminates discomfort caused by pressure points on facial nerves
- Minimal dead air space improves worker comfort by limiting rebreathing of exhaled air
- Direct cartridge to facepiece seal minimizes replacement parts and simplifies maintenance



Cartridges not included

NORTH

Order No.	MFG No.	Size
ZC352	770030S	Small
SM802	770030M	Medium
SA788	770030L	Large

5400 SERIES LOW MAINTENANCE FULL FACEPIECE

- Elastomer material with high chemical resistance
- Oral nasal cup reduces fogging and lessens dead air space to improve comfort
- Hard-coated polycarbonate lens provide over 200° field vision

Cartridges not included



NORTH

Order No.	MFG No.	Size
SAH792	54001S	Small
SAH791	54001	Medium/Large

5500 SERIES LOW MAINTENANCE HALF-MASKS

- Non-allergenic elastomer for comfort and fit
- Contoured sealing flange eliminates discomfort
- Minimal dead air space improves worker comfort by limiting rebreathing of exhaled air
- Direct cartridge to facepiece seal minimizes replacement parts and simplifies maintenance



Cartridges not included

NORTH

Order No.	MFG No.	Size
SM890	550030S	Small
SM891	550030M	Medium
SM892	550030L	Large

7600 SERIES FULL FACEPIECE

- Non-allergenic silicone facepiece material conforms to facial features and doesn't harden with age
- Easy to clean, extremely durable and resists distortion ensuring a better fit
- Contoured sealing flange and cradle suspension system eliminates discomfort caused by pressure points on facial nerves
- Minimal dead air space improves worker comfort by limiting rebreathing of exhaled air
- Direct cartridge to facepiece seal minimizes replacement parts and simplifies maintenance



Cartridges not included

NORTH

Order No.	MFG No.	Size
SM893	76008AS	Small
S1777	76008A	Medium/Large

7190N99 LOW MAINTENANCE HALF-MASK

- Patented coaxial valving system to make it the coolest
- Low-maintenance
- Patented process helps avoid the uncomfortable build-up of heat and moisture common in disposables
- **Designed for welding, as the swept-back profile fits easily under a welding helmet**
- Can also be used for many applications with solid particulates and non-oil based aerosols if the hazard ration is less than 10
- In addition it has a replaceable filter
- 42CFR84 approved

NORTH



Order No.	MFG No.	Description
SA847	7190N99	Half Mask N99
SM897	719009N99A	Replacement Filter 2/pkg



GAS & VAPOUR CARTRIDGES

NORTH

Cartridges	Order No.	MFG No.	Description	Qty/ Pkg
	SM900	75SC	Defender™ Multi-Gas Cartridges are approved for protection against organic vapours, chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide (Escape), hydrogen fluoride, chlorine dioxide, ammonia, methylamine and formaldehyde	2
	ZD796	N75001	Organic Vapour Cartridge	2
	SM901	N75002	Acid Gas Cartridge	2
	SM889	N75003	Organic vapour, chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, chlorine dioxide cartridge	2

COMBINATION GAS & VAPOUR CARTRIDGES & P100 PARTICULATE FILTERS

NORTH

Cartridges	Order No.	MFG No.	Description	Qty/ Pkg
	SM906	75SCP100	Defender™ Multi-Purpose Cartridge and P100 Any Particulates Filter - 99.97% minimum filter efficiency - are approved for protection against organic vapours, chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide (escape), hydrogen fluoride, chlorine dioxide, ammonia, methylamine and formaldehyde	2
	SM797	7581P100	Organic vapour cartridge and P100 Particulates filter - 99.97% minimum filter efficiency	2
	SM908	7582P100	Chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, chlorine dioxide, formaldehyde cartridge and P100 any particulates filter - 99.97 % minimum filter efficiency	2
	SI782	7583P100	Organic vapours, chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, chlorine dioxide cartridge and P100 any particulates filter - 99.97% minimum filter efficiency	2

PARTICULATE FILTERS

NORTH

	Order No.	MFG No.	Description	Qty/ Pkg
	SM913	7580P100	P100 any particulate filter (HEPA) - 99.97% minimum filter efficiency	2
	SM914	75FFP100	Pancake P100 any particulate filter (HEPA) 99.97% minimum filter efficiency. NOTE: This P100 filter can be assembled to any gas/vapour cartridge, except Defender™, by using a 7500-35 adaptor	2
	SM915	7506N95	N95 Non-oil Particulate Prefilters - 95% Minimum filter efficiency. NOTE: This Prefilter can be assembled to any gas/vapour Cartridge (including 3000 Series) by using a N7500-27 filter cover	10

ACCESSORIES

NORTH

	Order No.	MFG No.	Description	Qty/ Pkg
	SM917	N750035	Adaptor for assembly of a 75FFP100 Pancake Filter to a gas and vapour cartridge (except Defender™ Cartridge)	1
	SM918	N750015	Filter holder for 3" filters	1
	SA798	N750027	Seal Check/Filter Cover	1



ADVANTAGE® 200 LS RESPIRATORS

- Clear blue facepiece subtracts 25% of the weight and adds noticeable softness to give workers more comfort and stability than ever
- AnthroCurve™ sealing surface, which instantly conforms to each wearer's unique facial characteristics
- The unmatched fit and comfort start with a soft, pliable combination of rubber and plastic that provides a virtually customized fit
- Patented MultiFlex® system equalizes pressure on the face-seal area while delivering exceptional stability
- 2 piece neck strap



MSA

Order No.	MFG No.	Size
SAG058	815696	Small
SAG059	815692	Medium
SAG060	815700	Large

ADVANTAGE® 3000 RESPIRATORS

- Full-face respirator features a wrap around lens combined with a soft, pliable silicone facepiece
- For the utmost in convenience, Advantage® 3000 uses the same cartridges and filters as the Advantage® 200 LS respirator
- Lower breathing resistance; includes a standard nosecup that reduces fogging in low temperatures or high humidity conditions
- Scratch-resistant coating; has been engineered to be optically correct, giving you superior visibility and peripheral vision
- Pre-adjustable straps for a consistent fit, time after time
- Standard rubber harness
- Meets the performance requirements of ANSI Z87.1.2003



MSA

Order No.	MFG No.	Size
SAG064	10028996	Small
SAG065	10028995	Medium
SAG066	10028997	Large

ADVANTAGE® RESPIRATOR CARTRIDGES

- The Advantage® line of particulate, chemical and combination cartridges is NIOSH-approved (to 42 CFR, Part 84)
- Provide lightweight, low-profile performance
- Cartridges fit both 200 LS half-mask and 3000 full-facepiece Advantage® respirators

MSA

Cartridges	Order No.	MFG No.	MSA Cartridge Description	Description	Approval For	Notes	Qty /Pkg
	SAG094	815355	GMA	Organic Vapours	Organic Vapours	2, 3	2
	SAG098	815357	GMC	Organic Vapours/ Acid Gas	Organic Vapours/Chlorine/Sulfur Dioxide/ Chlorine Dioxide/Hydrogen Chloride/ Hydrogen Sulfide***	2, 3	2
	SAG107	815369	Low-Profile P100	P100	99.97% filter efficiency level against all particulate aerosols	1, 4	2
	SAG109	815397	R95 Prefilter	R95 Prefilter particulate aerosols	95% filter efficiency level against all		2
	SAG111	815401	R95 Cover	R95 Snap-On Cover	Use with R95 prefilters		2

*** Escape Only

FLEXI-FILTER® PADS FOR ADVANTAGE® RESPIRATORS

- Low-profile, flexible pads fit well under a welding hood and with other personal protective equipment
- Great balance and weight distribution for maintaining a good face seal
- Swept-back design provides improved vision and comfort

MSA



Order No.	MFG No.	MSA Cartridge Type	Description	Notes	Qty /Pkg
SAG112	818342	P100	P100	1, 4	2
SAG113	818343	P100	P100 with Nuisance level Organic Vapours, Ozone removal	1, 4	2

NOTES:

1. Do not use in atmospheres containing less than 19.5 percent oxygen, in atmospheres containing gases or vapours or in atmospheres immediately dangerous to life and health.
2. Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.
3. Do not wear for protection against organic vapours with poor warning properties or those which generate high heats of reaction with the sorbent material in the cartridge.
4. 99.97 percent efficient against 0.3 micron DOP.



SURVIVAIR® PREMIER® HALF-MASK

Low breathing resistance for maximum comfort. One of the easiest breathing respirators of its type, the Survivair® Premier® incorporates a perspiration port to reduce facepiece slippage and skin irritation. This high quality, silicone respirator includes a soft sealing flange with rolled edges for increased wearer comfort.

- Elastic head straps adjust at the crown for easy fit and unobstructed vision
- Low profile nosepiece allows for compatibility with eyewear
- Lower breathing resistance than most other available models
- Bayonet, T-Series cartridges

Recommended use:

Ideal for professional users seeking comfort.
Low breathing resistance for maximum comfort.



Cartridges
not included



Order No.	MFG No.	Description	Size
SAM217	311000	Basic Assembly	Small
SAM218	312000	Basic Assembly	Medium
SAM219	313000	Basic Assembly	Large

SURVIVAIR MAX™ FULL FACEPIECE

Maximize your choice of headgear. SurvivairMax™ respirators offer an excellent field of vision, maximizing safety, comfort and wearer acceptance. Available with 5-Strap headgear style.

- High-grade soft silicone facepieces
- Double-scaling flange for optimum fit
- Bayonet, T-Series cartridges
- Distortion-free lens with anti-fog and anti-scratch coatings provide outstanding optical clarity in the most demanding environments
- Simple disassembly and reassembly for ease of maintenance
- Optional floating prescription lens insert for spectacle wearers



Cartridges
not included



Order No.	MFG No.	Description	Size
SAM226	821000	5-Strap	Small
SAM227	822000	5-Strap	Medium
SAM228	823000	5-Strap	Large

Description	Approval For	SPERIAN	NIOSH Approval No.	Order No.	MFG No.	Pairs /Case*
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CARTRIDGES

	Organic Vapours	Organic Vapours	TC-23C-737 (Half-Mask) TC-23C-1890 (Opti-Fit™, SurvivairMax™)	SAM265	T100100	3
	Uni-Sorb™ Multi-contaminant	Organic Vapours/Ammonia/Methylamine/ Chlorine/Hydrogen Chloride/Sulfur Dioxide/ Chlorine Dioxide/Hydrogen Fluoride/Hydrogen Sulfide (escape)/Formaldehyde	TC-23C-1725 (Half-mask) TC-23C-1900 (Opti-Fit™, SurvivairMax™)	SAM212	T100800	3

COMBINATION CARTRIDGES

	Organic Vapour Cartridge w/P100 Filter	Organic Vapours P100	TC-84A-238 (Half-mask) TC-84A-2650 (Opti-Fit™, SurvivairMax™)	SAM273	T105110	2
	Uni-Sorb™ Multi-contaminant Cartridge w/P100 Filter	Organic Vapours/Ammonia Methylamine/ Chlorine Hydrogen Chloride/Sulfur Dioxide/ Chlorine Dioxide/Hydrogen Fluoride/Hydrogen Sulfide (escape)/Formaldehyde P100	TC-84A-246 (Half-mask) TC-84A-2654 (Opti-Fit™, SurvivairMax™)	SAM275	T105810	2

Filter	Description	Approval For	NIOSH Approval No.	Order No.	MFG No.	Pairs /Case*
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	N95, solid and Non Oil-Based Aerosol	95% efficient against particulate aerosols free of oil	TC-84A-629 (Half-mask) TC-84A-2632 (Opti-Fit™, SurvivairMax™)	SAM277	T106010	12
	N99, Solid and Non-Oil Based Aerosol	99% efficient against particulate aerosols free of oil	TC-84A-735 (Half-mask) TC-84A-2638 (Opti-Fit™, SurvivairMax™)	SAM278	T107010	12
	P100 HEPA, Solid Liquid Aerosol and Oil Mist	99.97% efficient against all particulate aerosols	TC-84A-236 (Half-mask) TC-84A-2649 (Opti-Fit™, SurvivairMax™)	SAM272	T105005	5

ACCESSORIES

Description	Approval For	Order No.	MFG No.	Qty /Case**
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Filter Retainer Cover	Valuair®, Premier®, Premier® Plus and SurvivairMax™ respirators	SAM259	14900975	10
Filter Base	Valuair®, Premier®, Premier® Plus and SurvivairMax™ respirators	SAM257	14900578	10

* Sold per pair ** Sold per each



6000 SERIES HALF FACEPIECE LOW-MAINTENANCE RESPIRATORS

HALF MASK RESPIRATORS

- Lightest half mask respirator
- Soft, thermoplastic facepiece is extremely comfortable
- Easy-to-adjust headstraps
- Low profile design gives workers better visibility and permits comfortable wearing of safety glasses
- Dispose of the cartridges/filters when used to capacity
- The facepiece can be used over and over by simply washing as directed
- NIOSH/MSHA approved
- Supplied with reclosable storage bag



3M

Order No.	MFG No.	Size
SE886	6100	Small
SE887	6200	Medium
SE888	6300	Large

7500 SERIES ULTIMATE REUSABLE HALF FACEPIECE RESPIRATORS

- Advanced silicone material provides a softer feel on the face
- Unique adjustment design helps reduce pressure points on the face
- Dual-mode head harness, option of wearing in traditional or drop-down mode
- Durable and heat resistant plastics
- Cool Flow™ exhalation valve for easier breathing and helps reduce heat and moisture build-up



3M

Order No.	MFG No.	Size
SAG264	7501	Small
SAG265	7502	Medium
SAG266	7503	Large

6000 SERIES FULL FACEPIECE RESPIRATORS

PROVIDING LOW-MAINTENANCE, USER COMFORT, CONVENIENCE, AND EASIER BREATHING

Unique Centre Adapter

- Directs exhaled breath and moisture downward
- Smooth surface allows for quick and easy cleaning
- Helps reduce debris from depositing in valve areas
- Meets NIOSH requirements

3M™ Cool Flow™ Exhalation Valve

- Cool Flow™ valve design helps make breathing easier
- Helps reduce heat and moisture build-up in the facepiece
- Helps provide cool, dry comfort

Lens

- Wide field of vision helps provide excellent visibility
- Integrated optical correction limits distortion as you look from left to right

Comfort

- Lightweight, well-balanced
- Silicone face seal enhances comfort and durability
- Available in three sizes to comfortably fit many face sizes

3M



Order No.	MFG No.	Size
SE889	6700	Small
SE890	6800	Medium
SE891	6900	Large

PREFILTERS AND ACCESSORIES

5N11 N95 Particulate Prefilter: NIOSH certified prefilter and offer particulate protection against certain non-oil containing aerosols. Minimum 95% filter efficiency. Advanced filter construction reduces linting, helping to ensure exacting results during painting and refinishing operations. Low-profile and lightweight design for improved comfort and worker acceptance. For use on 6000 series cartridges with prefilter retainer. Use for solids and non-oil based particles including paint sprays (with appropriate gas and vapour cartridges).

5P71 P95 Particulate Prefilter:

Offers simplicity and ease of use while helping to provide reliable worker protection against certain oil and non-oil containing aerosols. NIOSH certified for providing a minimum filter efficiency of 95%. P-series filter features Advanced Electret Media, appropriate for both oil and non-oil containing environments with extended time use limitations. Advanced electrostatically charged microfibrils allow for a low profile design and easier breathing filter. Can be used with 6000 series cartridges with prefilter retainer.

Filters	Description	Approval For	Order No.	MFG No.	Qty /Pkg.
	5N11 N95 Prefilter	Solids and non-oil based particles including paint sprays with appropriate gas and vapour cartridges.	SE913	5N11	10
	5P71 P95 Prefilter	Oil and non-oil based particles including paint sprays and pesticides with appropriate gas and vapour cartridges	SE914	5P71	10

ACCESSORIES

	Prefilter Retainer	Use with N95 and P95 prefilters.	SE915*	501	1
	Prefilter Adaptor	Use with 2000 series filter	SE916*	502	1

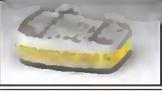
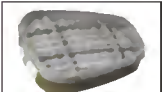
* Sold individually. Need two retainers or adaptors per respirator.

3M



6000 & 7000 SERIES REPLACEMENT CARTRIDGES

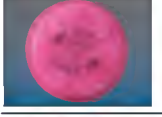


Cartridges	Description	Approval For	NIOSH Approval No.	Order No.	MFG No.	Qty /Pkg.
	Organic Vapours	Organic Vapours	TC-23C-1769	SE892	6001	2
	Acid Gas	Chlorine/Hydrogen Chloride/ Sulfur Dioxide/Chlorine Dioxide/ Hydrogen Sulfide (escape only)	TC-23C-1770	SE893	6002	2
	Organic Vapours/ Acid Gas	Organic Vapours/Chlorine/Hydrogen Chloride/Sulfur Dioxide/Hydrogen Fluoride/ Hydrogen Sulfide (escape only)	TC-23C-1771	SE894	6003	2
	Multi-Gas/ Vapour	Organic Vapours/Chlorine/Chlorine Dioxide/ Hydrogen Chloride/ Sulfur Dioxide//Hydrogen Fluoride/ Hydrogen Sulfide (escape only)/ Ammonia/Methylamine/Formaldehyde	TC-23C-1774	SE897	6006	2
	Organic Vapours/ P100	Organic Vapours permanently pre-attached P100 prefilter*	TC-84A-0699	SE899	60921	2
	Acid Gas/P100	Chlorine/Hydrogen Chloride Sulfur Dioxide/Chlorine Dioxide/ Hydrogen Sulfide (escape only) permanently pre-attached P100 prefilter*	TC-84A-0700	SE900	60922	2
	Organic Vapour/ Acid Gas/P100	Organic Vapours/Chlorine/Hydrogen Chloride/Sulfur Dioxide/Hydrogen Fluoride/Hydrogen Sulfide (escape only) permanently pre-attached P100 prefilter*	TC-84A-0701	SE901	60923	2
	Multi-Gas/ Vapour/P100	Organic Vapours/Chlorine/Chlorine Dioxide/Hydrogen Chloride/Ammonia/ Methylamine/ Sulfur Dioxide/Hydrogen Fluoride/Hydrogen Sulfide (escape only)/ Formaldehyde/permanently pre-attached P100 prefilter*	TC-84A-0704	SE904	60926	2

*At least 99.97% efficient against solid and liquid aerosols including oils

2000 SERIES/HARD SHELL FILTERS



Filters	Description	Approval For (Possible Applications)	Order No.	MFG No.	Qty /Pkg.
	2071 P95 Filter	Grinding, sanding, bagging, welding, other oily/dusty operations. At least 95% efficient against solid and liquid particles including those containing oil.	SE906	2071	2
	2078 P95 Filter w/Organic Vapour and Acid Gas	Chemical manufacturing, welding, aluminum smelting. At least 95% efficient against solid and liquid particles including those containing oil.	SE908	2078	2
	2091 P100 Filter	Welding, pharmaceutical manufacturing. At least 99.97% efficient against solid and liquid particles including those containing oil.	SE909	2091	2
	2097 P100 Filter w/Organic Vapour	Welding, metal foundry, chemical manufacturing undercoating operations, pharmaceutical manufacturing. At least 99.97% efficient against solid and liquid particles including those containing oil.	SE911	2097	2
	7093 P100	Welding, pharmaceutical manufacturing. At least 99.97% efficient against solid Hard Shell Filter and liquid particles including those containing oil.	SE912	7093	1

19944E



EAR PLUGS



MAX® FOAM

- Pre-shaped foam ear plugs feature a smooth outer skin
- Smooth, soil resistant skin helps prevent foreign material from penetrating the surface
- Attenuation tested in accordance with ANSI S3.19-1974
- Packed in poly bags

RATINGS: NRR 33 dB, SNR 34 dB



Order No.	MFG No.	Description	Qty /Box
SD630	MAX-1	Uncorded	200 prs.
SD631	MAX-30	Corded	100 prs.

LASER-LITE® MULTI-COLOUR FOAM

THE HOT LOOK IN COMFORTABLE HEARING PROTECTION!

- Multi-coloured ear plug
- Non-irritating, non-allergenic self-adjusting foam recovers to fit virtually any ear canal
- Attenuation tested in accordance with ANSI S3.19-1974

RATINGS:

NRR 32, SNR 35CE, SLC80 (corded) 27.5 SLC80 (uncorded) 27.0 CSA A(L)



SM563

Order No.	MFG No.	Description	Qty /Box
SM562	LL-1	Uncorded, Poly Bag	200 prs.
SM563	LL-30	Corded, Poly Bag	100 prs.

MAX-LITE® LOW PRESSURE FOAM

IDEAL FOR LONG-TERM USERS & THOSE W/SMALLER EAR CANALS!

- Offer long-term user comfort
- Non-irritating, non-allergenic self adjusting foam recovers to fit virtually any ear canal
- Attenuation tested in accordance with ANSI S3.19-1974

RATINGS:

NRR 30, SNR 34CE, SLC80 (corded) 27.5, SLC80 (uncorded) 27.0 CSA A(L).



SM558

Order No.	MFG No.	Description	Qty /Box
SM558	LPF-1	Uncorded, Poly Bag	200 prs.
SM559	LPF-30	Poly Cord, Poly Bag	100 prs.

3M™ DISPOSABLE

- Individually packaged for convenience
- Smooth, dirt resistant surface
- Soft hypo-allergenic polyurethane foam offers superior comfort
- Bright orange for visibility



RATINGS: NRR 29 dB, CSA Z94.2 Class AL

Order No.	MFG No.	Description	Qty /Box
SI762	1100	Uncorded	200 prs.
SAG359	1110	Corded	100 prs.

DECIDAMP2™

DECIDAMP2™ FOAM EAR PLUGS

- Designed to provide maximum comfort
- Foam is of non-toxic and non-irritating PVC
- Tested in accordance with ANSI S3.19-1974

RATINGS: NRR 29 dB



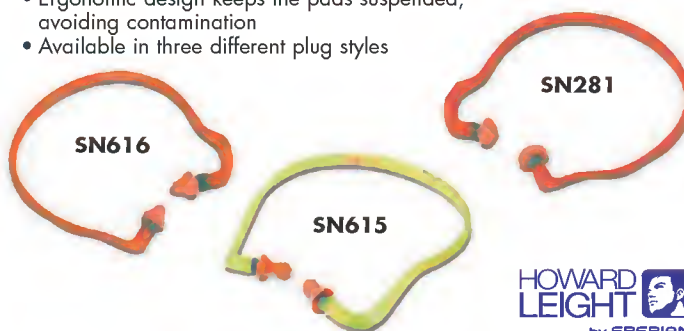
SA666



Order No.	MFG No.	Description	Qty /Box
SA666	280005	Uncorded	200 prs.
ZB546	280006	Corded	100 prs.

QUIET BANDS

- Ergonomic design keeps the pads suspended, avoiding contamination
- Available in three different plug styles



SN281

SN616

SN615



Order No.	MFG No.	Description
SN615	QB1HYG	QB1® HYG Inner-Aural 27 dB
SN616	QB2HYG	QB2® HYG Supra-Aural 25 dB
SN281	QB3HYG	QB3® HYG Semi-Aural 23 dB

REPLACEMENT PADS

SN617	QB100HYG	QB1® HYG 1 pair per pkg
SN618	QB200HYG	QB2® HYG 1 pair per pkg
SN279	QB300HYG	QB3® HYG 1 pair per pkg

One free pair of replacement pads included with each Quiet Band.



THUNDER®

- Non-deforming comfort headband fits all head sizes
- Ventilated inner headband and soft pads for maximum comfort
- Quick-Click height adjustments
- Dielectric design safe for electrical environments



Order No.	MFG No.	Description	NRR dB
SAK150	1010928	T1, Over-head Headband	26
SAK151	1010929	T2, Over-head Headband	28
SAK152	1010970	T3, Over-head Headband	30
SAO694	1011601	T1H, Cap Mount	23

LEIGHTNING®

- Maximum protection from an earmuff
- Robust steel headband withstands demanding use
- Padded foam headband and super-soft ear cushions deliver longwearing comfort
- Contemporary design improves wearer compliance
- Telescoping height adjustment



Order No.	MFG No.	Description	NRR dB
SAK147	1010922	L1, Over-head Headband	25
SAK148	1010923	L2, Over-head Headband	27
SAK149	1010924	L3, Over-head Headband	30

VIKING®

AMPLIFY THE SOUNDS YOU WANT TO HEAR, WHILE PROTECTING YOUR EARS!

- Three-position headband offers more wearing options and works with helmets, shields and other equipment
- Super soft ear cushions deliver longwearing comfort
- Dielectric design safe for electrical environments
- Headband straps for multiple-position wear



Order No.	MFG No.	Description	NRR dB
SAK153	1010925	V1, Multi-position Headband	23
SAK154	1010926	V2, Multi-position Headband	25
SAK155	1010927	V3, Multi-position Headband	29

CLARITY™

- Patented technology offers sophisticated filtering without electronics
- Blocks noise but helps wearers hear co-workers' speech, warning sounds and alarms
- Improves safety in environments where overprotection is a danger
- Ventilated headband and ear cushions deliver longwearing comfort
- Dielectric design safe for electrical environments



Order No.	MFG No.	Description	NRR dB
SAK157	1011142	C1, Over-head Headband	20
SAK158	1011145	C2, Multi-position Headband	23
SAK159	1011146	C3, Over-head Headband	27

MUSTANG, CSA CLASS A

- Lightweight and durable
- Provide low profile protection
- Soft sealing ear cushions give maximum comfort



NORTH

Order No.	MFG No.	Description	NRR dB	Wt. oz.
SA689	EM4155	Headband	23	7.4

MOSQUITO, CSA CLASS B

- Designed with a no-snag band that won't catch hair
- Extra-deep ear cushions, unique file-grain texture reducing perspiration
- Worn behind neck or under chin



NORTH

Order No.	MFG No.	Description	NRR dB	Wt. oz.
SA706	EM3144	Headband	21	6.5



PROTECTO-SHIELD® PROLOK® HEADGEAR

- Impact and splash protection
- Constructed of tough thermoplastic
- Heat resistant brow guard
- Easy sizing and tension adjustment for individual visor positioning
- Visors easily attach with no snaps, posts or levers
- Specially designed with a chemical splash drip edge to prevent fluids from splashing down inside the visor

Order No.	MFG No.	Description
HEADGEAR		
SG413	11380048	Ratchet Adjustment
SG414	11380049	Pinlock Adjustment
SG416	11380057	For Safety Cap with Bilsom® Earmuffs

Order No.	MFG No.	Description	Dimensions H" x W" x D"
FACESHIELDS - MOULDED			
SG418	11390044	Clear, Propionate	8 1/2 x 15 x 0.060
SG419	11390047	Clear, Polycarbonate	8 1/2 x 15 x 0.060
SG423	11390058	Clear, Polycarbonate	9 x 20 x 0.040
SG424	11390071	Black Steel, 24 Mesh	-
SAK431	11390066	Shade 3.0	8 1/2 x 15 x 0.060
SAK432	11390067	Shade 4.0	8 1/2 x 15 x 0.060
SAK433	11390068	Shade 5.0	8 1/2 x 15 x 0.060
SAK434	11390069	Shade 6.0	8 1/2 x 15 x 0.060

FACESHIELDS - ALUMINUM BOUNDED ACETATE			
SG420	11390054	Clear	6 x 15 x 0.040
SG421	11390055	Clear	8 1/2 x 15 x 0.040
SG422	11390057	Clear	9 x 20 x 0.040

FACESHIELD - ARC RATED			
SAR644	11391000	9.3 cal/cm²	8 1/2 x 15 x 0.060



SG414



SG418



SG424



SG420

VISORS (Sold separately)

- Universal hole pattern allows visors to be used with other popular manufacturers' headgear
- Easy attachment without snaps, posts or levers
- Reinforced edge to resist cracking from abuse
- Popular industry sizes and thicknesses
- Aluminum-bound acetate visors form easily for a contoured, customized fit
- Face shields offer secondary protection and must be worn with spectacles or goggles
- Compliance with OSHA, ANSI Z87+ and CSA Z94.3 standards



Note:
Visor sold separately

BIONIC™ SHIELD

- Lightweight and balanced, ergonomic design for extended use
- Extended chin and top-of-head protection
- Enhanced protection from airborne debris
- Excellent optics and increased visibility
- Easy-to-set ratcheting headgear locking mechanism assures comfortable, secure fit
- Highly adjustable headgear tilts visor nearer or farther from face depending on preference and application
- Easily replaceable visor with dual position choices
- Comfortable cell foam on back of headgear
- Breathable, removable, washable headband
- Comfortably worn with most goggles and respirators
- Passes ANSI Z87+ and CSA Z94.3 standards

SAK421



SAK425



Order No.	MFG No.	Description
FACESHIELD		
SAK421	S8500	Clear Uncoated Visor
SAK422	S8510	Clear Anti-Fog Hardcoat Visor

REPLACEMENT VISORS

SAK423	S8550	Clear Uncoated
SAK424	S8555	Clear Anti-Fog Hardcoat
SAK425	S8560	Shade 3.0, Uncoated
SAK426	S8565	Shade 5.0, Uncoated



FMX FACESHIELDS

- Exclusive overlay designs; heat and scratch resistant
- Oversized 7" heat resistant crown for extra protection
- Cam-locking channel grip design seals against sparks and debris
- Accommodates Fibre-Metal™ window sizes up to 19" x 9 3/4"
- Adjustable non-slip, non-strip ratchet headgear
- Lifetime limited warranty: Visor/headgear

Visors sold separately



SAR044



SAR045



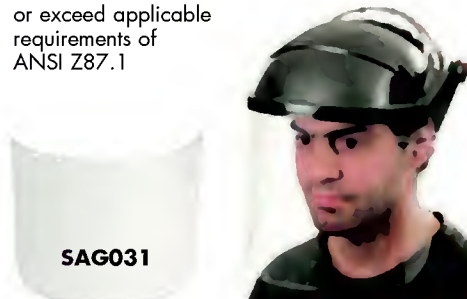
Order No.	MFG No.	Description
SAR044	F500X1	Flame Design
SAR045	F500X3	Wire Burner Design
VISORS		
SAP369	4199CL	Clear, 19" x 9 3/4"
SAR046	4199IRUV3	IR 3.0, 19" x 9 3/4"

DEFENDER® HEADGEAR

- Use where no hard hat is required
- Available with standard Sparkgard except for **SAG021**, available with extended high-temp Sparkgard
- For use in temperatures up to 250°F
- All styles adjust to head sizes 6 1/2 to 8
- Visors sold separately

VISORS

- Should always be worn with primary eye protection such as high impact resistant spectacle or goggles
- All MSA visors meet or exceed applicable requirements of ANSI Z87.1



HEADGEAR

Order No.	MFG No.	Description
SAG019	10021610	Pinlock Suspension
SAG020	10021611	Ratchet Suspension
SAG021	10021612	Ratchet Suspension w/Extended High Temp Sparkgard

VISORS

Order No.	MFG No.	Description	Window Dimensions				
			W"	x	D"	x	H"
POLYCARBONATE							
SAG031	488131	Clear, Formed	16	x	0.040	x	8
SAG032	488132	Clear, Formed	16	x	0.060	x	8
SAG033	10017934	Clear, Flat	15 1/2	x	0.040	x	8
SAG034	488138	Clear, Formed	19	x	0.060	x	8
SAG035	491908	Clear, Formed	16	x	0.060	x	6
SAG036	802337	Clear, Fog-Free	16	x	0.040	x	8
PROPIONATE							
SAG037	10005883	Clear	15 1/2	x	0.060	x	8
SAG038	10005882	Shade 5, Green	15 1/2	x	0.060	x	8
ARC SHIELD							
SAG043	10006024	Tinted, Propionate	20	x	0.060	x	10
ELEVATED TEMPERATURE							
SAG044	10005879	Clear Polycarbonate, Gold Coating	20	x	0.070	x	9 1/2
SAG045	10005880	Medium Green Tint, Polycarbonate, Gold Coating	20	x	0.070	x	9 1/2

170SB HEADGEAR

- Enables attachment of all Jackson visors to your safety cap
- Large spark deflector
- Universal hole pattern design
- Ratchet suspension
- Visors sold separately

Order No.
138-1613

MFG No.
3002447



VISORS

- All Jackson faceshields meet or exceed ANSI Z87.1 standards for secondary eye protection.

Order No.	MFG No.	Window Dimensions					Tint	Binding
		W"	x	D"	x	H"		
POLYCARBONATE								
138-1070	3009492	15.5	x	0.060	x	8	Clear	Unbound
138-1072	3002813	15.5	x	0.060	x	8	IR/UV 3.0	Unbound
138-1074	3002810	15.5	x	0.060	x	8	IR/UV 5.0	Unbound
ACETATE								
138-1950	3002806	12	x	0.040	x	8	Clear	Aluminum Bound
138-1955	3002824	12	x	0.040	x	8	Clear	Unbound
138-1960	3002815	12	x	0.040	x	8	Light Green	Aluminum Bound
138-1965	3002816	12	x	0.040	x	8	Dark Green	Aluminum Bound
138-1970	3002807	12	x	0.060	x	8	Clear	Aluminum Bound
138-1035	3002808	15.5	x	0.040	x	9	Clear	Aluminum Bound
138-1045	3002825	15.5	x	0.040	x	9	Clear	Unbound
138-1050	3002817	15.5	x	0.040	x	9	Light Green	Aluminum Bound
138-1055	3002818	15.5	x	0.040	x	9	Dark Green	Aluminum Bound
138-1915	3002826	19.5	x	0.040	x	9	Clear	Unbound
138-1065	3002809	15.5	x	0.060	x	9	Clear	Aluminum Bound

39 FIBRE FACESHIELD



- Mounts to 170-SB faceshield headgear
- Holds 2 x 4 1/4" filter plate (not included)
- Ideal for gas welding vs. a goggle, provides excellent ventilation
- Should not be used as a welding helmet
- Dimensions: 6 1/2" x 12"

Order No. 138-1105
MFG No. 3002811



ROUGHNECK HARD HAT

- Exceptional impact and crack resistance plus durability
- Lightest weight fibreglass cap available
- All day comfort under tough working conditions
- Crack-proof ratchet headband
- Comes with unique eight-point impact energy control system that reduces force by breaking it down into smaller increments for each load bearing point
- Meets ANSI-Z89.1 Type I Class C and G



by NORTH

SAM405



Order No.	MFG No.	Colour
SAM404	P2QRW-GREY	Grey
SAM405	P2QRW-GREEN	Green
SAM406	P2QRW-BLUE	Blue

FMX SERIES PROTECTIVE CAPS

- Exclusive overlay designs; heat and scratch resistant
- Smooth thermoplastic crown deflects impacting objects
- Exclusive eight-point suspension disperses impact energy
- Adjustable non-slip/non-strip ratchet headgear for ultimate comfort and fit
- Lifetime limited warranty on shell/headgear



SAR042

SAR043

SAR041



by NORTH



Order No.	MFG No.	Description
SAR041	E2RWX1	Flame design
SAR042	E2RWX2	Demon design
SAR043	E2RWX3	Wire Burner design

V-GARD® PROTECTIVE CAPS

OFFER COMFORTABLE, LIGHTWEIGHT PROTECTION

V-Gard® protective caps from MSA consist of a polyethylene shell and suspension system working together as a protection system. V-Gard® headwear features slotted sides and advanced styling in standard (6 1/2 - 8) size. Available with Fos-Trac® or 1-Touch™ suspension. Caps meet or exceed the applicable requirements for a Type I helmet (top impact) as outlined in ANSI Z89.1 2003, CSA 294.1-2005, Class E



Order No.	MFG No.	Colour
FAS-TRAC® SUSPENSION		
SAF970	475358	White
SAF971	475359	Blue
SAF972	475360	Yellow
SAF973	475361	Orange
SAF974	475363	Red
SAF975	475362	Green
SAF976	475364	Grey
SAF979	475365	Gold
SAF980	495855	Silver
SAF981	492559	Black

1-TOUCH™ SUSPENSION

SAM578	10057441	White
SAM579	10057442	Blue
SAM580	10057443	Yellow

Other colours available upon request

CANADIAN SUPER-V™ HELMETS

- Consists of a shell, foam liner and Fos-Trac® suspension system
- Provides limited impact and penetration protection in the event of top or lateral blow to head
- Tested for both top and lateral blows
- Certified to the CAN/CSA Z94.1-2005 standard, Class E for type 1 and 2 helmets
- Meets all applicable requirements of ANSI Z89.1-2003 for a Type I helmet (Class E)



Order No.	MFG No.	Colour
SAM685	C217091	White
SAM686	C217093	Yellow
SAM687	C217092	Blue
SAM691	C217097	Navy grey

Other colours available upon request

HELMET PADS & SWEATBANDS

- Field-tested to improve helmet grip with maximum perspiration absorption
- Helmet pads are flame retardant for added safety
- Made of an absorbent air-cushioned layer lined with 10% fleece cotton
- Velcro fastening system is designed to fit all major brands of headgear
- Sweatbands come with elastic strap
- Sold per pair



Order No.	Description
620-3200V	Suspender Pads for hard hat
SAM548	Sweatbands





ROTATING ELECTRICAL PLUG LOCKOUTS

- Outward/inward rotation allows for easier installation and storage
- Unique outward rotation allows for easier installation in confined space applications
- Surrounds the electrical plug; protects against accidental reconnection
- Each size rotates into itself to fit effectively into safety tool boxes
- Tough, lightweight, dielectric Xenoy® thermoplastic bodies withstand chemicals; perform effectively in extreme conditions (temperature range -50°F (-46°C) to 350°F (177°C))
- Red lockout colour identifies the safety lockout application
- Complete with high-visibility permanent safety labels (English, French and Spanish)
- **SAL521** labels can be written-on to identify the responsible person and then erased for the next job



Master Lock®

Order No.	MFG No.	For Electrical Plugs Sizes Up To
SAL520	487	2 1/4" Dia. x 3 1/4" w/Cord Dia. up to 3/4" (Most 110- and Many 220-Volt Plugs)
SAL521	488	3" Dia. x 6" w/Cord Dia. up to 3/4" (Most 220- and 550-Volt Plugs)

COMPACT PLUG PRONG LOCKOUT

- Compact design locks out 110 V – 120 V electrical plugs
- Works with two-prong or two-prong with ground plugs
- Can be used with safety padlocks or lockout hasps, no key needed
- New S2005 design can now accommodate larger shackle locks and safety hasps



Master Lock®

Order No.	MFG No.	Description
SAR841	S2005	Electrical outlet lockout

MINIATURE CIRCUIT BREAKER LOCKOUT

- Locks out miniature ISO/DIN circuit breakers found throughout the world



Master Lock®

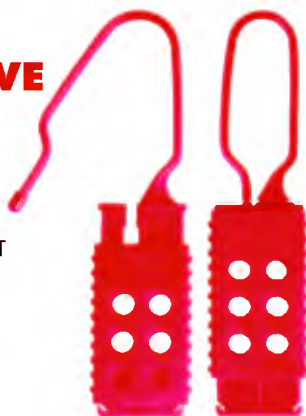
Order No.	MFG No.	Description
SAR843	S2390	Narrow switches: 11 mm or less
SAR844	S2391	Wide Switches: 11 mm to 13 mm

DIELECTRIC NON-CONDUCTIVE SAFETY HASP

- Constructed of lightweight tough durable nylon
- Bright red for better visual identification
- Dimensions: 1 3/4" W x 6 7/8" T
- Inside jaw: 1" Dia W x 2 1/4" T

Order No. SAR075
MFG No. 428

Master Lock®



DIELECTRIC SAFETY PADLOCKS

- Ideal for confined spaces, medical, military and electrical lockout
- Nylon shackle does not conduct electricity and is non-sparking
- Xenoy™ plastic and brass components are non-magnetic

Master Lock®

Order No.	MFG No.	Description
SAR833	406RED	Red
SAR834	406OR	Orange
SAR835	406YLW	Yellow
SAR836	406GRN	Green
SAR837	406BLU	Blue
SAR838	406BLK	Black
SAR839	406PRP	Purple
SAR840	406TEAL	Teal



SAR838



EYEWASH STATIONS

Wall stations provide job site convenience and immediate accessibility. Visible with full emergency use instructions in front. Constructed of sturdy high-impact plastic. Available in single 16 oz. or double 32 oz. full squeeze bottles or with empty spout and eye cup bottle. Solution is sterile isotonic. Includes four pre-drilled holes for easy wall mounting. Empty spill spout and eye cup bottles available separately. Ideal for high eye hazard areas.

SN702



SR373

Order No.	MFG No.	Description	Size"
SINGLE STATIONS			
SAK725*	E/A3827	W/Empty 16 oz. Spill Spout and Eye Cup	11 x 14
SAK726*	E/A3832	Panel Only	11 x 14
SR370	E/A3840	W/32 oz. Squeeze Bottle	6 1/2 x 11
SR371	E/A3837	Panel Only	6 1/2 x 11
SD556	E/A3825	W/Empty 32 oz. Spill Spout and Eye Cup	14 x 17
SD557	E/A3830	Panel Only	14 x 17

DOUBLES STATIONS

SN702	E/A3841	W/2-32 oz. Squeeze Bottles	11 x 14
SR372	E/A3838	Panel Only	11 x 14
SR373*	E/A3826	W/2 Empty 32 oz. Spill Spout and Eye Cup	14 x 17
SR374*	E/A3831	Panel Only	14 x 17

REPLACEMENTS

SAK727	E/A3836	Empty 16 oz. Spill Spout and Eye Cup Bottle	
YA094	E/A3835	Empty 32 oz. Spill Spout and Eye Cup Bottle	
SAK728	E/1507AISO	16 oz. Eyewash Solution	
SN703	E/1507BISO	32 oz. Eyewash Solution	
SR375	E/1507CISO	4 litres Eyewash Solution	

* Without mirror

FLASH FLOOD

Portable self-contained eyewash station, classified as a personal (secondary) eyewash device, provides flexible emergency eyewash capability in economical systems. Includes a 1 gallon container of Eyesaline® solution providing three full minutes of gravity fed flow. The protective nozzle covers are easily pulled off in an emergency and each nozzle has a built-in filter for extra protection.



SA403

PORTA-STREAM® I & II

Self-contained high-impact polyethylene units mount on any wall or sit on a level surface. Single pull strap, once activated, leaves workers hands free to hold eyes open. Available in 6 or 16 gallon units. Each unit supplied with an emergency eyewash sign and Eyesaline® concentrate to mix with water. Optional dust cover available to keep flushing area free of contaminants. Removal of cover pulls off retainer caps and activates flow.

SA425

Note:

Eyesaline® concentrate once opened has a six month life.



SA408

Order No.	MFG No.	Description	Wt. lbs.
SA425	32-000100-0000	Porta-Stream® I - 6 gal, 6 min. flush (English instructions)	19
SAM656	32-000100-0022	Porta-Stream® I - 6 gal, 6 min. flush (French instructions)	19
SA427*	32-000200-0020	Porta-Stream® II - 16 gal., 15 min. flush (English instructions)	36
SAJ676*	32-000200-0022	Porta-Stream® II - 16 gal., 15 min. flush (French instructions)	36
SA408	32-000509-0020	Eyesaline® concentrate, 70 oz. (For SA425 & SAM656)	5
SA411	32-000513-0020	Eyesaline® concentrate, 180 oz. (For SA427 & SAJ676)	13

* SEI Certified to meet ANSI Z358.1



WELSAFE® NO. 447 MATTING

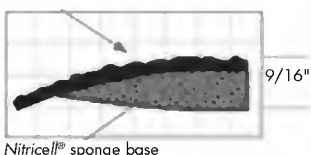
PERFORMANCE: BEST

- Specifically for use in welding areas
- WeldSafe®'s new, thicker and improved rubber surface is uniquely formulated to repel spark and hot metal shards
- Designed to outperform traditional anti-fatigue matting in spot welding applications
- Improved surface has a higher melt point of 285°F
- Its super resilient Nitricell® sponge base is a Nitrile rubber composite that offers unparalleled comfort during long shifts
- Custom widths and unusual configurations are available
- All edges are safety beveled
- Over 1/2" thick



Order No.	Dimensions		
	W'	x	L'
NG181	2	x	3
NG182	3	x	5
SAL373	2	x	75
NG183	3	x	75
SAL374	4	x	75

Thicker Rubber surface



Nitricell® sponge base



3 years warranty

Anti-fatigue mat specifically designed for welding!

DIAMOND-PLATE SPONGECOTE® NO. 415

- It provides unparalleled comfort, resulting in enhanced employee productivity and morale
- An excellent choice for dry areas, Diamond-Plate SpongeCote® sets the standard for anti-fatigue matting
- Its unique Nitricell® sponge base is a customary 3/8" thick and is the benchmark for standing worker comfort
- Designed for heavy-use areas, the popular, high-tech diamond-plate surface resists abrasion and most chemical spills and is available with coloured borders for maximum safety awareness
- All edges are safety beveled

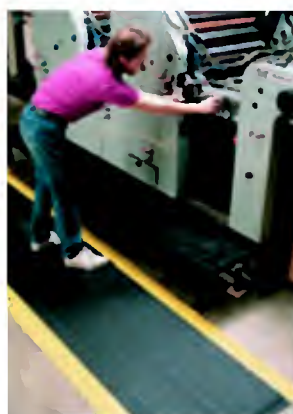


Order No.	Dimensions			Order No.	Dimensions		
	W'	x	L"		W'	x	L"
9/16" BLACK/YELLOW				9/16" BLACK			
NB416	2	x	3	NB420	2	x	3
NB430	3	x	5	NB431	3	x	5
NB425	2	x	75	NB426	2	x	75
NB439	3	x	75	NB440	3	x	75
SAL165	4	x	75	SAL164	4	x	75

Available in cuts up to 75' in length



Nitricell® sponge base



3 years warranty

3 years warranty

LIGHTWEIGHT/COMFORT WELDER HARNESS

- Lightweight, comfort welder harness and lanyard features blue, flame-retardant Nomex® webbing to protect against weld splatter
- The special inner Kevlar® core adds strength and high-temperature resistance
- Contrasting webbing colours make inspection easier
- Rated to 400-lb (181.4 kg) capacity when using a SofStop® shock absorber
- Meets all applicable OSHA, ANSI and CSA requirements



SAK326

ALL WELDING HARNESSES INCLUDE UNIQUE, DURABLE LEXAN® LABELLING WITH INSPECTION GRID FOR EASY TRACKING. MODEL NUMBERS LISTED ARE FOR UNIVERSAL SIZE. HARNESSES ARE ALSO AVAILABLE IN SMALL/MEDIUM AND XX-LARGE.

Order No.	MFG No.	Back D-Ring	Front D-Ring	Side D-Rings	Shoulder Strap Buckles	Leg Strap Buckles	Chest Strap Buckle	Sub-Pelvic Strap	Special Features
LIGHTWEIGHT/COMFORT HARNESS									
SAK325	850K/UBL	Yes	No	No	Friction	Mating	Mating	Yes	Pull-Down Adjustment

WELDING LANYARD									
Order No.	MFG No.	Material			Two Legged	Harness Connection	Anchorage Connection	Standard Length	
SAK326	913K/6FTBL	Nomex®/Kevlar® Webbing			No	Locking Snap Hook	Locking Snap Hook	6' (1.8 m)	



FLAMMABLE STORAGE CABINETS

- Double-wall 18-gauge welded steel construction with 1 1/2" air space
- Dual 2" capped vents with flash arrestors
- Full-height piano hinges open a full 180° for easy access
- Locking handle with 3-point latch
- 2" high leak proof door sill
- All shelves are adjustable on 2 1/2" on centres
- Adjustable levelling feet
- Tough corrosive-resistant finish
- Meets NFPA Code 30 and OSHA standard 1910 106 for storage Class I, II and III liquids
- FM Approved



SAQ325



SAQ326

Order No.	Door Type	Capacity /Gallons	Adjustable Shelves	Ext. Dim. W" x D" x H"	Listing Approvals	Wt. lbs.
SAQ325	2-door, manual	30	1	42 x 18 x 44	FM	174
SAQ326	2-door, manual	45	2	43 x 18 x 65	FM	252

EXTRA SHELF

SAQ328	Extra shelf for use with 30 and 45 gallon cabinets			39 3/8" W x 14" D	-	9
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PAINT & INK STORAGE CABINETS

- Double-wall 18-gauge welded steel construction with 1 1/2" air space
- Dual 2" capped vents with flash arrestors
- Full-height piano hinges open a full 180° for easy access
- Locking handle with 3-point latch
- 2" high leak proof door sill
- All shelves are adjustable on 2 1/2" centres
- Adjustable levelling feet
- Tough corrosive-resistant finish
- Meets NFPA Code 30 and OSHA standard 1910 106 for storage Class I, II and III liquids
- FM Approved



Order No.	Door Type	Capacity /Gallons	Adjustable Shelves	Ext. Dim. W" x D" x H"	Listing Approvals	Wt. lbs.
SAQ327	2-door, manual	60	5	43 x 18 x 65	FM	267

EXTRA SHELF

SAQ328	Extra shelf for 60-gallon paint cabinet			39 3/8" W x 14" D	-	9
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SURE-GRIP® EX FLAMMABLE STORAGE CABINETS

- Double wall welded 18-gauge steel construction with 1 1/2" of insulating air space
- FM approved and meet NFPA and OSHA requirements
- Doors self-latch for easy and secure closure. 3 pt stainless steel bullet latches offer longevity and increased heat resistance
- U-Loc™ handle keeps aisles clear and offers fingertip access; comes with 2 keys or accepts optional padlock for greater security
- Two 2" flame arrestor vents and ground wire connection screw
- 2" deep leak-proof sill
- Adjustable leveler legs, and galvanized "SpillSlope™" shelves that adjust on 3" centres
- Durable yellow powder coat paint finish provides long life and exceptional chemical resistance
- Haz-Alert™ reflective warning labels offer visibility under dark conditions



SAP510



SAP509

Order No.	MFG No.	Door Type	Capacity/ Gallons	Adjustable Shelves	Ext. Dim. H" x W" x D"	Listing Approvals	Wt. lbs.
SAP509	893000	2 doors, manual	30	1	44 x 43 x 18	FM	231
SAP510	894500	2 doors, manual	45	2	65 x 43 x 18	FM	310
SAQ024	896000	2 doors, manual	60	2	65 x 34 x 34	FM	387
SAQ026	899000	2 doors, manual	90*	2	65 x 43 x 34	FM	480

*Codes state that not more than 60 gallons may be Class I and Class II liquids.



SURE-GRIP® EX PAINT & INK SAFETY STORAGE CABINETS

Separate and identify Class III combustibles in high performance paint and ink safety storage cabinets. They have the same safety and quality features and options that are available in Justrite®'s safety cabinets for flammables with additional shelves.

- Multiple shelves are ideal for 1-gallon paint cans (Class III liquids)
- Cabinets are available in 20, 40, 60 and 120-gallon capacities
- U-Loc™ handle comes with double key set or accepts optional padlock for greater security
- Haz-Alert™ reflective warning labels offer visibility under dark conditions
- Durable red powder coat paint finish easily identifies contents and is highly chemical resistant
- FM approved
- Meets NFPA and OSHA regulations

Backed by our
10 Year
Limited Warranty



SAQ084



SAQ081

Order No.	MFG No.	Door Type	Capacity/ Gallons	Adjustable Shelves	Ext. Dim. H" x W" x D"	Listing Approvals	Wt. lbs.
SAQ079	891511	1 door, manual, Compac	20	2	44 x 23 1/4 x 18	FM	154
SAQ081	893011	2 doors, manual	40	3	44 x 43 x 18	FM	239
SAQ084	894511	2 doors, manual	60	5	65 x 43 x 18	FM	345
SAQ087	896011	2 doors, manual	120*	5	65 x 34 x 34	FM	424

*Codes state that not more than 60 gallons may be Class I and Class II liquids.

OILY WASTE CANS

Dispose of oil-soaked rags safely and protect your facility from fires that start from spontaneous combustion, sparks and other ignition sources. OSHA compliant Oily Waste Cans are essential whenever solvent cloths and wiping rags are used.

- Self-closing cover reduces oxygen source to prevent fire from starting
- Round construction and raised bottom encourage air circulation to disperse heat and prevent rust
- Rugged galvanized steel body in a variety of sizes accommodate any work area
- Carrying handle for portability
- 6 - 21 US gallon foot-operated models are FM and UL approved
- 2 US gallon hand-operated, countertop model is FM approved



SR362

SR358

Order No.	MFG No.	Cap US Gal	Dimensions		Wt. lbs.
			Outer Dia."	x H"	
YELLOW					
SR361	09200Y	2	9 5/8	x 9 1/8	6
SR362	09101	6	11 7/8	x 15 7/8	10
SR363	09301	10	13 15/16	x 18 1/4	12
SR364	09501	4	16 1/16	x 20 1/4	15
SR365	09701	21	18 3/8	x 23 7/16	22

RED					
SR356	09200	2	9 5/8	x 9 1/8	6
SR357	09100	6	11 7/8	x 15 7/8	10
SR358	09300	10	13 15/16	x 18 1/4	12
SR359	09500	14	16 1/16	x 20 1/4	15
SR360	09700	21	18 3/8	x 23 7/16	22

TYPE I SAFETY CANS

Compliant Type I Safety Cans are designed with a single spout for filling and pouring of all types of flammable liquids.

- Self-closing, leakproof lid prevents spills and leaks
- Cans up to one US gallon feature a trigger release handle while larger capacities have a swinging handle to greatly ease carrying heavier loads
- Unique counterbalance design with full-fisted grip handle offers gravity-assisted pouring
- All models are equipped with an FM-tested, dual-density flame arrester to reliably dissipate heat to stop flashback ignition
- To protect against rupture or explosion, positive pressure relief mechanism automatically vents between 3 and 5 PSIG
- Finished in a tough powder coat paint, Justrite® cans resist chemicals and stand up to heavy abuse
- FM/UL/ULC approved



SAI519



SAI520



SAI526



Backed by our
10 Year
Limited Warranty



Order No.	MFG No.	Description	Dimensions Outer Dia." x H"		Wt. lbs.
SAI519	10301	1 US Gallon	7 1/4	x 11 1/2	4
SAI520	10501	2 US Gallon	9 1/2	x 13 1/2	5
SAI526	10801	5 US Gallon	11 1/2	x 17	7



ER70S6 CARBON STEEL WELDING WIRE



- Highest combination of manganese and silicone deoxidizers
- Permits high current welding with CO₂ gas shielding
- Can also be applied with ArCO₂
- Excellent wetting
- Good for out-of-position welding using short circuiting transfer
- Layer/level wound wire
- **Certified by CWB to CSA class W48 for ER49S-6**
- **Certified by AWS to class A5.18 for ER70S6**



Order No.	Diameter	Spool Weight	Spools Per Master Box
NT549	0.023" / 0.6 mm	2 lbs. / 0.9 kg	18
NT550	0.030" / 0.8 mm	2 lbs. / 0.9 kg	18
NT551	0.035" / 0.9 mm	2 lbs. / 0.9 kg	18
NT552	0.045" / 1.14 mm	2 lbs. / 0.9 kg	18
NT553	0.023" / 0.6 mm	11 lbs. / 5 kg	4
NT554	0.030" / 0.8 mm	11 lbs. / 5 kg	4
NT555	0.035" / 0.9 mm	11 lbs. / 5 kg	4
NT556	0.023" / 0.6 mm	33 lbs. / 15 kg	1
NT557	0.030" / 0.8 mm	33 lbs. / 15 kg	1
NT558	0.035" / 0.9 mm	33 lbs. / 15 kg	1
NT559	0.045" / 1.14 mm	33 lbs. / 15 kg	1
NT560	0.035" / 0.9 mm	44 lbs. / 20 kg	1
NT561	0.045" / 1.14 mm	44 lbs. / 20 kg	1

TEN GAUGE™ E71TGS FLUX-CORED WELDING WIRE

- Self-shielding – welds steel without gas
- Gasless steel welding wire for single pass applications
- Excellent for use on thin gauges of galvanized and mild steels



Order No.	MFG No.	Dia."	Spool Wt. lbs.
NP501	E71TGSE2	0.030	2
NP503	E71TGSF2	0.035	2
NP506	E71TGS2	0.045	2
NP589	E71TGSE5	0.030	10
NP504	E71TGSF5	0.035	10
NP507	E71TGS5	0.045	10
NP502	E71TGSE8	0.030	25
NP505	E71TGSF8	0.035	25
NP508	E71TGS8	0.045	25

MIG WIRE CLEANING PADS

- Designed for use on all MIG wire feeders
- Removes dust and dirt from the wire prior to wire entry into the liner conduit
- Use of wire feed pads can decrease the coefficient of friction in the liner as much as 50%-60% and reduce erratic feed and burn backs
- Treated pads can be used on all alloyed wires except aluminum
- **Sold per package**



Order No.	Qty /Pkg.
720-1000-KIT	6
720-1010-KIT	24





METALSHIELD® MC®-6 MILD STEEL METAL-CORE WIRE

- For high quality welds that require a great bead shape, appearance and low spatter levels
- Combining the arc characteristics of MIG with the performance benefits of flux-cored welding
- Capable of fast travel speeds and high deposition rates with low smoke and spatter under high Argon gas blends
- Reduced surface preparation time -highly deoxidizing wire electrode for excellent performance over mill scale and rust
- Reduced distortion due to low heat input
- Tolerates gaps and inconsistent fit-up
- Shielding Gas: 75-95% Argon/Balance CO₂; 95-98% Argon/Balance CO₂ (not recommended for use with 100% CO₂)

Recommended Welding Position:

Small diameters can be run out of position at low parameters. Large diameter is intended for flat welding only.

Specification conformance:

AWS A5.18-93; ASME SFA5.18; CWB/CSA: E70C-6M-CH

Order No.	MFG No.	Dia."	Spool Wt. lbs.
TTU078	ED030392	0.045	33
TTU079	ED030393	0.052	33
TTU080	ED030394	1/16	33



LINCOLN®
ELECTRIC
THE WELDING EXPERTSSM

DYNASHIELD® E71T-1/E71T-1M ALL POSITION FLUX-CORE WIRE

- Formulated to deposit x-ray quality welds in flat, vertical up, horizontal, or overhead positions
- Designed for welding low carbon and mild steel, structural and pressure vessel grades
- Ideal for shipyard, automotive, structural, and related fabrication
- The all-position characteristics make it an excellent replacement for E7018 coated electrodes
- Provides a higher deposition rate, easier slag removal and greater efficiency than manual welding with coated electrodes, translating to greater welding productivity and lower fabrication cost
- Flux-core ingredients produce a fast-freezing slag that facilitates out-of-position welds
- Bead contour is flat to slightly convex
- Special deoxidizers are added allowing operators to weld over light mill scale and rust
- Slag is easy to remove and low spatter provides easy post-weld cleaning
- Shielding Gas: 100% CO₂ or 75% Argon/25% CO₂ mixture (Argon/CO₂ produces a spray-type transfer that helps control the weld puddle in out-of-position applications)
- Polarity: Reverse (Direct Current, Electrode Positive - DCEP)



Optimum Welding Parameters

75/25 Shielding Gas (horizontal fillet)	0.035"	0.045"	0.052"	1/16"
Wire feed speed (IPM)	500	450	375	325
Current (A)	193	260	300	405
Voltage (V)	29	29.5	29.5	30.5

Recommended Welding Position:

All positions
Specification Conformance: E71T-1; E71T-1M; E71T-1 H4; E71T-1M H4; AWS A5.20; ASME SFA 5.20; ABS

Typical Weld Metal Chemistry (weight %):

@ 100% CO₂ - 0.08 C, 1.22 Mn, 0.46 Si, 0.008 S, 0.013 P
@ 75% Ar/25% CO₂ - 0.09 C, 1.41 Mn, 0.55 Si, 0.009 S, 0.013 P

Typical Weld Metal Mechanical Properties:

	100% CO ₂	75% Ar/25% CO ₂
Tensile Strength	79,000 psi	92,000 psi
Yield Strength	66,000 psi	78,000 psi
Elongation in 2"	28%	26%
Charpy V-Notch		
Impact Energy @ 0°F	AVG 41 ft-lb	AVG 72 ft-lb



Order No.	MFG No.	Dia."	Spool Wt. lbs.
TTU003	P71T1F3SP	0.035	33
831-1067	P71T1H3SP	0.045	33
TTU004	P71T1K3SP	0.052	33
TTU005	P71T133SP	1/16	33



ER4043 & ER5356 ALUMINUM WELDING WIRE

- **Harris®** aluminum spooled and 36" cut length wires are methodically manufactured to meet the rigid requirements of AWS A5.10.
- Cleanliness, density and temper of wires are precisely controlled
- AWS A5.25, ERCuSi-A compliant
- Each container has an identification label showing grade, size, weight and heat number
- Conformance certifications can be furnished upon request



Order No.	MFG No.	Dia."	Spool Wt. lbs.
ER4043 SPOOLED WIRE			
859-1280	04043E1	0.030	1
859-1310	04043F1	0.035	1
859-1140	0404321	0.045	1
859-1180	0404331	1/16	1
TTU180	04043E5	0.030	5
TTU182	04043F5	0.035	5
TTU181	04043E6	0.030	12
TTU183	04043F6	0.035	16
TTU172	0404327	0.045	16
TTU174	0404337	1/16	16

ER308L, ER309L & ER316L STAINLESS STEEL WELDING WIRE

- Stainless steel spooled wires and cut lengths are precisely produced to conform to the requirements of AWS A5.9
- Manufactured to exacting standards with particular attention given to cleanliness, concentricity and helix of the finished product



Order No.	MFG No.	Dia."	Spool Wt.
ER308L SPOOLED WIRE			
833-1285	0308L-12	0.025	2 lbs.
833-1290	0308L-15	0.025	10 lbs.
833-1320	0308L-E2	0.030	2 lbs.
833-1325	0308L-E5	0.030	10 lbs.
833-1330	0308L-E8	0.030	25 lbs.
TTU018	M308LSI.09M	0.035	5 kg (11 lbs.)
TTU019	M308LSI.09L	0.035	15 kg (33 lbs.)
TTU020	M308LSI.12M	0.045	5 kg (11 lbs.)
TTU021	M308LSI.12L	0.045	15 kg (33 lbs.)

STAINLESS FLUXCORE CORED WIRE

Precisely formulated for all-position versatility with a smooth arc, good wetting and overall operator appeal. Products conform to AWS Specification A5.22.

E308LT1-1

Most frequently used for base metals of similar composition such as AISI Types 301, 302, 304, 305 and 308.

E309LT1-1

Used for welding similar alloys in wrought or cast form; occasionally, to weld Type 304 base metals when severe corrosion conditions exist; and, at times, welding dissimilar steels.

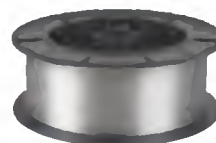
E316LT1-1

Used for welding similar alloys (containing about 2% molybdenum); also for high temperature service applications (the presence of molybdenum provides increased creep resistance at elevated temperatures).

Order No.	MFG No.	Dia."	Spool Wt. lbs.
ER5356 SPOOLED WIRE			
859-1510	05356D1	0.025	1
859-1540	05356E1	0.030	1
859-1570	05356F1	0.035	1
859-1390	0535621	0.045	1
859-1430	0535631	1/16	1
TTU194	05356E5	0.030	5
TTU196	05356F5	0.035	5
TTU187	0535625	0.045	5
TTU195	05356E6	0.030	12
TTU197	05356F6	0.035	16
TTU188	0535627	0.045	16
TTU190	0535637	1/16	16

ER4043 - 36" CUT LENGTH WIRE			
TTU173	404330	1/16	10
TTU175	404350	3/32	10
TTU177	404360	1/8	10
TTU178	404370	5/32	10
TTU179	404380	3/16	10

ER5356 - 36" CUT LENGTH WIRE			
TTU189	535630	1/16	10
TTU191	535650	3/32	10
TTU192	535660	1/8	10
TTU193	535670	5/32	10



Order No.	MFG No.	Dia."	Spool Wt.
ER309L SPOOLED WIRE			
833-1370	0309L-E2	0.030	2 lbs.
TTU022	0309L-E5	0.030	10 lbs.
TTU023	M309LSI.09M	0.035	5 kg (11 lbs.)
ER316L SPOOLED WIRE			
833-1410	0316L-12	0.023	2 lbs.
833-1415	0316L-15	0.023	10 lbs.
833-1435	0316L-E2	0.030	2 lbs.
833-1440	0316L-E5	0.030	10 lbs.
833-1445	0316L-E8	0.030	25 lbs.
TTU024	M316LSI.09M	0.035	5 kg (11 lbs.)
TTU025	M316LSI.09L	0.035	15 kg (33 lbs.)
TTU026	M316LSI.12M	0.045	5 kg (11 lbs.)
TTU027	M316LSI.12L	0.045	15 kg (33 lbs.)

E308LT1-1



E309LT1-1



E316LT1-1



Order No.	MFG No.	Dia."	Spool Wt. lbs.
TTU291	308LFCF8	0.035	25
TTU292	308LFCH8	0.045	25
TTU293	308LFC38	1/16	25
TTU294	309LFCF8	0.035	25
TTU295	309LFCH8	0.045	25
TTU296	309LFC38	1/16	25
TTU297	316LFCF8	0.035	25
TTU298	316LFCH8	0.045	25





36" STAINLESS STEEL CUT LENGTH TIG ROD - CWB APPROVED

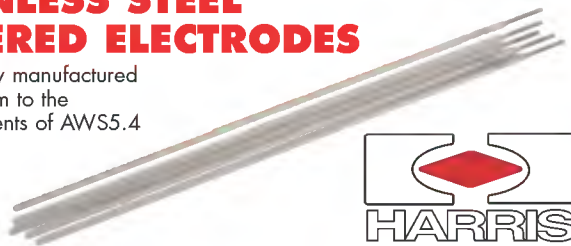
- Lincoln® ER308L - For joining 304 and 304L and other 18-8 stainless steels
- Lincoln® ER309L - For 309 stainless steels and joining carbon steels or low alloy steels to stainless steels
- Lincoln® ER316L - For joining 316L stainless steels



Order No.	MFG No.	Dia."	Wt. lbs.
ER308L			
TTU028	EDM13507122	1/16	10
TTU029	EDM13507123	3/32	10
TTU030	EDM13507124	1/8	10
ER309L			
TTU031	EDM13507422	1/16	10
TTU032	EDM13507423	3/32	10
TTU033	EDM13507424	1/8	10
ER316L			
TTU034	EDM13507722	1/16	10
TTU035	EDM13507723	3/32	10
TTU036	EDM13507724	1/8	10

E308L-16 & E316L-16 STAINLESS STEEL COVERED ELECTRODES

- Exactly manufactured to conform to the requirements of AWS5.4



Order No.	MFG No.	Size"	Wt. lbs.
308L-16 ELECTRODES			
832-1035	308L6-30	1/16 x 10	5
832-1045	308L6-50	3/32 x 12	10
832-1050	308L6-60	1/8 x 14	10
832-1055	308L6-70	5/32 x 14	10
316L-16 ELECTRODES			
832-1195	316L6-30	1/16 x 10	5
832-1205	316L6-50	3/32 x 12	10
832-1210	316L6-60	1/8 x 14	10
832-1215	316L6-70	5/32 x 14	10

SILICON BRONZE WELDING WIRE

- Used for inert gas arc welding of copper, copper-silicone, and copper-based metals to themselves as well as to steel
- Frequently used to gas tungsten arc and gas metal arc weld coated steels
- Also used to surface areas subject to corrosion
- Each container has an identification label showing grade, size, weight and heat number
- AWS A5.27, ERCuSi-A
- Conformance certifications can be furnished upon request

Order No.	MFG No.	Dia."	Spool Wt. lbs.
OOSIB SPOOLED WIRE			
TTU142	OOSIBE2	0.030	2
TTU145	OOSIBF2	0.035	2
TTU140	OOSIB15	0.025	10
TTU143	OOSIBE5	0.030	10
TTU146	OOSIBF5	0.035	10
TTU144	OOSIBE8	0.030	30
TTU147	OOSIBF8	0.035	30
TTU148	OOSIBH8	0.045	30
TTU141	OOSIB37	1/16	30



Order No.	MFG No.	Dia."	Spool Wt. lbs.
O3SIB - 36" CUT LENGTH			
TTU166	O3SIB30	1/16	10
TTU167	O3SIB50	3/32	10
TTU168	O3SIB60	1/8	10
TTU169	O3SIB70	5/32	10

DEOXIDIZED COPPER WELDING WIRE

- Recommended for welding applications where joints of high copper content are involved
- Harris® deoxidized copper contains phosphorus and silicon as de-oxidizing agents which promote sound weld joints
- This alloy produces trouble-free welds that are a good colour match to copper and have good electrical conductivity
- Can be used with inert gas arc and oxyacetylene welding
- Each container has an identification label showing grade, size, weight and heat number
- AWS A5.7, ErCu
- Conformance certifications can be furnished upon request

Order No.	MFG No.	Dia."	Spool Wt. lbs.
OODOC SPOOLED WIRE			
TTU138	OODOCF8	0.035	30
TTU139	OODOCH8	0.045	30
TTU137	OODOC38	1/16	30



Order No.	MFG No.	Dia."	Spool Wt. lbs.
O3DOC - 36" CUT LENGTH			
TTU161	O3DOC50	3/32	10
TTU162	O3DOC60	1/8	10
TTU163	O3DOC70	3/16	10



STICK ELECTRODES

CWB APPROVED STICK ELECTRODES

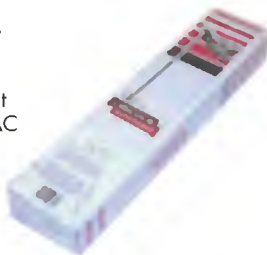
FLEETWELD® 35 - E6011

- Fill freeze, out-of-position mild steel stick electrodes
- A proven performer for sheet metal welding applications and AC pipe welding
- A great electrode to use on jobs where the steel isn't clean
- AC DC +/-
- **Sold per tube**

Order No.	MFG No.	Size"	Wt. kg
TTU006	ED511006	3/32	4 (8.8 lbs.)
TTU007	ED511007	1/8	5 (11 lbs.)
TTU008	ED511008	5/32	5 (11 lbs.)

FLEETWELD® 37 - E6013

- Fill freeze, high speed, mild stick electrodes
- An all-position electrode for low amperage welding on sheet metal, especially in applications where appearance is important
- Offers excellent performance with smaller AC welders having low open-circuit voltages
- Ideal for jobs involving irregular or short welds that require a change in positions
- AC DC +/-
- **Sold per tube**



Order No.	MFG No.	Size"	Wt. kg
TTU009	ED511213	3/32	4 (8.8 lbs.)
TTU010	ED511011	1/8	5 (11 lbs.)
TTU011	ED511012	5/32	5 (11 lbs.)

FLEETWELD® 47 - E7014

- Fill freeze, high speed, and mild stick electrodes
- Features high deposition rates for fast performance
- An easy-to-use, all-position electrodes
- Ideal for sheet metal lap joints and fillet welds, general purpose plate welding and maintenance jobs
- AC DC +/-
- **Sold per tube**

Order No.	MFG No.	Size"	Wt. kg
TTU012	ED511016	3/32	4 (8.8 lbs.)
TTU013	ED511017	1/8	5 (11 lbs.)
TTU014	ED511018	5/32	5 (11 lbs.)

JETWELD® LH-70 - E7018

- Low hydrogen, mild steel stick electrodes
- Ideal for welding on thick sections and restraining joints when cracking is an issue, as well as hard-to-weld steels
- Offers high deposition rates
- DC+ AC
- **Sold per tube**

Order No.	MFG No.	Size"	Wt. kg
TTU015	ED511041	3/32	4 (8.8 lbs.)
TTU016	ED511042	1/8	5 (11 lbs.)
TTU017	ED511043	5/32	5 (11 lbs.)

MILD STEEL STICK ELECTRODES

E6011

- A versatile, deep penetrating, all-position electrode for steel
- Offer excellent mechanical properties in the welding of mild steels, galvanized and some low alloy steels
- Coating produces a forceful, spray-type arc, resulting in deeply penetrating welds in all positions
- Slag is thin, friable and readily removable
- Operate on AC or DCEP
- **Sold per 5 lb tube**

Applications: Structural, ship building and repair, rail cars, piping, pressure vessel fittings, boilers, galvanized steel, and general fabrication

E6013

- A general purpose, all-position electrodes for mild steel
- Establishes a smooth, quiet, medium penetrating arc that is readily maintained with minimal spatter loss
- Slag lifts easily, revealing a finely rippled bead contour
- This quick-freezing slag gives optimum performance in vertical-down welding
- Ideally suited for general purpose welding, even with small AC power sources having low open-circuit voltage
- Operates on AC, DCEN or DCEP
- **Sold per 5 lb tube**

Applications: Various types of vehicles, ship building and repair, sheet metal, build-up of over-machined and worn mild steel surfaces, and general light fabrication

E7014

- An all position electrode for mild and low alloy steels
- Iron powder covering content yields a high deposition rate in all positions
- The welds reflect smooth beads with fine ripples
- Particularly advantageous when poor fit-up exists
- Slag is easily removed, often self-lifting
- Operates on AC, DCEN or DCEP
- **Sold per 5 lb tube**

Applications: Heavy sheet metal, frames, shelving, general maintenance and fabrication

E7018

- A high deposition electrode for low and medium carbon steels
- An efficient, all-position, iron powder, low hydrogen type electrode
- Exhibits excellent mechanical properties, crack resistant, and X-ray quality welds
- Offers quiet, stable, low penetration, spatter-free arc
- Moderately heavy slag is remarkably easy to remove, revealing a bead with distinct ripples
- Operates on AC or DCEP
- **Sold per 5 lb tube**



Applications: Ship hull construction, pressure vessels, boilers, piping, heavy-duty equipment, and general maintenance or product fabrication



Order No.	MFG No.	Size"	Wt. lbs.
E6011			
TTT542	6011505	3/32	5
TTT543	6011605	1/8	5
TTT544	6011705	5/32	5
E6013			
TTT545	6013505	3/32	5
TTT546	6013605	1/8	5
TTT547	6013705	5/32	5
E7014			
TTT548	7014505	3/32	5
TTT549	7014605	1/8	5
TTT550	7014705	5/32	5
E7018			
TTT551	7018505	3/32	5
TTT552	7018605	1/8	5
TTT553	7018705	5/32	5



MILD STEEL WELDING WIRE - 36" CUT LENGTHS

RG45

General purpose mild steel rod for tungsten inert gas or gas welding

- A general purpose rod used for welding low-carbon sheet, plate and pipe
- Widely used for automotive repair work and is ideal for ornamental art purposes
- AWS A5.2-80



RG60

Recommended for gas or TIG welding plate, sheet, pipe, castings, or structural shapes

- Produces welds of a higher tensile strength than RG45
- AWS A5.2-80

E70S2

This premium quality TIG rod gives welds of the highest quality, even on rust or dirty surfaces due to the deoxidizing agents in wire

- Can also be used for pipe, plate, and sheet applications where structural integrity is a primary consideration
- AWS A5.18-79



Order No.	MFG No.	Size"	Wt. lbs
RG45			
TTU264	W106030	1/16	50
TTU265	W106050	3/32	50
TTU266	W106060	1/8	50
TTU267	W106070	5/32	50
TTT554	W1060305POP	1/16	5
TTT555	W1060505POP	3/32	5
TTT556	W1060605POP	1/8	5
RG60			
TTU268	W120030	1/16	50
TTU269	W120050	3/32	50
TTU270	W120060	1/8	50
TTU271	W120070	5/32	50
TTU272	W120080	3/16	50
TTT557	W1200305POP	1/16	5
TTT558	W1200505POP	3/32	5
TTT559	W1200605POP	1/8	5
E70S2			
NP576	E70S230	1/16	10
TTU237	E70S250	3/32	10
TTU238	E70S260	1/8	10
TTU239	E70S270	5/32	10

LOW FUMING BRONZE 36" CUT LENGTHS

- Fuming qualities and good mechanical properties make low fuming bronze a widely used general purpose rod
- Provides higher mechanical properties than obtainable with naval bronze
- Used extensively for braze welding steel and cast iron
- Available either Bare or Flux Coated
- Melting point of 1620°F (882°C)
- RBCuZn-C



Order No.	MFG No.	Size"	Wt lbs.
BARE BRONZE			
TTU122	0001530	1/16	50
TTU253	0001550	3/32	50
TTU254	0001560	1/8	50
TTU123	0001570	5/32	50
TTU124	0001580	3/16	50
TTU125	0001590	1/4	50
FLUX COATED			
TTU154	015FC50	3/32	10
TTU155	015FC60	1/8	10
TTU156	015FC70	5/32	10
TTU157	015FC80	3/16	10
TTU158	015FC90	1/4	10

NICKEL SILVER 36" CUT LENGTHS

- Recommended for applications requiring higher mechanical properties and situations where good colour match is important
- This alloy is primarily intended for braze welding steel and cast iron
- Available either Bare or Flux Coated
- Melting point of 1680°F (916°C)
- RBCuZn-D



Order No.	MFG No.	Size"	Wt. lbs
BARE			
TTU133	0017030	1/16	50
TTU134	0017050	3/32	50
TTU135	0017060	1/8	50
FLUX COATED			
TTU205	0170FC60	1/8	10
TTU206	0170FC80	3/16	10



SUPER MISSILEWELD ELECTRODES

- The ultimate electrodes for welding steels with highest strength and maximum ductility (AC-DC)
- Assures dense, non-cracking welds on problem steels such as: high carbon, tool, spring, manganese, and dissimilar steels
- Tensile strength – up to 120,000 PSI
- Yield strength – up to 85,000 PSI
- Ductility – up to 35% elongation in 2"

Applications:

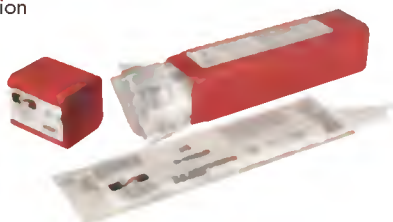
Particularly advantageous when the alloy content of the steel to be welded is unknown.



Order No.	MFG No.	Size"	Amperage	Wt. lbs
TTU149	00SMW50	3/32 x 9	40-80	5
TTU150	00SMW60	1/8 x 14	70-110	10
TTU151	00SMW70	5/32 x 14	95-145	10

WELCO 26 ALUMINUM ELECTRODES (DC-REVERSE)

- Features a precise combination of core wire and coating, providing high speed deposition of dense, machineable welds
- Tensile strength – up to 34,000 PSI
- Good colour match and corrosion resistance



Applications: Recommended for fabrication and repair of cast and wrought aluminum. Excellent for foundry defects, machining errors and all types of salvage work. Widely used on sheets, tubes and extrusions in thicknesses of 1/8" or more. Also well-suited to torch applications.



Order No.	MFG No.	Size"	Amperage	Wt. lbs
TTU127	0002650	3/32 x 14	50-85	5
TTU128	0002660	1/8 x 14	85-135	5
TTU129	0002670	5/32 x 14	110-165	5

CUT ROD METAL WORKING ELECTRODES (AC-DC)

- For cutting and piercing any metal
- Used with regular arc welding equipment, no air or oxygen required
- This special core wire has a heat resistant coating which is non-conductive, enabling user to operate electrode at higher amps
- Creates greater blasting action with faster cutting
- Economy is achieved by saving time, fuel, labour

Applications:

Cuts all metals and alloys, including stainless steel, cast iron, aluminum, copper, brass and bronze. Used for piercing holes, enlarging openings, trimming metals, removing frozen bolts, and removing gates and risers.

Order No.	MFG No.	Size"	Amperage	Wt. lbs
TTU234	CTROD60	1/8 x 14	170-300	25
TTU235	CTROD70	5/32 x 14	225-400	25
TTU236	CTROD80	3/16 x 14	250-450	25

NIC-L-WELD 99 NICKEL ALLOY ELECTRODES (AC-DC)

- A general purpose, high nickel electrode for production and repair of cast iron (AWS A5.15, ENiCl)
- Tensile strength - up to 50,000 PSI



Applications:

Ideal for building up, joining, filling holes, breaks and cracks in all types of cast iron. It has very-good out-of-position welding characteristics. Parts are frequently repaired without dismantling.

Order No.	MFG No.	Size"	Amperage	Wt. lbs
TTU259	NLW9950	3/32 x 12	30-70	10
TTU260	NLW9960	1/8 x 14	70-110	10
TTU261	NLW9970	5/32 x 14	90-130	10
TTU262	NLW9980	3/16 x 14	110-160	10

NIC-L-WELD 59 NICKEL-IRON ALLOY ELECTRODES (AC-DC)

- A general purpose, nickel-iron electrode for production, salvage and repair of all cast irons (AWS A15.15, ENiFeCl)
- Tensile strength – up to 70,000 PSI
- Suited to joining, filling and buildup of grey and alloyed cast irons

Applications:

Can be used for fabrication and repair of pump housings, valves, castings, cast and malleable fittings, and for general repair of all cast irons. Deposits are machineable and have high strength.



Order No.	MFG No.	Size"	Amperage	Wt. lbs
TTU256	NLW5950	3/32 x 12	50-80	10
TTU257	NLW5960	1/8 x 14	80-120	10
TTU258	NLW5970	5/32 x 14	110-140	10



STAY-SILV® BRAZING ALLOYS, PHOS/COPPER

Phos/copper and silver/phos/copper alloys are used to braze copper to copper, and copper to brass. The phosphorus content in these alloys makes them self-fluxing on copper. When brazing brass or copper to brass, use **Stay-Silv®** white brazing flux. These alloys are not recommended for brazing steel or other ferrous metals.

Harris 0 – Low-cost alloy for many copper-to-copper applications where good fit up can be maintained and brazing temperature is not critical

Stay-Silv 5 – Medium-range alloy; useful primarily where fit-up can not be tightly controlled. Somewhat more ductile than Harris 0.

Stay-Silv 6 – Medium range alloy; slightly more fluid than Stay-Silv® 5 and can be used where closer tolerances are available. Somewhat more ductile than Harris 0.

Dynaflow – Premium, medium-range silver alloy, formulated to even tighter specifications than the **Stay-Silv®** alloys to mirror the performance characteristics of the 15% silver brazing filler metals. Excellent for brazing both tight and poorly-fitted connections, **Dynaflow's®** proven reliability and acceptance by field service engineers has made it the leading choice of brazing operators.

Stay-Silv 15 – The industry standard for air conditioning/refrigeration applications.



Order No.	MFG No.	Description	Chemical Composition	Specifications	Solidus°	Liquidus°	Typical Application
848-1334	0620F1	Harris 0 0.050 x 1/8 x 28 Stick Tube	92.9% Cu 7.1% P	AWS A5.8 BCuP-2	1310 F 710 C	1475 F 802 C	Requires medium fit up
848-1125	5620F1	Stay-Silv® 5 0.050 x 1/8 x 28 Stick Tube	5% Ag 89% Cu, 6% P	AWS A5.8 BCuP-3	1190 F 643 C	1500 F 816 C	Used to bridge gaps where close fit-up can't be maintained
TTT584	6620F1	Stay-Silv® 6 0.050 x 1/8 x 28 Stick Tube	6% Ag 87.5% Cu, 6.5% P		1190 F 643 C	1455 F 791 C	Used to bridge gaps where more ductile filler metal is required
TTT586	D620F1	Dynaflow® 0.050 x 1/8 x 28 Stick Tube	6 % Ag 87.9% Cu, 6.1% P		1190 F 643 C	1465 F 796 C	Premium alloy Excellent strength and ductility
TTT585	15620F1	Stay-Silv® 15 0.050 x 1/8 x 28 Stick Tube	15% Ag 80% Cu, 5% P	AWS A5.8 BCuP-5 QQ-B-654A	1190 F 643 C	1480 F 846 C	Good ductility

BLOCKADE® BRAZING ALLOYS

- Silicon brazing alloys offer significant advantages over phos/copper and silver/phos/copper (BCuP) brazing alloys
- Outstanding ability to form a large shoulder or cap at the braze connection
- Distinct, favourable colour changes in the finished braze alloy
- Improved ductility over non-silver-bearing BCuP-2 braze alloys
- Easily brazes brass and brass alloys without the addition of silver
- Significantly reduces brazing temperatures compared to BCuP braze alloys
- Choice of bare or flux-coated rod, 2 mm x 20 stick tube



Order No.	MFG No.	Description	Chemical Composition	Specifications	Solidus	Liquidus	Typical Application
NP989	BK220R1	Blockade® Bare Rod	86.9% Cu 6.5% Sn	AWS A5.8	1187° F	1297° F	For copper or brass. Reduced brazing temperature, visible braze alloys, easy joint inspection.
NP990	BKFC2500R1	Blockade® Flux-Coated Rod	6.5% P 0.1% Si	BCuP-9	637° C	674° C	Excellent for HVAC applications



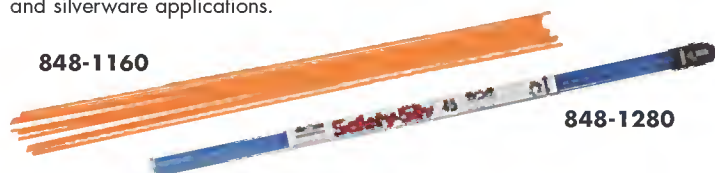
SAFETY SAFETY-SILV® BRAZING ALLOYS, HIGH SILVER



Cadmium-free, high silver brazing alloys are manufactured using only the purest base metals. Precision production procedures ensure consistency in product quality and performance.

Safety-Silv® 45 - Excellent general purpose non-toxic brazing alloy. Good ductility and capillary flow. Colour is silver to light yellow as in polished brass.

Safety-Silv® 56 - This high silver (56%) content alloy makes first quality brazes. Ductility is high, corrosion resistance suitable for all but strong chemical applications. Highest elongation of silver brazing alloys. Suitable for use in food processing industry. Silver colour is an excellent match for stainless steel and silverware applications.



Order No.	MFG No.	Description	Chemical Composition	Specifications	Solidus	Liquidus	Typical Application
SAFETY-SILV 45							
848-1235	4531	Safety-Silv® 45 1/16 x 1 t.o.	45% Ag	AWS A5.8	1225° F	1370° F	General purpose filler for steel and copper alloys. Melting range useful for wide clearances
848-1250	4533	Safety-Silv® 45 1/16 x 3 t.o.	30% Cu	BAg-5	663° C	743° C	
TTT587	4551	Safety-Silv® 45 3/32 x 1 t.o.	25% Zn				
848-1305	45K	Safety-Silv® 45 Kit					
848-1280	45F3184	Safety-Silv 45 Flux Coated 1/16 x 18 x 4 oz. tube					
SAFETY-SILV 56							
848-1135	5631	Safety-Silv 56 1/16 x 1 t.o.	56% Ag	AWS A5.8	1145° F	1205° F	For ferrous and non-ferrous alloys. Often used to broze stoinless steel for food service
TTT588	5651	Safety-Silv 56 3/32 x 1 t.o.	22% Cu	BAg-7	618° C	652° C	
848-1170	56K	Safety-Silv 56 Kit	17% Zn	NSF 51			
848-1160	56F3184	Safety-Silv 56 Flux Coated 1/16 x 18 x 4 oz. tube	5% Sn				
848-1165	56F5184	Safety-Silv 56 Flux Coated 3/32 x 18 x 4 oz. tube					

STAY-BRITE® SILVER SOLDERS

- Stay-Brite® and Stay-Brite® 8 silver bearing solders are often used instead of brazing alloys throughout the refrigeration/air conditioning industry
- Bond with most all ferrous and nonferrous alloys
- Joints exhibit considerably higher-than-necessary elongation for sound, dissimilar metal joints and vibration applications
- Stay-Brite® #8 is especially effective in filling loosely-fitted couplings



Order No.	MFG No.	Description	Chemical Composition	Specifications	Solidus	Liquidus	Typical Application
848-1065	SB61	Stay-Brite® 1/8 x 1 # Spool	4% Ag 96% Sn	ASTM B32 Sn 96	430°F 221°C	430°F 221°C	Use for all metals with the exception of aluminum. Low temperature solder used in HVAC joints
848-1055	SB31	Stay-Brite® 1/16 x 1 # Spool		NSF 51			
848-1090	SBSK	Stay-Brite® Kit with Flux		J-STD-006 Sn96Ag04A			
848-1075	SB861	Stay-Brite® # 8, 1/8 x 1 # Spool	6% Ag 94% Sn	NSF 51	430°F 221°C	535°F 279°C	Similar to Stay-Brite with a plastic range that is useful in bridging wider gaps
TTT589	SB831	Stay-Brite® # 8, 1/16 x 1 # Spool					



ALUMINUM ALLOYS

- **Alsolder 500** forms excellent corrosion-resistant joints on the tough-to-solder aluminum alloys
- Joins all solderable aluminum alloys to each other and dissimilar metals, both ferrous and non-ferrous
- Also beneficial as a high-temperature solder on most other metals
- **Al-Braze** is a superior brazing alloy for joining of aluminum to aluminum
- Not recommended for brazing aluminum directly to non-aluminum alloys, as the joints may be brittle
- Al-Braze is free flowing with unequaled capillary attraction, ductility and penetration
- Excellent corrosion resistance
- **ALCoR** aluminum alloy with non-corrosive flux inside the wire; no external flux required
- Very good fluidity with good capillary attraction
- Post-braze cleaning is unnecessary
- Better than tin-zinc and aluminum silicon alloys for aluminum coil repair



Order No.	MFG No.	Description	Chemical Composition	Specifications	Solidus	Liquidus	Typical Application
836-1070	500K	Alsolder 500 Aluminum Solder Kit	15% Zn 85% Sn		391°F 199°C	482°F 250°C	Forms excellent corrosion-resistant joints on tough-to-solder aluminum alloys. Useful for copper to aluminum connections
841-1138	1070K	Al-Braze 1070 Aluminum Brazing Kit	88% Al 12% Si	QQB-655 BAISi4 AWS A5.8 BAISi4	1070°F 577°C	1080°F 582°C	Superior brazing alloy for joining aluminum to aluminum. Excellent capillary attraction
TTT590	AL200RC	ALCoR Flux-Cored Aluminum Alloy	Zn Al		824°F 440°C	824°F 440°C	A low temp, free flowing, flux - cored solder for aluminum joining or repairing

LEAD FREE SOLDER

- **Bridgit®** is a non-toxic solder alloy that exceeds the physical advantages of lead-tin solders
- Contains nickel, making joints tremendously strong
- Wide plastic range makes this an excellent alloy for large diameter fittings and ill-fitted or non-concentric pipes
- Fills gaps and caps off easily and effectively



Order No.	MFG No.	Description	Specifications	Solidus	Liquidus	Typical Application
848-1035	BRTG61	Bridgit® 1/8 x 1 # Spool Lead Free Solder	ASTM B32 HB NSF 61 Conforms to 1986 U.S. Safe Drinking Act	460°F 238°C	630°F 332°C	Wide plastic range makes this an excellent alloy for large diameter fittings and ill-fitted or non-concentric pipes

COR-AL FLUX CORED ALUMINUM ALLOY

- Tubular aluminum rod with an extremely active flux formulation inside the tube
- Ratio of flux to the filler metal is precisely calibrated, assuring versatile performance
- By adjustment of the temperature of the torch flame, COR-AL can produce either thin flowing or bead forming characteristics
- Can be applied out-of-position with absolute control
- Tensile strength – up to 30,000 psi
- Solidus – 1055° F
- Liquidus – 1155° F
- Good colour match and corrosion resistance



Order No.	MFG No.	Description
TTU233	CORAL60	1/8" x 36", 3 lbs



FILLER METALS & FLUXES

COMMON WIRE SOLDERS

- With some exceptions, the tin/lead solders can be used to solder copper and most copper alloys, lead, nickel alloys and steel
- Heat sources include soldering guns, irons and torch applications
- **Acid Core:** For stainless steel application
- **Rosin Core:** For electrical application
- **Caution:** lead-bearing solders are not to be used in potable water systems (See *Bridgit®* lead-free solder information)
- **Tin/Antimony 95/5** is useful for applications where moderately elevated temperatures is a factor
- It has a high electrical conductivity and is recommended where lead contamination must be avoided; not recommended for use on brass



Order No.	MFG No.	Description	Specifications	Solidus	Liquidus
50/50 SOLDER (50% TIN, 50% LEAD)					
858-1080	505061	50/50 Solder - 1/8 x 1 # Spool	ASTM B32-86, Sn50	360°F	420°F
848-1095	50A51	50/50 Acid Core - 3/32 x 1 # Spool			
848-1100	50A61	50/50 Acid Core - 1/8 x 1 # Spool			
848-1105	50R31	50/50 Rosin Core - 1/16 x 1 # Spool			
848-1110	50R51	50/50 Rosin Core - 3/32 x 1 # Spool			
848-1115	50R61	50/50 Rosin Core - 1/8 x 1 # Spool			
40/60 SOLDER (40% TIN, 60% LEAD)					
848-1195	406061	40/60 Solder - 1/8 x 1 # Spool	ASTM B32-86, Sn40A	360°F	460°F
60/40 SOLDER (60% TIN, 40% LEAD)					
858-1110	604061	60/40 Solder - 1/8 x 1 # Spool	ASTM B32-86, Sn60	360°F	375°F
95/5 SOLDER (95% TIN, 5% ANTIMONY)					
NT240	95531	95/5 Solder - 1/16 x 1 # Spool	ASTMB32-86, Sb5	452°F	464°F
TTT591	95551	95/5 Solder - 3/32 x 1 # Spool			
858-1140	95561	95/5 Solder - 1/8 x 1 # Spool			

STAY-CLEAN® SOLDERING FLUX (LIQUID)

- For virtually all metals other than aluminum, magnesium or titanium
- Use with **Stay-Brite** solders or practically any other solder with a liquidus below 700°F
- Not recommended for electrical or electronic applications
- Meets Commercial Spec A-A-51145C, Form B



Order No.	MFG No.	Size
841-1080	SCLF4	4 oz.
841-1065	SCLF16	16 oz.
841-1070	SCLF1G	1 gal.

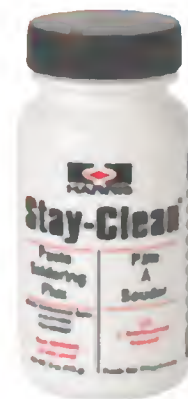


STAY-CLEAN® SOLDERING FLUX (PASTE)

- Excellent flux for joining copper to copper, and copper to brass
- Not recommended for electrical or electronic applications
- Effective to 700°F
- Meets Commercial Spec A-A-51145C, Form A



Order No.	MFG No.	Size
NT228	SCPF4	4 oz.
NT227	SCPF1	1 lb.





STAY-SILV® BRAZING FLUX (WHITE)

- For use with silver brazing alloys on all metal other than aluminum, magnesium or titanium
- Effective to 1600°F
- Meets Fed Spec. OF499, Type B; AWS FB3A, AMS 3410



Order No.	MFG No.	Size
841-1115	SSWF1/4	1/4 lb.
841-1110	SSWF1/2	1/2 lb.
841-1105	SSWF1	1 lb.



STAY-CLEAN® ALUMINUM FLUX

- Use with Stay-Brite® solders or Alsolder 500 to join aluminum to aluminum and most other metals
- Effective to 500°F



Order No.	MFG No.	Size
841-1060	SCAF4	4 oz.



STAY-SILV® HIGH TEMPERATURE BRAZING FLUX (BLACK)

- Use with silver or other brazing alloys liquidus below 1800°F
- Recommended for stainless, heavy parts and whenever heating cycle is prolonged
- For all metals other than aluminum, magnesium or titanium
- Meets AMS 3411, AWS 5.31, Class FB3C; Fed. Spec. O-F-499D, Type B



Order No.	MFG No.	Size
841-1100	SSBF1/2	1/2 lb.
841-1095	SSBF1	1 lb.



BRIDGIT® PASTE FLUX

- Stays active to 800°F
- Will not burn at soldering temperatures, reducing black carbon formations that can result in voids and leaks
- This flux works extremely well with Bridgit® lead-free solder in potable water systems
- This flux should work equally well with other solders
- Designed primarily for copper tube applications



Order No.	MFG No.	Size
TTT593	BRPF4	4 oz.
841-1045	BRPF1	1 lb.



600 POWDER FLUX

- General purpose brazing flux
- Use with low fuming bronze and nickel bronze brazing alloys
- Highly active powder flux has applications in brazing steel, cast irons and copper-base alloys
- Active in a heat range between 1400° and 2200°F



Order No.	MFG No.	Size
841-1030	600FX01	1 lb.



AL-BRAZE® ALUMINUM BRAZING FLUX

- Al-Braze® powdered flux is recommended to use with 4047 (formerly 718) brazing alloy, and other aluminum brazing alloys
- May be mixed with water or alcohol to form a paste
- Meets specs AMS 3412, AWS Type FB1A



Order No.	MFG No.	Size
841-1137	1070 1/2	8 oz.





800 FLUX - CAST IRON

- A powder flux for welding cast iron
- Use with any commercial cast iron torch welding alloy
- Specially prepared to produce better results on "problem" cast iron
- Wide active heat range of 1400° to 2200°F eliminates the necessity of several different fluxes



Order No.	MFG No.	Size
841-1035	800FX01	8 oz.

SOLAR FLUX®

- Formulated to shield the back of the weld joint from oxygen, dissipate heat and unwanted oxides and to clean the surface of metal
- Will aid in the flow of filler metal over base metal and form a protective barrier to prevent re-oxidization and heat scale
- To be mixed with alcohol (methanol/methyl alcohol preferred) and brushed on the back of the weld joint
- Inert, non-flammable and non-explosive
- **Type B** for welding stainless steel and alloy steels
- **Type I** for welding high nickel super alloys



Order No.	MFG No.	Description	Size
868-1000	SFB-1	Type B	1 lb.
TTT435	SFI-1	Type I	1 lb.

ACID/FLUX BRUSHES

- Perfect brushes for applying liquid or paste fluxes



Order No.	MFG No.	Width"	Trim Length"	Length Overall"
BY189	74059	1/4	11/16	6
BY190	74060	3/8	7/8	6 1/8
BY191	74061	7/16	7/8	6 1/8
BY192	74062	9/16	7/8	6 1/8

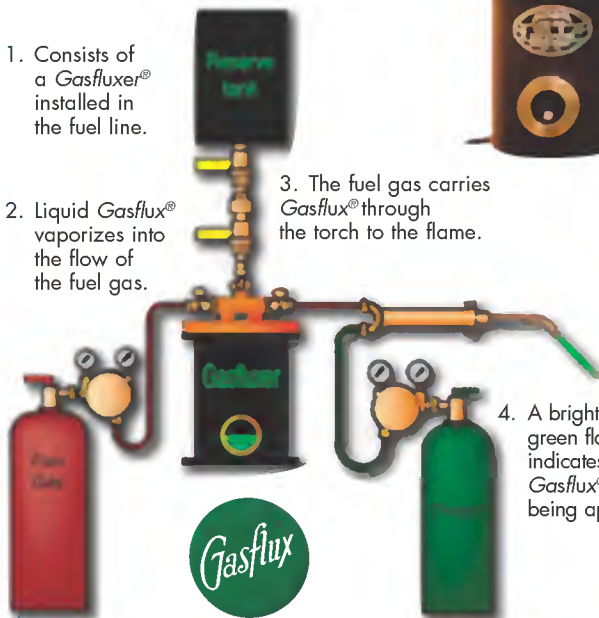
GASFLUXER®

- The process uses a Gasfluxer® for mixing liquid Gasflux® with the fuel gas
- Gasfluxer® consists of a mixing chamber and a reserve tank for flux storage
- Can be easily added to any existing manual brazing installation and does not require special torches, tips or unusual connections
- Consists of a valve adjustment to regulate the amount of Gasflux® introduced into the flame

Fuel gas:	All types
Number of torches:	1 - 2
Working capacity:	60 CFH
Maximum fuel gas pressure:	15 PSIG
Reserve tank capacity:	1 gallon



1. Consists of a Gasfluxer® installed in the fuel line.
2. Liquid Gasflux® vaporizes into the flow of the fuel gas.
3. The fuel gas carries Gasflux® through the torch to the flame.
4. A bright green flame indicates that Gasflux® is being applied.



Order No.	MFG No.	Capacity
870-1076	69	1 Gallon

LIQUID GASFLUX®, TYPE "W"

- Liquid Gasflux® consists of a specially compounded liquid-type flux that is automatically introduced into the fuel gas
- Gasflux® is manufactured under rigid test requirements to guarantee its highest quality and performance
- Liquid Gasflux® is recommended for both manual and automatic brazing applications and works with all fuel gases
- Type "W" liquid Gasflux® is the standard liquid flux for most all silver and bronze brazing
- Suitable with almost all applications for the brazing of copper, brass, steel, stainlesssteel, cast iron and carbide
- Conforms to AWS/ANSI A5.31, American Welding Society "Specification for Brazing Fluxes" and falls under flux type FB3-K

Order No.	MFG No.	Size
870-1092	GF-1	1-Gallon Can
870-1096	GF-5	5-Gallon Pail
870-1100	GF-55	53-Gallon Drum





SAFE-DE-SPAT

ANTI-SPATTER & NOZZLE SHIELD

- Prevents weld spatter from adhering to MIG nozzles, contact tips and related accessories as well as weld spatter build-up on metals to be joined
- Non-flammable, non-toxic, biodegradable and silicone free
- Non-solvent based
- Paint compatible
- Designed to provide a safe welding environment

DYNAFLUX, INC.

Order No.	MFG No.	Size
876-1005	DF390-16	16-oz. Net Wt. Aerosol
876-1000	DF390-4x1	1 Gallon
876-1020	DF390-5	5-Gallon Pail
876-1025	DF390-55	55-Gallon Drum



ANTI-SPATTER

SOLVENT BASE

- Provides protection to MIG gun nozzles, contact tips, accessories and all weld zones during single and multi-pass welding
- Provides weld prep protection on parts to be stored
- Requires little cleaning prior to painting
- Liquid may be applied by brush or roller
- Silicone free

DYNAFLUX, INC.

Order No.	MFG No.	Size
TTT417	DF200-16	16-oz. Net Wt. Aerosol
876-1030	DF200-4x1	1 Gallon
TTT418	DF200-5	5-Gallon Pail
TTT419	DF200-55	55-Gallon Drum



NOZZLE GEL

- For MIG gun nozzles and contact tips
- Suitable for use on fixtures of semi-automatic and automatic welding equipment
- Non toxic, odourless
- Not flammable, silicone free

DYNAFLUX, INC.

Order No.	MFG No.	Size
720-1071	DF731-16	16-fl. oz. Jar



MIG WIRE CLEANING PADS

- Designed for use on all MIG wire feeders
- Removes dust and dirt from the wire prior to wire entry into the liner conduit
- Use of wire feed pads can decrease the coefficient of friction in the liner as much as 50%-60% and reduce erratic feed and burn backs
- Treated pads can be used on all alloyed wires except aluminum
- **Sold per package**



Order No.	Qty /Pkg.
720-1000-KIT	6
720-1010-KIT	24



ULTRA BRIGHT ALUMINUM CLEANER

- Ready-to-use cleaner and brightener
- Provides rapid and effortless cleaning and removal of aluminum oxides, grease and dirt from aluminum before welding
- Rinse agents provide a "sheeting" action for film-free rinsing
- Heavy accumulations may require some light brushing
- Biodegradable



DYNAFLUX, INC.

Order No.	MFG No.	Size
NP597	DF781-12x1	1 Quart
NP596	DF781-4x1	1 Gallon
877-1190	DF781-55	55-Gallon Drum

ULTRA BLUE LAYOUT FLUID

- A firm gripping, oil resistant blue pigmented layout fluid
- Designed for use on all types of metal surfaces, plastics and glass
- Dries instantly to a non-glaze smooth finish
- Provides fine lines for detail and high precision
- Contains no acids and is non-corrosive, flammable

DYNAFLUX, INC.

Order No.	MFG No.	Size
881-1100	DF304-16	11.5-oz. Net Wt. Aerosol





GAS LEAK DETECTOR

- Provides an easy and efficient method of leak detection
- Safe for all gases and oxygen
- Non-flammable and non-corrosive
- Forms a readily visible and stable foam that insures reliable detection
- Functional at any temperature above 15°



STAINLESS HEAT TINT REMOVER

- Effective in the removal of heat tint and metal discoloration caused by temperatures within the weld zone on stainless steel, especially after TIG welding
- Contains hydrofluoric acid
- Non-flammable



DYNAFLUX, INC.

Order No.	MFG No.	Size
881-1330	DF800-12x4	4-fl. oz. Squeeze Bottle
881-1335	DF800-4x1	1 Gallon
881-1040	DF800-5	5-Gallon Pail
881-1045	DF800-55	55-Gallon Drum

DYNAFLUX, INC.

Order No.	MFG No.	Size
879-1480	DF790-06	550-g Squeeze Bottle

HTR-121 HEAT TINT REMOVAL SYSTEM

- Quickly and economically removes heat tint and discoloration from welded heat effected zones
- Eliminates grinding, sanding, buffing and polishing
- Stainless steel exterior housing and is portable
- 115 vac
- Available with either a spoon applicator or a roller application



DYNAFLUX, INC.

Order No.	MFG No.	Description
879-1475	HTR121S	Machine w/Spoon Applicator
879-1400	HTR121R	Machine w/Roller Application

HTR-120 SOLUTION

- For use with the HTR-121 heat tint removal system



DYNAFLUX, INC.

Order No.	MFG No.	Size
879-1440	HTR120-06	16-fl. oz. Bottle
879-1460	HTR120-4x1	1 Gallon

DEFENSE ANTI-FREEZE & PUMP LUBRICANT

- Provides year round pump protection for water coolers and closed loop water systems
- Contains a lubricant additive providing continuous pump lubrication during operation
- Prolongs seal and shaft life because of its silicate free formula
- Protects from freezing to -30°F when undiluted (a dilution of two parts Defense to one part water protects to 10°F)

Note: Although Defense is a permanent anti-freeze and pump lubrication solution, it should be changed annually to maintain maximum anti-freeze protection and pump lubrication.

Order No.	MFG No.	Size
881-1355	DF927-PM	1 Gallon, Pre-Mixed
881-1350	DF929-4x1	1 Gallon
881-1365	DF929-5	5-Gallon Pail
881-1370	DF929-55	55-Gallon Drum

DYNAFLUX, INC.



881-1355

881-1350

19952E



NDT SPRAYS

VISIBLE DYE PENETRANT SYSTEM

- The visible liquid dye penetrant testing is a three-step process of detecting faults in welds, castings, exotic alloys and standard materials
- Faults could be cracks, pin holes or welding laps on the metal surface
- These non-destructive testing products are available in standard and nuclear grades
- Kit contains: 2 cans of standard grade cleaner, 1 can of standard grade developer and 1 can of standard/nuclear water washable penetrant

Order No.	MFG No.	Grade	Size
CLEANER			
878-1065	CNF315-16	Standard	16-oz. Net Wt. Aerosol
878-1080	CNF315-4x1	Standard	1 Gallon
NP598	CF315-16	Nuclear	16-oz. Net Wt. Aerosol
878-1040	CF315-4x1	Nuclear	1 Gallon
DEVELOPER			
878-1410	DNF315-16	Standard	16-oz. Net Wt. Aerosol
878-1055	DNF315-4x1	Standard	1 Gallon
NP599	DF315-16	Nuclear	16-oz. Net Wt. Aerosol
878-1025	DF315-4x1	Nuclear	1 Gallon
PENETRANT			
NP600*	PWW315-16	Standard/Nuclear	16-oz. Net Wt. Aerosol
878-1495*	PWW315-4x1	Standard/Nuclear	1 Gallon
878-1490	PHF315-16	Standard/Nuclear	16-oz. Net Wt. Aerosol
878-1010	PHF315-4x1	Standard/Nuclear	1 Gallon
KIT			
878-1170	DF315-KIT-S	Standard	16-oz. Net Wt. Aerosol

* Water washable

DYNAFLUX, INC.



878-1170

SPRAY GALV/COLD GALV

ZINC GALVANIZING COATING

- Produces hard zinc coating that will stop rust and corrosion on all metal surfaces
- Compounded from 95.1% metallic zinc dust
- Equal to hot dip galvanizing in cathodic protection and film durability
- Meets or exceeds military specs



Order No.	MFG No.	Description	Size
877-1125	DF306-16	Spray Galv	16-oz. Net Wt. Aerosol
877-1130	DF306-6x1	Cold Galv	1 Quart
877-1120	DF306-2x1	Cold Galv	1 Gallon



877-1125

SOLAR FLUX®

- Formulated to shield the back of the weld joint from oxygen, dissipate heat and unwanted oxides, and to clean the surface of metal
- Will aid in the flow of filler metal over base metal and form a protective barrier to prevent re-oxidization and heat scale
- To be mixed with alcohol (methanol/methyl alcohol preferred) and brushed on the back of the weld joint
- Inert, non-flammable and non-explosive
- **Type B** for welding stainless steel and alloy steels
- **Type I** for welding high nickel super alloys

Order No.	MFG No.	Description	Size
868-1000	SFB-1	Type B	1 lb.
TTT435	SFI-1	Type I	1 lb.



SOLAR FLUX®



MAGNAFLUX®

SPOTCHECK® PENETRANTS

- Red visible non-destructive test method which provides for the detection of surface discontinuities (flaws) in ferrous and non-ferrous test materials
- Ideal for applications where portability is required
- Vivid red colour permits daylight inspection

SKL-SP 1

- Exhibits outstanding penetrating characteristics, which provide for maximum reliability in locating surface-open flaws and discontinuities
- Can be used over the entire spectrum of industrial applications, where a visible penetrant inspection system meets the requirements for surface-open flaw detection
- Has also been successfully used on non-porous ceramics and similar materials
- Not recommended for the inspection of plastic materials, as it may stain, soften or even dissolve the base material under test
- May be applied by aerosol, dipping, flowing, brushing, conventional or electrostatic spray
- Should be used at temperatures between 40°F-125°F

Order No.	MFG No.	Size
NP701	01-5150-78	16-oz. Aerosol
TTT420	01-5150-35	1 Gallon
TTT421	01-5150-40	5-Gallon Pail
TTT422	01-5150-45	55-Gallon Drum

SKL-WP 1

WATER WASHABLE PENETRANT

- General purpose

Order No.	MFG No.	Size
387-5000	01-5185-78	16-oz. Aerosol
TTT424	01-5185-35	1 Gallon
TTT425	01-5185-40	5-Gallon Pail
TTT426	01-5185-45	55-Gallon Drum

SKL-4C

WATER BASED PENETRANT

- Used as a leak detector and for inspection of plastics
- Red in daylight, fluorescent orange in UV light
- Liquid oxygen compatible
- For non-certified applications

Order No.	MFG No.	Size
TTT427	01-5125-40	5-Gallon Pail
TTT428	01-5125-45	55-Gallon Drum



SKC-S

SOLVENT CLEANER

- Non-chlorinated cleaner/remover
- Used as a precleaner, a post cleaner and a penetrant remover
- Recommended general purpose
- Meets major requirements for special alloy and nuclear applications

Order No.	MFG No.	Size
NP703	01-5750-78	16-oz. Aerosol
TTT429	01-5750-35	1 Gallon
TTT430	01-5750-40	5-Gallon Pail
TTT431	01-5750-45	55-Gallon Drum

SKD-S2

SOLVENT DEVELOPER

- Ready-to-use suspension of white developing particles in a fast drying solvent
- Non-chlorinated solvent developer
- Meets major requirements for special alloy and nuclear applications

Order No.	MFG No.	Size
NP702	01-5352-78	16-oz. Aerosol
TTT432	01-5352-35	1 Gallon
TTT433	01-5352-40	5-Gallon Pail
TTT434	01-5352-45	55-Gallon Drum

ARDROX®

9D1B

Non-Aqueous Developer

- Liquid product consisting of a finely divided white powder dispersed in a non-halogenated volatile solvent system
- Can be used with Type I (fluorescent) and Type II (visible) penetrants

906

Water Washable Visible Penetrant

- Visible penetrants are not rated by sensitivity but are generally considered to be equivalent to Level 1
- Provides low cost, crisp indications, low residual background and temperature stability
- Ardrex® 906 is used with non-aqueous developers or aqueous developers
- May be applied by aerosol, brushing, tank immersion, conventional, electrostatic or spraying

9PR50

Cleaner/Remover

- Quick drying, non-halogenated (non-chlorinated) solvent for removing oil, grease and similar soils from metal surfaces
- Provides a high level of cleaning efficiency with operational safety
- Corrosion safe for use on both ferrous and non-ferrous alloys
- Excellent penetrant remover

Order No.	MFG No.	Size
9D1B NON-AQUEOUS DEVELOPER		
874-1150	9D1B-16	16 oz.
875-1040	9D1B-4	4 L
906 PENETRANT		
874-1080	906-16	16 oz.
875-1060	906-4	4 L
9PR50 CLEANER/REMOVER		
874-1180	9PR50-16	16 oz.
875-1030	9PR50-4	4 L





HI-TACK 76 ADHESIVE

The strongest one-surface application adhesive available. Excellent when high strength or high temperature resistance is needed 1" to 3" adjustable spray width; controlled lace spray pattern. Non misting precise spray control; sprays right where you want it - up to the edge, not over. Strong, permanent bond.

- Bonds fabric, paper, cork, foil, rubber, etc
- Bonds to themselves and to metal, wood, glass and other surfaces
- Temperature resistance: 160°F
- Coverage: 100 Sq. ft.
- 12 per case

Order No.	MFG No.	Size
PA002	76	24 oz.

3M



SUPER 77 SPRAY ADHESIVE

An aggressive high tack, high coverage, fast drying, transparent adhesive. Excellent spray control, uniform high initial "grab" with sufficient open time to allow for positioning materials. Two actuators: one for standard (round) spray pattern, a second for wide (fan) spray pattern (particle spray pattern for both).

- Ideal for permanently attaching cartons, foams, paper, foils, cardboard, carpeting, cloth fabric
- Other lightweight materials to painted or unpainted metals, wood, cardboard and themselves
- Temperature resistance: 110°F
- Coverage: 163 Sq. ft.
- 12 per case

Order No.	MFG No.	Size
PA003	77	24 oz.

3M



90 HIGH STRENGTH ADHESIVE

A high strength, fast contact-type adhesive 1" to 3" adjustable spray width; controlled lace spray pattern. Let's you spray adhesive where you want it to eliminate adhesive clean up. Strong, permanent bond.

- Adheres particle board, polyethylene, polypropylene and rubber to wood metal and many other materials
- Fast contact strength, yet needs only 1 to 2 minutes of drying time
- Temperature resistance: 160°F
- Coverage: 100 Sq. ft.
- Colour: Transparent
- 12 per case

Order No.	MFG No.	Size
PA001	90	24 oz.

3M



COMPOUND 302

STAINLESS STEEL CLEANER

- An innovative chemical formulation of pastel-like consistency containing deoxidizing and surface active agents in addition to fine compounding materials
- Effectively removes heat-discoloration, weld-burn (including blueing) and rust from all grades of stainless steel
- Also works great to clean and deoxidize copper, brass and bronze



Order No.	MFG No.	Size
TTT416	302	1 Quart

DEOXALUMINITE

WELD-THROUGH PRIMER

- Aluminum based organic welding paint primer suitable for use in priming metal prior to welding, and protecting the metal of the weld area from corrosion before and after welding without affecting the welding procedure
- Aluminum based, contains no zinc
- Need not be removed before or after welding
- Reduces rust and corrosion
- Insures fine-grained welds
- Reduces porosity



Order No.	MFG No.	Size
720-2000	DX-1	1 Gallon
720-2010	DX-5	5 Gallons

WELD-O

- Weld-O is a ready-to-use X-ray quality welding prep for aluminum and all grades of aluminum alloys
- An innovative chemical formulation that consists of a blend of mineral acids, surface active and sequestering agents and degreasers
- Deoxidizes the surface instantly and conditions the surface for X-ray quality welding
- The weld joint is cleaner and stronger
- Eliminates the need for wire brushing and other time consuming cleanup procedures



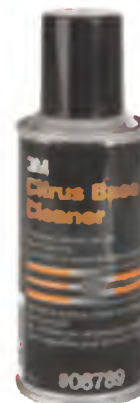
Order No.	MFG No.	Size
866-1050	Weld-O-Q	1 Quart
TTT436	Weld-O-05	5-Gallon Pail

CITRUS BASE CLEANER

- Heavy-duty degreaser/cleaner
- Safe on metals, ceramic, glass, porcelain and many plastics
- Removes grease, oil, ink and most adhesives
- No harmful solvents
- Cleans without streaking
- Non-aerosol pump
- 12 per case

3M

Order No.	MFG No.	Size
AA528	CITRUS-5oz.	5 oz.
QN488	CITRUS-24oz.	24 oz.





NOZZLE-KLEEN®

The accumulation of spatter on nozzles and tips can lead to poor gas coverage, resulting in poor welds. Preventing spatter build-up will increase weld quality and reduce costly downtime. Maintain a clean nozzle. Eliminate build-up with a spray, dip or gel.



388-1145



388-1138



388-1150

NOZZLE-KLEEN #2®

- Highest quality for most applications
- Non-flammable and paintable
- No fluorocarbons

NOZZLE-KLEEN® HEAVY-DUTY

- Used for highest temperature applications including pulsed welding and argon rich mixtures
- Outstanding fixture protection
- Excellent for stainless steel
- Non-flammable, paintable no fluorocarbons and ozone friendly

HEAVY-DUTY NOZZLE-DIP® GEL

- Excellent cooling properties for longer tip and nozzle life
- Can dip hot or cold, gel will not migrate into liner
- Non flashing, biodegradable, paintable and non-toxic

Order No.	MFG No.	Description	Size
388-1150	007022	Nozzle-Kleen® #2	16-oz. Aerosol
388-1145	007020	Nozzle-Kleen® H-D	16-oz. Aerosol
388-1138	007094	H-D Nozzle-Dip® Gel	1 Quart
388-1140	007095	H-D Nozzle-Dip® Gel	1 Gallon

WELD-KLEEN® ANTI-SPATTER

- Base metal and fixture applications become easier to clean and remove unwanted weld spatter
- Regular use of these products reduces the need for grinding and other clean-up tasks
- Cuts costs by reducing downtime

WELD-KLEEN® 350®

- Effective water-based product designed for use on most base metal applications
- Economical and safe
- Biodegradable, non-toxic and paintable
- Can be frozen
- Available in a safe and convenient aerosol powered by air

WELD-KLEEN® HEAVY-DUTY

- A convenient solvent based, quick-drying aerosol that allows for pre-heat, higher duty cycles and higher temperature applications
- Excellent for fixture and tooling protection
- Paintable, non-flammable, no fluorocarbons

WELD-KLEEN® 350® SPRAYER

- Hand sprayer with 36" lead tube for gallon container



388-1165



388-1170



388-1175



Order No.	MFG No.	Description	Size
TTT437	007088	Weld-Kleen® 350®	13.64-oz. Aerosol
388-1170	007089	Weld-Kleen® 350®	1 Quart
388-1175	007090	Weld-Kleen® 350®	1 Gallon
388-1185	007091	Weld-Kleen® 350®	5 Gallons
388-1180	007092	Weld-Kleen® 350®	55-Gallon Drum
388-1165	007030	Weld-Kleen® H-D	20-oz. Aerosol
388-1155	007093	Sprayer for Weld-Kleen® 350®	-



LUBE-MATIC®

- Engineered to clean and lubricate wire, improve feedability, reduce spatter and increase tip and liner life
- Lube-Matic® pads and liquid help keep liners free of unwanted build-up and deposits inside the liner that cause wire drag
- Reduces wire drag by 60% and feeds wire more smoothly with poor cast, helix and rust
- Best when used together, as a system to clean and feed wire

LUBE-MATIC® LIQUID

- Helps feed all mild steel, fabricated, and core wires
- Cuts rust and reduces wire drag 60%
- Great for longer distance feed (over 10')

LUBE-MATIC® LUBE PADS

- Black lube pads are pre-treated with Lube-Matic® liquid
- Lubrication allows smooth feeding of wires with poor cast, helix, rust and long feed liners



LUBE-MATIC® WIRE KLEENER® PADS

- Red Kleener® pads are for all wires all the time
- Last chance to clean wire and reduce burn back 50%

Order No.	MFG No.	Description	Size
388-1015	007040	Lube-Matic® Liquid	5 oz.
388-1010	007060	Lube-Matic® Lube Pads	6/Pkg.
388-1190	007061	Lube-Matic® Wire Kleener® Pads	6/Pkg.

3939 TARTAN™ SILVER DUCT TAPE



- Ideal for everyday sealing, holding, water-proofing, tabbing and mending
- 2" x 180', 48 mm x 55 m
- Silver/grey
- 24 rolls per case

Order No. PC419

MFG No. 3939



3M MULTI-PURPOSE DUCT TAPE



- Ideal for many duct and moisture sealing, holding, protecting and bundling applications
- Polyethylene coated cloth backing
- Rubber adhesive, high tack, easy tear
- 2" x 150' (48 mm x 45.7 m)
- 6-mil thick
- Colour: Silver
- 24 rolls per case

Order No. PE464

MFG No. MPD



SLIC-TITE® PTFE THREAD TAPE

HIGH-DENSITY - PREMIUM GRADE

- Provides a highly resistant seal on pipe threads for all types of service
- Suitable for use with solvents, chemicals, oxygen and on food lines
- Permits easy disassembly, even after years of service
- Non-toxic
- Thickness: 3 mils
- Sealing temperature: -450°F to 550°F
- Pressures: to 2,000 PSI (136 Bar)
- Meets Military Spec T-27730A
- 12 per case



Markal®

High Performance Industrial Markers

Order No.	MFG No.	Size"
TTT439	44080	1/4 x 300
434-5020	44081	1/4 x 600
434-5030	44082	1/2 x 300
434-5050	44083	1/2 x 600
434-5070	44084	1/2 x 1200
TTT440	44085	3/4 x 300
434-5090	44086	3/4 x 600
TTT441	44087	1 x 300
434-5110	44088	1 x 600

COOL GEL® HEAT BARRIER SPRAY

- Helps protect rubber, plastic, distortion, painted and finished surfaces during soldering, brazing or welding
- Unique gelled formula sticks to surfaces without dripping or running off
- Clear, non-staining gel leaves no residue eliminating clean-up
- Safe, non-toxic, harmless to skin and odourless
- Reduces danger of fire to surrounding surfaces
- Convenient trigger spray



Markal®

High Performance Industrial Markers

Order No.	MFG No.	Size	Qty/Case
TTT438	11513	16 oz.	24
BC899	11509	32 oz.	12



B PAINTSTIK®

THE ORIGINAL ALL PURPOSE
COLD SURFACE MARKER

- Real paint in stick form
- Ideal for long-lasting, weather, fade and abrasion resistant identification
- Leaves bright, highly visible marks on all materials, including asphalt, aluminum, glass, plastic, marble, lumber and steel
- Writes on rough, smooth, oily, wet, dry, icy and rusty surfaces
- Standard 11/16" tip
- Marking range: -50° to 150°F
- 12 dozen per case



Markal®
High Performance Industrial Markers

Order No.	MFG No.	Colour
PA298	80220	White
PA309	80221	Yellow
NE265	80222	Red
PA320	80223	Black
PA300	80224	Orange
PA348	80225	Blue
NE264	80226	Green
434-1110	80227	Pink
434-1120	80228	Purple
PA353	80230	Grey
434-1020	80232	Aluminum

BL PAINTSTIK®

BLEEDS THROUGH
SOLVENT-BASED PAINTS

- Marks bleed through solvent-based or oil-based paints
- For fabricating structural steel or layout work where the marks are required to bleed through a primer coat covering the marks
- To prevent bleeding through the finish coat, seal the marked areas with water-based epoxy paint
- 11/16" tip
- Marking range: -50° to 150°F
- 12 dozen per case



Markal®
High Performance Industrial Markers

Order No.	MFG No.	Colour
PA356	80725	Blue

Markal®
High Performance Industrial Markers

BALL PAINT MARKERS

- Long lasting, weather and water resistant
- Fine line marks with real paint that dries in minutes
- Writes like a pencil on metal, wood, plastics, rubber – any surface or material
- Packaged in unbreakable 2-oz. plastic bottles with cap to prevent drying or leaking
- Marking range: -50° to 150°F
- 4 dozen per case



Markal®
High Performance Industrial Markers

Order No.	MFG No.	Colour
PA339	84620	White
PA340	84621	Yellow
PA341	84622	Red
PA342	84623	Black
PA343	84624	Orange
PA344	84625	Blue
PA345	84626	Green

TRADES MARKER® ALL PURPOSE MARKER

RETRACTABLE GREASE PENCIL
SUITABLE FOR ALL SURFACES

- Retractable grease pencil offers more convenience and longevity than a standard china marker
- Marks on plastic, glass metal, wood, cardboard and paper
- Will not rub off and are weather-resistant
- Includes handy pocket clip
- Holder comes with 5 assorted colour refills
- Refills come 6 per package
- 2 dozen per case



Markal®
High Performance Industrial Markers

Order No.	MFG No.	Colour
HOLDER W/5 REFILLS		
434-8980	96000	-
REFILLS, 6/PKG.		
434-9915	96009	Orange
434-8985	96042	White
434-9910	96043	Yellow
434-8995	96044	Black
434-9920	96045	Red

VALVE ACTION® PAINT MARKERS

- A fast drying, lead free paint marker
- Ideal for all surfaces
- Weather and fade resistant
- Replaceable fibre tip ensures full use of the marker
- Durable, 1/8" thick nib permits fineline marking or bold, thick marks visible from long distances
- Marking range -50° to 150°F
- 4 dozen per case



Markal®
High Performance Industrial Markers

Order No.	MFG No.	Colour
PA418	96820	White
PA419	96821	Yellow
PA420	96822	Red
PA431	96823	Black
PB904	96824	Orange
PA421	96825	Blue
PA422	96826	Green
PA423	96832	Aluminum
Order No.	MFG No.	Description
PA424	96867	Replacement tips (12/pkg.)

SILVER-STREAK® METAL MARKER

FOR METAL LAYOUT AND FABRICATION

- Ideal for metal layout and fabrication work
- Marks on all types of metal surfaces
- Will not rub off like soapstone
- Resistant to torch flames
- Available in two sizes – flat and round
- Includes handy pocket clip holder and one refill
- Round holder features a built-in sharpener



434-8945

434-8940

Markal®
High Performance Industrial Markers

Order No.	MFG No.	Description	Qty/Pkg.
HOLDER			
BC900	96004	Flat	-
BC901	96006	Round	-
REFILLS			
BC902	96018	Flat	25
280-1060	96002	Flat	100
BC904	96007	Round	6



THERMOMELT® HEAT STIK TEMPERATURE INDICATORS

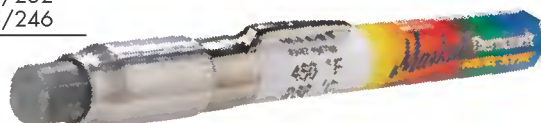
ACCURATE SURFACE TEMPERATURE MEASUREMENT STICKS

- Industry's longest lasting stick
- 33% bigger and stronger than competitive brands
- Accurate, fast, low-cost method for measuring surface temperatures
- When desired temperature is reached, the mark quickly melts to a glossy, transparent-appearing liquid
- Accurate to +/-1% of stated temperature
- Ideal for applications such as annealing, forging, welding, bending, forming and any place where temperature measuring is necessary
- 5" long
- Meets ANSI/ASME guidelines

Order No.	MFG No.	Temp. °F/°C
HK819	86400	100/38
434-7050	86436	125/52
434-7100	86463	150/66
HK851	86481	175/79
HK860	86517	200/93
HK869	86544	225/107
434-7260	86562	250/121
434-7290	86589	275/135
HK887	86625	300/149
434-7370	86661	325/163
434-7410	86697	350/177
434-7430	86715	375/191
HK900	86733	400/204
434-7470	86751	425/218
HK904	86769	450/232
434-7510	86787	475/246



Order No.	MFG No.	Temp. °F/°C
HK908	86805	500/260
434-7550	86814	525/274
HM700	86823	550/288
434-7570	86832	575/302
HM702	86841	600/316
434-7590	86850	625/329
HK914	86859	650/343
HK916	86868	700/371
434-7630	86877	750/399
HK919	86886	800/427
434-7680	86895	850/454
434-7700	86904	900/482
434-7750	86931	1000/538



SOAPSTONE HOLDERS

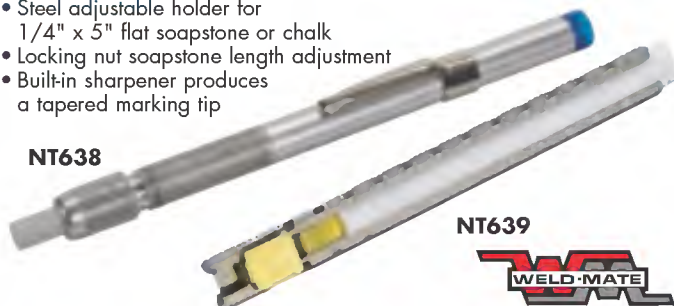
- Durable marking tools for holding fragile marking materials like soapstone and chalk
- Available in round and flat models
- Pocket clips
- Sold with one soapstone installed
- Replacement soapstone available
- Soapstone features highly visible white marking stick cut from natural stone which adheres to metal, stone, concrete and fabrics

ROUND HOLDER

- Aluminum adjustable holder for 1/4" x 5" soapstone or chalk
- Built-in sharpener produces a tapered marking tip

FLAT HOLDER

- Steel adjustable holder for 1/4" x 5" flat soapstone or chalk
- Locking nut soapstone length adjustment
- Built-in sharpener produces a tapered marking tip



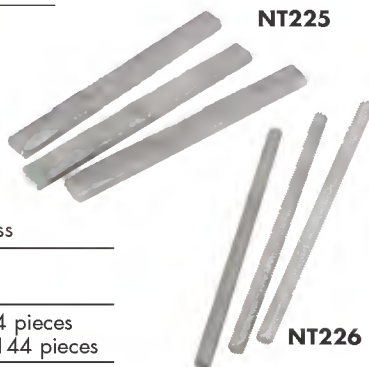
Order No.	Description
NT638	Round Holder
NT639	Flat Holder



SOAPSTONES

- White soapstone sold 1 gross per box
- Case Qty: 12 boxes
- Sold per gross, priced per gross

Order No.	Description
NT225	Flat Soapstone, 144 pieces
NT226	Round Soapstone, 144 pieces



SOAPSTONES & HOLDERS

INDEXABLE FLAT SOAPSTONE HOLDER

- Quality construction for durability and appearance
- Non-corrosive channel with brass indexing trigger provides superior sliding action for one-handed operation
- Brass trigger depresses and slides to proper alignment hole and snaps back to lock into position
- Complete package comes with a 3/16" x 5" #1 select soapstone
- Also available with 4 additional soapstone refills, model 326-1510 skin pack

GRIPPER ROUND SOAPSTONE HOLDER

- Sleek brass case with contrasting cap and pocket clip
- Locking cap allows accurate adjustments for closer marking control
- Slim design provides better visibility in the marking area
- Inner sleeve collet securely holds the soapstone and also adjusts to grip uneven and undersized soapstones
- Complete package comes with 1/4" x 5" #1 select soapstone
- Also available with 4 additional soapstone refills, model 326-1520 skin pack



Order No.	MFG No.	Description
HOLDERS		
326-1410	400-1	Flat Holder
326-1510	SP400-1	Skin Packed Flat Holder w/5 Soapstones
326-1430	800-1	Round Holder
326-1520	SP800-1	Skin Packed Round Holder w/5 Soapstones
SOAPSTONES		
326-1515	SP500-F	Flat Soapstone, 6/Pkg.
326-1530	SP900-R	Round Soapstone, 6/Pkg.



GOJO® NATURAL ORANGE™ HAND CLEANER

- Quick-acting lotion formula for cleaning a broad range of industrial soils, medium dirt and grease
- Citrus scent



Order No.	MFG No.	Description	Dispenser	Qty /Case
W/O PUMICE				
JA330	0947-12	14 oz. Grippit™ w/Brush	-	12
JA329	0948-06	1/2 Gallon w/Pump	-	6
JA152	0945-04	1 Gallon w/Pump	-	4
JA373	7250-04	2000 ml Refill for PRO 2000	JA370, JA387	4
W/PUMICE				
JA327	0957-12	14 oz. Grippit™ w/Brush	-	12
JA328	0958-06	1/2 Gallon w/Pump	-	6
NI254	0955-04	1 Gallon w/Pump	-	4
JA374	7255-04	2000 ml Refill for PRO 2000	JA370, JA387	4
JA382	7556-02	5000 ml Refill for PRO 5000	JA379	2



GOJO® MULTI GREEN® HAND CLEANSER WITH SCRUBBING PARTICLES

- A popular multi-purpose hand cleaner for removing light to medium industrial soils and dirt
- Contains a natural, citrus solvent cleaner with non-abrading scrubbing particles



GOJO® SUPRO MAX™ HAND CLEANER

- Fast and effective lotion hand cleaner removes tough, sticky soils and adhesives while leaving skin conditioned and healthy feeling
- Unique blend of cleaners, skin conditioners and gentle scrubbers
- Ideal for plant-wide use
- Non-drying formula



Order No.	MFG No.	Description	Dispenser	Qty /Case
JA375	7265-04	2000 ml Refill for PRO 2000	JA370, JA387	4
JA383	7565-02	5000 ml Refill for PRO 5000	JA379	2

Order No.	MFG No.	Description	Dispenser	Qty /Case
JA377	7272-04	2000 ml Refill PRO 2000	JA370, JA387	4
JA385	7572-02	5000 ml Refill PRO 5000	JA379	2

GOJO® LEMON PUMICE HAND CLEANER

- Crème formula with fresh lemon fragrance and pumice scrubbers
- For removing grease, tar and oil
- No harsh solvents
- Plastic cartridge container



GOJO® ORIGINAL FORMULA™ HAND CLEANER

- Original Gojo® Crème formula contains lanolin and soothing emollients
- For removing heavy grease, tar and oil
- Use with or without water, rub - then wipe clean with a towel or rinse off
- No harsh solvents
- Plastic cartridge container



Order No.	MFG No.	Size	Dispenser	Qty /Case
JA287	0915-06	4.5 lb	JA171	6

Order No.	MFG No.	Size	Dispenser	Qty /Case
JA338	1109-12	18 oz.	-	12
JA169	1115-06	4.5 lb	JA171	6



GOJO® FAST WIPES® HEAVY-DUTY HAND CLEANING TOWELS

- Hand cleaning towels
- For quick clean-up of light greases and oils
- For use at the job site or wherever water is not available
- Convenient fastening brackets for **JA342** and **JA343**



Order No.	MFG No.	Description	Qty /Case
JA341	6285-06	Tool Box Package of 60	6
JA342	6298-04	Bucket of 130	4
JA343	6299-02	Bucket of 225	2
JA344	6201-01	Bracket for JA342	1
JA345	6202-01	Bracket for JA343	1



GOJO® HAND MEDIC® PROFESSIONAL SKIN CONDITIONER

- Use before work, after handwashing and at night to restore and maintain the skin's natural protective barrier
- Silicone and fragrance-free

HAND MEDIC® DISPENSER

- Traditional bag-in-box dispenser
- Portion control helps reduce waste
- ADA compliant, one-hand push operation reinforces mounting with each use
- 500 ml capacity
- Colour: Black



Order No.	MFG No.	Description	Dispenser	Qty /Case
JA391	8150-12	5 oz. Tube	-	12
JA393	8242-06	500 ml Refill	JA392	6
JA392	8200-12	Dispenser for JA393	-	-



GOJO® SCRUBBING WIPES

- Clean the dirtiest hands without water
- Clean oils, grease, lubricants, asphalt, dirt, inks, paints polyurethane, urethanes, sealants, epoxies, adhesives and caulks
- Dual textured wipes
- Scrubbing side removes stubborn soils while the smooth side provides quick dirt absorption tough on grime
- Contain skin conditioners

Order No.	MFG No.	Description
JB623	6398-02	Bucket, 170 pieces
JB624	6396-06	Canister, 72 pieces
JB625	6383-06	Canister, 25 pieces
JB626	6380-04	Display Carton, 80 pieces

JB626

JB625





CONTOUR MARKER®

MADE FROM DURABLE, LIGHTWEIGHT ALUMINUM

- Curv-O-Mark® Contour Marker® is a compact, time-saving tool used to lay out pipe and structural steel joints
- Laterals at any angle, tees, wyes, crosses, elbows
- Any type or size of joint can be quickly and precisely laid out
- No more complicated mathematical formulas or needless material waste
- Can be used to lay out pipe from 1-1/2 to 18" diameter, or structural steel members up to 18"
- Consists of an X-shaped frame, calibrated protractor, and a triple-jointed marking arm and holder
- Holder accepts a soapstone crayon (included), felt pen or pencil
- Frame easily folds into a compact tool that fits into a pocket or carrying case
- Can be used right side up or upside down, depending on the direction of the line to be scribed
- Protractor calibrated on both sides—one in degrees, the other in rise-inches-per-foot—to service any type of measurement need
- Comes with a structural adaptor designed to simplify the layout of structural joints, including I-beams, angles, channels, square tubing and similar shapes
- Optional combination adaptor accessory allows the marker to lay out joints on larger size pipe, as well as scribe compound angles with just one setting



Order No. 430-2000
MFG No. 1

JUMBO CONTOUR MARKER™

- Larger version of the Contour Marker®
- Developed for use in the layout of large diameter pipe, from 8" to 48"
- Structural adaptor, can be used in the layout of extremely large structural steel members up to 48" wide
- Comes complete with a durable web strap that helps hold the unit in place during layout
- Built-in adjustable dial bubble protractor ensures accurate centre-line location
- Soapstone crayon included

Order No. 430-2030
MFG No. 4

CONTOUR®



COMBINATION ADAPTOR ACCESSORY

- Designed for use with standard and Jumbo Contour Markers™
- Simplifies handling and increases layout capacity
- Permits use of all four sides of the Contour Marker® and permits marking on small diameter pipe, over nipples, old welds or on wrapped pipe
- Provides layouts with compound angles using a single setting, or any degree of take-off on elbows and turns up to 90°

Order No.	MFG No.	Description
430-2010	2	Standard Combination Adaptor
430-2040	5	Jumbo Combination Adaptor

CONTOUR®



FLANGE ALIGNER BASE

- Removes the difficulty of flange aligning and squaring
- Holds square in the needed position without tying up one's hands
- Notched at either end for ease in aligning on the centreline of the pipe and has two 25 lb-pull, cast-in magnets for holding either a flat horizontal or vertical position
- Accepts either leg of a standard or combination square and will work on pipe diameters from 1" up, requiring only extension of the legs of the square being used to accommodate larger diameters
- Made from lightweight, durable aluminum



CONTOUR®

Order No. 430-2230
MFG No. 32

PIPE FLANGE ALIGNER

- Self-determining flange aligning tool makes fast, accurate pipe construction possible
- Inserts easily into pipe, centres snugly against the inside pipe diameter and automatically aligns with the pipe axis
- Quickly adjustable for all types of flanges or pipe sizes ranging from 3" to 12" diameter



CONTOUR®

Order No. 430-2100
MFG No. 10

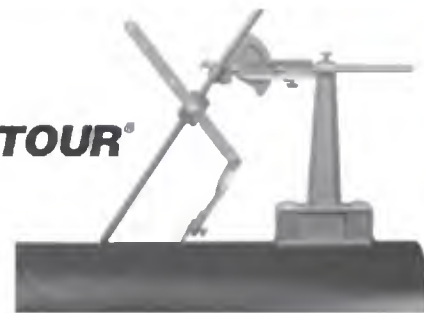


CIRCLE-ELLIPSE PROJECTOR

- Easily makes perfect circles, ellipses or oblong circles on any irregular flat or round surface
- Features a protractor with sliding rods and an adjustable lever to lock in the specified layout
- Strong, 20-lb pull magnetic base holds the projector in position during layout
- Durable web strap (included) holds the unit secure on non-magnetic surfaces and can be used on either side of the vertical column
- Lay out lateral intersections of different diameter pipes, or to project circles from 1-1/2" to 18" diameter on flat surfaces intersecting at angles from 0° to 70° from vertical
- Attachments to develop larger diameter circles are available
- Includes: Soapstone crayon and also works with chalk, pencil or steel scribe

Order No. 430-2110 MFG No. 14

CONTOUR®



RADIUS MARKERS

- Available in four sizes for scribing circles up to 80" diameter
- Folding type design—three smaller models will fit conveniently into a shirt pocket
- All have sturdy friction joints to maintain rigidity and accuracy
- Made from lightweight, rustproof aluminum for long wear
- Soapstone crayon installed in each radius marker
- Scribe holder will accept round, square or flat soapstone crayon, pencil or steel point scribe

CONTOUR®



Order No.	MFG No.	Description	Radius"
430-2580	1208	Mini	Up to 8
430-2590	1220	Small	Up to 20
430-2600	1224	Standard	Up to 24
430-2610	1340	Jumbo	Up to 40

CENTERING HEADS

CONTOUR®

Aid in the setting of centerlines, establishing angles and marks for butt-ins, locating points inside pipes and tanks, laying out keyways and measuring declivity

Standard Model

- Used on pipe 1/2" diameter or larger
- Fitted with an adjustable dial bubble protractor (DSL), manually operated centering pin

Jumbo Model

- For pipe 1" diameter and up
- Includes DSL
- Spring-loaded hardened centering pin eliminates the need for a hammer
- Align and press the trigger

Order No.	MFG No.	Type	Head Type	Head Width"
430-2050	6	Standard	Y	4
430-2070	7	Jumbo	Y	8

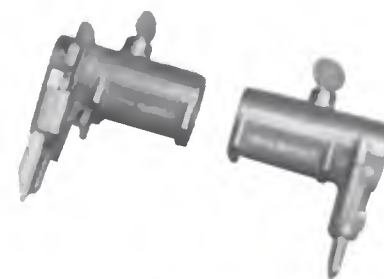


MULTI-TRAMMEL HEADS

CONTOUR®

- For marking using standard 1/2" pipe
- Feature radius set points cast in alignment with marking pointers for easy setting
- Equipped with 1/4" screws and squared on the back side for perpendicular alignment
- Stationary head holds a 1/4" case hardened centre point
- Moveable head has a 1/8" steel scribe hardened to 59 rockwell
- Chalk holder will accept round, square or flat soapstone crayon, pencil or steel point scribe
- Marks from 1-1/2" circle to any diameter needed, depending on length of pipe used as a trammel bar
- Heads are made from durable aluminum
- Each set weighs approximately 8 oz.
- Includes: Allen wrench, soapstone, scribe and pointer

Order No. 430-2120 MFG No. 19



VERSI-MAG & HOLDER

- Versi-Mag is a single 25-lb magnet cast in a square end body that can be used for the line up of steel parts for welding or machining
- Versi-Mag holder works as a jig or line-up fixture, and can hold leads, hoses, torches or other devices

- Consists of two 25-lb pull magnets, each cast in an aluminum body and machined with square ends
- These are then hinged to swing through a 90° angle
- Bodies are fitted with either a holding pin or clamp to receive various tools

Order No.	MFG No.	Description
430-2140	21	Versi-Mag
430-2150	21A	Versi-Mag Holder

CONTOUR®





UNIVERSAL LEVEL

- Multipurpose tool
- Unit features a 360° adjustable protractor dial bubble (DSL) that ensures accurate levelling and permits the following additional uses:
 - Setting a predetermined pitch of a string of pipe
 - Setting the angle of laterals to a precise degree
 - Trueing vertical runs
 - Two-holing flanges
- Two cast-in 25-lb magnets (exerting a 50-lb pull) to securely hold the unit in place on any steel surface, including the underside of a pipe or beam
- Permits hands-free levelling, for tight spots
- Bubble is mounted on a protractor dial allowing for the level to be used in any position and still read accurately
- One face of the level is magnetic but both faces have deep, cast-in grooves that make the level self-centering on the contour of the pipe
- Magnets are cast in, they do not interfere with the use of the level on nonmagnetic materials, such as aluminum, copper, lumber, stone or other materials requiring levelling
- Comes with a two-threaded, self-aligning conical spacer and conical nut and bolt units for aligning pipe flanges (two-holing)
- Designed to fit any size bolt hole spaced between 2-1/4" to 8" centres on flanges permitting the orientation of flange bolt holes for any size pipe
- Designed primarily for pipefitting applications, is a valuable tool for any craft required to use a level or plumb bob

Order No. 430-2240

MFG No. 33

CONTOUR®



PRO-MAG LEVEL

- Made from cast aluminum
- Lightweight, easy to use tool for determining angles
- 360° adjustable DSL with two 90° quadrants graduated in 2-1/2° increments
- Cast in tables used to convert degree-of-angle to rise-in-inches-per-foot or millimetres-per-meter
- Groove on the bottom edge permits use on a small pipe
- Ideal for pipe fitter, welder, jig builder or anyone who has to determine angles or do setup work
- Includes: Two cast-in 25-lb pull magnets that hold securely to any steel surface
- 9" long, 2" high and 3/4" thick

Order No. 430-2080

MFG No. 8

CONTOUR®



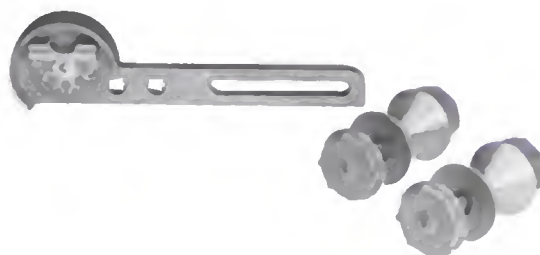
DIAL-ANGLE-FLANGE LEVEL

- Versatile, as a dial degree utility level or, with attachments, for two-holing flange alignment
- Made of cast aluminum with a protective housing containing an adjustable DSL
- Fitted with a threaded, self-aligning conical spacer and conical nut and bolt units for fastening the level to a pipe flange
- One stationary nut and bolt unit, while the other slides up to 5-1/2" along a slot in the level to accommodate various flange bolt hole spacings from 2" to 5-1/2"
- Body of the tool is 1/2" thick with a machined surface
- Level bubble is protected from weld splatter and breakage with a built-in housing around the DSL

Order No. 430-2130

MFG No. 20

CONTOUR®



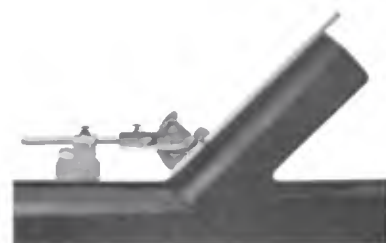
FITTER WELDER PROTRACTOR

- 90° protractor has a matching locking lever to set and hold the tool at the desired angle
- Equipped with a 5/8" by 10" tapered arm to complete finding of angles or desired bends, or to determine any portions of elbows
- Mounted in a 3/4" wide frame with a 3/8" by 6" cast-in rod
- Can be used manually or with a magnetic base
- Includes: 25-lb pull magnetic base for holding the protractor frame in position

Order No. 430-2090

MFG No. 9

CONTOUR®



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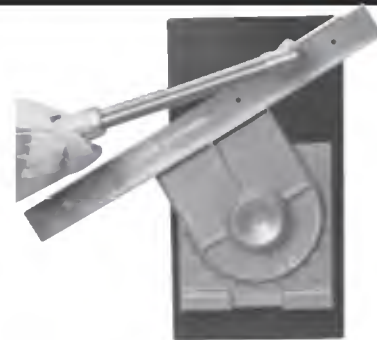
PRO-MAG BURNING SQUARE

- Precise tool used in structural thermal cutting and layout
- Perfect square containing powerful cast-in magnets
- Permits placement in any position
- Tool surface is embossed with a protractor inscribed with two 90° quadrants graduated in 1° increments
- Top of the tool carries an 18" ruler blade divided in 1/8" increments
- Ruler can be locked in place at desired angle setting by hand tightening of the adjustment knob
- Ruler blade is on a raised plane which permits its use as a straight edge when flame cutting without distortion or marring
- Blade will also accept attachments or extensions that allow an overall length up to 72"
- Made of cast aluminum

Order No. 430-2160

MFG No. 22

CONTOUR®



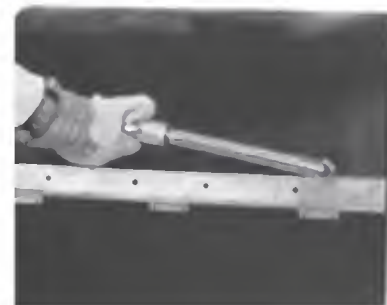
MAGNETIC BURNING GUIDE

- Designed for use with a burning torch or as a straight edge
- Cast of strong, durable material to withstand heat and spatter
- Base has three 30-lb pull cast-in magnets for use in any position
- 24" blade on a raised plane is standard

Order No. 430-2190

MFG No. 28

CONTOUR®



ATTACHMENTS FOR PRO-MAG BURNING SQUARE & MAGNETIC BURNING GUIDE

- Each is in two sections

Order No.	MFG No.	Overall Length"
430-2200	29	34
430-2210	30	48
430-2220	31	72

CONTOUR®



TUFF-EDGE® RAP-AROUNDS

- Welders and pipe fitters rap-around offers exclusive features
- Double ruled so that both top and bottom surfaces can be used for layouts, never upside down
- In its own clear plastic tube to protect it between jobs and allow easy identification without fumbling
- TUFF-Edge®, covers the leading ruled edge with a tough, clear vinyl cover
- Highly abrasion resistant, heat resistant and adds extra long life to the product by protecting the ruled surface and the edge
- All sizes except small have 36" imprinted with layout information



Order No.	MFG No.	Size	Dimensions L' x W"	Pipe Dia."
887-1000	150TE	Small	2 x 2 1/2	1 to 3
887-1010	160TE	Medium	4 x 4	3 to 6
887-1015	170TE	Large	6 x 4	3 to 10
887-1025	177TE	X-Large	7 x 4	6 to 14
887-1035	179TE	2X-Large	9 x 4	8 to 18

WRAP-A-ROUNDS

- An inexpensive tool for marking straight lines around pipe, or for use as a straight edge
- Made of flexible gasket material
- Resistant to heat and cold
- Asbestos free with service temperature of up to 350°F
- Printed with a scale in inches, pitch chart, tangent chart and other useful markings except X-small
- 3.88" and 5.00" wraps feature a metric scale and pitch chart

CONTOUR®



Order No.	MFG No.	Size	Dimensions L' x W"	Pipe Dia."
430-2250	150B	X-Small	2 x 1.94	1 to 3
430-2290	152B	Small	2 x 2.50	1 to 3
430-2330	164B	Medium	4 x 3.88	3 to 6
430-2370	176B	Large	6 x 3.88	3 to 10
430-2410	177B	X-Large	7 x 5.0	4 to 12
430-2450	179B	X-Large	9 x 5.0	6 to 16
430-2490*	184B	Special	Length desired x 3.88	
430-2520*	185B	Special	Length desired x 5.00	
430-2550*	187B	Special	Length desired x 7.00	

*Special lengths available up to a maximum of 375'



CONTOUR® WORKER KIT

ALL THE TOP SELLERS IN ONE CASE!

- Includes: #1 Contour Marker®, #7 centering head, #8 Pro-Mag level, standard radius marker, square soapstone and holder, metal carrying case
- See pages 180 to 182 for information on individual components

Order No. TTT484
MFG. No. 3014807



CONTOUR®

TWO HOLE PINS

All models come with 360° vials that just "snap" in and out for easy replacement.

MODEL 496-1100

- Features slotted pins with "friction fitting" knurled nuts
- One pin has a vial for easier vertical levelling

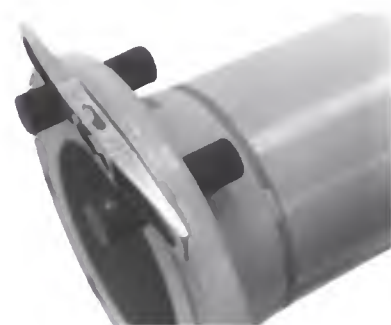
MODEL 496-1110

- Threaded pins
- One pin has a vial for easier vertical levelling

MODEL 496-1120

- Largest set for holes up to 1 15/16" in diameter
- One pin has a vial for easier vertical levelling

Order No.	MFG No.
496-1100	42050
496-1110	42050-T
496-1120	42050-TL



flange wizard® tools

UNIVERSAL MAGNETIC TAPE HOLDER

- No removable parts and works with most industrial measuring tapes
- Magnetic pocket level
- Secures the end of your tape while laying out close tolerance measurements from the end or the centre of your material
- Machined from aluminum and anodized for a protective finish
- Strong 25-lb pull magnet set in epoxy secures the tape holder to your work
- A must for all metal trades mechanics to have in their toolbox
- 4" long and 5/8" square

Order No. TTT460 MFG No. 89754

flange wizard® tools

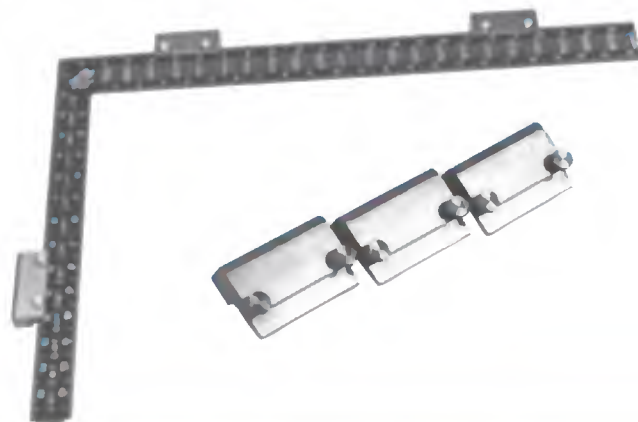


MAGNETIC BLOCKS

- Magnetic support blocks can be attached to any standard square to form your own burning guide
- Also use them to hold your square for various jobs
- Attach to any straight edge up to 1/8" thick
- Three blocks to a set

Order No. 496-1000
MFG No. 3-28

flange wizard® tools



22093E



PIPE FLANGE ALIGNER

- Pipe aligner will two-hole (make 2 holes of the flange horizontally level with the ground) and vertically level the face of the flange in one easy step
- 360° vials that just "snap" in and out for easy replacement
- Saves valuable fit-up time

MODEL 496-1070

- Features slotted pins with "friction fitting" knurled nuts for flanges to 30" - 150 lbs.
- Fits flanges with holes 1/2" to 1 7/16" diameter



MODEL 496-1080

- Features pins which are threaded for flanges to 30" - 150 lbs.
- Fits flanges with holes 1/2" to 1 7/16" diameter



MODEL 496-1090

- Largest model
- Fits flanges with holes 1/2" to 1 15/16" diameter



Order No.	MFG No.
496-1070	38240
496-1080	38240-T
496-1090	38240-TL

flange wizard® tools 

POCKET PRO LEVEL



- Extra strong magnet will hold it firmly to any steel surface
- The two stationary vials are placed at 90° angles of each other and can be read from any surface of the level
- Vials are easily replaced if broken
- Dial is in 2 1/2° degree increments with spring tension for easy operation
- 9" long and 1 1/2" wide for easy handling and storage
- Pitch to degree conversion scales

flange wizard® tools 

Order No. 496-1185

MFG No. PP-200

DEGREE LEVEL

- Pocket size, combination degree level makes it easy to establish angles and mark for butt-ins, set tanks, layout keyways and measure decline or slope
- Level is 2 3/8" long and 1 1/2" wide
- Permanently marked in 2 1/2° increments and numbered every 10°
- Features a magnet in the base for easy hands off use and can even hold the end of a tape measure for solo use
- Pitch to degree conversion scales

flange wizard® tools 

Order No. 496-1170

MFG No. L-2



VIAL REPAIR KIT

- Now you can repair your own vials and make your tools like new again
- One kit fits all

Order No. TTT459

MFG No. 5102



flange wizard® tools 

TURNING ROLL ASSEMBLY

TR-0100

- The DC drive P.C. board is protected against high-frequency vibration
- Remote foot switch run/stop controller
- Designed for various small welding applications and long production runs
- "Forward/Stop/Reverse" switch for step less speed adjustment

TR-3504

- Direct final positive gear drive
- Roll work range: from 1" to 47" diameter, without changing wheel centre
- "Forward/Stop/Reverse" switch for step less speed adjustment
- Ideal for pipe working
- High quality PU rubber tires provide friction drive and smooth pipe rotation

	TR-0100	TR-3504
Power Input	1 phase 115/230 V 50/60 Hz	1 phase 220/240 V 50/60 Hz
Turning Capacity	2,200 lbs.	7,700 lbs.
Load Capacity (Drive & Idler)	2,200 lbs.	7,700 lbs.
Diameter Range	0.8 - 31.58"	0.35 - 55"
Speed Range (in/min)	3.2 - 63	2.4 - 47
Rotation Motor (hp)	1/12	1/2
Roller Diameter	8"	8"
Roller Width	2"	4"
Roller Type	Polyurethane	Polyurethane
Overall Length (Drive/Idler)	13"/6"	17"/11"
Overall Width (Drive/Idler)	21"/18"	31"/28"
Overall Height	13"	20"
Net Weight (Drive/Idler)	81.4 lbs. /37.4 lbs.	242.0 lbs. /121.0 lbs.

TR-0100

TR-3504



Order No.	MFG No.	Load Capacity lbs.
331-9270	TR-0100	2,200
TTT473	TR-3504	7,700

WELDING POSITIONERS

- The DC drive PC board is protected against high-frequency vibration
- Spindle has a diameter of 1" through hole for pipe working or gas purging applications
- Slotted turning table provides quick mounting for various work holding fixtures
- Timing controller precisely adjusts the weld period
- **PT-100** positioned – Manual table angle adjustment with locking screw
- **PT-200** positioned – Table angle adjustment with worm gears and crank handle.

	PT-100	PT-200
Power Input	1 phase 110/220 V - 50/60 Hz	
Capacity (Horizontal/Vertical)	220/165 lbs.	440/330 lbs.
Rated Centre of Gravity	4"	4"
Rated Eccentricity	4"	4"
Table Dimension	12 5/8"	12 5/8"
Rotation Speed (RPM)	A: 1 - 15 B: 0 - 4	A: 1 - 15 B: 0 - 4
Spindle Thru Hole	1 1/2"	1 1/2"
Table Slot Bolt Size	3/8"	3/8"
Earthing (Amp)	300	300
Rotation Motor (hp)	1/20	1/12
Tilt Range (degree)	0 - 120	0 - 120
Welding Timer (Second)	0 - 60	0 - 60
Overall Length	16 1/4"	16 1/4"
Overall Width	16 1/4"	16 1/4"
Overall Height	13 3/8"	13 3/8"
Centre to Floor	10"	10"
Weight	82 lbs.	88 lbs

PT-200



PT-100

Order No.	MFG No.	Rotation Speed RPM
PT-100		
TTT474	PT-100A	1 - 15
TTT475	PT-100B	0 - 4
PT-200		
TTT476	PT-200A	1 - 15
TTT477	PT-200B	0 - 4



18536E



STANDARD FEATURES

- Quick action lock washer for fast height positioning
- Patented *Fall Guard™* feature allows 1" safety zone around lock washer
- 1 1/2" ACME fine adjustment thread
- Large, convenient adjustment handle
- Set screw for double margin of safety

- Set screw can lock jack head to stand for transportation, no loose pieces
- Jack independently load tested for quality assurance
- CE rated



AVAILABLE HEAD STYLES

HEAVY DUTY JACK

- Special Features:
- 2,500-lb capacity
 - Strut tension plate for superior lateral support
 - 1" square tube base construction
 - Built for heavy use and abuse



FOLD-A-JACK®

- Special Features:
- Folds up for storage ease
 - 1" square tube base construction
 - 2,000-lb capacity



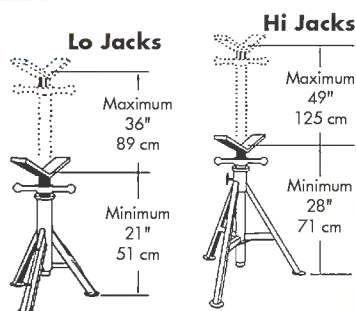
PRO JACK®

- Special Features:
- Formed steel legs
 - 2,000-lb capacity
 - Strut tension plate for superior lateral support



AVAILABLE IN TWO HEIGHTS TO SUIT YOUR WELDING NEEDS

- **Hi Jacks** for perfect work height on shapes or pipe 24" in diameter or smaller
- **Lo Jacks** for larger shapes or pipe over 24" in diameter



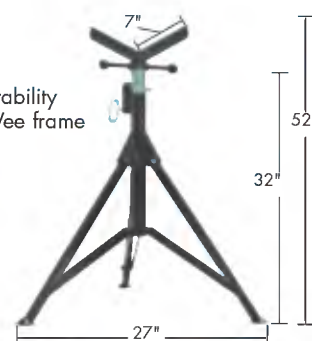
Order No.	MFG No.	Description
HEAVY DUTY - HI JACK		
432-1095	780375	ST-801 w/Vee-Head
432-1100	780376	ST-802 w/Roller Head
432-1105	780377	ST-803 w/Bar Stock Head
432-1110	780378	ST-804 w/Stainless Steel Rollers
432-1115	780379	ST-805 w/Stainless Steel Vee-Head
432-1120	780380	ST-806 w/Ball Transfer Head
432-1125	780381	ST-807 w/Rubber Wheels
HEAVY DUTY - LO JACK		
432-1165	780385	ST-901 w/Vee-Head
432-1170	780386	ST-902 w/Roller Head
432-1175	780387	ST-903 w/Bar Stock Head
TT485	780388	ST-904 w/Stainless Steel Rollers
TT486	780389	ST-905 w/Stainless Steel Vee-Head
TT487	780390	ST-906 w/Ball Transfer Head
432-1195	780391	ST-907 w/Rubber Wheels
FOLD-A-JACK® - HI JACK		
432-1161	781300	ST-881 w/Vee-Head
432-1162	781301	ST-882 w/Roller Head
432-1163	781302	ST-883 w/Bar Stock Head
432-1164	781303	ST-884 w/Stainless Steel Rollers
432-1166	781304	ST-885 w/Stainless Steel Vee-Head
432-1167	781305	ST-886 w/Ball Transfer Head
432-1168	781306	ST-887 w/Rubber Wheels
PRO JACK® - HI JACK		
432-1130	780471	ST-871 w/Vee-Head
432-1135	780472	ST-872 w/Roller Head
432-1140	780473	ST-873 w/Bar Stock Head
432-1145	780474	ST-874 w/Stainless Steel Rollers
432-1150	780475	ST-875 w/Stainless Steel Vee-Head
432-1155	780476	ST-876 w/Ball Transfer Head
432-1160	780477	ST-877 w/Rubber Wheels

FAT JACK

- Large Vee head
- Wide folding base for greater stability
- Ribbed Vee design strengthens Vee frame
- Ideal for large pipe
- Weight capacity: 2,000 lbs.



Order No.	MFG No.
TTT541	781375



HI BOY™ JACK STAND

- Holds 1,000 lbs. at 72"
- Designed for pipe installation in tight areas
- In its lowest position of 39", the *Hi Boy™* is ideal for normal fabrication of weld pipe
- Folds for easy transport
- Quick action lock washer for fast height positioning
- Patented *Fall Guard™* feature allows 1" safety zone around lock washer
- 1-1/2" acme fine adjustment thread – the largest in the industry
- Large, convenient adjustment handle
- Set screw can lock jack head to stand for transportation – no loose pieces



Order No.	MFG No.
TTT488	783250





PIPE JACKS

MAX-JAX™

IN THE SHOP OR ON THE JOB, MOVING LONG LENGTHS OF PIPE IS A SNAP WITH MAX JAX™!

- Ideal fabricator stand
- 12" Vee head and heavy-duty four-legged design offers the welder an extra margin of safety
- Maximum 40" pipe, minimum 4" pipe
- 1-3/4" Vee-head shaft permits the welder to position loads up to 2,500 lbs. with ease
- Large, convenient adjustment handle
- Optional casters enable pipe to be easily wheeled around in the shop or on the job
- Max Jax™ can be used for material handling when equipped with the caster kit and the hold down device
- Jack independently load tested for quality assurance
- CE rated



Order No.	MFG No.	Dimensions W" x H"	Vee Head Height Min."	Vee Head Height Max."
432-1470	781400	29.6 x 27	21	33

SUMNER



BIG™ VEE

- 3-leg heavy-duty jack stand built tough for the demands of larger pipes
- Supports 2,500 lbs.
- Maximum 40" pipe, minimum 4" pipe
- Large 12" Vee
- Fast action adjustment handle
- 1 3/4" ACME adjustment screw
- Heavy-duty 1" square leg tubing
- Wider base
- Several optional large Vee head styles

SUMNER



Order No.	MFG No.	Dimensions W" x H"	Vee Head Height Min."	Vee Head Height Max."
432-2617	780260	29 1/2 x 35 1/2	29 1/2	41

ADJUST-A-ROLLS®

- Roller adjustment from either side
- Fast adjustment for easy pipe positioning
- 1/2" to 48" or 2,000 lbs. pipe capacity
- Clean and simple design avoids welder interference
- Wheels "trued" for true pipe rotation
- Bronze bearing to eliminate arcing
- Break to lock loads for lay-out or fit-up
- Handle large enough to work with gloved hand
- Quick Change design increases roller stand utility
- Available in three styles: Hi Adjust-A-Roll®, 31", Lo Adjust-A-Roll®, 24", Table Adjust-A-Roll®

SUMNER

Order No.	MFG No.	Description
HI ADJUST-A-ROLL®		
432-1055	780365	ST-601 w/Steel Wheels
432-1060	780366	ST-602 w/Ball Transfer Heads
432-1065	780367	ST-603 w/Rubber Wheels
432-1070	780368	ST-604 w/Stainless Steel Wheels
TTT494	780369	ST-605 w/Bar Stock Head
TTT495	780399	Hi Adjust-A-Roll (base only)

LO ADJUST-A-ROLL®		
432-1075	780370	ST-701 w/Steel Wheels
432-1080	780371	ST-702 w/Ball Transfer Heads
432-1085	780372	ST-703 w/Rubber Wheels
432-1090	780373	ST-704 w/Stainless Steel Wheels
TTT496	780359	ST-705 w/Bar Stock Head
TTT497	780405	Lo Adjust-A-Roll (base only)

ROLLER STAND HEAD STYLES



Carbon Steel or Stainless Steel Roller Head
2,000 lb capacity

Rubber Wheel Roller Head
1,000 lb capacity

Ball Transfer Roller Head
1,000 lb capacity carbon or stainless steel balls

Bar Stock Head
2,000 lb capacity. Two-position roller for containment or noncontainment of material



Order No.	MFG No.	Description
TABLE ADJUST-A-ROLL®		
432-1035	780360	ST-501 w/Steel Wheels
432-1040	780361	ST-502 w/Ball Transfer Heads
432-1045	780362	ST-503 w/Rubber Wheels
432-1050	780363	ST-504 w/Stainless Steel Wheels
TTT498	780364	ST-505 w/Bar Stock Head
TTT499	780500	Table Adjust-A-Roll (base only)

PRO ROLL™

- 1/2" - 48" or 2,000 lb-capacity
- Adjustable height
- Levelling on either side of stand
- Uses Quick Change housings for increased roller stand utility
- Wheels "trued" for even pipe rotation
- Bronze bearings to eliminate arcing
- Brake to lock loads for lay-out or fit-up
- Handles large enough to grip with a gloved hand

SUMNER

Order No.	MFG No.	Description
TTT500	780441	w/Steel Wheels
TTT847	780442	w/Ball Transfer Heads
TTT501	780443	w/Rubber Wheels
TTT502	780444	w/Stainless Steel Wheels
TTT503	780446	w/Bar Stock Head
TTT504	780440	Base only



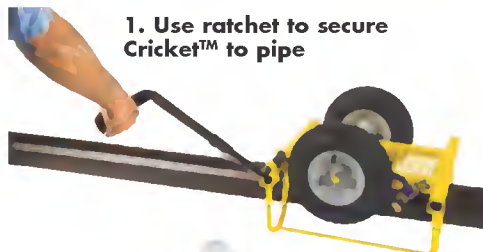


Cricket™

MORE THAN A PIPE BUGGY

- Transport 20' pipe lengths up to 1,000 lbs.
- Ideal job-site material carrier for flanges, fittings and valves
- Comes with ratchet hold-down strap and 16" tubed tires
- Quick handle disconnect for compact storage
- Weighs only 70 lbs.
- Special order only
- FOB Vancouver and Montreal

Order No.	MFG No.
432-3692	782699



1. Use ratchet to secure Cricket™ to pipe

2. Use handle to flip Cricket™ & pipe

SUMNER®

3. Reposition handle



ULTRA CLAMP

A FAST, ACCURATE FIT-UP CLAMP FOR PIPE TO PIPE, PIPE TO FITTING... AND MORE!

- Rugged frames, built for job site use, guaranteed against bending or breakage
- Smooth roller clamping action for positive gripping
- Stainless steel contacts and alignment screws
- Operating handle repositions for close work
- Fine adjustment screws for quick fit-up
- Light weight for overhead work
- Spring holds settings for repeat fit-ups
- Fine adjustment screws offer quick HI-LO settings
- Two hand handle for positive locking
- The UC three point precision alignment assures accurate fit-up of 1" through 12" pipe
- Main body of this versatile alignment tool is double-walled steel plate and guaranteed over the life of the product
- Its simple, lightweight design has quick action and is ideal for all field and shop fit-up use
- Covers a wide range of pipe sizes that would normally take four separate tools
- Available in three sizes:
1 - 2 1/2" Ultra Clamp
2 - 6" Ultra Clamp
5 - 12" Ultra Clamp



432-3506
5" - 12"

SUMNER

Order No.	MFG No.	Size"
432-3501	781130	1 - 2 1/2
432-3503	781150	2 - 6
432-3506	781170	5 - 12

ULTRA
Clamp

ULTRA FIT

A FAST, ACCURATE FIT-UP CLAMP FOR FITTING TO FITTING!

- Rugged, compact design to operate in tight locations
- Stainless steel contacts and alignment screws
- Two-hand operating handle for positive gripping
- Fine adjustment screws for quick fit-up
- Lightweight for overhead work
- Smooth roller clamping action for positive gripping
- Ideal to fit-up two 90° fittings or 90° fitting to tee

SUMNER®



TTT512
5" - 12"

Order No.	MFG No.	Size"
TTT510	781265	1 - 2 1/2
TTT511	781275	2 - 6
TTT512	781285	5 - 12



HOLD-DOWN DEVICE

HOLD PIPE OR SHAPE UP TO 12" DIAMETER!

- Similar in operation to a chain vise for pipe
- Uses high tensile strength chain to grip material in any Vee-head jack
- Ideal for fitting up flanges, fittings or valves, and a must when working with short lengths
- Chain extension kit available for 12" pipe increments



Order No.	MFG No.	Description
432-1450	781050	ST-448 Hold Device
432-3490	781056	Chain Extension Kit



PIPE CLAMPS & STANDS

FLANGE PINS

FOR ACCURATE ALIGNMENT OF PIPE FLANGES – CARBON OR STAINLESS STEEL

- Quick installing pins work as convenient reference points to level flange for tack and weld-out - no tools needed
- Hardened tapered ST-106 and ST-206 pins automatically centre on 5/8" to 1-5/8" holes, ST-258 pins similarly set in 1-1/2 to 2-5/8"
- Features acme threads for maximum clamping power and hardened steel for long lasting use

SUMNER

Order No.	MFG No.	Description
432-1020	780430	ST-106 Flange Pins
TTT527	780429	ST-206 Stainless Steel Flange Pins
TTT528	780650	ST-258 Flange Pins



MUL-T-SQUARE

MAKES PROBLEM FIT-UP EASY AND SIMPLE SET-UPS A SNAP!

- Lightweight, but durable
- Handles up to 8" flanges and up to 14" fittings
- Versatile for measuring 45° and 90° angles
- Consists of two 45° blades which slide effortlessly in an industrial strength plastic handle
- Each blade is made of durable 365/T-6 aircraft grade aluminum for precise alignment
- The 10" and 14" arms allow for measurement of tight fit-ups or they can be expanded for up to 30" squaring of 90° fittings
- 45° blades are handy by themselves for simple alignment, blades are loosened or secured by a simple twist of the conveniently located locking knob

SUMNER

MUL-T-SQUARE

Order No.	MFG No.	Description
432-1005	790000	Mul-T-Square (inch)
TTT530	790001	Mul-T-Square handle only
TTT531	790002	Mul-T-Square blade only (inch)



HANDI-BENCH

A PORTABLE WELDING TABLE

- Crafted from 1" square tube
- Folding legs lock in stored or work position
- One piece construction
- Convenient 36" work height
- Compact and lightweight
- Quick action plunger lock
- 24" x 40" work surface
- Two models with weld top

SUMNER

HANDI-BENCH SERIES 304

- 300-lb capacity
- Complete with expanded metal top and 8" transport wheels

HANDI-BENCH SERIES 604

- 600-lb capacity
- 4 point leg contact
- Optional 8" wheel kit **TTT540** for rolling transport of table in folded position only

Perfect for:

Pipe work, mitre saws, general maintenance, painters, tile saws, blueprints, garage work bench, welding, machine shops, gardening and nursery, auto service, assembly bench, shipping and receiving set-ups and more!

Order No.	MFG No.	Description	Work Dimension L" x D" x H"	Load Capacity lbs.
MH880	783975	HB-304 Weld Top	40.4 x 24.4 x 36.5	300
MH879	783980	HB-604 Weld Top	40.4 x 24.4 x 36.3	600
TTT540	783965	8" Wheel Kit for MH879	-	-

MH879
(Shown with
optional wheel kit)



24048E



HYDRAULIC PALLET TRUCKS

- Heavy-duty polyurethane tread bonded to cast iron core steering wheels and rollers provide superior performance
- Maintenance-free sealed bearings at all pivot points
- 6" (152 mm) wide forks • Meets CE standards
- Pallet Truck Height: Lowered 2 7/8", Raised 7 3/4"



1-YEAR WARRANTY



Order No.	Fork Width"	Fork Length"	Capacity lbs.
MJ484	20 1/2	36	5500
MJ485	20 1/2	42	5500
MJ486	20 1/2	48	5500
MJ487	27	36	5500
MJ488	27	42	5500
MJ489	27	48	5500

HEAVY-DUTY HYDRAULIC PALLET TRUCKS

- Heavy-duty polyurethane tread bonded to cast iron core steering wheels and rollers provide superior performance
- Double rollers for easy moving of extra heavy loads
- Reinforced fork channels deliver exceptional durability
- 6" (152 mm) wide forks • Meets CE standards
- Pallet Truck Height: Lowered 2 7/8", Raised 7 3/4"



2-YEAR WARRANTY



Order No.	Fork Width"	Fork Length"	Capacity lbs.
MJ490	20 1/2	36	6600
MJ491	20 1/2	42	6600
MJ492	20 1/2	48	6600
MJ493	27	36	6600
MJ494	27	42	6600
MJ495	27	48	6600

CHAIN HOISTS

- Lightweight steel construction
- Triple spur geared for easy lifting
- Load brake assures safety and load control
- High tensile alloy steel load chain for increased strength and durability
- Latched swivel hooks for added security



Order No.	Cap Lbs.	Lift'
LS534	1000	10
LS535	2000	10
LS536	3000	10
LS537	4000	10
LS538	6000	10
LS539	10000	10

Order No.	Cap Lbs.	Lift'
LS540	1000	20
LS541	2000	20
LS542	3000	20
LS543	4000	20
LS544	6000	20
LS545	10000	20

LEVER HOISTS

- Lightweight steel construction
- Short steel handle rotates 360° to allow operation in any position
- Load brake assures safety and load control
- High tensile alloy steel load chain for increased strength and durability
- Latched swivel hooks for added security

Order No.	Cap Lbs.	Lift'
LS546	1500	5
LS547	2000	5
LS548	3000	5
LS549	6000	5
LS550	12000	5



ADJUSTABLE TROLLEYS

- Easily adjusts to fit various flange and I-beams
- Use on straight or curved track • Heavy-duty cast iron wheels
- Deep width flange provides superior contact with the beam
- Geared trolleys include 2 geared wheels operated by hand chain



Plain

Order No.	Fits I beams"	Cap Lbs.
PLAIN		
LS551	2 - 5	1000
LS552	2 1/3 - 5	2000
LS553	2 3/4 - 6	4000
LS554	3 1/2 - 6 1/3	6000
LS555	4 - 7 1/2	10000



Geared

Order No.	Fits I beams"	Cap Lbs.
GEARED		
LS556	2 - 5	1000
LS557	2 1/3 - 5	2000
LS558	2 3/4 - 6	4000
LS559	3 1/2 - 6 1/3	6000
LS560	4 - 7 1/2	10000



HYDRAULIC SCISSOR LIFT TABLES

- Heavy-duty construction with captured scissor rollers for maximum stability
- Superior hydraulic systems feature an integrated pump-cylinder for maximum reliability
- High quality casters and wheels for exceptional roll ability (two fixed, two swivel)
- **MJ518, MJ519 and MJ521** have a collapsible handle
- Lowering control automatically stops when released for added safety



MJ519

MJ520



Order No.	Load Cap lbs.	Platform Height		Platform Size	
		Lowered"	Raised"	Width"	Length"
MJ518	330	8 5/8	29	17 3/4	27 1/2
MJ519	660	11 1/4	34 5/8	19 3/4	32
MJ520*	770	14	51 1/4	19 3/4	35 3/4
MJ521	1100	11 1/4	34 5/8	19 3/4	32
MJ522	1100	11 1/4	36	31 7/8	63
MJ523	1650	16 1/2	35 3/8	20 1/8	39 3/8
MJ524	2200	15	39	20 1/8	40
MJ525	2200	11 3/4	55 1/8	29 1/2	80 1/8
MJ526*	1760	17 1/2	59 1/8	24	48

* Double scissors



WELDING REELS

HOSE REELS

- Can position for wall, floor, ceiling or truck mounting
- Permanently lubricated
- Full flow shaft and swivel connection assures maximum product delivery
- Flexible hose connection required between source hose and reel inlet to prevent misalignment
- Adjustable hose bumpers allows to maintain any length of hose outside the reel
- 4 bolt mounting base for easy installation
- Low pressure (300 PSI) - small capacity for general air or water, standard hose included, maximum temperature 150°F



Order No.	MFG No.	Series	Max PSI	Hose Length'	Hose ID"	Hose OD"	Hose Outlet"	Reel Inlet"	Dimensions			
									L"	x W"	x H"	
TN315	4435-OLP	4000	300	35	1/4	0.500	1/4	3/8	12 5/8	x 5 3/8	x 12 7/8	
TN316	5635-OLP	5000	300	35	3/8	0.688	1/4	3/8	13 3/4	x 6	x 14 1/2	
TN317	4625-OLP	4000	300	25	3/8	0.688	1/4	3/8	12 5/8	x 5 3/8	x 12 7/8	
TN318	7650-OLP	7000	300	50	3/8	0.688	1/4	1/2	19	x 7	x 20 1/4	
TN319	7850-OLP	7000	300	50	1/2	0.844	3/8	1/2	19	x 7	x 20 1/4	
TN320	D9375-OLP	9000	300	75	3/4	1.188	3/4	1	24 1/4	x 12	x 26 1/4	



ARC WELDING REELS

POWER OR MANUAL REWIND TO HANDLE #2 THROUGH 4/0 CABLE TO 400 AMPS

- 400-amp rated rotary electrical device
- Instant use with any cable length unwound
- For use with single conductor electrode cable or grounding lead
- Quick connection to your welder
- 4-way roller assembly
- Roller position must be specified

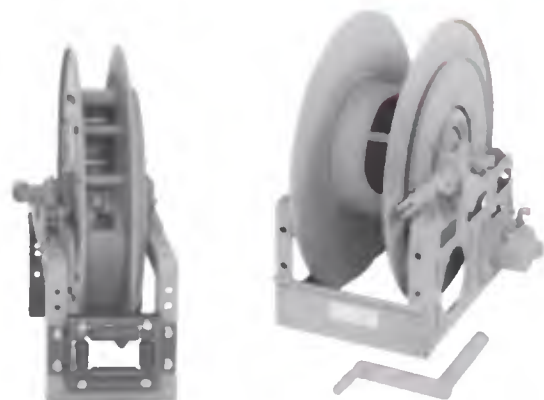


SWCR SERIES

- Non sparking ratchet assembly
- Decutching arbor is provided to prevent damage from reverse winding
- A cable stop should be used

WCR SERIES

- Gear driven crank rewind, chain and sprocket powered by an electric, hydraulic or compressed air motor or spring rewind
- Auxiliary rewind and pinion brake standard



SWCR Series

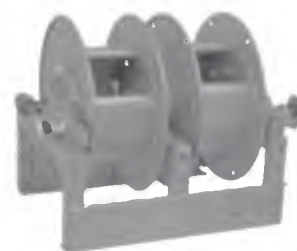
WCR Series

		Cable Capacity of Reel'							Approx. Wt. Crank/Spring Rewind		
Order No.	MFG No.	Gauge of Cable O.D."	#2 0.50	#1 0.58	1/0 0.62	2/0 0.67	3/0 0.72	4/0 0.81	Net lbs.	Ship lbs.	Standard Roller Assembly
SWCR											
886-1130	SWCR716-23-24-15.5G		85	85	60	60	60	40	85	120	R204
TTT563	SWCR716-25-26-15.5B		-	-	-	-	60	50	91	126	R204
TTT564	SWCR716-25-26-15.5A		-	-	100	-	-	-	106	141	R205
WCR											
886-1921	WCR16-19-21		-	275	200	200	150	150	71	106	-
TTT565	WCR16-23-24		-	-	-	-	300	200	78	113	-

DUAL ARC WELDING REELS

MANUAL REWIND TO HANDLE #1 THROUGH 4/0 CABLE TO 400 AMPS

- Designed to handle grounding and arc welding leads on the same reel unit
- Two independent spools to hold separate lengths of welding cable
- 400-amp rotary electrical device for instant and constant use
- Long-wearing Delrin bearings provide electrical insulation and lube-free ease of operation
- Gear driven crank rewind with a removable handle
- Pinion brake is standard



Order No.	MFG No.	Cable Capacity of Reel'							Approx. Wt. Crank Rewind	
		Gauge of Cable O.D."	#1 0.58	1/0 0.62	2/0 0.67	3/0 0.72	4/0 0.81		Net lbs.	Ship lbs.
886-TWCR-12-17-18	TWCR12-17-18		-	50	50	45	40		78	113
TTT566	TWCR14-17-18		125	100	100	80	50		80	115
886-1140	TWCR12-19-20		150	100	100	60	60		82	117
886-1150	TWCR14-19-20		-	150	150	100	80		84	119



GAS WELDING REELS

SPRING REWIND TO HANDLE TWIN 1/4" THROUGH 3/8" WELDING HOSE

- Heavy-duty spring motor
- Non sparking ratchet assembly
- Decutching arbor to prevent damage from reverse winding
- Standard inlets 90° ball bearing swivel joints 1/2" female NPT threads
- Standard outlets male 9/16"-18 threads right hand for oxygen, left hand for gas
- Pressures to 300 PSI (21 bar)
- Temperatures from -40°F to 200°F (-40°C to 93°C)
- Type of gas used MUST be specified
- 4-way roller assembly (roller position must be specified)
- Hose stop is required



Shown with optional hose stop in the optional "TR" position



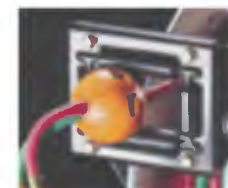
Order No.	MFG No.	Hose Capacity of Reel'		Approx. Wt.		Standard Roller Assembly
		I.D." O.D."	1/4 0.53	3/8 0.66	Net lbs. Ship lbs.	
TTT568	N416-19-20-10.5C	2/35	2/35	70	85	N204
886-1060	N416-19-20-8J	2/50	2/50	74	90	N204
TTT569	N416-23-24-10.5G	2/75	2/75	94	109	N204
886-1080	N417-23-24-10.5G	2/100	2/100	95	113	N205

Order No.	MFG No.	Description
886-1030	HS-3	Hose Stop

GAS WELDING REELS

MANUAL (MX) OR POWER REWIND TO HANDLE TWIN 1/4" THROUGH 3/8" WELDING HOSE

- MX chain drive crank rewind or powered by a compressed air or hydraulic motor
- MX rewind reels supplied with a pinion brake
- Power reels not supplied with a brake
- Standard inlets 90° ball bearing swivel joints with 1/2" female NPT threads
- Standard outlets are male 9/16"-18 threads (right hand for oxygen, left hand for gas)
- Rollers may be purchased; specify roller position (mounting brackets are necessary)
- Pressures to 300 PSI (21 bar)
- Temperatures from -40°F to 200°F (-40°C to 93°C)
- Type of gas used MUST be specified



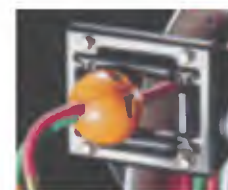
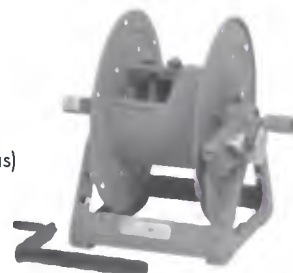
Order No.	MFG No.	Hose Capacity of Reel'		Approx. Wt.	
		I.D." O.D."	1/4 0.53	3/8 0.66	Net lbs. Ship lbs.
886-MX2414-17-18	MX2414-17-18	2/100	2/75	31	52
886-1040	MX2416-17-18	2/150	2/100	32	53
TTT570	MX2420-17-18	-	2/150	34	55
TTT571	MX2426-17-18	-	2/200	36	59

Order No.	MFG No.	Description
886-1030	HS-3	Hose Stop

GAS WELDING REELS

MANUAL REWIND TO HANDLE TWIN 1/4" THROUGH 3/8" I.D. HOSE

- Two swivel joint inlets and two outlet risers to handle two equal lengths of hose
- Gear-drive crank rewind
- Pinion brake as standard
- Standard inlets 90° ball bearing swivel joints 1/2" female NPT threads
- Standard outlets are male 9/16"-18 threads (right hand for oxygen, left hand for gas)
- Pressures to 300 PSI (21 bar)
- Temperatures from -40°F to 200°F (-40°C to 93°C)
- Type of gas used MUST be specified



Order No.	MFG No.	Hose Capacity of Reel'		Approx. Wt.	
		I.D." O.D."	1/4 0.53	3/8 0.66	Net lbs. Ship lbs.
TTT572	G2416-17-18-8	2/150	2/100	40	50
TTT573	G2420-17-18-8	-	2/150	42	50
TTT574	G2426-17-18-8	-	2/200	44	50

Order No.	MFG No.	Description
886-1030	HS-3	Hose Stop



ELECTRODE OVENS

DRYROD® II PORTABLE ELECTRODE OVENS

- Even, continuous heat for 100% protection of electrodes from unpacking to use
- Standard features include an adjustable thermostat, 120/240 voltage selector switch, a cord clamp, a lid lanyard and an indicator light, not available on Type 1
- Power inlet easily accommodates alternative cord sets
- Digital thermometer reads in °F or °C, not available on Type 1
- Powder coat finish creates a "Tough as Nails" exterior coating
- Safety yellow colour promotes high visibility from a distance
- Preset thermostat on Type 1, Types 2, 5 and 15 have an adjustable thermostat
- Digital thermometer available on Types 2, 5 and 15
- Rod elevator in Type 1 and 2 easily extracts welding rods from oven
- Wheels on Type 5 and 15 provide easy transport, handle retracts for storage



BENCH TYPE

- Type 15 with storage shelves
- Wire-wrap heating element provides evenly distributed, constant heat for 100% protection of electrodes
- Chamber holds two 50-lb. (25 kg) cans of electrodes plus additional storage area for loose rods
- Durable steel body and tough powder-coat finish
- Safety-yellow colour ensures high visibility
- Spring-latch tightly secures insulated lid
- Shelving can be removed for the drying of wire coils and the pre-heat and post-heat of welded parts
- Adjustable thermostat ensures the right temperature for applications between 100-300°F
- Power inlet module easily accommodates alternative cord sets
- 120/240 voltage selector switch
- Indicator light signifies "power on"
- Optional digital thermometer reads in °F or °C

Order No.	MFG No.	Voltage	Capacity lbs.	Temperature Range °F
TYPE 1				
382-1205500	1205500	120 V AC/DC @ 75 watts	10	Preset to 300°
382-1205501	1205501	240 V AC @ 75 watts	10	Preset to 300°
TYPE 2				
382-1205510*	1205510	120/240 V AC @ 150 watts	20	100 - 300°
TTT575	1205512	120/240 V AC @ 150 watts	20	100 - 300°
TYPE 5				
382-1205520*	1205520	120/240 V AC @ 300 watts	50	100 - 300°
TTT576	1205522	120/240 V AC @ 300 watts	50	100 - 300°
TYPE 15				
382-1205530*	1205530	120/240 V AC @ 600 watts	150	100 - 300°
TTT577	1205532	120/240 V AC @ 600 watts	150	100 - 300°
TYPE 15B				
382-1205531*	1205531	120/240 V AC @ 600 watts	150	100 - 300°
TTT578	1205533	120/240 V AC @ 600 watts	150	100 - 300°

*With digital thermometer

DRYROD® BENCH/FLOOR SHOP ELECTRODE OVENS

- Circular shape promotes even heat distribution while natural air currents direct moisture toward vent at top of door
- Adjustable thermostatic control provides a variable temperature setting from 100° to 550°F (38° to 288°C)
- Adjustable thermostatic control temperature control, pilot light indicates "heat on", recessed guard case protects controls
- Single action door latch opens easily, closes positively and can be padlocked
- Optional thermometer provides temperature indication at a glance
- Two inch glass fibre batt insulation for minimum heat loss
- Aluminized steel interior prevents corrosion
- Tubular, metal-sheathed twin heating elements clamp to upright struts on bottom of oven, providing fast easy heat... no danger of "shorting"
- Oven shelves can be removed for the drying of wire coils and the pre-heat and post-heat of welded parts



Order No.	MFG No.	Voltage	Capacity lbs.
TYPE 300			
382-1060	1200200	120 V AC @ 1000 watts	350
382-1070*	1200202	120 V AC @ 1000 watts	350
382-1065	1200100	240/480 V AC @ 1000 watts	350
382-1075*	1200102	240/480 V AC @ 1000 watts	350
382-1062	1205400	240 V AC - CSA Approved	350
TTT579*	1205401	240 V AC - CSA Approved	350
TYPE 900			
382-1085	1200300	240/480 V AC @ 2400 watts	1100

*Stacking version

STACKING PROVISION FOR TYPE 300 OVENS

- Stacking permits two Type 300 ovens to occupy the same floor space as one
- Stacking lugs (factory installed only) on lower oven bolt to feet of any Type 300 oven field

THERMOMETER KIT FOR TYPE 300 & 900 OVENS

- Kit mounts in door of oven
- Easily installed in the field; factory installation available with original order
- Temperature range from 100° to 500°F (38° to 260°C)
- Certified accurate to +/- 10°F (12°C)

Order No.	MFG No.	Description
382-1325	1250300	Thermometer Kit



18558E



SAFETUBE® ROD CONTAINERS

- Provide protection from dirt, water, dust grease, and moisture with a pressure-fitted O-ring
- Require only a quarter-turn for a threaded, positive seal
- Safety yellow colour are easily seen from a distance
- Won't roll away due to their unique, diamond shape
- Provide on-site measurements (ruler on 14" model)
- Accept electrode rods heated up to 250°F (121°C)
- Optional adjustable length carrying-strap lets you go hands-free



ROD HOLDER

- Double leather bottom and metal swivel clip
- 5-ply Kevlar stitched with rivet reinforcement

Order No. NP519



Order No.	MFG No.	Size"	Capacity
382-4010	1205441	14	Up to 10 lbs. of 14" stick
382-4040	1205455	18	Up to 15 lbs. of 18" stick

Order No.	MFG No.	Description
382-4020	1205451	Adjustable Carry Strap

ROD GUARD® TOTAL WELDING ROD PROTECTION SYSTEM

- Canister and accessories provide great storage and inventory control for all welding electrodes and filler metals
- Each Rod Guard® canister is certified chloride-free and features a threaded cap with long-lasting neoprene seal to keep electrodes airtight – preventing them from being contaminated with atmospheric moisture
- Constructed of high-impact polyethylene, can be reused for many years
- Resealable welding electrode storage canister
- Steel-lined high-temp models are heat resistant to 450°

36" CANISTER

- Specifically designed for 36" flux-coated bronze or brazing rod and TIG filler-metals
- Has 0.100" nominal wall thickness for added strength and durability
- When long cap is removed, rod tips are exposed – allowing easy accessibility to canister's contents

14" CANISTER

- Holds up to 10 lbs. of 12" or 14" electrodes
- Withstands 225°F

18" CANISTER

- Designed specifically for 18" electrodes
- Withstands 225°F

14" HIGH-TEMPERATURE CANISTER

- Steel-lined and high-temperature resistant to 450°F
- Holds up to 10 lbs. of 12" or 14" electrodes
- Ideal for use with low-hydrogen electrodes and for disposing of used electrode stubs

18" HIGH-TEMPERATURE CANISTER

- Steel-lined and high-temperature resistant to 450°F
- Designed specifically for 18" electrodes
- Ideal for use with low-hydrogen electrodes and for disposing of used electrode stubs

STORAGE RACK

- Perfect for organizing up to three canisters at the job site or workstation
- Accommodates 14" or 18" canisters (Canisters sold separately)

BELT LOOP

- Leather accessory makes convenient carrying case for canister
- Enables canister to pivot without dumping contents
- Swivel chain prevents loss of canister cap (Canisters sold separately)

ROD GUARD

384-1060

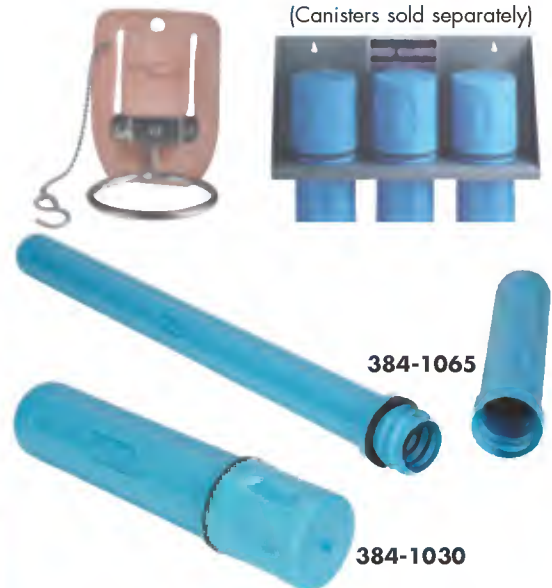
384-1050

(Canisters sold separately)

384-1038

384-1065

384-1030



Order No.	MFG No.	Description
CANISTER		
384-1065	RG300-12	36" Canister
384-1030	RG100-48	14" Canister
384-1070	RG200-48	18" Canister
384-1038	RG100-12HT	14" High Temperature
384-1075	RG200-12HT	18" High Temperature
ACCESSORIES		
384-1050	RG101-4	Storage Rack
384-1060	RG103-48	Belt Loop



4 1/2" ANGLE GRINDER

- Spindle lock for easy tool change
- 2-position side handle
- Low profile aluminum die-cast gear housing
- Double insulation on body prevents operator from electric shock

metabo

Order No. TKZ879
MFG No. W6-115
Motor: 120V AC/DC, 6.0A
Grinding
 wheel diameter: 4 1/2"
 No load speed: 11,000 RPM
 Spindle threads: 5/8"-11
 Weight: 3.3 lbs.



4 1/2" ANGLE GRINDER

- Motor has winding protection, extremely resistant to grinding dust
- Protection extends the motor to 5 times the life of one without the protection
- Toolless guard adjustment
- 2-position side handle

metabo

Order No. TKZ002
MFG No. W7-115
Motor: 120 V/ 8.0 A
Grinding wheel diameter: 4 1/2"
No load speed: 10000 RPM
Spindle thread: 5/8"-11
Weight: 3.3 lbs.



QUICK 5" ANGLE GRINDER

- Morothon motor for extra long service life
- Die cast aluminum gear housing
- Metabo S-Automatic torque limiting clutch: to limit sudden reverse
- Spindle lock for easy tool change
- VibraTech handle for vibration damping
- Metabo coil guard to protect the motor from obrosive influences
- Auto-stop carbon brushes to protect the motor

metabo

Order No. TKZ026
MFG No. W10-125
Motor: 120 V AC/DC, 8.5 A
Grinding wheel diameter: 5"
No load speed: 10,000 RPM
Spindle thread: 5/8"-11
Weight: 5.5 lbs.



6" ANGLE GRINDER

- Morothon motor for extra long service life
- Die cast aluminum gear housing
- Metabo S-Automatic torque limiting clutch: to limit sudden reverse
- Spindle lock for easy tool change
- Metabo "Quick": quick tool change without key
- Additional VibroTech handle for vibration damping
- High torque for powerful grinding and quick separation
- Metabo coil guard to protect the motor from obrosive influences
- Auto-stop carbon brushes to protect the motor

metabo

Order No. TKZ027
MFG No. W10-150Q
Motor: 120 V AC/DC, 8.5 A
Grinding wheel diameter: 6"
No load speed: 9000 RPM
Spindle thread: 5/8"-11
Weight: 5.6 lbs.



7" ANGLE GRINDER

metabo

- Morothon motor, two coil guards and powder-coated field coil for extra long service life
- Spindle lock for easy tool change
- Toolless guard adjustment enables adjustment to various applications in seconds
- Safety switch: lock against unintentional start
- Coil guard to protect the motor from obrosive influences
- Auto-stop carbon brushes to protect the motor
- Easy carbon brush change through housing flap

Order No. TKZ057
MFG No. W23-180
Motor: 15.0 A
No load speed: 8500 RPM
Rated input watts: 2300
Spindle thread: 5/8"-11
Weight: 13.3 lbs.



14" METAL CHOP SAW

metabo

- For the fast, precise cutting of steel, non-ferrous metals, iron and cast profile
- Spindle lock for easy disc change
- Quick clamping device with variable mitre conversion up to 45° on both sides
- Adjustable spark guide plate
- Adjustable depth guide
- Speed control knob allows user to adjust the blade speed

Order No. TLZ242
MFG No. CS23-355
No load speed: 3900 RPM
Motor: 2,300 W, 15 A
No load speed: 4100 RPM
Wheel diameter: 14"
Arbour: 1"
Weight: 38 lbs.



STRAIGHT GRINDER

- Extended grinding spindle (double ball bearing in solid steel tube); ideal for sharpening and deburring hard to reach places
- Hordened and ground collect chuck for precise concentricity of tool
- Spindle lock for easy tool change
- Robust aluminum die cast bearing flange
- Ergonomic shape for fatigue-free grinding
- Electronic variable speed, under load the speed remains almost constant
- Thumbwheel for speed selection
- Morothon motor for extra long service life
- Coil guard to protect the motor from obrosive influences
- Auto-stop carbon brushes to protect the motor

metabo

Order No. TKZ054
MFG No. GE700
Motor: 6.2 A
No load speed: 7000 - 27,000 RPM
Rated input watts: 710 W
Collet bore: 1/4"
Weight: 4.6 lbs.



COMPACT STRAIGHT GRINDER

metabo

- Compact construction; ideal for sharpening and deburring hard to reach places
- Ergonomic shape for fatigue-free grinding
- Auto-stop carbon brushes to protect the motor

Order No. TKZ053
MFG No. G500
Motor: 4.4 A
No load speed: 27,000 RPM
Rated input watts: 500 W
Collet bore: 1/4"
Weight: 3.7 lbs.





14.4 V 1/2" CORDLESS DRILL/SCREWDRIVER

metabo

- Quick-action keyless chuck
- Vibration-absorbing rubber-coated handle
- 3-level planetary gear with metal teeth
- Built-in collector fan to prevent overheating
- "Air-cooled" battery packs can be charged up to 2000 times
- "Air-cooled" quick charger AC 30 reduces the charging time of warm battery packs by up to 50%; charging time is approximately 30 minutes (at 1.4 Ah)
- **Includes:** 2 batteries, charger, carrying case

Order No.	TKZ039
MFG No.	BSZ 14.4
Voltage:	14.4 V
Maximum torque, soft:	212
Maximum torque, hard:	487
Drilling diameter in:	
Mild steel:	1/2"
Wood:	1 3/16"
Chuck size:	1/2"
No-load speed RPM:	0-400/0-1400
Tool weight:	4.3 lbs.



BURNISHER

- Electronic soft start
- Auto-stop carbon brushes
- Die cast aluminium gear housing
- Thumbwheel for preselection of speed
- Robust Metabo Marathon motor



Order No.	TKZ036
MFG No.	SE12-115
Amperage:	10.0 A
No Load Speed:	900-2810 RPM
Wheel Diameter:	4" - 4.5"
Arbour:	5/8 - 11"
Weight:	6.25 lbs.

metabo

1/2" HAMMER DRILL metabo

- Electronic variable speed, speed automatically remains constant under load
- Aluminium die cast gearbox housing for optimum heat dissipation and long life
- Optimal cooling by axial/radial fan
- Marathon motor for extra long service life
- Automatic torque limiting clutch: to limit sudden reverse torque which can occur if the bit jams or catches in the material
- Coil guard to protect the motor from abrasive influences
- Impact-proof chuck
- Overload protection, electronic monitoring of coil temperature. LED for impending overload
- No-volt release switch: prevents unintentional machine start
- Auto-stop carbon brushes to protect the motor
- Brush wear indicator

Order No.	TKZ001
MFG No.	SBE750
Motor Power	6.2A
Torque inch lbs.	163/53
Drilling diameter in:	
- Concrete W/Solid bits	3/4"
- Steel	1/2"
- Softwood	1-1/2"
No-load RPM	0-1000 / 0-3000
No-load BPM	0 - 57,000
Rated input Watts	750
Drilling spindle thread	1/2" - 20 UNF
Chuck capacity	1/2"
Weight	6.5 lbs.



VARIABLE SPEED RECIPROCATING SAW

metabo

- Powerful motor
- Suitable for industrial use
- Adjustable pendulum action for high cutting capacity
- Electronic variable stroke speed adjustment
- 4-position rotatable handle (no tools required)
- Saw blade can be rotated 180°
- Quick blade change without tools
- Adjustable depth stop

Order No.	TKZ062
MFG No.	PSE1200
Motor:	11.5 A
Maximum thickness of material in:	
Wood:	12"
Metal:	3/4"
No-load strokes/minute:	0-2600 SPM
Rated input power:	1200 W
Stroke length:	1 1/8"
Weight:	9.3 lbs.



12-GAUGE NIBBLER

- Precise cutting
- Burr free shearing and edge trimming
- Drop forged, hardened base
- Auto-stop carbon brushes to protect the motor

metabo



Order No.	TKZ059	No load speed (Strokes/Minute):	3000 SPM
MFG No.	KU6870	Rated input watts:	550
Motor:	5.2 A	Minimum cutting radius:	3/4"
Torque:	53 in-lbs.	Weight:	6.0 lbs.
Maximum sheet metal thickness:			
- Mild steel:	12 gauge		
- Stainless steel:	14 gauge		

BATTERIES & CHARGERS



TKZ099



TKZ104

Order No.	MFG No.	Description
BATTERIES		
TKZ099	625482000	14.4 V 2.2 Ah Air-Cooled Lithium Battery
TKZ090	631749000	15.6 V 2.4 Ah Nicad Battery
CHARGERS		
TKZ103	627304000	Air-Cooled Charger AC30 - Takes all Nicad Batteries
TKZ104	627277000	Universal Air-Cooled Lithium Charger AC30 Plus -Takes all Batteries



AIR RATCHET WRENCHES

3/8" HEAVY-DUTY AIR RATCHET WRENCH

- 2-gear full cage

aurora tools

Square Drive: 3/8"
Free Speed: 175 RPM
Torque Range: 5-75 ft-lbs.
Average Air Consumption: 3 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Horsepower: 0.45 HP
Vibration Less Than: 1.0 m/s²
Net Weight: 2.6 lbs.
Order No. **THZ671**



1/2" HEAVY-DUTY AIR RATCHET WRENCH

- 2-gear full cage

Square Drive: 1/2"
Free Speed: 175 RPM
Torque Range: 5-75 ft-lbs.
Average Air Consumption: 3 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Horsepower: 0.45 HP
Vibration Less Than: 0.1 m/s²
Net Weight: 2.6 lbs.
Order No. **THZ680**



AIR IMPACT WRENCHES

3/4" HEAVY-DUTY AIR IMPACT WRENCH

- Twin hammer mechanism system

aurora tools

Square Drive: 3/4"
Bolt Capacity: 1"
Maximum Torque: 1100 ft-lbs.
Free Speed: 4600 RPM
Average Air Consumption: 9 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Vibration Less Than: 6.1 m/s²
Net Weight: 11.2 lbs.
Order No. **THZ672**



1/2" HEAVY-DUTY AIR IMPACT WRENCH

- Pin-clutch hammer mechanism

Square Drive: 1/2"
Bolt Capacity: 5/8"
Maximum Torque: 320 ft-lbs.
Free Speed: 7000 RPM
Average Air Consumption: 12 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Vibration Less Than: 3.1 m/s²
Net Weight: 5 lbs.
Order No. **THZ673**



5" PNEUMATIC ANGLE GRINDER

aurora tools

Grinding Wheel: 5"
Spindle Thread: 5/8"
Free Speed: 10,000 RPM
Average Air Consumption: 5 CFM
Input Power: 0.7 kW
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Vibration Less Than: 3.1 m/s²
Net Weight: 3.1 lbs.
Order No. **THZ674**



1/4" PNEUMATIC ANGLE DIE GRINDER

aurora tools

- Twin-bearing spindle

Collet Size: 1/4"
Free Speed: 18,000 RPM
Horsepower: 0.45 HP
Average Air Consumption: 3.0 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Vibration Less Than: 0.1 m/s²
Net Weight: 1.7 lbs.
Order No. **THZ679**



3" AIR CUT-OFF TOOL

aurora tools

Cutting Wheel: 3"
Free Speed: 21,000 RPM
Average Air Consumption: 3 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Horsepower: 0.45 HP
Vibration Less Than: 0.20 m/s²
Net Weight: 1.8 lbs.
Order No. **THZ677**



3/8" AIR REVERSIBLE DRILL

- Keyless chuck

Chuck Size: 3/8"
Spindle Thread: 3/8" - 24 threads
Free Speed: 1800 RPM
Average Air Consumption: 4 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Vibration Less Than: 0.10 m/s²
Net Weight: 2.0 lbs.
Order No. **THZ675**



1/4" PNEUMATIC MINI DIE GRINDER

- Twin-bearing spindle

Collet Size: 1/4"
Free Speed: 25,000 RPM
Horsepower: 0.35 HP
Average Air Consumption: 3.0 CFM
Hose Size: 3/8"
Air Inlet: 1/4"-18 NPT
Vibration Less Than: 0.1 m/s²
Net Weight: 0.9 lbs.
Order No. **THZ678**

aurora tools



1/2" AIR REVERSIBLE DRILL

- Keyless chuck

Chuck Size: 1/2"
Spindle Thread: 3/8" - 24 threads
Free Speed: 450 RPM
Average Air Consumption: 4 CFM
Air Inlet: 1/4"-18 NPT
Hose Size: 3/8"
Vibration Less Than: 0.15 m/s²
Net Weight: 3.0 lbs.
Order No. **THZ676**



aurora tools

18549E



DRILLS Chicago Pneumatic™

NON-REVERSIBLE DRILLS 1/8" TO 1/2" CAPACITY

For maintenance and general use

- 1/2 HP motor
- Light weight
- Triple idler planetary gears
- Double ball bearing supported spindle
- Teasing throttle
- 1/4" (NPTF) air inlet thread
- 3/8" min. hose size

Order No. **TG070**



REVERSIBLE DRILLS 1/8" TO 1/2" CAPACITY

For precision drilling, hole sawing, honing, countersinking, and reaming

- 1/2 HP reversible motor
- Variable speed
- Teasing throttle
- Jacobs chuck
- 1/4" (NPTF) air inlet thread
- 3/8" min. hose size

Order No. **TG072**



REVERSIBLE ANGLE DRILL / NON-REVERSIBLE IN-LINE DRILL 1/8" TO 3/8" CAPACITY

For drilling in hard-to-reach areas

- Compact for confined spaces
- Rear exhaust
- Teasing throttle
- 1/4" (NPTF) air inlet thread
- 3/8" min. hose size

Order No. **TG074**

Order No. **TG075**



Order No.	MFG No.	Chuck Size		Spindle Thread	Free Speed RPM	Air Consumption CFM	Overall Length		Net Weight	
		in	mm				in	mm	lbs.	kg
TG070	RP9285	3/8	10	3/8-24	2900	21	6.5	165	2.4	1.1
TG072	RP9789	1/2	13	3/8-24	800	24	7	177	4	1.8
TG074	RP9879	3/8	10	3/8-24	1300	18	8	200	1.5	0.7
TG075	RP9887	3/8	10	3/8-24	2800	26	8.5	215	2	0.9

Noise levels are @ 1.0 m per Pneurop Standard 8N-1. Vibration levels are per ISO 8662-1. Standard equipment: Removable support handle on **TG072**.

COMPACT STRAIGHT & ANGLE GRINDERS

- Compact and light weight
- 1/4" and 6 mm collets included
- Throttle lock off



TKZ803



TKZ822



TKZ823



TKZ824



Order No.	Mfg No.	Free Speed RPM	Power HP	Power kW	Capacity in.	Capacity mm	Air Flow CFM	Air Flow L/s	Weight lbs.	Weight kg	Level dBA	Vibration m/s ²	Air Inlet
TKZ803	RP9114	22000	0.4	0.3	1/4"	6.4	27	13	1.25	0.57	101	<2.5	1/4"
TKZ824	RP9113	24000	0.49	0.37	1/4"	6.4	22	10.5	1.25	0.57	92.6	4.8	1/4"
TKZ822	RP9102	22500	0.2	0.15	1/4"	6.4	23	11	0.45	0.45	96	3	1/4"
TKZ823	RP9101	22000	0.4	0.3	1/4"	7.4	27	13	1.25	0.57	101	<2.5	1/4"

DIRECT DRIVE REVERSIBLE SCREWDRIVER

- Suitable for variable torque
- High speed fast screw rundown
- Ergonomic grip pistol grip improves operator comfort and productivity

Order No.	TLZ339
MFG No.	RP2755
Clutch Type	Direct drive reversible
Handle style	Pistol grip
Operation	Trigger start
Free Speed	2200 RPM
Output	Hex. 1/4"
Torque range	124 in-lbs.
Length	6.3"
Weight	2.27 lbs.
Air Flow	29 CFM
Air Inlet	1/4"NPTF
Air Hose Bore	3/8"
Sound Level	90 dBA
Vibration Level	<2.5 m/s ²



DIRECT DRIVE REVERSIBLE SCREWDRIVER

- Quick change chuck
- Operator can force clutch engagement for higher torque
- Reverse control at the trigger
- Good for prevailing torque applications
- High speed and high torque

Order No.	TLZ340
MFG No.	RP2780
Clutch Type	Positive clutch
Handle style	Pistol grip
Operation	Trigger start
Free Speed	2100 RPM
Output	Hex. 1/4"
Torque range	133 in-lbs.
Length	6.46"
Weight	2.35 lbs.
Air Flow	29 CFM
Air Inlet	1/4"NPTF
Air Hose Bore	3/8"
Sound Level	89 dBA
Vibration Level	26.8 m/s ²





RATCHETS

1/4" RATCHET

For light duty repair or assembly work

- Also for confined space or hard to reach areas
- 1/4" square drive spindle with pin retainer
- Reverse button
- Ball-type socket retainer
- Teasing throttle
- 1/4" (NPTF) air inlet

Order No. TG067



3/8" RATCHET

For assembly, including electronics, appliances, and light manufacturing

- Fast change, 3/8" square drive spindle
- Improved ratchet head
- Reverse button
- Use as hand ratchet for final torque up or to break fastener loose
- 1/4" (NPTF) air inlet

Order No. TG068



1/2" RATCHET

For assembly, including electronics, appliances, and light manufacturing

- Fast change, 1/2" square drive spindle
- Improved ratchet head
- Reverse button
- Use as hand ratchet for final torque up or to break fastener loose
- 1/4" (NPTF) air inlet

Order No. TG069



Order No.	MFG No.	Square Drive"	Free Speed RPM	Torque Range		Air Consumption CFM	Noise Level dBA	Vibration m/s ²	Head Dimensions		Overall Length in. (mm)	Net Weight lbs. (kg)
				Min.	Max				Ht. To Rear of Socket in. (mm)	Side to Centre in. (mm)		
TG067	RP9425	1/4	200	5 (7)	15 (20)	10	87	10	1 5/16 (24)	1 19/32 (15)	6 1/2 (165)	1 7/8 (.85)
TG068	RP9429	3/8	150	10 (14)	50 (68)	16	92	10	1 3/16 (30.2)	25/32 (19.8)	10 (254)	2 5/8 (1.2)
TG069	RP9430	1/2	150	10 (14)	50 (68)	16	92	10	1 3/16 (30.2)	25/32 (19.8)	10 (254)	2 5/8 (1.2)

Noise levels are @ 1.0 m per Pneurop Standard 8N-1. Vibration levels are per ISO 8662-1.
For initial loosening and final tightening, apply torque by hand, not to exceed 30 ft-lbs. (41 Nm)

LIGHTWEIGHT, HEAVY DUTY, MAGNESIUM IMPACT WRENCHES

- Lightweight, high power, low noise
- Composite body & magnesium clutch housing
- Great durability and power
- 3 forward power settings



Order No.	TLZ320	TLZ321	TLZ322	TLZ323
MFG No.	RP8222	RP8242	RP8252	RP8272
Square drive	3/8"	1/2"	1/2"	3/4"
Socket retainer	Friction ring	Friction ring	Friction ring	Friction ring
Clutch Type	Twin hammer	Twin hammer	Twin hammer	Twin hammer
Torque working	184-295 ft-lbs.	184-295 ft-lbs.	220-590 ft-lbs.	100-960 ft-lbs.
Torque max.	331 ft-lbs.	479 ft-lbs.	775 ft-lbs.	1217 ft-lbs.
Length	6.96"	6.96"	7.87"	9.05"
Weight	2.53 lbs.	2.64 lbs.	4.4 lbs.	7.16 lbs.
Air Flow	32 CFM	32 CFM	28.8 CFM	48 CFM
Air Inlet	1/4" NPTF	1/4" NPTF	1/4" NPTF	3/8" NPTF
Air Hose Bore	3/8"	3/8"	3/8"	1/2"
Sound Level	89 dBA	89 dBA	94 dBA	96 dBA
Sound Power	100 dBA	100 dBA	105 dBA	107 dBA
Vibration Level	3.9 m/s ²	3.9 m/s ²	7.9 m/s ²	9 m/s ²

1" IMPACT WRENCH

Standard duty for use in steel erection, heavy assembly/disassembly, maintenance/repair, and construction

- Teasing throttle
- Rocking dog clutch
- Closed-grip inside trigger
- 6" extended shank
- 1/2" (NPTF) air inlet thread
- 1/2" min. hose size
- Socket pin and retaining ring



Order No.	TG063
MFG No.	RP9852
Square drive	1"
Socket retainer	Hole for socket pin
Clutch Type	Rocking clutch
Torque working	150-900 ft-lbs.
Torque max.	1400 ft-lbs.
Length	15.5"
Weight	27 lbs.
Air Flow	40 CFM
Air Inlet	1/2" NPTF
Air Hose Bore	1/2"
Sound Level	110 dBA
Sound Power	121 dBA
Vibration Level	4.3 m/s ²



SANDERS

RANDOM ORBITAL SANDER

Use the orbital motion for fine finishing; rotary motion for rapid material removal.

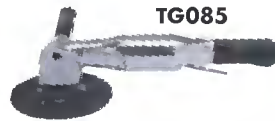
- Balanced counterweight design
- Heavy-duty bearing construction
- Cross-bolt-style hub mounting
- 1/4" (NPTF) air inlet thread
- 3/8" min. hose size

Order No. THZ713



SANDERS

For use in a variety of sanding, blending and smoothing operations in the appliance, construction, shipyard and electronics industries or wherever metal or fiberglass is being prepared or finished.



MINI ROTARY SANDER

- Ideal for small work area
- Adjustable speed regulator
- Through-handle exhaust
- Directs exhaust air away from the operator/workpiece
- Match the speed to the job

Order No. TG086



TG086



Order No.	Mfg. No.	Paper Size		Spindle Thread in.	Free Speed RPM	CFM	dBA	Vibration m/s ²	Net Weight	
		In.	mm						lbs.	kg
THZ713	RP9164	6	152	5/16-24	9600	18	90	<2.5	4	1.8
TG085	CP-869-S	7	178	5/8-11	4500	24	89	<2.5	6.5	3.0
TG086	RP9776	3	75	3/8-24	14000	19	77	<2.5	1.5	0.7

Noise levels are @ 1.0 m per Pneurop Standard 8N-1. Vibration levels are per ISO 8662-1.

ANGLE GRINDERS

4" & 5" ANGLE GRINDERS

For cleaning, deburring, blending, and smoothing

- 0.68 HP motor
- Aluminum alloy housing
- Spiral bevel gearing in angle head
- 1/4" (NPTF) air inlet
- 3/8" minimum hose size

Order No. TG080

Order No. TG081



7" ANGLE GRINDER

For cleaning, deburring, blending, and smoothing

- Use with 7", Type 27 grinding wheels
- 1.12 HP motor
- Aluminum alloy housing
- Spiral bevel gearing in angle head
- 3/8" (NPTF) air inlet
- 3/8" minimum hose size

Order No. TKZ804



Order No.	Mfg No.	Wheel Size in. (mm)	Spindle Thread in.	Free Speed RPM	CFM	dBA	Vibration m/s ²	Overall Length Less Guard in. (mm)	Net Weight Less Guard lbs. (kg)
TG080	RP9120	4 (102)	3/8-24	14000	21	84	7.5	9 (229)	4.0 (1.8)
TG081	RP9121	5 (127)	3/8-24	12000	21	84	8.1	9 (229)	4.2 (1.9)
TKZ804	RP9123	7 (178)	5/8-11	7500	33	93	4.2	13 1/8 (333)	6 1/4 (2.84)

Noise levels are @ 1.0 m per Pneurop Standard 8N-1. Vibration levels are per ISO 8662-1.

UTILITY HAMMERS

For light to medium duty chipping, trimming, riveting, cutting, piercing & peening jobs

- Aluminum body
- 2 5/8" stroke (**TG087**), 3 1/2" stroke (**TG088**)
- Piston air-cushioned on return stroke
- 1/4" (NPTF) air inlet
- 3/8" minimum air hose size

Order No. TG087

Order No. TG088



TG087



TG088



Order No.	MFG No.	Capacity Cold Rivets in. (mm)		Bore and Stroke in. (mm)	Blows per Minute	Rivet Set and Chisel Shank	Air Consump. CFM	Noise Level dBA	Vibration m/s ²	Overall Length in. (mm)	Net Weight lbs. (kg)
		Dural	Steel								
TG087	RP9311	1/4 (6.4)	3/16 (4.8)	3/4 x 2 5/8 (19 x 67)	3000	.401 (10.19 mm) Type 1	25	100	8.9	6 3/4 (171)	3 1/2 (1.6)
TG088	RP9315	5/16 (7.9)	1/4 (6.4)	3/4 x 3 1/2 (19 x 89)	2300	.401 (10.19 mm) Type 1	25	100	9.4	8 7/8 (225)	4.2 (1.9)

Noise levels are @ 1.0 m per Pneurop Standard 8N-1. Vibration levels are per ISO 8662-1.



WELD FLUX CHIPPER & NEEDLE SCALER

- For removing rust, scale, paint & medium duty weld flux removal
- Simple plate valve design allows for smooth throttling
- Heat-treated piston, cylinder sleeve and chisel bushing for long life
- Removal of needle attachment converts tool to a weld flux chipper
- **Kit Includes:**
 - 1 x Tool Body
 - 1 x 19 needles
 - 1 x 35mm chisel

Order No.
MFG No.
Bore
Blows per minute
Shank
Length
Weight
Air Flow
Min. Hose Size
Air Inlet
Sound Level
Sound Power
Vibration Level

TLZ158
RP9538
1 1/8"
4600 BPM
1/2 sq.in.
18"
6.2 lb
15.5 CFM
3/8"
1/4" NPT
99 dBA
110 dBA
9.7 m/s²



SPECIALTY TOOLS

AIR SHEAR FOR CUTTING SQUARES & ANGLES IN ALUMINUM, TIN & STEEL

- Cuts up to 18 gauge steel
- Powerful 1/2 HP motor
- Triple idler planetary gears
- Ergonomic handle design
- 1/4" (NPTF) air inlet

Order No. TG096



Chicago Pneumatic™



TG096

HEAVY-DUTY RECIPROCATING SAW FOR CUTTING PLASTIC, FIBREGLASS, & METAL UP TO 16 GAUGE

- Ergonomic rubber grip
- Heavy-duty construction
- Lock-off throttle
- Universal saw blade holder
- 1/4" (NPTF) air inlet
- 3/8" minimum hose size

Order No. TG097



TG097

Order No.	MFG No.	Strokes per Minute	Capacity Steel	Air Consumption CFM	Noise Level dBA	Vibration m/s ²	Overall Length in. (mm)	Net Weight lbs. (kg)
TG096	CP785-S	2400	18 gauge	12	87	4	8 1/4 (210)	2 1/2 (1.1)
TG097*	RP9881	5000	16 gauge	27	81	<2.5	10 1/2 (268)	2.2 (1)

Noise levels are @ 1.0 m per *Pneurop* Standard 8N-1. Vibration levels are per ISO 8662-1.

*Standard equipment: saw blade, 24 teeth per in.



Professional Welding Products





SCOTCH-BRITE EXL™ ROLOC™ UNITIZED WHEELS

- Strong, efficient products for edge deburring and finishing
- Used with 3M Roloc+ holder pads on a straight shaft or right angle tool



Order No.	MFG No.	Grit	Finish	Size"	Max. RPM	Qty /Pkg.
NW069	17190	6A	Medium	2	22100	60
NW070	17185	2A	Medium	2	22100	60
NW071	17183	2S	Fine	2	22100	60
NW072	17191	6A	Medium	3	15100	40
NW073	17186	2A	Medium	3	15100	40
NW074	17184	2S	Fine	3	15100	40
Order No.	MFG No.	Description	Size"	Max. RPM		
NW075	07500	Roloc+ holder	1 x 1/4	25000		

SCOTCH-BRITE™ DISCS

- Surface conditioning non-woven web
- Removes grind marks,



Order No.	MFG No.	Dia."	Grit	Colour	Qty /Pkg.
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ROLOC™ (PLASTIC BUTTON)

BP396	05528	2	Coarse	Brown	50
BP397	05527	2	Medium	Maroon	50
BP398	05523	2	Very Fine	Blue	50
BP400	05532	3	Coarse	Brown	25
BP401	05531	3	Medium	Maroon	25
BP403	05530	3	Very Fine	Blue	25

ROLOC™ TSM (METAL BUTTON)

BP404	25765	2	Coarse	Brown	50
BP405	25764	2	Medium	Maroon	50
BP406	25770	2	Very Fine	Blue	50
BP407	25767	3	Coarse	Brown	25
BP408	25766	3	Medium	Maroon	25
BP409	25780	3	Very Fine	Blue	25

ROLOC™ DISC PADS

Pads are internally threaded to receive any standard 1/4"-20 thread shaft.



Order No.	MFG No.	Size"	Max. RPM	Hardness
BP008	45095-4	2	25000	Medium
BP005	45096-1	2	25000	Hard
BP009	45092-3	3	18000	Medium
BP006	45091-6	3	20000	Hard

ROLOC™ TSM DISC PADS

For use with Roloc™ TSM grinding discs and screw on abrasive discs.



Order No.	MFG No.	Size"	Max. RPM	Hardness
BP517	14211-8	2	25000	Medium
BP516	14212-5	2	25000	Hard
BP519	14215-6	3	18000	Medium
BP518	14216-3	3	20000	Hard

1/4" THREADED SHAFT

Needed with all Roloc™ disc pads

Order No. BP013 Mfg No. 45102-9

SCOTCH-BRITE™ SURFACE CONDITIONING DISCS



Hook & Loop

Scotch-Brite™ surface conditioning discs are best for finishing, cleaning and light deburring on flat metal surfaces. Attach and remove easily to 3M hook & loop back up pads.



Used with the following hand tools:

- Right angle • Random orbital • Dual action

Order No.	MFG No.	Dia."	Grit	Colour	Max. RPM	Qty /Pkg.
BP357	07458	2	Coarse	Brown	23000	50
BP359	07459	2	Medium	Maroon	23000	50
BP362	04276	2	Very Fine	Blue	23000	50
BP363	04120	3	Coarse	Brown	20000	25
BP365	04124	3	Medium	Maroon	20000	25
BP367	04277	3	Very Fine	Blue	20000	25
BP376	15007	4	Coarse	Brown	13000	10
BP378	15008	4	Medium	Maroon	13000	20
BP380	15009	4	Very Fine	Blue	13000	20
BP369	27671	4 1/2	Coarse	Brown	13000	10
BP371	27672	4 1/2	Medium	Maroon	13000	20
BP374	27673	4 1/2	Very Fine	Blue	13000	20
BP381	27674	5	Coarse	Brown	10000	10
BP383	27675	5	Medium	Maroon	10000	10
BP386	27676	5	Very Fine	Blue	10000	10
BP388	27677	7	Coarse	Brown	6000	10
BP390	27678	7	Medium	Maroon	6000	10
BP392	27679	7	Very Fine	Blue	6000	10

SCOTCH-BRITE™ COATING REMOVAL DISCS

Made for right angle tools from aggressive Clean & Strip web. Non-loading designs ideal for removing rust and coatings.

- Hook & loop backing easily attaches to 3M disc pad holder
- Silicon carbide - extra coarse



Order No.	MFG No.	Dia."	Grit	Max. RPM	Qty /Pkg.
BP272	18424	4 1/2	Extra coarse	12000	4
BP274	18355	5	Extra coarse	10000	4
BP275	18358	7	Extra coarse	6000	2

HOOK & LOOP DISC PAD HOLDERS

For use with 3M Scotch-Brite™ surface conditioning and coating removal discs.

Order No.	MFG No.	Size"	Shank"	Max. RPM
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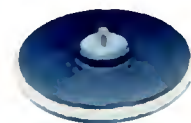
SHANK MOUNTED DISC PAD HOLDERS

BP207	922	2	1/4	23000
BP208	923	3	1/4	20000
BP209	924	4	1/4	13000
BP206	905	5	5/16-24	10000
BP210	945	5	5/16-24	12000

HUB MOUNTED DISC PAD HOLDERS

BP199	5674	4	5/8 - 11	13000
BP200	5677	4	M14 x 2.0	13000
BP201	14111	4-1/2	5/8 - 11	13000
BP202	5680	5	5/8 - 11	10000
BP204	9450	7	5/8 - 11	6000

BP206



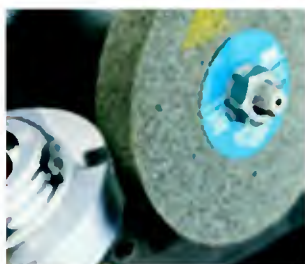
BP199





SCOTCH-BRITE™ EXL DEBURRING WHEELS

Use to clean, finish, blend, deburr or polish all types of metals, composites and glass.



Order No.	MFG No.	Grit	Finish	Size"	Max. RPM	Qty /Pkg.
BP694	13616	8A	Medium	6 x 1/2 x 1	6000	4
BP695	09548	8S	Fine	6 x 1/2 x 1	6000	4
BP696	05790	9S	Fine	6 x 1/2 x 1	6000	4
BP690	13617	8A	Medium	6 x 1 x 1	6000	3
BP692	09549	8S	Fine	6 x 1 x 1	6000	3
BP693	05132	9S	Fine	6 x 1 x 1	6000	3
BP697	13619	8A	Medium	8 x 1 x 3	4500	3
BP698	09551	8S	Fine	8 x 1 x 3	4500	3
BP700	05135	9S	Fine	8 x 1 x 3	4500	3
BP704	13620	8A	Medium	8 x 2 x 3	4500	2
BP705	09552	8S	Fine	8 x 2 x 3	4500	2
BP706	05136	9S	Fine	8 x 2 x 3	4500	2

SCOTCH-BRITE™ BRISTLE DISC

- 4 1/2" bristle discs with 5/8"-11 threaded hub
- Same safety and efficiency benefits as other bristle discs but in a right angle grinder configuration
- Ideal for cleaning, delaminating, removing rust and oxidation, and deburring a variety of hard and soft metals and plastics
- All discs have a maximum operating speed of 12,000 RPM



Order No.	MFG No.	Size"	Grit	Colour	Qty /Pkg.
VV392	33054	4 1/2	36	Brown	10
BP079	24241	4 1/2	50	Green	10
BP080	24242	4 1/2	80	Yellow	10
BP078	24243	4 1/2	120	White	10

SCOTCH-BRITE™ SURFACE CONDITIONING FILE BELTS

Premium Scotch-Brite™ surface conditioning non-woven web.

- Designed for:**
- Cleaning
 - Finishing
 - Light deburring



Recommended operating speeds:

Generally, low speeds are recommended for generating very uniform satin finishes, finishing aluminum alloys without lubricants and woodworking applications. Higher speeds are recommended when removing imperfections prior to buffing. High belt speed will result in faster cut along with finer finishes.



Application	Recommended SFPM*
Decorative finishing	500-3000
Wood sanding	1200-2700
Deburring	5000-6500
Cleaning and conditioning	2000-5000
Oxide removal	4500-6500

*Surface Feet Per Minute

Order No.	MFG No.	Size"	Colour	Finish
BP069	13287	1/4 x 24	Blue	Very fine
BP068	13131	1/4 x 24	Maroon	Medium
BP067	13132	1/4 x 24	Brown	Coarse
BP063	69506	1/2 x 18	Blue	Very fine
BP062	69507	1/2 x 18	Maroon	Medium
BP061	8858	1/2 x 18	Brown	Coarse
BP066	69500	1/2 x 24	Blue	Very fine
BP065	69501	1/2 x 24	Maroon	Medium
BP064	5741	1/2 x 24	Brown	Coarse
BP076	69508	3/4 x 18	Blue	Very fine
BP075	15899	3/4 x 18	Maroon	Medium
BP074	69509	3/4 x 18	Brown	Coarse
BP060	69510	1 x 48	Blue	Very fine
BP073	00583	3 x 24	Maroon	Medium
BP072	69505	3-1/2 x 15	Grey	Super fine
BP059	69504	3-1/2 x 15	Blue	Very fine
BP071	69502	3-1/2 x 15	Maroon	Medium
BP070	69503	3-1/2 x 15	Brown	Coarse

SCOTCH-BRITE™ CLEAN & STRIP DISCS

(SILICON CARBIDE - EXTRA COARSE)

- Tough open web ideal for weld cleaning, paint and coatings removal
- Faster and safer than wire brushes



Original Discs



XT Discs



Order No.	MFG No.	Size"	Qty /Pkg.
BP253	07460	4 x 1/4	30
BP252	69413	4 x 1/2	20
BP254	69414	6 x 1/2	20
BP255	69416	8 x 1/2	12

CLEAN 'N' STRIP XT DISCS

BP250	27657	4 x 1/4	25
BP251	25790	6 x 1/2	15

MANDRELS

- Furnished complete with washers to fit available disc sizes



Order No.	MFG No.	Size"
BP502	933	2
BP503	934	3-1/16

BP503



SCOTCH-BRITE™ HAND PADS & ROLLS

Hand pads and rolls provide flexibility in hand and power tool surface conditioning and finishing.

HAND PADS

- Excellent products for hand finishing, polishing, cleaning, blending, deburring of wood, metals and composites
- Ideal for wood finishing, paint preparation and general cleaning
- 6" x 9" sheets (BP493 is 4" x 6")
- Can be used dry or with water or solvents

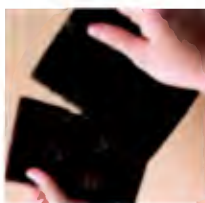


Order No.	MFG No.	Type of Pad	Colour	Finish	Qty /Pkg.
BP493	5440	Ultra Heavy-duty	Tan	Coarse	40
BP486	7440B	Heavy-duty	Tan	Coarse	40
BP482	7446B	Blending	Grey	Medium	40
BP484	7447B	General purpose	Maroon	Very Fine	60
BP492	7448B	Ultra fine	Light Grey	Ultra fine	60
BP488	7445B	Cleaning	White	Cleaning	60
NC871	H-96-6x9	General purpose #96	Green	Scouring	60

PRODUCTION HAND PADS

- Higher rate of cut, longer life and better finish
- Use on aluminum, stainless steel, plastics, wood and fibreglass
- Ideal for paint preparations, surface blending and scuffing
- Comes in 6" x 9" pads which tear easily into 4-1/2" x 6" sheets

Order No. BP490 MFG No. 8447B



CLEAN & FINISH ROLLS

- Used for final hand cleaning, blending and finishing
- Can be cut to desired length for oscillating sanders



Order No.	MFG No.	Size	Colour	Finish	Qty /Pkg.
BP604	00264	4" x 30"	Maroon	Medium	3
BP612	00274	6" x 30"	Maroon	Medium	2
BP603	00265	4" x 30"	Maroon	Fine	3
BP611	00275	6" x 30"	Maroon	Fine	2
BP605	00266	4" x 30"	Maroon	Very fine	3
BP609	00270	4" x 30"	Grey	Very fine	3
BP613	00276	6" x 30"	Maroon	Very fine	4
BP608	69006	4" x 30"	Grey	Ultra fine	3
BP607	69009	4" x 30"	Grey	Super fine	5
BP606	69010	4" x 30"	White	Cleaning	3

CUT 'N POLISH ROLLS

- Outlast and outperform emery cloth and utility rolls around angles, corners, odd shapes, and inside/outside diameters
- Used for general cleaning, deburring of strapping pipe prior to soldering or welding
- Tan colour and medium finish



Order No. BP614 1" x 30' Roll MFG No. 69014

Order No. BP615 2" x 30' Roll MFG No. 69015

SHEET ROLLS

- Tough, highly flexible, sharp cutting abrasive
- High flexibility makes for easy cleaning and finishing surfaces by hand
- 8" x 4" sheets come packaged in rolls of 60 sheets
- Purple colour sheets provide a Very fine finish, and grey sheets provide an Ultra fine finish



Order No. BP001

Very Fine Roll
MFG No. 07521

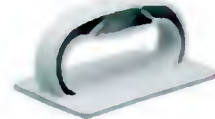
Order No. BP002

Ultra Fine Roll
MFG No. 07522

HAND PAD HOLDER

- Used with Scotch-Brite™ hand pads and roll material cut to 4" x 6" size

Order No. BP500
MFG No. 961



MINI-MANDREL

- Use with 1" x 1-1/2" Scotch-Brite™ material to fit tight areas
- Mandrel is 2-7/8" long with a 1/4" shank

Order No. BP504
MFG No. 935



SANDING SPONGES

- Sponges form perfectly to corners, contours and flat surfaces
- Can be used on all surfaces, from wood, metal and plastic, to coated or painted surfaces
- Sponges are all 4 1/2" x 5 1/2" in size and have a soft sponge in the centre

Order No.	MFG No.	Grit	Qty /Pkg.
BP629	03808	Medium	20
BP628	03809	Fine	20
BP630	03810	Super Fine	20



COMBI WHEELS

- Made of alternating flaps of coated abrasive and Scotch-Brite™ web
- Aggressive cuts and fine finishes



Order No.	MFG No.	Size"	Grit	Max. RPM
NW066	80801	3 x 1-3/4 x 1/4	80	8000
NW067	80678	3 x 1-3/4 x 1/4	P120	8000
NW068	80799	3 x 1-3/4 x 1/4	P180	8500

SCOTCH-BRITE™ FLAP BRUSHES

- Heavy duty brush excellent for removing handling marks and surface imperfections
- Available on 1/4" shaft (CPFB-S) or Roloc+ attachment system (CPFB-R)



CPFB-R & CPFB-S

Order No.	MFG No.	Size"	Max. RPM	Grit	Qty /Pkg.
NW061	16622	2 x 1 x 1/4	12,000	Medium	5
NW062	14588	3 x 1-3/8	8,000	Medium	5
BP446	05974	3 x 1-3/4 x 1/4	8,500	Medium	10

CFFB-R & CFFB-S

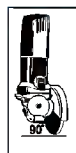
- Ideal for decorative finishes and light deburring applications
- Available on 1/4" shaft (CFFB-S) or Roloc+ attachment system (CFFB-R)

Order No.	MFG No.	Size"	Max. RPM	Grit	Qty /Pkg.
NS702	14587	3 x 1-3/8	8000	Coarse	5
BP442	05975	3 x 1-3/4 x 1/4	8500	Coarse	10
NS701	14781	3 x 1-3/4 x 1/4	8500	Fine	5



CHARGER RIGHTCUT REINFORCED CUT-OFF WHEELS

- Durable zirconia alumina abrasive
- 3x the life and twice the cut rate of standard wheels
- Good on a broad range of materials, from alloys and stainless to grey iron
- Unique reinforcement design provides safety, strength and straight cut
- Extra thin for a quick cutting action



D" X T" X H"
DIAMETER" X THICKNESS" X HUB HOLE SIZE"

NORTON



Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
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TYPE 1 - CUT-OFF WHEELS FOR RIGHT ANGLE GRINDERS

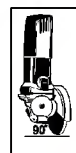
NS200	66252826569	4 1/2	x	1/6	x	7/8	13,580	20
NS201	66252826570	5	x	1/16	x	7/8	12,225	20
NS202	66252826571	6	x	1/16	x	7/8	10,185	20
NS203	66252922675	7	x	1/16	x	7/8	8,730	20

TYPE 27 - DEPRESSED CENTER CUT-OFF WHEELS FOR RIGHT ANGLE GRINDERS

NS072	66252830125	4 1/2	x	1/6	x	7/8	13,580	20
NS005	66252830126	5	x	1/16	x	7/8	12,225	20
NS073	66252830127	6	x	1/16	x	7/8	10,185	20

RIGHTCUT RIGHT ANGLE GRINDER REINFORCED CUT-OFF WHEELS

- Quality aluminum oxide grain provides consistent performance
- Ideal for small jobs on a variety of metal applications from carbon to stainless steel
- Unique reinforced design provides safety, strength and straight cut
- Extra thin, provides a quick cutting action and low kerf lost



NORTON



Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
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TYPE 1 - CUT-OFF WHEELS FOR RIGHT ANGLE GRINDERS

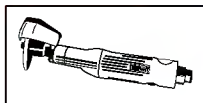
NS004	66252832906	4 1/2	x	3/64	x	7/8	13,580	25
NS207	66252823599	4 1/2	x	3/32	x	7/8	13,580	25
NS003	66252832907	5	x	3/64	x	7/8	12,225	25
NS208	66252823600	5	x	3/32	x	7/8	12,225	25
NS209	66252832908	6	x	3/64	x	7/8	10,185	25
NS210	66252823601	6	x	3/32	x	7/8	10,185	25
NS211	66252832323	7	x	1/16	x	7/8	8,730	25

TYPE 27 - .045" (3/64), 1/16" STEEL/STAINLESS CUTTING

NS093	66252819548	4 1/2	x	3/64	x	7/8	13,580	20
NS094	66252819550	5	x	3/64	x	7/8	12,225	20
NS095	66252819551	6	x	3/64	x	7/8	10,185	20
NS096	66252912626	7	x	1/16	x	7/8	8,600	20

CHARGER REINFORCED CUT-OFF WHEELS

- A unique blend of premium NorZon (zirconia alumina) and aluminum oxide
- Effectively cuts a variety of metals from alloys and stainless to grey iron
- Twice the life of aluminum oxide wheels



NORTON



TYPE 1-CUT-OFF WHEELS

Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
NS146	66243527753	3	x	.035	x	3/8	25,465	25
NS147	66243527755	3	x	1/16	x	3/8	25,465	25
NS148	66243527340	4	x	.035	x	3/8	19,100	25
NS149	66243527388	4	x	1/16	x	3/8	19,100	25
NS150	66243527339	4	x	1/8	x	3/8	19,100	25

DIAMOND SEGMENTED RIM BLADE

- 100 X the life over a conventional abrasive
- High speed blade, dry and wet cutting
- Best suited for medium hard material

Applications: General purpose, masonry, cured concrete, etc.

Order No.	MFG No.	D	x	Size" T	x	H	Qty /Pkg.
NS309	07660702576	12"	x	.110"	x	1"-20 mm	1
NS310	07660702575	14"	x	.110"	x	1"-20 mm	1

NORTON





HIGH-SPEED REINFORCED CUT-OFF WHEELS FOR GAS & ELECTRIC POWERED SAWS

- Metal: Made of versatile aluminum oxide grain
- Ductile: Made of durable silicon carbide and aluminum oxide grain
- Concrete: Made of sharp 24-grit silicon carbide grain
- Type 1



Order No.	MFG No.	Description	D	x	Size T	x	H	Max. RPM	Qty /Pkg.
NS002	70184680310	Metal	12	x	1/8	x	20 mm	6,360	10
NS225	70184680311	Metal	12	x	1/8	x	1	6,360	10
NS001	70184680317	Metal	14	x	1/8	x	20 mm	5,400	10
NS230	70184680318	Metal	14	x	1/8	x	1	5,400	10


NORTON

NORTON® METAL CHOP SAW REINFORCED WHEEL

- Made of quality aluminum oxide abrasives
- Designed for cutting alloys, steels and ferrous metals
- Type 01

Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
NS263	CO14764M	14	x	7/64	x	1	4,365	5


NORTON

CHARGER FLEX A36 WHEELS

- Type 29, aluminum oxide grain
- Excellent for grinding and finishing stainless steel, carbon steel and aluminum
- Cooler operations
- Ideal for getting into tight spaces, prevents loading, smoothing corner and polishing and blending welds

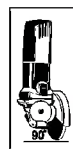
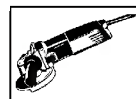
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Order No.	MFG No.	D	x	Size" T	x	H	Qty /Box
NS091	66252833456	5	x	1/8	x	7/8	20
NS092	66252917051	7	x	1/8	x	7/8	20



CHARGER PLUS FAST CUT DEPRESSED CENTER WHEELS

- Clean bond, no sulphur, iron or chlorine
- Zirconia alumina abrasive grain, cool, smooth cutting, performance product for stainless steel and carbon steel



Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
TYPE 27 - 1/8" STAINLESS STEEL CUT/GRIND								
NS063	66243578248	4 1/2	x	1/8	x	7/8	13,580	20
NS064	66243578252	5	x	1/8	x	7/8	12,225	20
NS065	66243578256	6	x	1/8	x	7/8	10,185	20
NS066	66243578240	7	x	1/8	x	7/8	8,600	20
TYPE 27 - 1/4" STAINLESS STEEL GRINDING								
NS043	66243578250	4 1/2	x	1/4	x	7/8	13,580	20
NS038	66243578254	5	x	1/4	x	7/8	12,225	20
NS070	66243578258	6	x	1/4	x	7/8	10,185	20
NS035	66243578242	7	x	1/4	x	7/8	8,600	20


NORTON



NORTON METAL DEPRESSED CENTRE WHEELS

- Quality aluminum oxide abrasive
- Ideal for grinding alloys, metals, steels and ferrous metals

TYPE 27, 1/4" METAL/STEEL GRINDING

Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
NS128	07660775926	4	x	1/4	x	5/8	15,280	10
NS130	07660775922	4 1/2	x	1/4	x	7/8	13,580	10
NS132	07660775918	5	x	1/4	x	7/8	12,225	5
NS134	07660775936	7	x	1/4	x	7/8	8,600	5



GEMINI ALUMINUM OXIDE DEPRESSED CENTRE WHEELS

METAL

- Consistent performance on a variety of metals
- Aluminium oxide grain

Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
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TYPE 27 - .125" STEEL CUTTING

NS101	66252801860	4 1/2	x	0.125	x	7/8	13,580	20
NS102	66252801862	5	x	0.125	x	7/8	12,225	20
NS103	66252900619	7	x	0.125	x	7/8	8,600	20

*These wheels are to be used for cutting only.

TYPE 27 - 1/8" STEEL CUTTING/NOTCHING/LIGHT GRINDING

NS104	66243529686	4	x	1/8	x	3/8	15,280	20
NS105	66243530619	4	x	1/8	x	5/8	15,280	20
NS106	66252830609	4 1/2	x	1/8	x	7/8	13,580	20
NS040	66252830614	5	x	1/8	x	7/8	12,225	20
NS107	66252801864	6	x	1/8	x	7/8	10,185	20
NS108	66252939207	7	x	1/8	x	7/8	8,600	20
NS109	66253048994	9	x	1/8	x	7/8	6,600	20

TYPE 27 - 1/4" METAL/STEEL GRINDING

NS110	66243529748	4	x	1/4	x	3/8	15,280	20
NS111	66243530620	4	x	1/4	x	5/8	15,280	20
NS042	66252830611	4 1/2	x	1/4	x	7/8	13,580	20
NS037	66252830615	5	x	1/4	x	7/8	12,225	20
NS114	66252801865	6	x	1/4	x	7/8	10,185	20
NS116	66252940099	7	x	1/4	x	7/8	8,600	20
NS033	66253049077	9	x	1/4	x	7/8	6,600	20

STAINLESS STEEL

- Exceptional life and cut rate on carbon and stainless steels
- Gemini stainless steel contains no iron, sulphur, chlorine, contaminant free

Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
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TYPE 27 - 3/32" STAINLESS STEEL CUTTING/PIPE

NS097	66252823103	4 1/2	x	3/32	x	7/8	13,580	20
NS098	66252823106	5	x	3/32	x	7/8	12,225	20
NS099	66252832487	6	x	3/32	x	7/8	10,185	20
NS100	66252914638	7	x	3/32	x	7/8	8,600	20

TYPE 27 - 1/4" STAINLESS STEEL GRINDING

NS117	66252819567	4 1/2	x	1/4	x	7/8	13,580	20
NS118	66252819570	5	x	1/4	x	7/8	12,225	20

ALUMINIUM

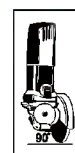
- Contains no wax or rubber fillers, grinds aluminum and soft metals without loading

Order No.	MFG No.	D	x	Size" T	x	H	Max. RPM	Qty /Pkg.
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TYPE 27 - 1/8", 1/4" ALUMINUM GRINDING/BLENDING

NS119	66243529741	4	x	1/4	x	5/8	15,280	20
NS120	66252819554	4 1/2	x	1/8	x	7/8	13,580	20
NS121	66252830627	4 1/2	x	1/4	x	7/8	13,580	20
NS122	66252823273	5	x	1/4	x	7/8	12,225	20
NS123	66252940516	7	x	1/4	x	7/8	8,600	20

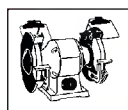
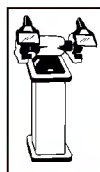
D" X T" X H"
DIAMETER" X THICKNESS" X HUB HOLE SIZE"





BENCH & PEDESTAL ALUMINUM OXIDE WHEELS FOR STEEL APPLICATIONS

- General purpose
- Quality, grey aluminum oxide for metal
- Each wheel contains a nested bushing which accommodates a wide variety of standard arbor sizes



Order No.	MFG No.	Description	Size" D x T x H	Max. RPM	Qty /Pkg.
NS320	66252836132	Coarse	6 x 1/2 x 1	4,140	1
NS321	66252836131	Medium	6 x 1/2 x 1	4,140	1
NS322	66252836133	Fine	6 x 1/2 x 1	4,140	1
NS323	66252837103	Coarse	6 x 3/4 x 1	4,140	1
NS324	66252837102	Medium	6 x 3/4 x 1	4,140	1
NS325	66252837101	Fine	6 x 3/4 x 1	4,140	1
NS326	66252837958	Coarse	6 x 1 x 1	3,600	1
NS327	66252837957	Medium	6 x 1 x 1	3,600	1
NS328	66252837100	Fine	6 x 1 x 1	3,600	1
NS329	66252942292	Coarse	7 x 1 x 1	3,600	1
NS330	66252942294	Medium	7 x 1 x 1	3,600	1
NS331	66252942295	Fine	7 x 1 x 1	3,600	1
NS332	66253042315	Coarse	8 x 3/4 x 1	3,600	1
NS333	66253042316	Medium	8 x 3/4 x 1	3,600	1
NS334	66253042317	Fine	8 x 3/4 x 1	3,600	1
NS335	66253044454	Very Coarse	8 x 1 x 1	3,600	1
NS336	66253044449	Coarse	8 x 1 x 1	3,600	1
NS337	66253044448	Medium	8 x 1 x 1	3,600	1
NS338	66253044447	Fine	8 x 1 x 1	3,600	1
NS339	66253160788	Very Coarse	10 x 1 x 1 1/4	2,485	1

Order No.	MFG No.	Description	Size" D x T x H	Max. RPM	Qty /Pkg.
NS340	66253160787	Coarse	10 x 1 x 1 1/4	2,485	1
NS341	66253160789	Medium	10 x 1 x 1 1/4	2,485	1
NS342	66253160350	Fine	10 x 1 x 1 1/4	2,485	1
NS343	66253161250	Coarse	10 x 1 1/4 x 1 1/4	2,485	1
NS344	66253161251	Medium	10 x 1 1/4 x 1 1/4	2,485	1
NS345	66253161393	Coarse	10 x 1 1/2 x 1 1/4	2,485	1
NS346	66253161395	Medium	10 x 1 1/2 x 1 1/4	2,485	1
NS347	66253263052	Coarse	12 x 1 1/2 x 1 1/2	2,070	1
NS348	66253263053	Medium	12 x 1 1/2 x 1 1/2	2,070	1
NS349	66253263054	Very Coarse	12 x 2 x 1 1/2	2,070	1
NS350	66253263055	Coarse	12 x 2 x 1 1/2	2,070	1
NS351	66253263056	Medium	12 x 2 x 1 1/2	2,070	1

MERIT POWERFLEX

- High performance zirconia alumina grains with a phenolic resin back
- Type 29 offers an increased area of contact
- High density provides 50% more usable abrasives than regular Powerflex disc
- Provides a quick grind with less heat to produce a higher quality finish

Regular Density



High Density



MERIT

Type 29



Order No.	MFG No.	Grit	Size	Max. RPM	Qty/Pkg.
TYPE 27 - HIGH DENSITY					
BY545	08834190172	40	4 1/2 x 7/8 13 300	10	
BY554	08834190767	60	4 1/2 x 7/8 13 300	10	
BY963	08834194360	80	4 1/2 x 7/8 13 300	10	
NT675	08834190074	40	5 x 7/8 12 000	10	
NT676	08834190376	60	5 x 7/8 12 000	10	
NT677	08834192269	80	5 x 7/8 12 000	10	
TYPE 29 - REGULAR DENSITY					
BY886	08834193723	24	4 1/2 x 7/8 13,300	10	
BY806	08834193633	36	4 1/2 x 7/8 13,300	10	
BY814	08834193647	40	4 1/2 x 7/8 13,300	10	
BY807	08834193634	60	4 1/2 x 7/8 13,300	10	
BY808	08834193635	80	4 1/2 x 7/8 13,300	10	

Order No.	MFG No.	Grit	Size	Max. RPM	Qty/Pkg.
TYPE 29 - REGULAR DENSITY					
BY815	08834193648	120	4 1/2 x 7/8 13,300	10	
BY887	08834193724	24	5 x 7/8 12,000	10	
BY816	08834193649	36	5 x 7/8 12,000	10	
BY817	08834193650	40	5 x 7/8 12,000	10	
BY818	08834193651	60	5 x 7/8 12,000	10	
BY819	08834193652	80	5 x 7/8 12,000	10	
BY820	08834193653	120	5 x 7/8 12,000	10	

MERIT RESIN BOND CLOTH ROLLS

Order No.	MFG No.	Grit
1" X 50 YDS.		
BQ056	91302	40
BQ057	91303	50
BQ058	91304	60
BQ059	91305	80
BQ060	91306	100
BQ061	91307	120
BQ062	91307	150
BQ063	91307	180

Order No.	MFG No.	Grit
1 1/2" X 50 YDS.		
BQ067	91317	40
BQ068	91318	50
BQ069	91319	60
BQ070	91320	80
BQ071	91321	100
BQ072	91322	120
BQ073	91323	150
BQ074	91324	180

Order No.	MFG No.	Grit
2" X 50 YDS.		
BQ078	91332	40
BQ079	91333	50
BQ080	91334	60
BQ081	91335	80
BQ082	91336	100
BQ083	91337	120
BQ084	91338	150
BQ085	91339	180

MERIT





CORA FX377 CERAMIC COATED ALUMINUM OXIDE DISCS FOR STAINLESS STEEL

- Ceramic coated aluminum oxide grain with a supersize to reduce heat on point of contact
- Fast initial cut rate and longer life, especially on stainless steel and similar material

Order No.	MFG No.	Grit	Size"	Max. RPM
NS527	63642594259	36	4 1/2 x 7/8	25
NS528	63642594325	50	4 1/2 x 7/8	25
NS529	63642594330	60	4 1/2 x 7/8	25
NS530	63642594333	80	4 1/2 x 7/8	25
NS531	63642594334	120	4 1/2 x 7/8	25
NS532	63642594335	36	5 x 7/8	25
NS533	63642594343	50	5 x 7/8	25
NS534	63642594348	60	5 x 7/8	25
NS535	63642594349	80	5 x 7/8	25



Order No.	MFG No.	Grit	Size"	Max. RPM
NS536	63642594350	120	5 x 7/8	25
NS537	63642594351	36	7 x 7/8	25
NS538	63642594352	50	7 x 7/8	25
NS539	63642594353	60	7 x 7/8	25
NS540	63642594354	80	7 x 7/8	25
NS541	63642594355	120	7 x 7/8	25

ZIRCONIA ALUMINA

- High-performance disc with fast cut rate
- Superior product for heavy weld and metal grinding
- Cool grinding action that reduces glazing and loading
- Excellent for stainless steel applications
- Discs also available with individual quick-change hub



Order No.	Size"	Grit
BZ560		24
BZ561		36
BZ562	4 1/2 x 7/8	50
BZ563		60
BZ564		80
BZ577		24
BZ578		36
BZ579	5 x 7/8	50
BZ580		60
BZ581		80

Order No.	Size"	Grit
BZ582		24
BZ583		36
BZ584	7 x 7/8	50
BZ585		60
BZ586		80

MERIT

AIR COOLED RUBBER BACK-UP PADS

- Slotted aluminum hub design draws cool air behind the disc
- Curved ribs on the rubber face force heat away from the disc and back-up pad
- Cooler cutting action reduces disc loading and increases grinding life
- Use with **FX377** discs or *Merit* zirconia alumina disc

SPIRAL COOL BACK-UP PADS & ACCESSORIES

Order No.	Dia"
BZ056	4 1/2
BZ053	5
BZ054	7
BZ055	9
BZ052	Disc pad nut 5/8"-11
BY731	Spanner wrench fits 5/8" & 3/8"

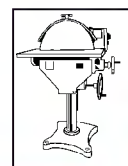


MERIT

METALITE R228 DISCS

- Premium aluminum oxide abrasive
- Long life, versatile
- Heavy, X-weight cotton backing provides durability and resistance to heat
- Ideal for aggressive stock removal application

Order No.	MFG No.	Grit	Size"	Qty/Pkg.
NZ077	66261136635	36	12	25
NZ078	66261136630	40	12	25
NZ079	66261136625	50	12	25
NZ080	66261136620	60	12	25
NZ081	66261136615	80	12	25
NZ082	66261136614	100	12	25
NZ083	66261136613	120	12	25
NZ089	66261136700	36	16	25
NZ090	66261136685	40	16	25
NZ091	66261136684	50	16	25
NZ092	66261136683	60	16	25
NZ093	66261136701	80	16	25
NZ094	66261136720	36	18	25
NZ095	66261136696	60	18	25
NZ096	66261136723	80	18	25
NZ097	66261136710	36	20	25



Order No.	MFG No.	Grit	Size"	Qty/Pkg.
NZ098	66261136709	40	20	25
NZ099	66261136711	50	20	25
NZ100	66261136712	60	20	25
NZ101	66261136706	80	20	25
NZ102	66261136718	36	24	10
NZ103	66261136717	40	24	10
NZ104	66261136725	50	24	10
NZ105	66261136726	60	24	10
NZ106	66261136727	80	24	10



NO-FIL A275 PAPER SHEETS

- Premium P-graded, offers a superior life, fast cut rate and consistent finish
- Flexible, can be used wet
- No colour transfer to work
- Water-based stearate, non pigmented; no fil coating provides maximum load resistance and extended life

Order No.	MFG No.	Grit	Size"	Qty/Pkg.
NZ431	66261131634	80	9 x 11	50
NZ432	66261131633	100	9 x 11	100
NZ433	66261131632	120	9 x 11	100
NZ434	66261131631	150	9 x 11	100
NZ435	66261131630	180	9 x 11	100
NZ436	66261131629	220	9 x 11	100
NZ437	66261131628	240	9 x 11	100
NZ438	66261131627	280	9 x 11	100

NORTON



Order No.	MFG No.	Grit	Size"	Qty/Pkg.
NZ439	66261131626	320	9 x 11	100
NZ440	66261131624	400	9 x 11	100
NZ441	66261131623	500	9 x 11	100
NZ442	66261131622	600	9 x 11	100

BEAR-TEX HAND PADS

- Flexible, gentle action & resilient construction
- Conform to work surface and easily remove flashing or burrs without affecting dimension of work piece
- Non-loading, non-rusting, constant supply of new cutting edges, no workpiece contamination

Order No.	MFG No.	Colour	Description	Abrasive	Grit	Qty /Pkg.
NZ811	66261045600	White	Light-Duty Cleaning Pad	Non-Abrasive	-	60
NZ812	66261063500	Grey	Clean & Finish Pad	Silicon Carbide	Ultra Fine	60
NZ813	66261069600	Light Green	Food Pro Pad	Aluminum Oxide	Very Fine	60
NS046	66261074000	Dark Tan	Heavy-Duty Pad	Aluminum Oxide	Medium	40
NZ814	66261074600	Grey	Metal Blend Pad	Silicon Carbide	Medium	40
NS045	66261074700	Maroon	General Purpose Pad	Aluminum Oxide	Very Fine	60
NZ815	66261074800	Grey	Final Shine Pad	Silicon Carbide	Micro Fine	60
NZ816	66261077700	Maroon	Long Life Pad	Aluminum Oxide	Very Fine	60
NZ817	66261079600	Green	Scouring Pad	Aluminum Oxide	Very Fine	60
NZ818	66261084700	Maroon	General Purpose Perforated Pad	Aluminum Oxide	Very Fine	60
NZ819	66261085100	Grey	General Purpose Pad	Silicon Carbide	Very Fine	40
NZ820	66261047583	-	Hand Pad Holder	-	-	10

NORTON



BEAR-TEX FAST CUT ROLLS

- Premium aluminum oxide grain provides clean cutting and long lasting
- Fast initial cut, less pressure needed
- Improved base adhesion, improved cut rate

Order No.	MFG No.	Colour	Grit	Size
NZ821	66261010081	Tan	Medium	4" x 30'
NZ822	66261051701	Maroon	Very Fine	4" x 30'
NZ823	66261058360	Grey	Very Fine	4" x 30'

NORTON



BEAR-TEX RAPID STRIP DISCS & DEPRESSED CENTER WHEELS

- Open web constructions provides fast cutting action with very little loading
- Follow difficult part profiles, easy cleaning of uneven surfaces
- Thick, strong, synthetic fibres and extra coarse grit
- Quick cleaning and conditioning of surfaces
- Silicon carbide abrasive, extra coarse
- Ideal for surface preparation, conditioning and cleaning, removal of rust, paint, weld spatter, etc.

NORTON

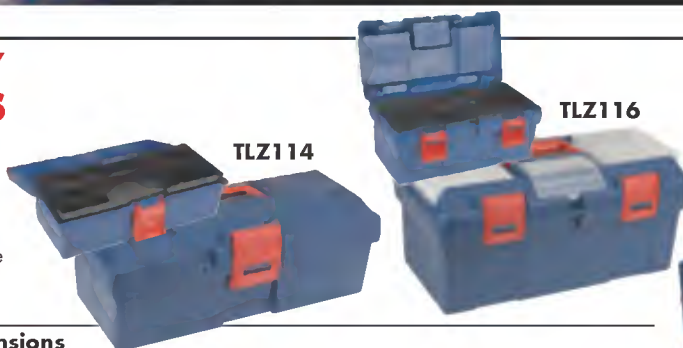
Order No.	MFG No.	Size"	Max. RPM	Qty/Pkg.
TYPE 1 - BEAR-TEX RAPID STRIP DISCS				
NZ842	66261008008	4 x 1/4	8,000	25
NZ843	66261007916	4 x 1/2	8,000	25
NZ844	66261008051	6 x 1/2	5,500	15
TYPE 27 - BEAR-TEX RAPID STRIP CLEANING WHEELS				
NS047	66261009649	4 1/2 x 7/8	11,000	10
NS136	66261009586	7 x 7/8	8,000	10





HEAVY-DUTY TOOL BOXES

- ABS plastic latches
- Heavy-duty polypropylene construction
- Removable inner trays
- Deep storage compartments
- Podlock eye for safe storage



aurora tools



Order No.	Dimensions			Features
	L"	x	D" x H"	
TLZ114	15	x	7 x 5 1/2	1 removable inner tray
TLZ115	17 1/2	x	9 1/2 x 8	2 removable inner trays
TLZ116	17 1/2	x	9 1/2 x 8	2 removable inner trays, 2 parts boxes, 1 organizer
TLZ118	22	x	11 x 10 1/2	1 removable inner tray, 3 organizers
TLZ119	22	x	11 x 14 1/2	1 removable inner tray, 3 organizers, 2 drawers

TRAXX® SERIES TOOL STORAGE

- Sidewall-post construction provides extra rigidity for handling large loads
- Posti-Latch™ system provides a secure latch for each drawer and reduce accidental opening
- Full-extension, ball-bearing drawer slides for complete tool access with a load rating of 75 lbs.
- Positive-stop side handles on all chests enable easy lifting and moving
- Internal keyed locking system secures all drawers and compartment
- Solid 5" x 2" costers with hubcap and reinforced coster channels, load capacity of 1,200 lbs.
- All units come with non-slip drawer liner



WK753

7-YEAR WARRANTY



WK746

WK747

WATERLOO

Order No.	Description	Dimensions			Capacity cu.ft	Wt. lbs.
		W"	x	D" x H"		
WK758	10 drawer chest	51.1	x	17.8 x 19.8	13,564	174
WK759	13 drawer tool cart	51.6	x	20 x 42.5	20,832	309
WK750	11 drawer chest	40.5	x	17.8 x 19.8	10,367	143
WK753	12 drawer tool cart	41	x	18.1 x 41.1	15,961	222
WK746	7 drawer chest	26.1	x	17.8 x 19.8	6,723	94
WK767	3 drawer intermediate chest	26.1	x	17.8 x 13.4	3,402	50
WK747	7 drawer cabinet	26.5	x	18.1 x 41.1	10,722	136

* Accessories available upon request

PROJECT CENTER



- Large moulded top with compartments
- Wraparound bumper provides protection for other surfaces in work shop
- Pegboard sides with four hooks for hanging tools
- Smooth-action full-extension drawer slides
- 4" x 2" costers allow easy manoeuvring
- Five full-width drawers
- 33.7" W x 19.7" D x 34.3" H
- Unit Weight: 83 lbs.
- 1-year warranty

WATERLOO

Order No. NH486

PRO SERIES™ TOOL STORAGE

- Double-wall construction adds an additional layer of steel to ensure longevity under heavy loads
- Full extension smooth-action compound slides allows access to drawer content and holds up to 50 lbs. per drawer
- Reinforced channels on cabinet back panel add strength and rigidity
- Tubular side handles provides a comfortable grip when moving the cabinet
- Heavy duty 5" x 2" costers hold up to 1,200 lbs.

WATERLOO

5-YEAR WARRANTY



Order No.	Description	Dimensions			Capacity cu.ft	Wt. lbs.
		W"	x	D" x H"		
TT070	15-drawer tool cart	41	x	18.1 x 41.1	16,267	231
TT071	10-drawer tool cart	40.95	x	18.06 x 34.65	13,564	172
TT074	12-drawer chest	26.1	x	12.08 x 19.76	4,327	63
TT075	9-drawer cabinet	26.53	x	18.06 x 41.1	10,590	132
TT078	6-drawer drop-front chest	26.1	x	12.17 x 15.44	3,458	63
TT082	4-drawer intermediate chest	26.1	x	12.1 x 12.3	1,929	34
TT079	7-drawer cabinet	26.53	x	18.1 x 41.1	9,588	125
TT080	6-drawer chest	26.1	x	12.1 x 15.4	3,458	45
TT081	3-drawer cabinet	26.5	x	18.1 x 34.7	9,908	83



JOB SITE STORAGE

STORAGEMASTER® CHESTS

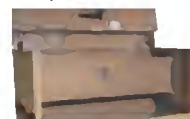
- Watchman® IV deadbolt style Lock System (patent pending)
- Recessed lock housing eliminates the use of bolt cutters from potential thieves
- Ergonomically designed recessed handles
- 16-gauge steel body with fully arc welded seams
- 7-gauge cover tongue provides maximum protection
- Wide end panels resist distortion from pry bars
- Protected dual gas springs allows user one-handed easy opening
- Larger shelves make it more convenient to store large power tools
- Pre-punched holes make it easy to add accessory doors, to protect valuable tools while the chest is open
- 12-gauge coster-ready skids
- Baked-on enamel finish



TTW202

ACCESSORY SHELF DOORS FOR STORAGEMASTER® CHESTS

- Create a controlled, secure area to store valuable items while the storage chest remains open all day on the jobsite
- Prepunched shelves mean no drilling required
- Key included



TTW202 shown with TTW206 accessory shelf door closed

TTW206 accessory shelf door open



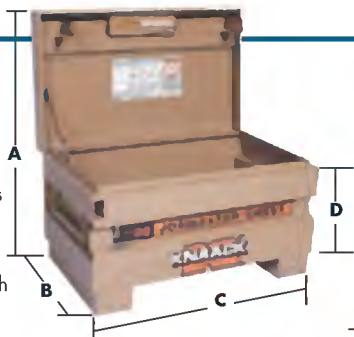
Order No.	MFG No.	A"	B"	C"	D"	E"	Storage Cap. cu.ft.	Wt. lbs.
TTW200	69	66	37	30	60	34	35.3	282
TTW201	79	78	49	30	48	46	38.2	287
TTW202	89	78	49	30	60	46	47.8	337
TTW203	90	78	49	30	72	46	57.5	380
TTW204*	91	78	49	30	72	46	57.5	409

*Unit has a fold down loading ramp

Order No.	MFG No.	Fits Model	Wt. lbs.
TTW205	479	TTW201	20
TTW206	489	TTW202	26
TTW207	491	TTW203, TTW204	30

JOBMASTER® CHESTS

- Watchman® IV deadbolt style Lock System (patent pending)
- Ergonomically designed recessed handles
- 12-gauge coster ready skids
- 16-gauge steel body with fully arc welded seams provides extra strength and weather protection
- Reinforced 7-gauge cover tongue provides maximum protection
- Extra wide reinforcing channel for added strength
- Deeper cover to allow more closing room
- Baked-on enamel finish



ACCESSORY TOOL TRAYS FOR JOBMASTER® CHESTS

Tool trays are designed to suspend across the top of the opening on your Jobmaster® chest. Small tools will not get lost.



Order No.	MFG No.	A"	B"	C"	D"	Closed Height"	Storage Cap. cu.ft.	Wt. lbs.
TTW208	32	34 3/8	19	32	13	18 3/8	5	84
TTW209	36	37 3/8	19	36	16	21 3/8	7	97
TTW210	42	39 3/8	19	42	18	23 3/8	9	114
TTW211	60	49 1/4	24	60	23	28 1/4	20.25	190
TTW212	4824	49 1/4	24	48	23	28 1/4	16	158
TTW213	4830	61 1/4	30	48	29	34 1/4	25.25	194
TTW214	2472	49 1/4	24	72	23	28 1/8	24.5	216

Order No.	MFG No.	Wt. lbs.
8" W x 4" H x 21 5/8" L (fits TTW211, TTW212, TTW214)		
TTW215	21	9
8" W x 4" H x 27 5/8" L (fits TTW213)		
TTW216	31	11
8" W x 4" H x 16 5/8" L (fits TTW208, TTW209, TTW210)		
TTW217	41	7

KNAACK® CLASSIC STORAGE CHESTS

- One time lock install uses a master (No. 5) or equivalent
- Recessed lock housing protects padlock from bolt cutters
- Easy-to-grip recessed side lift handles, even with a glove hand
- Built-in tool tray for better organization of small parts and accessories
- 16-gauge steel construction
- 12-gauge coster ready skids
- Baked-on enamel finish



TTW221



No built-in tool tray in this unit

TTW219

Order No.	MFG No.	A"	B"	C"	D"	Closed Height	Storage Cap. cu.ft.	Wt. lbs.
TTW219	2032	34 5/8	19	32	13	18 1/4	5	77
TTW220	2048	49 1/4	24	48	23	28	16	145
TTW221	3068	37	30	60	22 1/2	-	31	225
TTW222	2060	49 1/4	24	60	23	28	20	180

STORAGEMASTER® MECHANIC'S CHEST



Same quality features as Storagemaster® rolling work benches but with the following features geared toward the mechanic:

- Long-lasting red baked enamel finish
- 6" non-marking polyurethane coster set included
- Recessed lock housing to prevent theft
- Two-point latching on each door for extra security
- Full length staked piano hinges prevent thieves from removing doors
- Heavy-duty 16 gauge construction
- 46 1/4" W x 25" D x 30 3/8" H (37 1/2" H with costers)
- Includes removable worktop mat
- Capacity: 1000 lbs.
- Weight: 352 lbs.

Includes:

- 3 - 1" deep drawers,
- 4 - 2 1/2" deep drawers,
- 1 - 6" deep drawer,
- 1 - 1" deep shelf

Order No. TTW254
MFG No. 63



CHESTS CAN BE TURNED INTO A MOBILE UNIT WITH CASTERS, CALL FOR INFO!

18550E



**Innovative
New
Products!**

WHAT MAKES IT A MONSTER BOX?



Exclusive heavy-duty tubular steel frame, provides structural rigidity and strength and "cops" the lid for more security.



Four-point crane lift system facilitates center-point rigging to hoist more safely than with point/bor lift system providing 2500 lbs. gross weight load capacity.



Integrated recessed lock is the only UL-435 rated drill-resistant, weather-resistant lock in the jobsite storage category, making it virtually impervious to drilling and pry-in.

MONSTER BOX™ PIANO

- Two recessed handles for safe closing
- Gas spring guards protect springs from shifting load damage
- 66" W x 30" D x 54 1/2" H (80" H when opened)
- Storage capacity: 48 cu.ft.
- Weight: 400 lbs.
- Includes: Two shelves and on interior storage grid for hanging safety gear and other items

Order No. TEP062
MFG No. 1000



MONSTER BOX™ CABINET

- Open design, without post for maximum storage and accessibility
- Weather sealed doors for improved weather resistance
- 66" W x 30" D x 54 1/2" H
- Storage capacity: 52 cu.ft.
- Weight: 400 lbs.
- Includes: 4 shelves (bottom two are adjustable)

Order No. TEP064
MFG No. 1020



MONSTER BOX™ CHEST

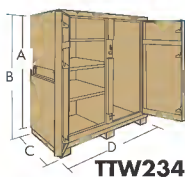
- Deep cover design for strength and security
- Heavy-duty single cover support for easy closing
- 66" W x 30" D x 36" H (58 1/2" H when opened)
- Storage capacity: 31 cu.ft.
- Weight: 285 lbs.

Order No. TEP063
MFG No. 1010

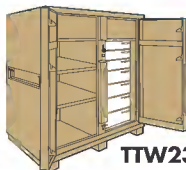


JOBMASTER® CABINETS

- Watchman® IV deadbolt style Lock System (patent pending)
- Recessed lock housing eliminates the use of bolt cutters from potential thieves
- Recessed handles and levers
- Convenient foot latch for handsfree opening
- Adjustable/removable bottom shelf
- 16-gauge formed steel
- Permanent and optional shelves in door allow for more tool organization
- Baked-on enamel finish



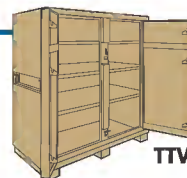
TTW234



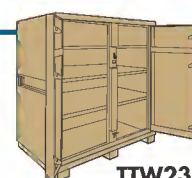
TTW235



TTW239



TTW236



TTW238

Order No.	MFG No.	A"	B"	C"	D"	Storage Cap. cu.ft.	Wt. lbs.
TTW234	111	57	60	24	60	47.5	385
TTW235	112	57	60	30	60	54.9	670
TTW236	109	57	60	24	60	47.5	394
TTW237	139	57	60	30	60	59.4	445
TTW238	99	57	60	30	60	59.4	519
TTW239	129	48	51	24	72	48	452

ROLLING WORK BENCHES

JOBMASTER® Designed for those who need a strong and durable bench with basic storage needs

- Load capacity of 800 lbs.
- Watchman® IV Single Lock System - one-time installation
- Recessed padlock housing helps prevent theft
- Heavy-duty drawers are rated for 50 lbs. and operate on ball bearing slides
- Two 4" swivel casters and two 4" rigid casters included
- Heavy gauge construction and top baked on enamel finish
- Load Capacity: 800 lbs.

Order No. TTW250 MFG No. 40

- Includes two drawers and a full width shelf
- 25" W x 40 3/4" L x 33 1/5" H (37 1/5" H with casters)
- Weight: 210 lbs.

Order No. TTW251 MFG No. 44

- Includes four drawers and a half width shelf
- 25" W x 40 3/4" L x 33 1/5" H (37 1/5" H with casters)
- Weight: 240 lbs.



TTW250

Caution:

Coster brakes are not suitable for keeping the units in place when transporting. Secure by another method. Do not use costers on rough or uneven surfaces Do not tow coster mounted boxes.

WAR WAGON®

- 13 sq.ft. work surface
- Convenient height for attaching vise or pipe threaders
- Six doors, 3 in front, 3 in back for accessibility
- One drawer and two shelf compartments
- Top and bottom panels are 7-gauge (3/16") steel
- Cabinets are 12-gauge, fully arc welded steel
- 62" L x 32" D x 26" H (34" H with casters)
- Load Capacity: 3400 lbs.
- Weight: 597 lbs.

Order No. TTW268
MFG No. 62



Drawer Configuration:

- 2 x **TTW276**, 1" standard-duty drawers
- 1 x **TTW283**, 6" heavy-duty drawer
- 1 x **TTW284**, 9.5" heavy-duty drawer

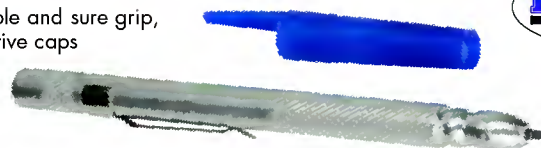




SCRIBES

- Features machined aluminum handles, diamond knurling for comfortable and sure grip, precision ground tungsten carbide scribe tips, pocket clips and protective caps
- Ideal for fine line marking on metal, stone, ceramic and glass, metal fabrication, construction marking, textile marking

Premium Scribe	Replaceable carbide scribe tip
Combo Scribe	Replaceable carbide scribe tip and built-in magnet
Giant Scribe	Extra large scribe handle Perfect for heavy duty scribing Replaceable scribe tip
Econo Scribe	Permanent scribe tip
Econo Scribe & Magnet	Permanent scribe tip and built-in magnet



Order No.	MFG No.	Description
422-1170	KPS	Premium Scribe
422-1110	KCS	Combo Scribe
TTT840	KGS	Giant Scribe
422-1120	KES	Econo Scribe
422-1270	KESM	Econo Scribe and Magnet

UTILITY PICK SETS

- Tempered carbon steel pick tools
- Sharp ends formed for various tasks
- Machined aluminum or plastic handles
- Diamond knurling for comfortable and sure grip
- Ideal for removing O-rings, pulling springs, cotter pins and keys, scribing, punching holes and other utility uses

4-WAY PICK SET

- The original 4-way pick
- Machined aluminum handle with 4 interchanging picks
- Shirt pocket sized carry case

4-PIECE PICK SET

- 4 picks
- Available with a machined aluminum handle or machined plastic handle

Order No.	MFG No.	Description
TTT841	K4WP	4-Way Pick Set
422-1290	K4PS	4-Piece Pick Set w/Machined Aluminium Handles
TTT842	K4PSA	4-Piece Pick Set w/Machined Plastic Handles



UTILITY MIRRORS & MAGNETS

- Viewing or retrieving lost or hidden objects

THINFLEX INSPECTION MIRROR

- Scratch resistant glass mirror, 1.5" x 3"
- Steel mirror casing
- Welded construction
- Machined aluminum handle
- Diamond knurling for comfortable and sure grip
- Reshapeable 18" copper tubing flex shafts for positioning at difficult angles



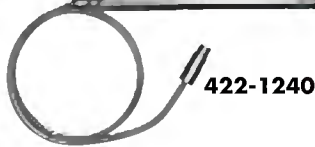
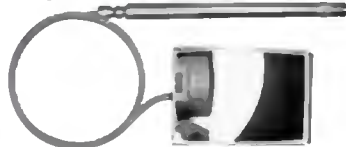
THINFLEX UTILITY MAGNET

- Powerful rare earth magnet lifts up to 2 lbs.
- Diamond knurling for comfortable and sure grip
- Reshapeable 18" copper tubing flex shafts for positioning at difficult angles

POCKET MAGNET

- Powerful rear earth magnet lifts up to 2 lbs.
- Pocket clip
- Diamond knurling for comfortable and sure grip

TTT844



422-1240



TTT845

Order No.	MFG No.	Description
TTT844	KTFG	ThinFlex Inspection Mirror
422-1240	KTFM	ThinFlex Utility Magnet
TTT845	KPM	Pocket Magnet

ECONO DEBURRING TOOL

- Tempered carbon steel swivel blade
- Machined aluminum handles with brass components
- Pocket clips
- Diamond knurling for comfortable and sure grip
- Machined hex aluminum handle
- Ideal for smoothing the inside edges of pipe and tubing and working with metal, plastic and ceramic materials



Order No.	MFG No.	Description
TTT843	KDB	Deburring Tool



INSPECTION MIRRORS

- Facilitate inspection of inaccessible work pieces and machines by toolmakers, assemblers, inspectors and mechanics
- Fully polished mirrors are enclosed in plated holders which are attached to knurled handles with ball and socket joints
- **SC647** and **SC649** have telescoping arms and vinyl cushion grip handles



Order No.	MFG No.	Description	Size"	O.A. Length"
SC646	42467	Round	1 1/4	8
SC647	42480	Round	2 1/4	10 1/2 - 15
SC649	42477	Oblong	3 1/2 x 2	11 1/2 - 16



ELECTRONIC DIGITAL CALIPERS

- Large LCD display provides easy-to-read numbers
- Hardened stainless steel head and body
- Precision adjustments for accurate measurements
- Lock screw to hold slide in position
- Inch/millimetre conversion
- Zero at any position
- Linear accuracy: $\pm .001" / .03 \text{ mm}$
- Includes two 1.5 V batteries
- Deluxe storage case with foam insert
- **THZ768** is resistant to dust, coolant, liquids, oil and water spray

aurora tools



TGZ370



THZ768

Order No.	Description	Size"	Measurement Range	Approx. Jaw Depth Outside" - Inside"
TGZ370	Stainless Steel	6	0-6" / 0-152 mm	1 1/2 - 5/8
TJZ861	Stainless Steel	8	0-8" / 0-200 mm	2 - 3/4
THZ769	Stainless Steel	12	0-12" / 0-305 mm	2 7/8 - 7/8
THZ768	Coolant Proof	6	0-6" / 0-152 mm	1 1/2 - 5/8

INFRARED THERMOMETERS

POCKET-SIZED, EASY-TO-USE DIGITAL INFRARED THERMOMETERS.

- Unique flat surface and modern housing design
- User selectable °F or °C
- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, auto data hold (when trigger released) and auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- 8:1 distance to spot size ratio
- Includes battery and carrying case

Order No.	MFG No.	Measuring Range
HX242	ST-880	-58° to 536°F/-50° to 280°C
HX243	ST-882	-58° to 1022°F/-50° to 550°C

REED



2-PIECE WELD-ON HINGES

- Extremely popular due to its high weight load capacity as well as professional appearance
- Can be painted to match the door and frame
- Ideal for gates, machinery doors, BBQ pits, electrical boxes and trailers
- Can be welded on as a lift-off, or can be permanently mounted
- Choice of 3 types

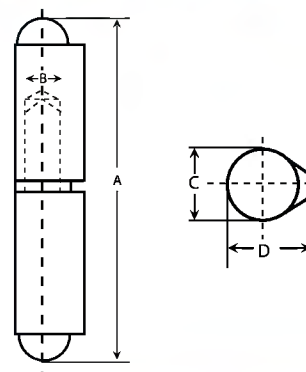
INTERCON ENTERPRISES INC.

Order No.	MFG No.	A Length"	B Pin Dia."	C Outside Dia."	D"
MILD STEEL W/FIXED STEEL PIN & BRASS WASHER					
QN763	FES050	2	3/16	5/16	13/32
QN761	FES080	3 3/16	5/16	1/2	5/8
QN732	FES100	4	13/32	5/8	3/4
QN741	FES150	6	1/2	3/4	1
QN751	FES200	8	5/8	29/32	1 1/8
MILD STEEL W/FIXED STEEL PIN, BRASS WASHER & GREASE FITTING					
TTT529	FES080GF	3 3/16	5/16	1/2	5/8
TTT390	FES100GF	4	13/32	5/8	3/4
TTT391	FES150GF	6	1/2	3/4	1
TTT392	FES200GF	8	5/8	29/32	1 1/8
TTT535	FES260GF	10	3/4	1 1/8	1 3/8
304 STAINLESS STEEL W/STAINLESS STEEL PIN & WASHER					
TTT536	V2A060	2 3/8	1/4	13/32	15/32
TTT537	V2A080	3 3/16	5/16	1/2	5/8
TTT538	V2A100	4	13/32	5/8	3/4
TTT539	V2A150	6	1/2	3/4	1
TTU315	V2A200	8	5/8	29/32	1 1/2



TTT390

QN732





3-PIECE WELDER'S SET

- For professional use, filing metals and other hard materials
- 14"/350 mm half-round pipeliner file
- 12"/300 mm half-round bastard file
- 10"/250 mm mill smooth file
- Complete set of 3 files fits easily and securely into rugged, compact pouch

Order No. TBG945

MFG No. 22036N

Nicholson®



FLAT FILES

Nicholson®



- Used by machinists, machinery builders, ship and engine builders, repairman and others who require rapid removal of metal
- Rectangular in cross section and taper slightly towards point in width
- Double-cut on sides, single-cut on edges
- American pattern, available in bastard, second and smooth-cut

Length"	BASTARD CUT		SECOND CUT		SMOOTH CUT	
	Order No.	MFG No.	Order No.	MFG No.	Order No.	MFG No.
4	VS468	03367	VS475	03401	VS481	03434
6	VS469	03467	VS476	03500	VS482	03533
8	VS470	03566	VS477	03599	VS483	03632
10	VS471	03665	VS478	03698	VS484	03731
12	VS472	03764	VS479	03797	VS485	03830
14	VS473	03863	VS480	03896	VS486	03929
16	VS474	03980	-	-	-	-

HALF ROUND FILES



- Used on concave, convex and flat surfaces
- Rounded on 1 side, flat on opposite
- Backs of all half-round bastard files are double-cut
- Backs of all half-round second-cut files longer than 6" are double-cut
- Backs of all 4 and 6" files are single-cut
- Backs of all half-round smooth files are single-cut
- Flat sides of all half-round files are double-cut

Nicholson®

SQUARE FILES



- Used on slots, keyways and general surface filing
- Square shape
- Double-cut
- Tapered slightly towards point
- Larger sizes frequently preferred to corresponding flat files because of heavier section and 4 filing surfaces

Nicholson®

ROUND FILES



- Primarily used to file circular openings or concave surfaces
- Round shape
- All 4, 5, 6, 8, 10, 12" files are single-cut
- 14" bastard file is double-cut
- Tapered slightly towards point

Nicholson®

Length"	Dia."	BASTARD CUT		SECOND CUT		SMOOTH CUT	
		Order No.	MFG No.	Order No.	MFG No.	Order No.	MFG No.
4	5/32	VS557	12790	-	-	VS568	12857
6	1/4	VS558	12967	-	-	VS569	13033
8	5/16	VS559	13081	VS565	13114	VS570	13147
10	3/8	VS560	13196	VS566	13229	VS571	13262
12	1/2	VS561	13310	VS567	13343	VS572	13376
14	5/8	VS562	13425	-	-	-	-

Length"	Dia."	BASTARD CUT		SECOND CUT		SMOOTH CUT	
		Order No.	MFG No.	Order No.	MFG No.	Order No.	MFG No.
4	1/8	VS538	11526	VS545	11559	VS552	11592
5	3/16	VS539	11637	-	-	-	-
6	1/4	VS540	11716	VS547	11748	VS553	11781
8	5/16	VS541	11904	VS548	11936	VS554	11969
10	3/8	VS542	12019	VS549	12051	VS555	12084
12	1/2	VS543	12134	VS550	12166	VS556	12199
14	5/8	VS544	12248	-	-	-	-

5-PIECE ERGONOMIC FILE SET

- Rubber-coated ergonomic handles for better comfort and control
- General purpose selection for professional use
- 6"/150 mm slim taper file
- 8"/200 mm flat bastard file
- 8"/200 mm mill bastard file
- 10"/250 mm mill bastard file
- 10"/250 mm half-round bastard file

Order No. TBH218

MFG No. 22040HN

Nicholson®



7-PIECE MACHINIST FILE SET

- General purpose file kit for machine shop
- 10"/250 mm flat bastard file
- 10"/250 mm flat smooth file
- 10"/250 mm half-round bastard file
- 10"/250 mm mill bastard file
- 10"/250 mm round bastard file
- 10"/250 mm square bastard file
- 7"/175 mm slim taper file

Order No. TBG943

MFG No. 22024N



Nicholson®



METALMASTER® COMPOUND SNIPS

- **VQ280** cuts left from tight curves to straight
- **VQ281** cuts right from tight curves to straight
- **VQ282** cuts straight, left or right in light stock
- Non-slip serrated jaws



Wiss®

Order No.	MFG No.	Grip Colour	Length"	Cut Length"	Recommended max. capacity low carbon cold rolled steel
VQ280	M1R	Red	9 3/4	1 3/8	18-gauge steel
VQ281	M2R	Green	9 3/4	1 3/8	18-gauge steel
VQ282	M3R	Yellow	9 3/4	1 1/2	18-gauge steel

METALMASTER® OFFSET SNIPS

- **VQ283** cuts left and straight
- **VQ284** cuts right and straight
- Offset blades keep hands clear of metal
- Non-slip serrated jaw
- Spring-action for fast, effortless feed



Wiss®

Order No.	MFG No.	Grip Colour	Length"	Cut Length"	Recommended max. capacity low carbon cold rolled steel
VQ283	M6R	Red	9 1/4	1 1/4	18-gauge steel
VQ284	M7R	Green	9 1/4	1 1/4	18-gauge steel

METALMASTER® SPECIAL SERIES SNIPS

- **TBH824** cuts left
- **TBH825** cuts right
- Specially hardened to cut exotic metals
- Non-slip serrated jaw
- Spring-action for fast, effortless feed
- Non-slip, textured grips and safety latch for superior control



Wiss®

Order No.	MFG No.	Grip Colour	Length"	Cut Length"	Recommended max. capacity
TBH824	M1RS1	Blue	9 3/4	1 3/8	18-gauge stainless steel
TBH825	M2RS1	Blue	9 3/4	1 3/8	18-gauge stainless steel

METALMASTER® BULLDOG SNIPS

- For notching or trimming extra heavy stock
- Non-slip, serrated
- Spring-action for fast, effortless feed



Wiss®

Order No.	MFG No.	Grip Colour	Length"	Cut Length"	Recommended max. capacity low carbon cold rolled steel
TBH827	M5R	Red	9 1/4	7/8	16-gauge steel

LONG NOSE CUTTING PLIERS

- Strong sure gripping jaws manipulate wire and other awkward objects
- Slim tapered head extends reach and maintains visibility in small areas
- Black nickel finish resists rust
- Meets ANSI standards

aurora tools

Order No.	Length"
TJZ085	5
TJZ086	6
TJZ087	8



GROOVE JOINT PLIERS

- Sure gripping precision milled jaws
- Grooves undercut & milled to prevent slipping when tightening
- Light and rugged drop forged alloy steel
- Flush pivot design for use in tight spaces
- Meets ANSI standards

aurora tools

Order No.	Length"
TJZ079	8
TJZ080	10
TJZ081	12

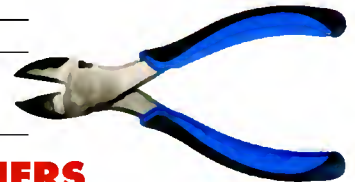


DIAGONAL CUTTING PLIERS

- Precision tested jaws provide uniform cut
- Slim profile reaches into cramped quarters
- Black nickel finish resists rust
- Induction heat treated cutting edge
- Smooth non sticking lever mechanism
- Meets ANSI standards (except **TJZ084**)

aurora tools

Order No.	Length"
TJZ082	5
TJZ083	6
TJZ084	7



SLIP JOINT PLIERS

- Sure gripping precision milled jaws
- Light and rugged drop forged alloy steel
- Flush pivot design for use in tight spaces
- Meets ANSI standards

aurora tools

Order No.	Length"
TJZ078	6 1/2

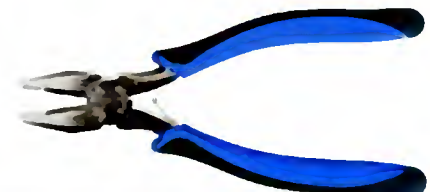


LINESMAN CUTTING PLIERS

- Precision milled jaw grip and hold wire without slipping
- Black nickel finish resists rust
- Meets ANSI standards

aurora tools

Order No.	Length"
TJZ088	7
TJZ089	8





STRAIGHT PATTERN SNIPS

- Cuts straight and wide curves (when trimming light gauge stock)
- For plumbing, heating, air conditioning and roofing trades, also used as handyman's tool
- Flat face guides tool along straight line
- Blades of finest quality steel, hot drop-forged for sharp edge and long life
- Rust resistant blades
- Cushion handle for comfort and better grip



Wiss®

Order No.	MFG No.	Length"	Cut Length"	Recommended max. capacity Low Carbon Cold Rolled Steel
VQ285	A13N	7	1 3/4	23-gauge
VQ286	A12N	8 1/4	2	23-gauge
VQ287	A11N	9 3/4	2 1/4	23-gauge
VQ288	A10N	11	2 1/2	21-gauge
VQ289	A9N	12 1/2	3	20-gauge

BULLDOG PATTERN SNIPS

- Industrial use snips provide greater cutting power for notching, nibbling and chopping heavy stock
- Individually hand edged, rust resistant blades for maximum cutting efficiency made of finest quality steel, hot drop-forged for sharp edge and long life
- Cushion handle for comfort and better grip



Wiss®

Order No.	MFG No.	Overall Length"	Depth of Cut"	Recommended Max. Capacity Low Carbon Cold Rolled Steel
TB848	W5	16 1/2	2 1/2	16-gauge Steel (0.065"/1.65 mm)

BOLT/CABLE CUTTER

- Cuts soft, medium hard, and hard materials
- Cuts metal rod to 7/16" diameter
- Strap cuts wire rope to 1/4" diameter
- Maximum hardness of material to be cut: Brinell 455/Rockwell C48
- Lockplate keeps jaws from loosening
- Toggle joints turn 50 lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges
- **Cutting capacity:** Rockwell C37: 7/16" (11 mm)
Rockwell C48: 5/16" (8 mm)



Order No.	MFG No.	O.A. Length In.	Wt. lbs.
TBF967	0190MCS	24	610

REPLACEMENT CUTTERHEAD

TBF949	0113MCS
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H.K. Porter®

BOLT CUTTERS

- Chrome molybdenum steel jaws
- Center cutting blades
- Adjusting screws allow for easy and perfect alignment of jaws
- Strong tubular handle with slip-proof rubber grips



aurora tools

Order No.	Length"	Max. Jaw Opening"
TJZ111	14	1/4
TJZ112	18	5/16
TJZ113	24	3/8
TJZ114	36	9/16

AUTOLOCK TAPES

- High visibility with rubber comfort grip
- Automatic blade lock
- Recessed lock release



Lufkin®

Order No.	MFG No.	Blade Width"	Length	Graduation	Stud Markings"
TJZ389	AL725	1	25'	in/ft	16/19.2
TJZ388	AL748CME	1	26 1/8 m	in/cm	16/19.2

MEASURING TAPES

- Heavy duty tape line
- Sure locking break
- Easy to read blade
- Four rivets holding the tip for extra security
- Composite covering for extra comfort

Order No.	Blade Width"	Length'	Graduation
TJZ115	5/8	12	in/ft
TJZ116	1/2	12	in/cm
TJZ117	3/4	16	in/ft
TJZ118	3/4	16	in/cm
TJZ801	1	25	in/ft
TJZ802	1	25	in/cm
TJZ803	1	30	in/ft
TJZ804	1 1/4	25	in/ft

aurora tools



INDUSTRIAL GRADE CENTER CUT CUTTERS

- General plant maintenance tool
- Drop-forged, precision ground, alloy tool steel jaws with center-cut blades
- Cuts soft, medium, or hard materials
- Maximum hardness of material to be cut: Brinell 455/Rockwell C48
- Lockplate keeps jaws from loosening
- Toggle joints turn 50 lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges
- Steel handles with rubber grips



Order No.	MFG No.	Wt. lbs.	O.A. Length In.	mm	Cutting Capacity			
					Soft & Medium Hard Materials (Up to Brinell 300 Rockwell C31)		Hard Materials (Up to Brinell 455 Rockwell C48)	
TBG120	1490MC	2 3/4	14	356	5/16	8	3/16	5
YC552	0090MC	3 1/2	18	457	3/8	10	1/4	6
YC554	0190MC	5 1/4	24	610	7/16	11	5/16	8
TBG005	0290MC	8 1/2	30	762	1/2	13	3/8	10
TBG041	0390MC	12 7/8	36	914	9/16	14	7/16	11
TBG082	0590MC	17 1/8	42	1067	11/16	18	1/2	13

REPLACEMENT CUTTERHEAD

Order No.	MFG No.
TBG109	1413C
TBF924	0013C
YC548	0113C
TBF983	0213C
TBG019	0313C
TBG060	0513C

H.K. Porter®

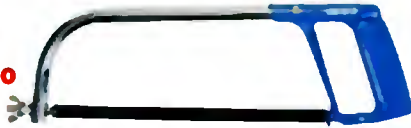


HACKSAW

- Heavy gauge round steel tubing
- Comfort grip handle
- Adjustable for 10" and 12" blades
- Spring loaded release for quick blade changes
- Cuts at 45° and 90°
- Includes blade

aurora tools

Order No. TJZ030



TUBULAR HANDLE HAMMER

- 1.4 mm hardened tubular steel shaft
- Fully polished heat treated face with octagonal neck
- Shock absorbing cushion grip handle
- Steel overstrike ring
- Meets ANSI standards

aurora tools



Order No.	Type	Head oz.
TJZ032	Claw	16

HICKORY HANDLE HAMMER

- Large natural colour, American hickory handle
- Extra tough, heat treated fully polished head
- Extra large striking face
- Natural shock absorbing qualities of natural wood
- Meets ANSI standards

aurora tools



Order No.	Type	Head oz.
TJZ033	Claw	16
TJZ034	Framing	22

DEAD BLOW HAMMERS

- 1 piece urethane construction
- Completely enclosed steel shank
- Shot filled head
- Hi-vis orange colour

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Order No.	Weight oz.
TJZ035	8
TJZ036	16
TJZ037	24
TJZ038	32

BALL PEEN HAMMERS

- Kiln-dried hickory handle
- High quality construction
- Natural shock absorbing qualities of natural wood
- Meets ANSI standards

aurora tools



Order No.	Weight oz.
TJZ039	8
TJZ040	16
TJZ041	24
TJZ042	32

RUBBER MALLETS

- Hardwood handle
- Non marking white rubber head (**TJZ045** and **TJZ046**)

aurora tools



Order No.	Weight oz.	Colour
TJZ043	16	Black
TJZ044	32	Black
TJZ045	16	White
TJZ046	32	White

ACTION BAR

- High quality heat-treated carbon steel
- Baked paint finish
- Edges are specially bevelled for pulling, lifting and scraping

aurora tools



Order No.	Size"	Colour
TJZ047	13 1/2 x 1 3/8	Black

GOOSENECK WRECKING BARS

- High quality steel
- Hexagon shank
- Bevelled edges for pulling and lifting

aurora tools



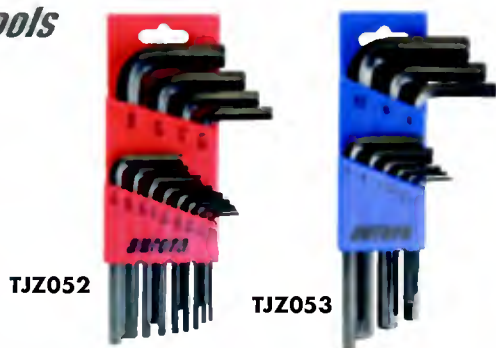
Order No.	Diameter"	Length"	Weight lbs.
TJZ048	5/8	18	1.9
TJZ049	3/4	24	3.0
TJZ050	3/4	30	4.0
TJZ051	3/4	36	5.0



HEX KEY POUCH SETS

- Chrome vanadium steel for strength and durability
- Tips are chamfered for ease of entry and proper fit

aurora tools



Order No.	No. of keys	Key Sizes	Pouch Length"
SAE - SHORT ARM			
TJZ052	13	0.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	4
METRIC - SHORT ARM			
TJZ053	9	1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm, 8.0 mm, 10.0 mm	3.5

FOLDING HEX KEY SETS

- Chrome vanadium steel for strength and durability
- Tips are chamfered for ease of entry and proper fit
- Set folds securely into convenient storage compartment

aurora tools



Order No.	No. of keys	Key Sizes	Pouch Length"
SAE FOLD UP			
TJZ054	9	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	4.25
METRIC FOLD UP			
TJZ055	8	1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm, 8.0 mm	4.25
SAE - BALL END FOLD UP			
TJZ056	9	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	4.25

SCREWDRIVER SETS

- Industrial quality and strength
- Chrome vanadium steel blade
- Treated blade tip for a lifetime of performance
- Extra large ergonomic handle for maximum torque and comfort

- Screwdriver type indication on the base of the grip
- Colour coded handle for Robertson type
- Genuine Robertson blades
- Meets ANSI standards

TJZ826



Order No.	Description	Contents
TJZ826	3-Pc Set	Robertson: #1, #2, #3
TJZ827	7-Pc Set	Robertson: #1, #2 Phillips: #1, #2 Flat: 1/8", 1/4", 5/16"
TJZ828	16-Pc Set	Robertson: #0, #1, #2, #3, #2 Stubby Phillips: #0, #1, #2, #3, #2 Stubby Flat: 1/8", 3/16", 1/4", 5/16", 3/8", 1/4" Stubby

aurora tools

Order No.	Tip Width"	Blade Length"	
SLOT ELECTRICIANS			
TJZ057	1/8	3	TJZ057 
TJZ058	3/16	4	
TJZ059	3/16	6	
SLOT MECHANICS			
TJZ060	1/4	1 1/2 Stubby	TJZ060 
TJZ061	1/4	4	
TJZ062	1/4	5	
TJZ063	1/4	6	
TJZ064	5/16	6	
TJZ065	3/8	8	
PHILLIPS TIP			
TJZ066	#0	2 1/2	TJZ066 
TJZ067	#1	3 1/4	
TJZ068	#2	4	
TJZ070	#3	6	
TJZ069	#2	1 1/2 Stubby	
ROBERTSON TIP			
TJZ071	#0	4	TJZ071 
TJZ072	#1	4	
TJZ073	#2	6	
TJZ074	#3	6	
TJZ075	#1	1 1/2 Stubby	
TJZ076	#2	1 1/2 Stubby	
TJZ077	#3	1 1/2 Stubby	



SWIVEL BASE VISES

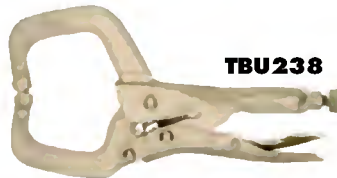
- Professional mechanic's vises for heavy-duty applications
- Grey iron main castings with the spindle nut made from 60,000 PSI S.G. Iron casting
- Hardened tool steel jaw faces have deep knurled pattern to ensure positive gripping
- Vises are machined to very close tolerances ensuring ease of use
- Swivel base allows for full 360° swivel
- Chrome finished handle



Order No.	Jaw Width"	Jaw Opening"	Throat Depth"	Weight lbs.
TEX250	3	4	2	16.5
TEX251	4	5	2 5/32	26.4
TEX252	6	7	3	58.1
TEX253	8	8	4	96.8

LOCKING C-CLAMPS

- Allow quick, easy positioning of work pieces
- Swivel tips minimize marring on softer materials
- Made to exacting standards for improved durability and long-term performance
- Meet ASME standards



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Order No.	MFG No.	Description
TBU238	C6CCV	6" Locking Clamp with Regular Tips
TBU240	C11CCV	11" Locking Clamp with Regular Tips

ECONOMY C-CLAMPS

- Reinforced at all stress points designed to last through the toughest application
- Constructed of high quality ductile iron with a heavy-duty steel screw for maximum strength
- Fully enameled for long life



FULLER

Order No.	MFG No.	Max. Opening"	Throat Depth"
VE830*	450-0761	1	1
VE831*	450-0762	2	1 1/2
VE832	450-0772	2 1/2	2 3/8
VE838	450-0769	2 1/2	4 3/8
VE833	450-0763	3	1 3/4
VE834	450-0764	4	2 3/8
VE835	450-0765	5	2 1/2
VE836	450-0766	6	2 3/4
VE837	450-0768	8	3 3/8

* Constructed of malleable iron.

LOCKING PLIERS

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- Tempered chrome vanadium steel jaws with wire cutting feature
- Hardened tension bar with toggle mechanism provides secure locking action
- Smooth screw adjustment for easy and rapid setting
- Meets ANSI standards



Order No.	Grip	Length"
TJZ090	Steel	4
TJZ091	Composite	5
TJZ092	Composite	7
TJZ093	Composite	10



Order No.	Grip	Length"
TJZ094	Steel	4
TJZ095	Composite	6



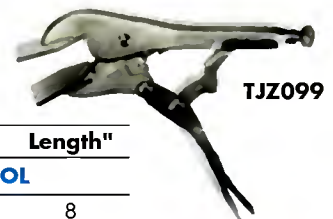
Order No.	Grip	Length"
TJZ096	Steel	6
TJZ097	Steel	11



Order No.	Grip	Length"
TJZ098	Steel	9

LOCKING WELDING CLAMP

Order No.	Grip	Length"
TJZ099	Steel	8





ADJUSTABLE WRENCHES

- Superior grade chrome vanadium steel
- Precision machined jaws
- Slim profile head slips into cramped quarters
- Tight tolerances ensure close fitting, wobble free action
- Smooth, non sticking mechanism
- Composite material grip for extra comfort (except for TJZ105)
- Black nickel finish resists rust
- Meets ANSI standards

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Order No.	Length"
TJZ100	6
TJZ101	8
TJZ102	10
TJZ103	12
TJZ104	15
TJZ105	18



PIPE WRENCHES

- Drop forged alloy steel jaw
- Durable ductile steel body provides the ultimate in performance
- Precision milled sure gripping teeth
- Spring action ensures sure grip and quick release

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Order No.	Length"	Pipe Capacity"
TJZ106	8	1
TJZ107	10	1 1/2
TJZ108	12	2
TJZ109	14	2
TJZ110	18	2 1/2

COMBINATION WRENCH SETS

- Chrome vanadium steel for strength and durability
- Heat treated for consistent hardness
- Precision broached jaws for sure gripping
- 12-point box end for snug fit
- Thin walled construction for access in cramped quarters
- Meets ANSI standards

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Order No.	Description
TJZ817	11 SAE Combination Wrenches 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"
TJZ819	14 SAE Combination Wrenches 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"

METRIC

TJZ818	11 Metric Combination Wrenches 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm
TJZ820	14 Metric Combination Wrenches 10 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm

COMBINATION WRENCHES

- Chrome vanadium steel for strength and durability
- Heat treated for consistent hardness
- Precision broached jaws for sure gripping
- 12-point box end for snug fit
- Thin walled construction for access in cramped quarters
- Meets ANSI standards

auroratools



Order No.	Size	Length
SAE		
TJZ119	1/4"	3 7/8"
TJZ120	5/16"	4 3/4"
TJZ121	11/32"	5 1/8"
TJZ122	3/8"	5 1/2"
TJZ123	7/16"	5 7/8"
TJZ124	1/2"	6 5/8"
TJZ125	9/16"	6 7/8"
TJZ126	5/8"	7 1/2"
TJZ127	11/16"	8 1/16"
TJZ128	3/4"	8 7/8"
TJZ129	13/16"	9 1/2"
TJZ130	7/8"	9 7/8"
TJZ131	15/16"	10 7/8"
TJZ132	1"	11 5/8"
TJZ133	1 1/16"	13 3/8"
TJZ134	1 1/8"	15"
TJZ135	1 3/16"	19"
TJZ136	1 1/4"	17 1/8"

METRIC

TJZ137	6 mm	100 mm
TJZ138	7 mm	110 mm
TJZ139	8 mm	120 mm
TJZ140	9 mm	130 mm
TJZ141	10 mm	140 mm
TJZ142	11 mm	150 mm
TJZ143	12 mm	160 mm
TJZ144	13 mm	170 mm
TJZ145	14 mm	175 mm
TJZ146	15 mm	185 mm
TJZ147	16 mm	195 mm
TJZ148	17 mm	205 mm
TJZ149	18 mm	215 mm
TJZ150	19 mm	225 mm
TJZ151	20 mm	235 mm
TJZ152	21 mm	245 mm
TJZ153	22 mm	250 mm
TJZ154	23 mm	265 mm
TJZ155	24 mm	275 mm
TJZ156	25 mm	285 mm
TJZ157	26 mm	295 mm
TJZ158	27 mm	340 mm
TJZ159	28 mm	355 mm
TJZ160	29 mm	380 mm
TJZ161	30 mm	395 mm
TJZ162	32 mm	435 mm

ADJUSTABLE WRENCHES

- Chrome finish

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Order No.	MFG No.	Length"	Max. Jaw Width"
VE032	AC14V	4	1/2
VE033	AC16V	6	15/16
VE034	AC18V	8	1 1/8
VE035	AC110V	10	1 5/16
VE036	AC112V	12	1 1/2
VE037*	AC115	15	1 11/16
VE038*	AC118	18	2 1/16
VE039*	AC124	24	2 7/16

*Tapered handle



SOCKET SETS

- Chrome vanadium steel for extra strength and durability
- Ratchets feature a quick release button for easy changing of attachments
- Ratchet with contoured handle for comfort and added torque
- Chrome plated sockets to resist rust
- 6-points sockets for snug fit • Meets ANSI standards

20-PC 1/4" DRIVE SAE SOCKET SET

Order No TJZ821

Set includes:	9 6-Point 1/4" Drive Standard Sockets		7 6-Point 1/4" Drive Deep Sockets	
	Order No.	Size"	Order No.	Size"
	TJZ172	3/16	TJZ198	1/4
	TJZ173	7/32	TJZ199	9/32
	TJZ174	1/4	TJZ200	5/16
	TJZ175	9/32	TJZ201	11/32
	TJZ176	5/16	TJZ202	3/8
	TJZ177	11/32	TJZ203	7/16
	TJZ178	3/8	TJZ204	1/2
	TJZ179	7/16		
	TJZ180	1/2		

Accessories

- 1 ratchet 1/4" drive (TJZ163)
- 1 spinner handle 1/4" drive (TJZ166)
- 2 extensions: 4", 6" (TJZ168, TJZ169)

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20-PC 3/8" DRIVE SAE SOCKET SET

Order No TJZ822

Set includes:	9 6-point 3/8" Drive Standard Sockets		8 6-point 3/8" Drive Deep Sockets	
	Order No.	Size"	Order No.	Size"
	TJZ235	3/8	TJZ265	3/8
	TJZ236	7/16	TJZ266	7/16
	TJZ237	1/2	TJZ267	1/2
	TJZ238	9/16	TJZ268	9/16
	TJZ239	5/8	TJZ269	5/8
	TJZ240	11/16	TJZ270	11/16
	TJZ241	3/4	TJZ271	3/4
	TJZ242	13/16	TJZ272	13/16
	TJZ243	7/8		

Accessories

- 1 ratchet 3/8" drive (TJZ220)
- 2 extensions: 3", 6" (TJZ224, TJZ225)

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20-PC 3/8" DRIVE METRIC SOCKET SET

Order No TJZ831

Set includes:	9 6-point 3/8" Drive Standard Sockets		8 6-point 3/8" Drive Deep Sockets	
	Order No.	Size (mm)	Order No.	Size (mm)
	TJZ248	10	TJZ278	10
	TJZ249	11	TJZ279	11
	TJZ250	12	TJZ280	12
	TJZ251	13	TJZ281	13
	TJZ252	14	TJZ282	14
	TJZ253	15	TJZ283	15
	TJZ254	16	TJZ285	17
	TJZ255	17	TJZ287	19
	TJZ257	19		

Accessories

- 1 ratchet 3/8" drive (TJZ220)
- 2 extensions 3", 6" (TJZ224, TJZ225)

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26-PC 1/2" DRIVE SAE SOCKET SET

Order No TJZ825

Set includes:	22 6-point 1/2" drive Standard Sockets			
	Order No.	Size"	Order No.	Size (mm)
	TJZ304	7/16	TJZ322	14
	TJZ305	1/2	TJZ323	15
	TJZ306	9/16	TJZ325	17
	TJZ307	5/8	TJZ327	19
	TJZ308	11/16	TJZ330	22
	TJZ309	3/4	TJZ332	24
	TJZ310	13/16	TJZ333	27
	TJZ311	7/8	TJZ334	30
	TJZ312	15/16	TJZ335	32
	TJZ313	1		
	TJZ314	1 1/16		
	TJZ315	1 1/8		
	TJZ317	1 1/4		

Accessories

- 1 ratchet 1/2" drive (TJZ293)
- 1 5" extension (TJZ298)
- 1 universal joint 1/2" drive (TJZ300)
- 1 speed handle 1/2" drive (TJZ833)

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SOCKET SETS

51-PC 1/4" & 3/8" DRIVE SAE/METRIC SOCKET SET

Order No TJZ823

Set includes:

21 6-point 1/4" drive		19 6-point 3/8" drive		6 6-point 3/8" drive	
Standard Sockets		Standard Sockets		Deep Sockets	
Order No.	Size	Order No.	Size	Order No.	Size
TJZ172	3/16"	TJZ235	3/8"	TJZ265	3/8"
TJZ173	7/32"	TJZ236	7/16"	TJZ266	7/16"
TJZ174	1/4"	TJZ237	1/2"	TJZ267	1/2"
TJZ175	9/32"	TJZ238	9/16"	TJZ268	9/16"
TJZ176	5/16"	TJZ239	5/8"	TJZ269	5/8"
TJZ177	11/32"	TJZ240	11/16"	TJZ2670	11/16"
TJZ178	3/8"	TJZ241	3/4"		
TJZ179	7/16"	TJZ242	13/16"		
TJZ180	1/2"	TJZ243	7/8"		
TJZ182	4 mm	TJZ246	8 mm		
TJZ183	4.5 mm	TJZ247	9 mm		
TJZ184	5 mm	TJZ248	10 mm		
TJZ185	5.5 mm	TJZ249	11 mm		
TJZ186	6 mm	TJZ250	12 mm		
TJZ187	7 mm	TJZ251	13 mm		
TJZ188	8 mm	TJZ252	14 mm		
TJZ189	9 mm	TJZ253	15 mm		
TJZ190	10 mm	TJZ255	17 mm		
TJZ191	11 mm	TJZ257	19 mm		
TJZ192	12 mm				
TJZ193	13 mm				

Accessories

- 1 Plastic handle driver 1/4" drive (TJZ166)
- 1 ratchet 3/8" drive (TJZ220)
- 1 extension 3", 3/8" (TJZ224)
- 1 adaptor 3/8" F, 1/4" M (TJZ228)
- 1 Extension 4", 1/4" drive (TJZ168)

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79-PC 1/4", 3/8" & 1/2" DRIVE SAE/METRIC SOCKET SET

Order No TJZ824

Set includes:

23 6-point 1/4" Drive		6 6-point 1/4" Drive		25 6-point 3/8" Drive		10 6-point 3/8" Drive		7 6-point 1/2" Drive	
Standard Sockets		Deep Sockets		Standard Sockets		Deep Sockets		Standard Sockets	
Order No.	Size	Order No.	Size	Order No.	Size	Order No.	Size	Order No.	Size
TJZ171	5/32"	TJZ195	5/32"	TJZ233	1/4"	TJZ263	5/16"	TJZ305	1/2"
TJZ172	3/16"	TJZ196	3/16"	TJZ234	5/16"	TJZ265	3/8"	TJZ306	9/16"
TJZ173	7/32"	TJZ197	7/32"	TJZ235	3/8"	TJZ266	7/16"	TJZ307	5/8"
TJZ174	1/4"	TJZ198	1/4"	TJZ236	7/16"	TJZ267	1/2"	TJZ308	11/16"
TJZ175	9/32"	TJZ199	9/32"	TJZ237	1/2"	TJZ268	9/16"	TJZ309	3/4"
TJZ176	5/16"	TJZ200	5/16"	TJZ238	9/16"	TJZ269	5/8"	TJZ310	13/16"
TJZ177	11/32"			TJZ239	5/8"	TJZ270	11/16"	TJZ311	7/8"
TJZ178	3/8"			TJZ240	11/16"	TJZ271	3/4"		
TJZ179	7/16"			TJZ241	3/4"	TJZ272	13/16"		
TJZ180	1/2"			TJZ242	13/16"	TJZ273	7/8"		
TJZ182	4 mm			TJZ243	7/8"				
TJZ183	4.5 mm			TJZ244	6 mm				
TJZ184	5 mm			TJZ245	7 mm				
TJZ185	5.5 mm			TJZ246	8 mm				
TJZ186	6 mm			TJZ247	9 mm				
TJZ187	7 mm			TJZ248	10 mm				
TJZ188	8 mm			TJZ249	11 mm				
TJZ189	9 mm			TJZ250	12 mm				
TJZ190	10 mm			TJZ251	13 mm				
TJZ191	11 mm			TJZ252	14 mm				
TJZ192	12 mm			TJZ253	15 mm				
TJZ193	13 mm			TJZ254	16 mm				
TJZ194	14 mm			TJZ255	17 mm				
				TJZ253	18 mm				
				TJZ257	19 mm				

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Accessories

- 1 ratchet 1/4" drive (TJZ164)
- 1 2" extension 1/4" drive (TJZ167)
- 1 ratchet 3/8" drive (TJZ220)
- 1 3" extension 3/8" drive (TJZ224)
- 1 5/8" sparkplug socket 3/8" drive (TJZ230)
- 1 13/16" sparkplug socket 3/8" drive (TJZ231)
- 1 ratchet 1/2" drive (TJZ293)
- 1 5" extension 1/2" drive (TJZ298)



SOCKET ACCESSORIES



TJZ166



TJZ220



TJZ294



TJZ168

1/4" DRIVE SOCKETS ACCESSORIES

Order No.	Description
TJZ163	1/4" Drive Ratchet
TJZ164	1/4" Drive Quick-Release Ratchet
TJZ165	1/4" Drive Hinge Handle, 5-3/4" Length
TJZ166	1/4" Plastic Handle Driver
TJZ167	1/4" Drive Extension, 2" Length
TJZ168	1/4" Drive Extension, 4" length
TJZ169	1/4" Drive Extension, 6" length
TJZ170	1/4" Drive Adaptor 3/8" M

3/8" DRIVE SOCKETS ACCESSORIES

Order No.	Description
TJZ219	3/8" Drive Ratchet
TJZ220	3/8" Drive Quick-Release Ratchet, 8"
TJZ221	3/8" Drive Quick-Release Ratchet, 10"
TJZ222	3/8" Drive Hinge Handle, 9-1/2" Length
TJZ223	3/8" Drive Hinge Handle, 8-1/2" Length
TJZ224	3/8" Drive Extension, 3" Length
TJZ225	3/8" Drive Extension, 6" Length
TJZ226	3/8" Drive Extension, 8" Length
TJZ227	3/8" Drive Extension, 12" Length
TJZ228	3/8" Drive Adaptor, 1/4" M
TJZ229	3/8" Drive Adaptor, 1/2" M
TJZ230	3/8" Drive Spark Plug Socket, 5/8"
TJZ231	3/8" Drive Spark Plug Socket, 13/16"
TJZ232	3/8" Drive Universal Joint

1/2" DRIVE SOCKETS ACCESSORIES

Order No.	Description
TJZ292	1/2" Drive Ratchet
TJZ293	1/2" Drive Quick-Release Ratchet
TJZ294	1/2" Drive Hinge Handle, 14-1/4" Length
TJZ295	1/2" Drive Adaptor, 3/8" M
TJZ296	1/2" Drive Adaptor, 3/4" M
TJZ297	1/2" Drive Extension, 3" Length
TJZ298	1/2" Drive Extension, 5" Length
TJZ299	1/2" Drive Extension, 10" Length
TJZ300	1/2" Drive Universal Joint
TJZ301	1/2" Drive Socket Spark Plug, 5/8"
TJZ302	1/2" Drive Socket Spark Plug, 13/16"
TJZ833	1/2" Drive Speed Handle

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GLUE GUNS

- Accepts 7/16" diameter regular glue sticks
- Features precise, even adhesive distribution
- Come with metal wire stand

LIGHT-DUTY

- Perfect for light-duty carton sealing or small manufacturing projects
- Trigger design for better grip control
- 120 V/80 W heater

Order No. **PE339**

MEDIUM/HEAVY-DUTY

- Ideal for medium/heavy-duty applications
- Ergonomic trigger design for better grip and comfort
- Illuminated on/off switch
- 120 V/100 W heater

Order No. **PE340**



PE340



PE339

Order No.	Appearance	Softening point	Typical applications	Dimensions	Qty /Box
PE341	Clear	85°C/185°F	High strength, high temperature For non-porous materials	7/16" x 4"	235
PE342	Clear	80°C/176°F	All temperature clear	7/16" x 10"	94
PE343	Amber	85°C/185°F	High temperature, for box sealing, corrugated boxes Fast set	7/16" x 15"	250

PROFESSIONAL UTILITY KNIFE

- Blade screw lock
- Snap-off blades
- Comes with blade snapper
- Replacement blades: **PE408**

Order No. **PE347**



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STANDARD-DUTY UTILITY KNIFE

- Auto-lock blade
- Durable ABS plastic body
- Snap-off blades
- Lightweight design

Order No.	Description
PE330	Knife
PE331	Replacement blades, 50/Pkg.



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MARKSMAN SERIES SOLDERING IRONS

- Fine quality iron for intermittent use
- Heat and impact resistant red handle and stainless steel barrel



Order No.	MFG No.	Volts	Watts	Length"	Temp F°/°C	Standard Tip
NICKEL PLATED COPPER						
TW158	SP23	120	25	8 1/4	750/400	TW162
TW159	SP40	120	40	8 1/4	900/482	TW166

MARKSMAN SERIES TIPS

Replacement tips are nickel-plated copper.

Order No.	MFG No.	Description	Use With Iron No.	Tip Size"
TW162	MT1	Cone Shaped Tip	TW158	1/8
TW163	MT2	Screwdriver Tip	TW158	1/8
TW164	MT3	Chisel Tip	TW158	1/8
TW166	MT10	Chisel Tip	TW159	1/4

SOLDERING GUNS

- 120 volts
- Heat resistant plastic housing
- Fingertip trigger for high or low output selection
- Ready to use in 6 seconds
- Heavy gauge, high efficiency, tin-plated copper tip
- Twin lights illuminate work
- Uses screw in soldering, cutting and smoothing tips



KITS

Include: Soldering gun with 1 soldering tip, 1 sealing tip, 1 cutting tip, 1 flux brush, soldering aid tool and a coil of lead-free solder. Packed in plastic carrying case.

Order No.	MFG No.	Description	Watts
TW149	D550PK	Professional Soldering Gun Kit	260/200
TW151	D650PK	Industrial Soldering Gun Kit	300/200

REPLACEMENT SOLDERING GUN TIPS

Weller® tips are made of copper and are compatible with Weller® soldering guns. Available in cutting, smoothing and standard tips.

Order No.	MFG No.	Description
PROFESSIONAL		
TW152	6130	Cutting Tip W/Hex Nut
TW153	6150	Cutting Tip Only
TW154	6140	Smoothing Tip W/Hex Nut
INDUSTRIAL		
TW155	6160	Smoothing Tip Only
TW156	7250	Standard Tip Only 2/pkg.
TW157	7250N	Standard Tip W/Hex Nut

Weller®

PROFESSIONAL SOLDERING IRONS

Ideal for a wide variety of electronics tasks.

- Interchangeable heater elements with quick change collar (3 different elements available)
- Lightweight handle with cushion grip
- Use ST Series tips only



SOLDERING IRON

Order No.	MFG No.	Description	Volts	Watts	Hz
TW633	WP25	w/TW640 Tip	120	25	50/60
TW634	WP35	w/TW640 Tip	120	35	50/60

ST SERIES TIPS

Solid copper, plated with iron, nickel and chromium.

Precision ground tips provide maximum heat transfer from heater to tip.

Order No.	MFG No.	Description	Tip Size"	Reach"
TW638	ST1	Screwdriver Tip	0.062	0.75
TW639	ST2	Screwdriver Tip	0.093	0.75
TW640	ST3	Screwdriver Tip	0.125	0.75
TW641	ST4	Screwdriver Tip	0.187	0.75
TW642	ST5	Single Flat Tip	0.031	0.75
TW643	ST6	Screwdriver Tip	0.031	0.75
TW644	ST7	Conical Tip	0.031	0.75
TW645	ST8	Narrow SD Tip	0.062	0.75

WES51 ANALOG SOLDERING STATION

Weller®

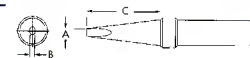
- Station automatically powers down after 90 minutes of inactivity to prolong tip life and save power
- Designed for continuous production soldering
- Slim, comfortable pencil reduces operator fatigue



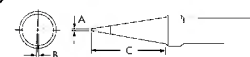
Order No. TEG036
MFG No. WES51

ET SERIES TIPS FOR SOLDERING PENCIL

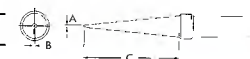
Order No.	MFG No.	A"	B"	C"
SCREWDRIVER				
BW087	ETA	0.062	0.032	0.0625
BW088	ETB	0.093	0.020	0.625
BW089	ETC	0.125	0.027	0.625
CONICAL				
BW092	ETP	0.031	0.012	0.625
LONG CONICAL				
BW100	ETO	0.031	0.0444	1.000
BW101	ETS	0.015	-	1.000



Screwdriver



Conical



Long Conical

A

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