

GAS WELDING OUTFITS & ACCESSORIES



WELDING & CUTTING OUTFITS

All Harris Classic outfits come complete with tool bag and 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 WITH TOOL BAG

- Cuts to 5" and welds to 1/2" with larger tips
- 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
 - Striker

Model No. TTU521
Mfg. No. 4403224
Price/Each \$659.00



TTU521



PIPELINER® CLASSIC WITH TOOL BAG

- Cuts to 6" and welds to 1" with larger tips
- 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
 - Striker

Model No. TTU520
Mfg. No. 4403235
Price/Each \$936.00



TTU520



IRONWORKER® MEDIUM-DUTY WITH TOOL BAG

- Cuts to 5" and welds to 1/2" with larger tips
- 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 1/4" hose
 - Goggles
 - Striker

Model No. TTV225
Mfg. No. 4400366
Price/Each \$561.00



TTV225



PORT-A-TORCH® OUTFITS

- All outfit components are industrial grade for professional use
- Cutting attachments feature solid forged heads, triangular stainless steel tubes with brazed connections, solid brass forged levers and a lock ring that secures torch nut in place
- Torch handles feature silver-brazed, twin-tube construction and easily replaceable Flashguard® check valves
- Regulators equipped with an encapsulated Teflon® seat for safety and extended service life

- Includes: Welding tip (23A90-3), Fuel gas regulator (601-15-200), Oxygen regulator (601-80-540), 3/16" x 12' hose, 20 cu. ft. oxygen cylinder, 10 cu. ft. "MC" acetylene cylinder, cylinder wrench, goggles, striker and instruction manual
- Stored in a heavy-duty, weather-proof and flame retardant tool bag

Model No.	Mfg. No.	Description	Torch Handle	Cutting Attachment	Mixer	Cutting Tip	Price /Each
TTU624	4403211	Classic Style	85	72-3	D-85	6290-1AC	930.00
TTU625	4403214	V-Series Style	V100C	V1350	V-W1	V-V3-101	930.00



GAS WELDING OUTFITS & ACCESSORIES

LIGHT/MEDIUM DUTY TOTE-A-TORCH OUTFITS

- 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 with 2" double-scale gauges
- Cutting tip
- Welding nozzle
- 12.5' twin hose
- Goggles
- Striker
- Tank wrench
- Cylinders
- Polypropylene carrier

Model No. TTT892
Mfg. No. 72-PTC
Price/Each \$827.00



PROWELD
by **GENTEC**

SILVER MEDIUM-DUTY WELDING & CUTTING OUTFITS

- Can weld up to 1/4" and cut up to 1/2"
- Ideal general purpose kit for construction, facility maintenance, petroleum and chemical industries
- Victor® Cutskill® compatible
- Comes in environmentally-friendly packaging for easy transportation

Includes:

- Torch handle with check valve
- Cutting attachment
- Oxygen/acetylene regulators with 2" double-scale gauges
- Cutting tip #0
- Welding nozzle #2
- T-Grade 17.5' twin hose
- Goggles
- Striker

Model No. TTV021
Mfg. No. 7120
Price/Each \$392.00



GENTEC
GENSTAR TECHNOLOGIES

TOTE-A-TORCH OUTFITS

- 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
- 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)
- 12.5' twin hoses
- Goggles
- Striker
- Plastic carrier
- One "MC" acetylene cylinder
- One "R" oxygen cylinder

Model No. 331-1070
Mfg. No. 12-PTC
Price/Each \$890.00



GENTEC
GENSTAR TECHNOLOGIES

SILVER HEAVY-DUTY WELDING & CUTTING OUTFITS

- Can weld up to 1/2" and cut up to 3/4"
- Ideal for industrial and commercial applications
- Victor® Cutskill® compatible
- Comes in environmentally-friendly packaging for easy transportation

Includes:

- Torch handle with check valve
- Cutting attachment
- Oxygen/acetylene regulators with 2 1/2" double-scale gauges
- Cutting tip #1
- Welding nozzle #2
- T-Grade 17.5' twin hose
- Goggles
- Striker

Model No. TTV022
Mfg. No. 7130
Price/Each \$524.00



GENTEC
GENSTAR TECHNOLOGIES

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
- Oxy/fuel regulators (where applicable)



333-102201204



333-102201209

GENTEC
GENSTAR TECHNOLOGIES

Afraid of Heights...

We've Got You Covered!



KLETON

Canada's Leading Material Handling Supplier

Model No.	Mfg. No.	Description	Price /Each
333-102201204	GKSTA06	Kit w/o Regulators	186.00
333-102201209	GKSTA16	Kit with Oxy/Fuel Regulators	452.00

GAS WELDING OUTFITS & ACCESSORIES

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
- B tank connection
- Includes:**
Regulator (101 Y-BA)
Torch handle
Tip Hose (HGA-012A)

333-102205701



Model No.	Mfg. No.	Soft Solder"	Silver Braze"	Handle	Torch Tip	Price /Each
SWIRL FLAME, QUICK-CONNECT STYLE OUTFITS						
333-102205601	KA5BSP	1 1/2	3/4	66QT-RA	6Q-5TA	308.00
SOFT FLAME, SCREW-CONNECT STYLE OUTFITS						
333-102205701	KASF4BSP	1	n/a	77ST-RA	7S-4SA	186.00
SWIRL FLAME, QUICK-CONNECT STYLE OUTFITS W/AUTO-IGNITE TIPS						
333-102205608	KASL5BSP	1 1/2	3/4	66QT-RA	6Q-5TASL	308.00

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
Wrench



330-1663

Model No.	Mfg. No.	Tip No.	Reg. FTG	Price/Each
330-1663	KA-1H	BA-3	"B" Cylinder	247.00
330-1669	KA-2H	BA-3	"MC" Cylinder	247.00

AIR-ACETYLENE TARGET® TORCH KITS

- 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
Tip(s)

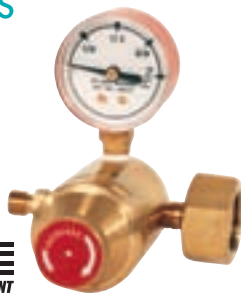


330-1777

Model No.	Mfg. No.	Tip No.	Reg. FTG	Price/Each
330-1777	KX-3B	GA-3, GA-11	"B" Cylinder	514.00
330-1780	KX-7B	GA-8	"B" Cylinder	405.00

AIR-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



Model No.	Mfg. No.	Connection	Price/Each
330-1423	EA-1G	"B" Cylinder	143.00
330-1426	EA-2G	"MC" Cylinder	143.00

HOTSPOTTER ALL-PURPOSE PROPANE HEAVY-DUTY TORCH KITS

- All-purpose propane flame tool operates off the pressure of a standard propane tank - no regulator required
- 31" handle
- 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
- 500 000 BTU rating
- Includes:**
10' neoprene hose
On/off valve
Durable cast iron and steel nozzle
Striker



Model No.	Mfg. No.	Price /Each
312-4904	WB-101	125.00

PROPANE TORCH KITS

- Lightweight and durable steel construction
- Designed for heavy-duty outdoor applications such as weed burning, ice melting, drying/heating, asphalt, tar and road repair
- 500 000 BTU output
- On/Off brass needle and flame adjustable valve
- 10' hose with POL excess flow check valve and B-connection, no regulator required
- Includes:**
Torch
Spark lighter
10' hose



Model No.	Mfg. No.	Price /Each
TTU321	KP-320A	122.00



AUTO-IGNITE HAND TORCHES

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



Model No.	Mfg. No.	Replacement Tip End	Price /Each
333-9120750400	8Q-44TP	4TPESL	163.00

AIR-ACETYLENE FEATHER FLAME® SCREW-IN TIPS

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



Model No.	Mfg. No.	Tip "	Soft Solder"	Price/Each
330-1054	BA-1	1/16	1/16 - 1/8	33.10
330-1057	BA-2	1/8	1/8 - 1/4	32.80
330-1060	BA-3	3/16	1/4 - 1/2	30.30
330-1066	BA-4	1/4	1/2 - 1	30.30
330-1069	BA-5	5/16	1 - 1 1/2	38.00
330-1072	BA-6	7/16	2 - 4	42.30



GAS WELDING OUTFITS & ACCESSORIES

CLASSIC TORCH HANDLES 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

Model No. TTT898
Mfg. No. 1401150
Price/Each \$440.00



CLASSIC TORCH HANDLES NO. 85

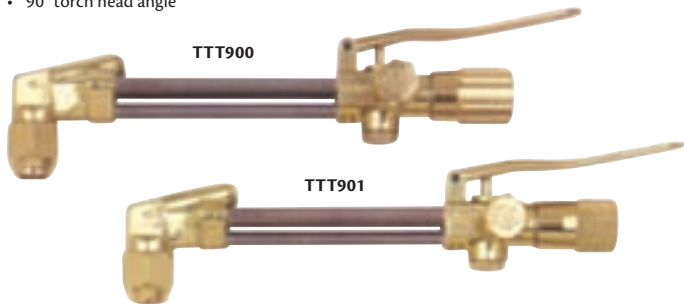
- Silver brazed twin tube construction for safety and durability
- Equipped with FlashGuard® check valves
- Capacity: cuts 5", welds to 1/2"
- 8 1/2" length

Model No. TTT899
Mfg. No. 1401340
Price/Each \$349.00



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 seals and O-rings from abuse
- Solid forged lever for exceptional strength
- Ease-on cutting oxygen control for smoother starts
- 90° torch head angle



HARRIS® INFERNO® AIR FUEL ACETYLENE KITS & TIPS

- Brazing and soldering without oxygen
- Hottest air fuel tip available
- Compatible with all competitive quick connect air fuel torches
- Results in faster brazing and soldering
- Precision manufactured for the best flame on the market today
- Kit includes: Quick connect handle, regulator (CGA 520), tip (TTU646) and hose
- Every tip made in USA by Harris® to exacting standards

Model No. TTU641
Mfg. No. 4400085
Price/Each \$402.00



TTU641



TTU646



Model No.	Mfg. No.	Uses Torch Head	Price/Each
TTT900	1300340	43-2	515.00
TTT901	1300380	85	506.00

ACETYLENE TIPS

Model No.	Mfg. No.	Tip"	Gas Flow @ 14 PSI SCFH	Soft Solder"	Brazing"	Price /Each
TTU645	1601110	1/4	3.10	Up to 1	Up to 1/2	113.00
TTU646	1601111	5/16	5.80	3/4 - 1 1/2	1/4 - 3/4	134.00
TTU647	1601112	3/8	6.60	1 - 2	1/2 - 1	147.00
TTU648	1601113	7/16	9.80	1 1/4 - 3	7/8 - 1 5/8	156.00

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: "F" torches are NOT FOR USE with acetylene

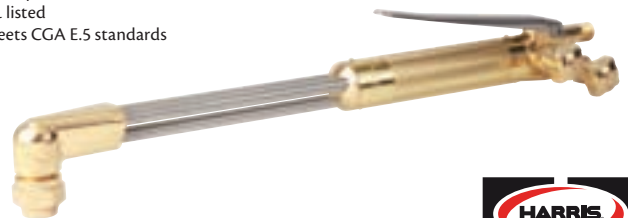


TTT905

Model No.	Mfg. No.	Head Angle°	Length"	Price/Each
POSITIVE PRESSURE "E" TORCHES				
TTT902	1003464	70	21	685.00
TTT903	1003440	90	21	685.00
TTT904	1003351	70	36	912.00
TTT905	1003441	90	36	912.00
LOW PRESSURE "F" INJECTOR TORCHES				
TTT906	1003370	70	21	685.00
TTT907	1003470	90	21	685.00
TTT910	1003400	70	36	912.00
TTT911	1003480	90	36	912.00

STRAIGHT CUTTING V242 HAND CUTTING TORCHES

- Victor® compatible medium-duty torch
- Designed for use with all fuel gases
- Cutting capacity: 6"
- Uses Victor® series 1 tips
- Features stainless steel cutting lever, ease on cutting valve, triangular tube design and Flashguard® check valves
- Equal pressure mixer
- UL listed
- Meets CGA E.5 standards



Model No.	Mfg. No.	Head Angle°	Length"	Price /Each
TTV175	1004639	70	18	367.00
TTV176	1004618	90	18	367.00
TTV177	1004637	70	21	367.00
TTV178	1004603	90	21	367.00

GAS WELDING OUTFITS & ACCESSORIES



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



Model No.	Mfg. No.	Gas	Max Inlet PSIG	Delivery Pressure Range, PSIG	Delivery Pressure Gauge, PSIG	Supply Pressure Gauge, PSIG	Inlet Connection	Outlet Connection	Price /Each
TTT920	3000380	Acetylene	500	0-15	30	400	CGA510	9/16"-18 LH	249.00
TTT921	3000450	Propane*	500	0-50	60	400	CGA510P	9/16"-18 LH	249.00
TTT922	3000510	Oxygen	3000	0-100	150	4000	CGA540	9/16"-18 RH	249.00
TTT923	3000540	Ar, N ₂ , He	3000	0-100	150	4000	CGA580	9/16"-18 RH	249.00
TTT924	3000550	Industrial Air	3000	0-100	150	4000	CGA590	9/16"-18 RH	249.00
TTT925	3000806	N ₂	3000	0-200	400	4000	CGA580	9/16"-18 RH	303.00

GAUGE GUARDS

TTT926	4300140	Fuel Gas	49.90
TTT927	4300139	Oxygen	49.90

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

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



Model No.	Mfg. No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection	Price /Each
331-3575	152X-80	Oxygen	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA540	9/16"-18 RH (M)	158.00
331-3585	152Y-15	Acetylene	400/2-15	2", 400 PSI	2", 30 PSI, RL	CGA510	9/16"-18 LH (M)	158.00



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



Model No.	Mfg. No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection	Price /Each
331-3665	153X-125	Oxygen	3000/5-125	2 1/2", 4000 PSI	2 1/2", 200 PSI	CGA540	9/16"-18 RH (M)	305.00
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)	305.00



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
- Forged brass body
- Chrome plated housing cap
- Self re-seating external pressure relief valve on oxygen, inert gases and carbon dioxide models
- Sintered bronze inlet filter
- UL listed



Model No.	Mfg. No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection	Price /Each
331-4385	452X-80	Oxygen	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA540	9/16"-18 RH (M)	144.00
331-4380	452X-175	Oxygen	3000/5-175	2", 4000 PSI	2", 300 PSI	CGA540	9/16"-18 RH (M)	144.00
331-4395	452Y-15	Acetylene	400/2-15	2", 400 PSI	2", 30 PSI, RL	CGA510	9/16"-18 LH (M)	144.00
TTT120	452C-175	Carbon Dioxide	3000/5-175	2", 4000 PSI	2", 300 PSI	CGA320	5/8"-18 RH (F)	144.00
331-4285	452C-300	Carbon Dioxide	3000/20-300	2", 4000 PSI	2", 400 PSI	CGA320	5/8"-18 RH (F)	240.00
TTT118	452N-80	Inert Gases*	3000/4-80	2", 4000 PSI	2", 100 PSI	CGA580	5/8"-18 RH (F)	146.00
331-4340	452IN-300	Inert Gases*	3000/20-300	2", 4000 PSI	2", 400 PSI	CGA580	5/8"-18 RH (F)	206.00
804-1975	452IN-450	Inert Gases*	3000/30-450	2", 4000 PSI	2", 600 PSI	CGA580	5/8"-18 RH (F)	226.00



*Argon, nitrogen, helium

GAS WELDING OUTFITS & ACCESSORIES

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.



Model No.	Mfg. No.	Description	Price/Each
TTT893	GP31X	Oxygen Gauge Protector	20.90
TTT894	GP31Y	Acetylene Gauge Protector	20.90



TTT893



TTT894

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



Model No.	Mfg. No.	Gas Service	Max Inlet/Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection	Price /Each
331-1540	190AR-50	Argon	0-50	2", 4000 PSI	2", 50 SCFH	CGA580	5/8"-18 RH (F), 0.32" Orifice	127.00
331-1575	190CD-45	Carbon Dioxide	0-45	2", 4000 PSI	2", 50 SCFH	CGA320	5/8"-18 RH (F), 0.32" Orifice	127.00



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



Model No.	Mfg. No.	Gas Service	Flow Capacity (SCFH)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection	Price /Each
331-1610	191AR-60	Argon	50	1 1/2", 4000 PSI	60	CGA580	5/8"-18 RH (M)	159.00
TTT131	191CD-60	Carbon Dioxide	50	1 1/2", 4000 PSI	60	CGA320	5/8"-18 RH (F)	165.00

WITH 6-FOOT HOSE INCLUDED

331-4150	191AR-60-6HSP	Argon	50	1 1/2", 4000 PSI	60	CGA580	5/8"-18 RH (M)	190.00
331-3200	191CD-60-6HSP	Carbon Dioxide	50	1 1/2", 4000 PSI	60	CGA320	5/8"-18 RH (F)	199.00



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-plated housing cap
- Internal safety pressure relief design
- Sintered bronze inlet filter
- UL listed



Model No.	Mfg. No.	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection	Price /Each
331-1638	195AR-60	Argon	50	2", 4000 PSI	60	CGA580	5/8"-18 RH (F)	219.00
331-4166	195AR-60-680	Argon	50	2", 6000 PSI	60	CGA680	5/8"-18 RH (F)	228.00
331-4175	195CD-60	Carbon Dioxide	50	2", 4000 PSI	60	CGA320	5/8"-18 RH (F)	226.00



GAS WELDING OUTFITS & ACCESSORIES



195FM SERIES - FLOWMETERS

- 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



Model No.	Mfg. No.	Gas Service	Max Inlet Preset (PSI)	Inlet Connection	Outlet Connection	Flowmeter Flow Range (SCFH)	Price /Each
331-4185	195FM	Argon, Carbon Dioxide	50	1/4" NPT(M)	5/8"-18 RH(F)	0-60 Ar	116.00



198CD ELECTRICALLY HEATED REGULATORS/FLOWMETERS FOR CARBON DIOXIDE

- Designed for applications requiring extremely high gas flow rates
 - Built-in, thermostatically-controlled electric heater keeps the carbon dioxide 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 carbon dioxide cylinders



Model No.	Mfg. No.	Gas Service	Max Delivery Pressure (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection	Price /Each
331-4210	198CD-60	Carbon Dioxide	50 (Preset)	2", 4000 PSI	60	CGA320	5/8"-18 RH(F)	429.00



BRASS PRESSURE GAUGES

- Dual scale
- Lexan™ cover lens
- 1/4" NPT inlet



Model No.	Description	Price /Each
NT616	2" x 100 PSI	9.60
NT617	2" x 200 PSI	9.60
NT618	2" x 30 PSI – Red line	9.60
NT619	2" x 400 PSI	9.60
NT620	2" x 4000 PSI	10.25
NT622	2 1/2" x 200 PSI	10.25
NT623	2 1/2" x 30 PSI – Red line	10.25
NT624	2 1/2" x 400 PSI	10.25
NT625	2 1/2" x 4000 PSI	10.25



STEEL PRESSURE GAUGES

- Dual scale
- Lexan™ cover lens



Model No.	Mfg. No.	Scale Ranges	Entry Type	Price /Each
1 1/2" STEEL CASE, 1/8" NPT INLET				
331-2980	G15-030RL	0-30 PSI – Red Line	Side	12.20
331-2985	G15-100	0-100 PSI	Side	12.20
331-2990	G15-400	0-400 PSI	Side	12.20
331-2995	G15-4000	0-4000 PSI	Side	14.60
331-2445	GR15-4000	0-4000 PSI	Rear	14.60
2" STEEL CASE, 1/4" NPT INLET				
331-2405	G20-050CF	0-50 SCFH	Side	12.50



PROPANE REGULATORS

- High pressure industrial/commercial regulator
- Vapour service with portable torches or construction heaters
- Rated for approximately 2 000 000 BTU
- Includes fittings: 0 – 60 PSIG
- **Hose sold separately**

Model No. TTV219
Price/Each \$55.50



PROPANE HOSES

- For use with propane regulator
- Quality flexible hose
- 350 PSI rating
- CGA approved

Model No.	Mfg. No.	Length'	Price /Each
722-1070	HP-6	6	22.40
722-1010	HP-10	10	32.40
722-1030	HP-20	20	59.60
722-1040	HP-25	25	70.10



4 IN 1 CUTTING ATTACHMENT

CIRCLES-STRAIGHT CUTS-BEVELS-REGULAR LINE CUTS

- Converts any standard torch into an accurate convenient multi-use tool
- Cut perfect circles up to 25" in diameter
- Make precision straight edge and end cuts
- Adjustable guide wheels provide a steady base making it easy to follow irregular patterns and odd cuts

Model No. TTV221
Price/Each \$34.00

weldcote
metals



CHARIOT CUTTING GUIDE

- Cuts circles up to 39" in diameter
- Cuts holes as small as 5/8" when used without the axles
- Bevels circles up to 36" in diameter
- Cut straight, irregular shapes, circles and bevel with this versatile tool
- Plated steel construction at heat stress points
- Universal bushing fits all conventional torches

Model No. 496-1040
Mfg. No. 24219
Price/Each \$134.00

flange wizard tools



MAGNETIC CIRCLE LAYOUT & BURNING GUIDE

- Layout tool with sliding soapstone holder and 360° scale on the magnetic base
- Cuts circles up to 30" in diameter
- Mark bolt circles and hole locations in a snap with this layout scale and sliding soapstone holder
- As a circle burning guide, use this same tool to cut a round plate
- Magnet is strong enough to support the weight of your torch, which frees your hands for more cutting control
- Never use the magnetic base or suction cups when cutting small holes

Model No. 496-1050
Mfg. No. 28439
Price/Each \$146.00

flange wizard tools



CIRCLE WIZ CUTTING ATTACHMENT

- Made of finished high quality steel
- Universal bushing will adapt to any size or make of conventional cutting torch
- Will cut holes from 5/8" to 8" in diameter (see 496-1040 for larger holes)
- Simply slide the center pin along the hex arm to attain the proper radius of hole desired
- Place the sharpened point in your center mark and you are ready to cut

Model No. 496-1167
Mfg. No. CW-300
Price/Each \$95.40

flange wizard tools



BALLOON FILLER REGULATORS

ECONOMY BALLOON BLOWERS

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

Model No.	Mfg. No.	Price/Each
331-9000	229	41.60



STANDARD BALLOON BLOWERS

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

Model No.	Mfg. No.	Price/Each
331-9020	230	64.00



PREMIUM BALLOON BLOWERS

- 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

Model No.	Mfg. No.	Price/Each
331-9130	230HGA	85.70



GENTEC®
GENSTAR TECHNOLOGIES

See pages 1115 - 1117 for
Pipe Layout Measuring Tools



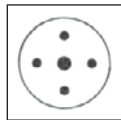


CUTTING TIP CHART

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

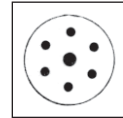
- For general hand or machine cutting
- Acetylene-oxygen
- Medium preheat
- Fits Airco® 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000 and 9500 torches



Model No.	Size	Price/Each
TTU465	00	14.50
TTU466	0	14.50
TTU467	1	14.50
TTU468	2	14.50
TTU469	3	14.50
TTU470	4	14.50
328-1351	5	16.10
328-1354	6	16.10

AIRCO® 164/ALC 803 STYLE CUTTING TIPS

- For general, cast iron and stainless steel cutting
- Acetylene-oxygen
- Very high preheat
- Fits Airco® 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000 and 9500 torches



Model No.	Size	Price/Each
TTU471	00	14.50
TTU358	0	14.50
TTU359	1	14.50
TTU360	2	14.50
TTU361	3	14.50
TTU362	4	14.50
TTU472	5	14.50
TTU473	6	14.50
TTU474	7	14.50
328-1468	8	17.30

AIRCO® 261/ALC 829 STYLE CUTTING TIPS

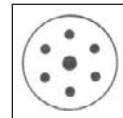
- For general cutting, two-piece tip for hand cutting
- Propane or oxygen-natural gas
- High preheat
- Fits Airco® 2900, 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000 and 9500 torches



Model No.	Size	Price/Each
328-1681	00	21.40
TTU475	0	14.50
TTU476	1	14.50
TTU477	2	14.50
TTU478	3	14.50
TTU479	4	14.50
TTU480	5	14.50
328-1702	6	21.40
328-1705	7	21.40
328-1708	8	24.10

PUROX® 4202/ESAB STYLE CUTTING TIPS

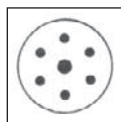
- For general cutting
- Acetylene-oxygen
- Medium preheat
- Fits CW-200, CW-202, CW-300 Type E torches and C-205 machine torch



Model No.	Size	Price/Each
TTU481	3	14.50
TTU482	4	14.50
TTU483	5	14.50
TTU484	7	14.50
TTU485	9	14.50
328-3238	11	18.20
328-3241	13	18.20

SMITH® MC12 STYLE CUTTING TIPS

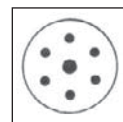
- For hand cutting with oxy-acetylene
- Medium preheat
- Fits Smith® cutting assemblies MC505, MC509, AC305, and AC309



Model No.	Size	Price/Each
TTU530	1	20.70

SMITH® SC12 STYLE CUTTING TIPS

- For hand or machine cutting with oxy-acetylene
- Medium preheat
- Fits Smith® cutting attachments Silver Star and MC40
- Fits Smith® cutting torches Tuf Tony and Silver Star
- Fits Smith® machine torches SC770, SC771, SC780A, SC781A and SC782A



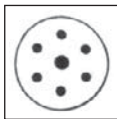
Model No.	Size	Price/Each
TTU531	1	21.30

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HARRIS® 6290 STYLE CUTTING TIPS

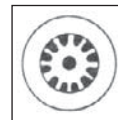
- For general hand cutting
- Acetylene-oxygen
- Medium preheat
- Fits Harris® 42-3, 62-3, 72, 72A, 73, 73A and 85 torches



Model No.	Size	Price/Each
TTU458	000	10.95
TTU459	00	10.95
TTU349	0	10.60
TTU350	1	10.60
TTU351	2	10.60
TTU352	3	10.60
TTU460	4	10.95
TTU461	5	10.95
TTU462	6	10.95

HARRIS® 6290-NX STYLE CUTTING TIPS

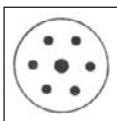
- For general hand cutting
- Propane or oxygen-natural gas
- Medium preheat
- Fits Harris® 42-3, 49AF, 49F, 62-3, 72, 73, 85 and 142 torches



Model No.	Size	Price/Each
TTU463	000	10.95
328-2125	00	12.70
TTU353	0	10.60
TTU354	1	10.60
TTU355	2	10.60
TTU356	3	10.60
TTU357	4	10.60
TTU464	5	10.95
328-2146	6	12.70

VICTOR® 1-101 STYLE CUTTING TIPS

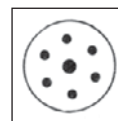
- For general cutting
- Acetylene-oxygen
- Machine preheat for hand and machine cutting
- Fits 2460, CA 1060, ST, SST and 1400C machine torches



Model No.	Size	Price/Each
TTU441	000	11.05
TTU333	00	11.05
TTU334	0	11.05
TTU335	1	11.05
TTU336	2	11.05
TTU337	3	11.05
TTU338	4	11.05
TTU339	5	11.05
TTU442	6	11.05
TTU443	7	11.05
TTU444	8	11.05

VICTOR® 3-101 STYLE CUTTING TIPS

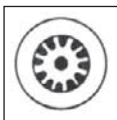
- For general hand cutting
- Acetylene-oxygen
- Medium preheat
- Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800 and C 1400 torches



Model No.	Size	Price/Each
TTU448	000	10.65
TTU449	00	10.65
TTU340	0	10.60
TTU341	1	10.60
TTU342	2	10.60
TTU343	3	10.60
TTU450	4	10.65
TTU451	5	10.65

VICTOR® GPN STYLE CUTTING TIPS

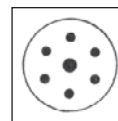
- For general cutting
- Propane or oxygen-natural gas
- Medium preheat for hand and machine cutting
- Fits 2450, CA 1060, CAN 1060, ST, SST, STN and 1400C machine torches



Model No.	Size	Price/Each
328-3826	000	13.60
TTU452	00	10.95
TTU344	0	10.60
TTU345	1	10.60
TTU346	2	10.60
TTU347	3	10.60
TTU348	4	10.60
TTU453	5	10.95
328-3850	6	15.30
328-3853	7	15.30
328-3856	8	15.30

VICTOR® 1-118 STYLE CUTTING TIPS

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



Model No.	Size	Price/Each
328-4015	0	35.90
TTU445	2	24.05
TTU446	4	24.05
TTU447	6	36.70
328-4027	8	63.60

VICTOR® 3-GPN STYLE CUTTING TIPS

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



Model No.	Size	Price/Each
TTU454	0	10.95
TTU455	1	10.95
TTU456	2	10.95
TTU457	3	10.95

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GAS WELDING OUTFITS & ACCESSORIES



HEATING TIPS

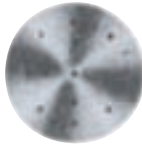
TIP DIAMETERS AS FOLLOWS:

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



Model No.	Mfg. No.	Tip Size	Thread"	Price /Each
FOR USE WITH LP OR NATURAL GAS				
328-1015	221-1	1	1/2-25	59.20
328-1018	221-2	2	1/2-25	59.20
328-1021	221-3	3	1/2-25	91.50
328-1024	221-4	4	1/2-25	128.00
FOR USE WITH ACETYLENE GAS				
328-1066	230-2	2	7/16-20	50.10
328-1069	230-3	3	7/16-20	62.20
328-1072	231-1	1	1/2-25	43.70
328-1075	231-2	2	1/2-25	50.10
328-1078	231-3	3	1/2-25	62.20

221



230/231

HEATING TIP ADAPTORS FOR CUTTING TORCHES

- For use with the designated cutting torches



Airco



Harris



Victor



Model No.	Mfg. No	Seat Style	Thread"	Price/Each
328-1252	801-S	Airco® Air Products	1/2-25	23.60
328-2305	1361-S	Harris® 6290	1/2-25	21.90
328-3628	2301-S	Victor® 1 Series	1/2-25	21.90

OXY-ACETYLENE & OXY-HYDROGEN HEATING NOZZLES

- Victor® compatible
- Ideal for preheating and straightening, etc.



Model No.	Mfg. No.	Tip Size	Duty	Oxygen PSIG	Acetylene Fuel PSIG	Oxygen SCFH	Acetylene Fuel SCFH	Victor® Equivalent	Fits	Price /Each
TTU284	172H-2	2	Medium	4/8	4/8	3/10	3/9	2-MFA-1		75.30
TTU285	172H-4	4	Medium	8/12	6/10	7/22	6/20	4-MFA-1		75.30
331-1345	172H-6	6	Medium	10/15	8/12	15/44	14/40	6-MFA-1	142T	75.30
331-1355	172H-8	8	Medium	20/30	10/15	33/88	30/80	8-MFA-1		75.30
TTU286	173H-4	4	Heavy	8/12	6/10	7/22	6/20	4-MFA		112.00
331-1495	173H-6	6	Heavy	10/15	8/12	15/44	14/40	6-MFA	143T/143TL/	112.00
331-1500	173H-8	8	Heavy	20/30	10/15	33/88	30/80	8-MFA	143TLH	113.00
TTU287	173H-10	10	Heavy	30/40	12/15	44/110	40/100	10-MFA		142.00

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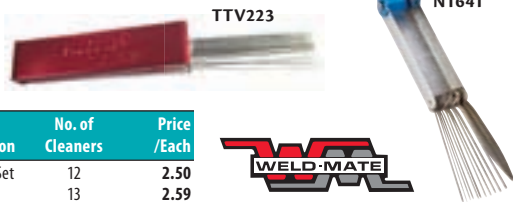
See pages 1120 - 1128
for Welding Helmets
& Lenses



GAS WELDING OUTFITS & ACCESSORIES

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



Model No.	Description	No. of Cleaners	Price /Each
NT641	Standard Set	12	2.50
TTV223	King Set	13	2.59



TIP DRILL KITS

- Cleans cutting 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

Model No. NT660
Price/Each \$11.35



WELD FILLET GAUGES

- 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

Model No. 704-5015
Mfg. No. MWFG
Price/Each \$31.20



TIP-NIP TIP REFACERS

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

Model No. NT820
Price/Each \$22.50



THREE-FLINT LIGHTERS

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



Model No.	Mfg. No.	Description	Price/Each
322-1240	4501	Spark Lighter	7.14
322-1320	5012X	Three-Flint Renewal, 4/Pkg.	6.00

UNIVERSAL SINGLE FLINT LIGHTERS

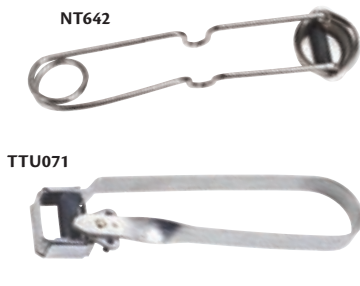
- Square hood wrapped around the frame
- Under the hood is the round file which spins, always assuring a fresh spark
- Replaceable flints



Model No.	Mfg. No.	Description	Price/Each
322-1540	3001	Spark Lighter	4.34
322-1560	3001X	Single Flint Renewal, 5/Holder	2.04

FLINT LIGHTERS

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



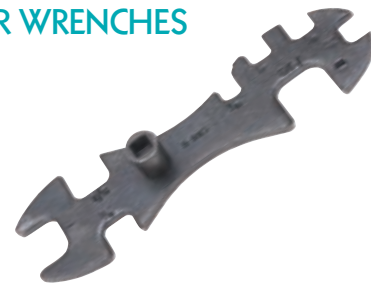
Model No.	Description	Price/Each
NT642	Single Flint Lighter	2.50
TTU432	Single Flint Lighter w/ 5 Flint Holders	10.25
NT663	Flints, 5 per Holder	1.75
TTU071	Three-Flint Lighter	3.35
TTU072	Flints - Each	0.95



10-WAY CYLINDER WRENCHES

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

Model No. BZ944
Mfg. No. D1013
Price/Each \$7.67



TANK KEYS

- For B and MC acetylene valves, double ended

Model No. TTU322
Mfg. No. B-MC
Price/Each \$0.60



GAS WELDING OUTFITS & ACCESSORIES



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.

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
- 200 PSIG maximum operating pressure



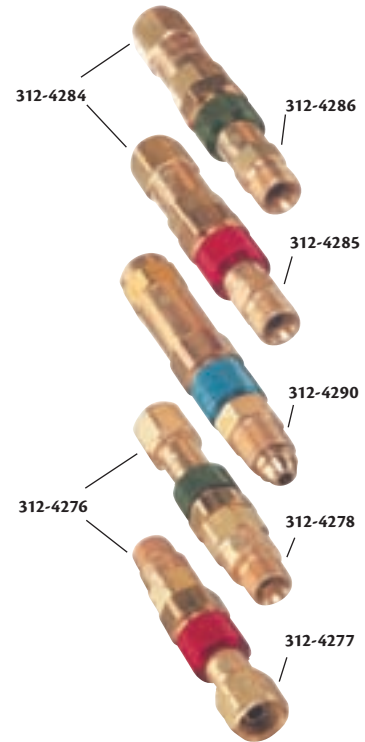
WESTERN
ENTERPRISES

QUICK CONNECT SETS

Model No.	Mfg. No.	Description	Components	Price/Each
312-4276	QDB10	Torch-to-Hose Set w/Check Valves	QDB11—Fuel Gas/QDB12—Oxygen/Inert	74.80
312-4280	QDB20	Hose-to-Hose Set w/Check Valves	QDB21—Fuel Gas/QDB22—Oxygen/Inert	78.80
312-4284	QDB30	Regulator-to-Hose w/Check Valves	QDB31—Fuel Gas/QDB32—Oxygen	78.80

QUICK-CONNECTS INDIVIDUAL UNITS

Model No.	Mfg. No.	Description	Components	Price/Each
TORCH-TO-HOSE				
312-4277	QDB11	Fuel Gas w/Check Valve	QDB200—Male Plug/QDB201—Female Socket	41.30
312-4278	QDB12	Oxygen/Inert Gas w/Check Valve	QDB100—Male Plug/QDB101—Female Socket	41.30
HOSE-TO-HOSE				
312-4281	QDB21	Fuel Gas w/Check Valve	QDB205—Male Plug/QDB206—Female Socket	41.40
312-4282	QDB22	Oxygen/Inert Gas w/Check Valve	QDB105—Male Plug/QDB106—Female Socket	41.40
REGULATOR-TO-HOSE				
312-4285	QDB31	Fuel Gas w/Check Valve	QDB205—Male Plug/QDB206—Female Socket	41.40
312-4286	QDB32	Oxygen w/Check Valve	QDB105—Male Plug/QDB106—Female Socket	43.10
312-4287	QDB33	Inert Gas—Regulator-to-Hose	QDB300—Male Plug/QDB301—Female Socket	41.30
312-4290	QDB34	Inert Gas—Hose-to-Machine	QDB302—Male Plug/QDB303—Female Socket	41.30



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 125 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

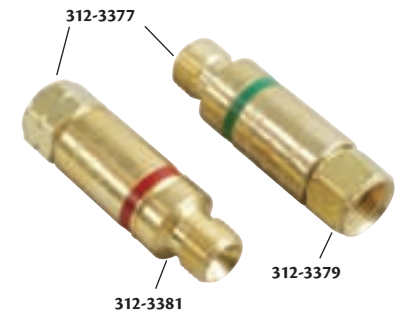


WESTERN
ENTERPRISES

Model No.	Mfg. No.	Description	Components	Price/Each
312-3376	FA-10	Flashback Arrestor Set, Torch Style	FA-100P, FA-200P	73.60
312-3377	FA-30	Flashback Arrestor Set, Regulator Adaptor Style	FA-130P, FA-230P	80.20

FLASHBACK ARRESTORS INDIVIDUAL UNITS

Model No.	Mfg. No.	Description	Price/Each
312-3378	FA-100P	Flashback Arrestor, Oxygen, Torch Style	41.00
312-3380	FA-200P	Flashback Arrestor, Fuel Gas, Torch Style	41.00
312-3379	FA-130P	Flashback Arrestor, Oxygen, Regulator Adaptor Style	44.90
312-3381	FA-230P	Flashback Arrestor, Fuel Gas, Regulator Adaptor Style	44.90



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
- B-Size (9/16"-18 Thread)



WESTERN
ENTERPRISES

Model No.	Mfg. No.	Description	Service	Price/Each
312-1572	111	Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022	46.60
312-1584	112	Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023	46.60
312-1852	411	Inert Gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032	58.70
312-1854	412	Water, Industrial Air LH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-033	66.90



GAS WELDING OUTFITS & ACCESSORIES

BULK SINGLE LINE CORRUGATED WELDING HOSES, 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
- Two 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
- Working pressure: 200 PSI, 1.38 Mpa
- **Sold in full 700' reels, priced per foot**



HBD/Thermoid, Inc.

Model No.	Mfg. No.	Nominal I.D."	Nominal O.D."	Min. Bend Radius"	Price /Each
GREEN HOSES					
302-5005	00521803205	3/16	0.44	1.25	0.82
302-5020	00521804205	1/4	0.53	1.50	1.03
302-5070	00521806400	3/8	0.72	2.25	1.46
RED HOSES					
302-5000	00521903205	3/16	0.44	1.25	0.82
302-5015	00521904205	1/4	0.53	1.50	1.03
302-5065	00521906400	3/8	0.72	2.25	1.46

TULINE TWIN WELDING HOSE ASSEMBLIES

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



HBD/Thermoid, Inc.

Model No.	Mfg. No.	Nominal I.D."	Length'	Price /Each
GRADE R HOSES				
PB087	00521403225	3/16	25	36.80
PB090	00521484225	1/4	25	41.90
PB091	00521484250	1/4	50	69.30
PB092	00521484290	1/4	100	133.00
PB094	00521405252	5/16	50	106.00
PB095	00521405291	5/16	100	180.00
302-1260	00521406251	3/8	50	146.00
302-1270	00521406290	3/8	100	269.00

Model No.	Mfg. No.	Nominal I.D."	Length'	Price /Each
GRADE T HOSES				
PB069	00521584225	1/4	25	67.60
PB070	00521584250	1/4	50	120.00
PB071	00521584290	1/4	100	223.00
PB073	00521585250	5/16	50	153.00
302-7170	00521586250	3/8	50	154.00
302-7180	00521586290	3/8	100	289.00

HOSE REPAIR KITS

- 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
- Tough polyethylene case includes handy chart that identifies and describes fittings in each compartment
- **Includes:**
 - Hose nuts & nipples
 - Splicers
 - Couplers
 - Ferrules
 - Crimping tool

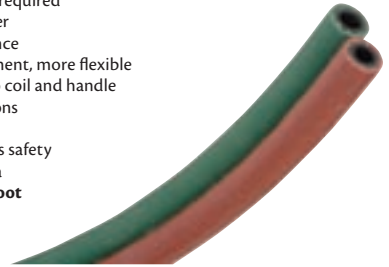
Model No. NP497
Mfg. No. CK-24
Price/Each \$113.00



BULK TULINE TWIN WELDING HOSES, GRADE T

HBD/Thermoid, Inc.

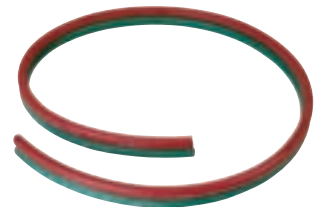
- For use with all fuel gases and where a flame and oil resistant tube and cover are required
- CR (polychloroprene) tube and cover offers medium-high fuel gas resistance
- Two spiral polyester yarn reinforcement, more flexible than braid reinforced hose, easier to coil and handle
- Conforms to RMA/CGA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



Model No.	Mfg. No.	Nominal I.D."	Nominal O.D."	Min. Bend Radius"	Price /Each
302-7010	00521504200	1/4	0.53	1.50	2.14

BULK TULINE TWIN WELDING HOSES, GRADE R

- **Red hose** is for acetylene use only, and where cover must resist abrasion, weather and ozone
- Heat resistant EPDM tube and cover
- Two 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
- Working pressure: 200 PSI, 1.38 Mpa
- **Sold in full 700' reels, priced per foot**



HBD/Thermoid, Inc.

Model No.	Mfg No.	Nominal I.D."	Nominal O.D."	Min. Bend Radius"	Price/Each
302-1000	00521403200	3/16	0.44	1.25	1.14
302-1010	00521404200	1/4	0.53	1.50	1.28
302-1020	00521405200	5/16	0.59	2.00	1.86
302-1030	00521406200	3/8	0.66	2.25	2.54

MIG/TIG INERT GAS HOSES

- Working pressure: 300 PSI
- Connection: 5/8" - 18 RH(M)
- I.D.: 1.4"
- Length: 6'



Model No.	Mfg. No.	Price/Each
TTU563	HA14-0061N	17.40

EMERGENCY WELDING HOSE REPAIR KITS

- **Plastic kit box contains:**
 - Standard jaw pincers
 - Oxygen "B" RH brass nuts
 - Acetylene "B" LH brass nuts
 - 1/4" brass nipples
 - 1/4" brass hose menders
 - 3/16" brass nipples
 - 3/16" brass hose menders
 - 10 1/2" 2-ear clamps
 - 40 9/16" 2-ear clamps
 - 4 9/16" twin clamps
- Model No. NP512
- Mfg. No. WK-82
- Price/Each \$129.00



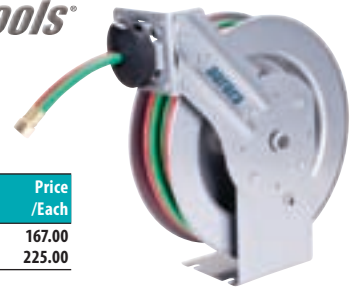
REELS & WELDING ACCESSORIES

WELDING HOSE REELS

- Heavy-duty, reinforced steel stampings for increased strength
- 1/4" oxygen and acetylene twin hose
- Leakproof double O-ring seals
- Compact design allows reels to fit in tight locations
- Multi-position guide arms for multiple mounting options
- Kinkless, oil resistant high quality hose

- Spring rewind features long life spring with declutching arbor
- Grade R hose
- Durable, corrosion-resistant powder coat paint

aurora tools®



Model No.	Drive Type	Hose I.D."	Hose Length'	Max PSI	Oxygen Inlet & Outlet		Acetylene Inlet & Outlet		Dimensions			Wt lbs.	Price /Each
					W"	x	D"	x	H"				
TLZ487	Spring	1/4	25	300	9/16" x 18 UNF (Female)	9/16" x 18 UNF (Female)	8	x	14 3/4	x	13 5/8	25.9	167.00
TLZ488	Spring	1/4	50	300	9/16" x 18 UNF (Female)	9/16" x 18 UNF (Female)	8 5/8	x	20 1/2	x	20 1/2	42.2	225.00

HOSE REELS

- Heavy-duty, reinforced steel stampings for increased strength
- For use with air and water
- Compact design allows reels to fit in tight locations
- Multi-position guide arms for multiple mounting options
- Kinkless, oil resistant high quality hose

- Spring rewind features long life spring with declutching arbor
- Durable, corrosion-resistant powder coat paint
- Good for air and water

aurora tools®



Model No.	Drive Type	Hose I.D."	Hose Length'	Max PSI	Hose Outlet (M) NPT"	Reel Inlet (F) NPT"	Dimensions			Wt lbs.	Price /Each		
							W"	x	H"				
TLZ482	Spring	1/4	35	300	1/4	3/8	6	x	15 1/2	x	14	26.6	216.00
TLZ483	Spring	3/8	25	300	1/4	3/8	6	x	15 1/8	x	13 7/8	26.2	221.00
TLZ484	Spring	3/8	35	300	1/4	3/8	6 5/8	x	17 1/2	x	16 1/2	34.7	267.00
TLZ485	Spring	3/8	50	300	1/4	3/8	6 1/2	x	20	x	18 3/8	40.3	361.00
TLZ486	Spring	1/2	50	300	1/2	1/2	6 5/8	x	20 1/4	x	17 7/8	44.3	378.00

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

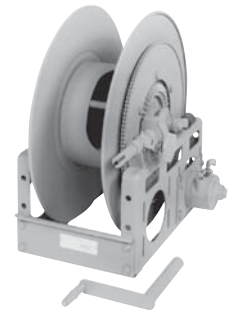
SWCR SERIES

- Non sparking ratchet assembly
- Declutching 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
- Auxiliary rewind and pinion brake standard



Hannay Reels®
The reel leader.

Model No.	Mfg. No.	Cable Capacity of Reel¹							Approx. Weight		Standard Roller Assembly	Price /Each
		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.		
SWCR												
886-1130	SWCR716-23-24-15.5G		85	85	60	60	60	40	85	120	R204	1407.00
TTT563	SWCR716-25-26-15.5B		-	-	-	-	60	50	91	126	R204	1451.00
TTT564	SWCR716-25-26-15.5A		-	-	100	-	-	-	106	141	R205	1662.00
WCR												
886-1921	WCR16-19-21		-	275	200	200	150	150	71	106	-	1038.00
TTT565	WCR16-23-24		-	-	-	-	300	200	78	113	-	1038.00

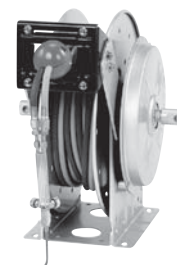
GAS WELDING REELS

SPRING REWIND TO HANDLE TWIN 1/4" THROUGH 3/8" WELDING HOSE

- Heavy-duty spring motor
- Non sparking ratchet assembly
- Declutching 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

Hannay Reels®
The reel leader.

Shown with optional hose and hose stop in the optional "TR" position



Model No.	Mfg. No.	Hose Capacity of Reel¹			Approx. Wt.		Standard Roller Assembly	Price /Each
		I.D." O.D."	1/4 0.53	3/8 0.66	Net lbs.	Ship lbs.		
TPV150	N416-17-18-8L	2/50	-	-	64	71	N204	1392.00
TPV151	N416-19-20-8L	-	2/50	-	68	75	N204	1572.00
TTT568	N416-19-20-10.5C	2/25	2/25	-	70	77	N204	923.00
886-1060	N416-19-20-8J	2/50	2/50	-	74	83	N204	992.00
TTT569	N416-23-24-10.5G	2/75	2/75	-	94	112	N204	1284.00
886-1080	N417-23-24-10.5G	2/100	2/100	-	95	115	N205	1284.00

Model No.	Mfg. No.	Description	Price /Each
886-1030	HS-3	Hose Stop	27.90

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

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



SEB837



SEB838



SAF847



SAF848



SAF837



LIQUID PROPANE (35-LB CYLINDERS)

Model No.	Dimensions				Cylinder Capacity	Wt. lbs.	Price /Each
	W"	x	D"	x H"			
SEB837*	30	x	17	x 37	2	70	486.00
SEB838*	17	x	17	x 69	2	85	583.00
SAF836	44	x	30	x 37	6	135	994.00
SAF847	44	x	30	x 74	12	270	1255.00

COMPRESSED GAS (9" DIAMETER CYLINDERS)

Model No.	Dimensions				Cylinder Capacity	Wt. lbs.	Price /Each
	W"	x	D"	x H"			
SAF837	44	x	30	x 74	10	210	1188.00
SAF848*	88	x	30	x 74	20	420	2099.00

*Consists of two units of the SAF837

*All-welded, fully assembled

ALUMINUM LPG CYLINDER LOCKER STORAGE

- Constructed of 100% welded aluminum, they won't rust, corrode or discolor
- 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.

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 – won't rust or discolor.

Easy to use rack positions cylinders securely and stores 20 and 33-lb. cylinders.

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

Cylinders stay clear of ground with strong floor plate.

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

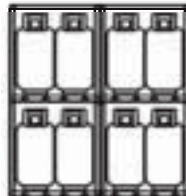
Complies with NFPA 58 and OSHA 1910.110 or CSA-B149.2.



SAI577



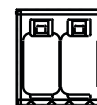
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SAI575



SAI574



SAI573



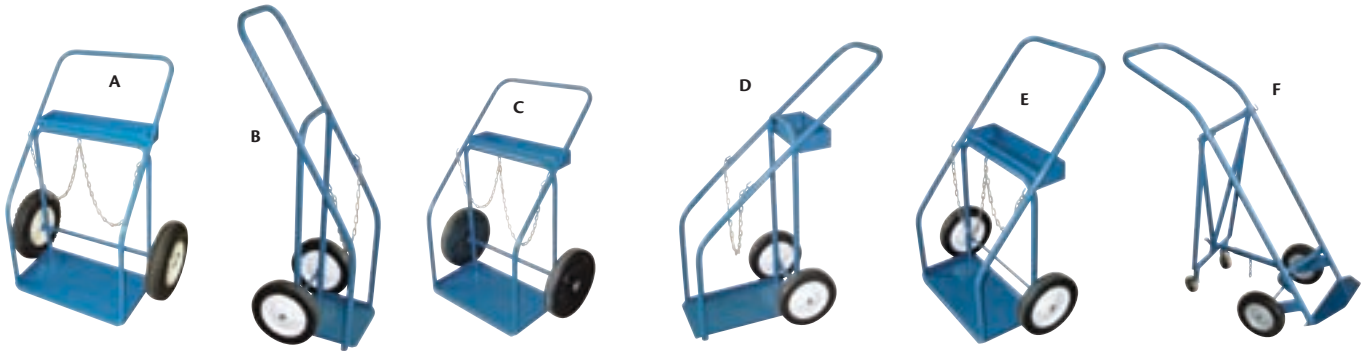
Model No.	Mfg. No.	Description	Cylinder Type	Capacity	Dimensions			Wt. lbs.	Price /Each
					W"	x	H" x D"		
SAI573	23009	4-Cylinder Vertical	LPG	4 - 20 or 33-lb cylinders	30	x	33 1/2 x 32	79	1588.00
SAI574	23010	8-Cylinder Vertical	LPG	8 - 20 or 33-lb cylinders	30	x	65 x 32	114	2122.00
SAI575	23011	16-Cylinder Vertical	LPG	16 - 20 or 33-lb cylinders	60	x	65 x 32	211	3847.00
SAI576	23006	10-Cylinder Vertical	Compressed Gas	Up to 10 comp. gas cylinders	30	x	65 x 32	102	1791.00
SAI577	23007	20-Cylinder Vertical	Compressed Gas	Up to 20 comp. gas cylinders	60	x	65 x 32	187	3284.00

REELS & WELDING ACCESSORIES



GAS CYLINDER CARTS

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



Model No.	Base W" x D"	Wheel Type	Capacity	Weight lbs.	Price /Each	
A	ML413	25 x 13	16" Dia. pneumatic	244 cu.ft. oxygen, 300 cu.ft. acetylene cylinders	55	349.00
B	ML414	12 x 10	10" Dia. semi-pneumatic	300 cu.ft. 9" Dia. cylinder	22	144.00
C	ML415	25 x 13	14" Dia. x 3" rubber	244 cu.ft. oxygen, 300 cu.ft. acetylene cylinders	55	299.00
D	ML416	12 x 18	10" Dia. semi-pneumatic	144 cu.ft. or 244 cu.ft. oxygen, 130 cu.ft. acetylene cylinders	27	145.00
E	ML417	19 x 10	10" Dia. semi-pneumatic	144 cu.ft. or 244 cu.ft. oxygen, 130 cu.ft. acetylene cylinders	30	145.00
F	TTT455	12 x 14	8" Dia. rubber semi-pneumatic	244 cu.ft. oxygen cylinder	30	349.00

MINI-MIG WELDING CARTS

MM-8 Series Cylinder Cart

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

Model No. ML419
Price/Each \$160.00



DUAL-CYLINDER DOLLIES

- Accommodates cylinders up to 12" in diameter, including a class 300 SCF industrial gas cylinder and a no. 5 acetylene cylinder
- Composite construction withstands extreme weather conditions
- Tough 16.5" diameter pneumatic wheels gives maneuverability on rough terrain
- 36" built-in tray holds tools, valves and torches
- Powder coat finish 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: 36.88" L x 23.5" W x 45" H
- Weight: 57 lbs.
- Load capacity: 500 lbs.

Model No. SAP856
Mfg. No. 7302-BK
Price/Each \$854.00



FOUR-WHEEL CYLINDER HAND TRUCKS

- Fully welded construction of heavy 11 and 10-gauge steel with 3/16" thick steel supports and 1" diameter by 14-gauge round steel tube for maximum strength
- These durable units include two 10.5" pneumatic tires to provide easy transportation of medical, industrial and commercial use gas cylinders
- Swing-down steel carriages allow use of rear swivel casters for additional safety and control
- Single cylinder trucks handle cylinders up to 12" in diameter; dual cylinder carts can handle cylinders up to 10" in diameter
- Heavy poly straps with cinch buckle system provide security during transport
- Epoxy powder coat finish for durability
- Load capacity: 1000 lbs.



MOBILE CYLINDER SUPPORTS

- Securely holds four cylinders up to 12" in diameter even in transit
- Constructed from 11-gauge, all-welded steel with grey enamel finish
- Includes push handle and easy rolling caster or without handle and casters for forklift attaching
- Dimensions: 24" W x 40" D x 36" H
- Load capacity: 1200 lbs.



Model No.	Mfg. No.	Description	Dimensions L" x W" x H"	Wt. lbs.	Price /Each
MK817	G-904	Single Cylinder Hand Truck	19 x 21 x 47	48	549.00
MK818	G-953	Dual Cylinder Hand Truck	20 x 31.5 x 47	65	625.00

Model No.	Mfg. No.	Description	Wt. lbs.	Price /Each
SB865	G-430	4 Unit Mobile Cylinder Cart	153	1117.00
SB866	G-450	4 Unit Mobile Cylinder Cart (forklift attachment)	122	999.00

REELS & WELDING ACCESSORIES

GAS CYLINDER POLY-STANDS

- 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 3" to 12 3/8" diameter
- Dimensions: 28" W x 14" D x 30" H
- Handling capacity of 400 lbs.
- Weight: 14 lbs.
- Colour: Yellow
- OSHA 29 CFR.1910 approved

Model No. SE966
Mfg. No. 7212-YE
Price/Each \$290.00



6-PACK CYLINDER RACKS

- 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
- Molded-in cap holders to keep cylinder caps at hand
- Cylinder rack has a loading capacity of 1200 lbs.
- Optional black rack ramp attaches for easy manoeuvring of cylinders
- Handling capacity of 1000 lbs.
- Handles 3" to 10" diameter cylinders
- OSHA 29 CFR.1910 approved

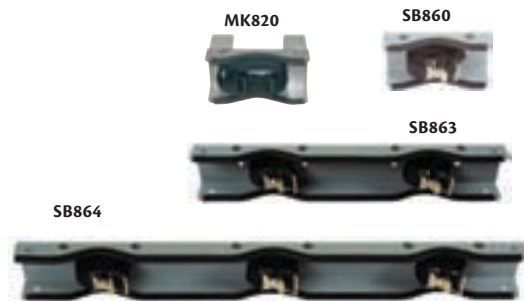


Model No.	Mfg. No.	Description	Dimensions			Wt. lbs.	Price /Each
			L"	W"	H"		
SE967	7202-YE	Cylinder Rack	48	x 31	x 41	62	758.00
SE968	7204-BK	Caster Frame	33 1/2	x 31 1/2	x 4 1/2	50	341.00
SE969	7205-BK	Bottom Straps	-	-	-	1	34.10
SE970	7203-BK	Rack Ramp	46	x 20	x 6	21	225.00

GAS CYLINDER BRACKETS

- Brackets are constructed of either epoxy powder coated 11-gauge hot rolled steel or type 304 stainless steel to endure the harshest environments
- Edges are protected with steel reinforced vinyl guarding to maintain cylinders and provide extra grip

- Support straps are 54" L x 1.5" W polypropylene with steel cinch buckle; strength rated at 1200 PSI
- Stainless steel models feature nylon snap buckles to provide durability under the most challenging environments
- Wall mount brackets support 4" to 12" diameter cylinders; bench mount brackets support 4" to 14" diameter cylinders



Model No.	Mfg. No.	Description	Dimensions					Wt. lbs.	Price /Each
			W"	x	D"	x	H"		
SB860	G-100	Single Cylinder Wall Bracket, Grey	8	x	2 1/4	x	4 1/4	3	36.70
MK819	G-100SS	Single Cylinder Wall Bracket, Stainless	8	x	2 1/4	x	4 1/4	3	119.00
SB861	G-150	Single Cylinder Bench Bracket, Grey	8	x	2 1/4	x	4 1/4	3	91.90
MK820	G-150SS	Single Cylinder Bench Bracket, Stainless	8	x	2 1/4	x	4 1/4	3	186.00
SB863	G-200	Double Cylinder Wall Bracket, Grey	23 3/4	x	2 1/4	x	4 1/4	9	89.30
MK821	G-200SS	Double Cylinder Wall Bracket, Stainless	23 3/4	x	2 1/4	x	4 1/4	9	239.00
SB864	G-300	Triple Cylinder Wall Bracket,	35 3/4	x	2 1/4	x	4 1/4	11	113.00

UNIVERSAL MODULAR CYLINDER BRACKETS

- Design your own configuration
- Units link together to customize the amount of cylinders needed
- Attaches to any wall securely and easily
- Yellow polyethylene
- Accommodates 3" to 10" diameter cylinders
- Straps included
- Dimensions: 15.3" W x 3.3" D x 6.3" H
- Weight: 1 lbs.
- OSHA 29 CFR.1910 approved

Sold individually
Model No. SED115
Mfg. No. 7216-YE
Price/Each \$35.70



Can't find what you're looking for?

Call us today!

SOLDERING TOOLS & ACCESSORIES

PYROPEN®

- Ideal for service jobs in out of the way or confined space areas
- No batteries or electricity required
- Lightweight and easy to carry around
- Butane gas operated, will operate for up to three hours on one filling, and are ready to solder within 30 seconds
- Adjustable temperature controlled by varying gas flow
- Benefits for the outdoor servicing of electronics, radio and telecommunications
- Inactive hot air, ideal for shrink tubing, soldering and desoldering of SMD's



PYROPEN® SOLDERING KIT

- Metal carrying case complete with 3.3 mm soldering tip plus a 5.7 mm hot air tip, torch ejector, spanner, tool support clip, cleaning sponge and operating manual (fuel not included)
- Brazing torch feature offers more flexibility
- Interchangeable soldering tip and torch ejector

Model No. BW160
Mfg No. WSTA3
Price/Each \$222.00



SELF-IGNITING PYROPEN®

- Fitted with tapered needle tip plus hot air nozzle
- Protective plastic cap and operation manual (fuel not included)
- Instant push button self ignition ideal for single-handed operation

Model No. BW161
Mfg No. WPA2
Price/Each \$244.00



REPLACEMENT TIPS

Model No.	Mfg. No.	Description	Price /Each
BW165	WPT1	Taper Needle	23.50
BW166	WPT2	2.0 mm Chisel	23.50
BW169	WPT5	Taper Needle	23.50
BW172	WPT8	2.0 mm 35° Spade	23.50
BW175	WPT11	8.0 mm High Powered Chisel	28.20
BW177	WPT13	5.0 mm High Powered Long Taper Chisel	28.20

PRO SERIES HIGH PERFORMANCE SOLDERING IRONS

- Super-fast heat-up! Heats up to 900°F working temperature in just 35 seconds
- Patented design provides performance that exceeds a 60-watt iron
- Red power-on LED changes to green when iron reaches working temperature
- LED work light illuminates working surface in low-light conditions
- Co-molded grip for a comfortable feel
- Tool is designed to be self-standing, no stand is needed
- Iron uses a phono jack style plug in tip for rapid exchange
- Ideal for hobbies, kits, radios, electrical and electronics

Model No. TTU438
Mfg No. WPS18MP
Price/Each \$42.40



REPLACEMENT TIPS

Model No.	Mfg. No.	Description	Price /Each
TTU439	WPS10	Conical Tip, 0.3125"	13.70
TTU440	WPS11	Chisel Tip, 0.125"	13.70

Weller®

PORTASOL® ECONOMICAL BUTANE SOLDERING IRONS

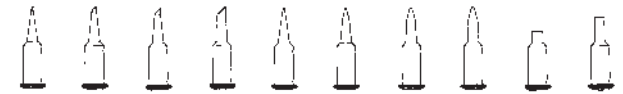
- Self-igniting portable butane heat tool can solder, cut rope, and perform other open flame operations
- Allows anti-static soldering, ideal for electronics, avionics, cellular communications, alarm systems, marine and automotive
- Rugged stainless steel body
- Up to 125 W of power
- Fully adjustable up to 1076°F (580°C)
- Runs up to two hours on single refill
- Fuel level is clearly visible through a window on the body of the tool for quick filling
- Auto switch safety shut-off, iron plated tips
- Built-in filter reduces chance of problems caused by contaminated fuel
- **BW163** kit includes the iron, sponge, stand, and extra tips in a blow molded box



Model No.	Mfg. No.	Description	Price/Each
BW200	PSI100C	Portasol® Soldering Tool	117.00
BW163*	PSI100K	Portasol® Soldering Tool Kit	156.00

* Comes with **BW193** 2.4 mm double flat tip, **BW196** hot blower, **BW195** 4.8 mm double flat tip, **BW197** hot knife, cleaning sponge, storage case (fuel not included).

REPLACEMENT TIPS



BW188 BW189 BW190 BW191 BW192 BW193 BW194 BW195 BW196 BW197

Model No.	Mfg. No.	Description	Price /Each
BW188	PSI1	1.0 mm Single Flat	17.90
BW189	PSI2	2.4 mm Single Flat	17.90
BW190	PSI3	3.2 mm Single Flat	17.90
BW191	PSI4	4.8 mm Single Flat	17.90
BW192	PSI5	1.0 mm Double Flat	17.90
BW193	PSI6	2.4 mm Double Flat	17.90
BW194	PSI7	3.2 mm Double Flat	17.90
BW195	PSI8	4.8 mm Double Flat	17.90
BW196	PSI9	Hot Blower Tip	17.90
BW197	PSI10	Hot Knife Tip	17.90

Note: Temperature range for tips is up to 850°F (450°C).

Weller®

PREMIUM BUTANE

- Recommended for users of butane soldering tools
- Filtered to a much higher degree than standard butane, will extend tool life by preventing gumming up of butane soldering tool orifices
- 60-g canister

Model No. BW164
Mfg No. WB1C
Price/Each \$6.99

Weller®



SOLDERING GUNS

- 120 volts
- Heat resistant plastic housing
- Fingertip trigger for high or low output selection
- Ready to use in six seconds
- Heavy gauge, high efficiency, tin-plated copper tip
- Twin lights illuminate work



KITS

TW149 and **TW151** include: Soldering gun with one soldering tip, one sealing tip, one cutting tip, one flux brush, soldering aid tool and a coil of lead free solder. Packed in plastic carrying case.

GUNS & KITS

Model No.	Mfg. No.	Description	Watts	Price /Each
TW148	D550	Professional Soldering Gun	260/200	83.00
TW149	D550PK	Professional Soldering Gun Kit	260/200	93.80
TW150	D650	Industrial Soldering Gun	300/200	113.00
TW151	D650PK	Industrial Soldering Gun Kit	300/200	118.00

Weller®

REPLACEMENT SOLDERING GUN TIPS

Weller® tips are made of copper and are compatible with Weller® soldering guns. Available in cutting, smoothing and standard tips.



Cutting



Smoothing



Standard

Model No.	Mfg. No.	Description	Price /Each
PROFESSIONAL			
TW152	6130	Cutting Tip w/Hex Nut	7.62
TW153	6150	Cutting Tip Only	7.62
TW154	6140	Smoothing Tip w/Hex Nut	7.62
INDUSTRIAL			
TW155	6160	Smoothing Tip Only	7.48
TW156	7250	Standard Tip Only, 2/Pkg.	7.62
TW157	7250N	Standard Tip w/Hex Nut	7.62

HIGH PERFORMANCE LED SOLDERING IRONS

- Three LED lights help illuminate the work area
- Round co-molded soft grip handle design for easy tip positioning
- Triangular handle area for maximum tip control
- Ceramic insulated stainless steel encased heater construction
- Excellent quality consumer iron 8 1/4" long
- Cord length: 5'
- Tip and iron stand included
- **TTV156** and **TTV158** include lead-free solder and soldering aid tool
- cUL listed

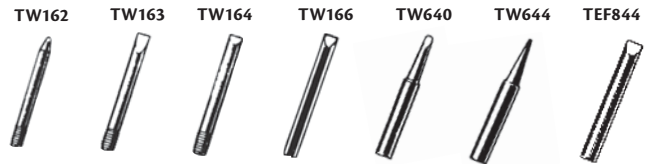


Model No.	Mfg. No.	Description	Volts	Watts	Temp °F/°C	Standard Tip	Price /Each
TTV155	SP25NKN	Standard Duty	120	25	750/400	TW162	29.90
TTV156	SP25NKN	Standard Duty - Kit	120	25	750/400	TW162, TW163, TW164	35.00
TTV157	SP40NKN	Medium Duty	120	40	900/482	TW166	35.00
TTV158	SP40NKN	Medium Duty - Kit	120	40	900/482	TW166, TW640, TW644	42.10
TTV159	SP80NKN	Heavy Duty	120	80	900/482	TEF844	49.00

Weller®

TIPS

Replacement tips are nickel-plated copper or iron-plated copper for heavy-duty irons.



Model No.	Mfg. No.	Description	Tips	Use With Iron No.	Tip Size"	Price /Each
TW162	MT1	Cone Shaped Tip, 2/Pkg.	Nickel Plated	TTV155, TTV156	1/8	7.48
TW163	MT2	Screwdriver Tip, 2/Pkg.	Nickel Plated	TTV155, TTV156	1/8	7.48
TW164	MT3	Chisel Tip, 2/Pkg.	Nickel Plated	TTV156	1/8	7.48
TW166	MT10	Chisel Tip, 2/Pkg.	Nickel Plated	TTV157, TTV158	1/4	13.40
TW640	ST3	Screwdriver Tip	Iron, Nickel, Chromium Plated	TTV158	1/8	7.05
TW644	ST7	Conical Tip	Iron, Nickel, Chromium Plated	TTV158	0.031	5.43
TEF844	MTG20	Chisel Tip	Iron Plated	TTV159	3/8	12.60

PROFESSIONAL SOLDERING IRONS

IDEAL FOR A WIDE VARIETY OF ELECTRONICS TASKS

- Interchangeable heater elements with quick change collar
- Lightweight handle with cushion grip
- Use ST Series tips only



Model No.	Mfg. No.	Description	Volts	Watts	Hz	Price /Each
TW633	WP25	Soldering Iron w/TW640 Tip	120	25	50/60	67.00
TW634	WP35	Soldering Iron w/TW640 Tip	120	35	50/60	83.00

ST SERIES TIPS

Solid copper, plated with iron, nickel and chromium. Precision ground tips provide maximum heat transfer from heater to tip.



Model No.	Mfg. No.	Description	Tip Size"	Reach"	Price /Each
TW638	ST1	Screwdriver Tip	0.062	0.75	5.43
TW639	ST2	Screwdriver Tip	0.093	0.75	5.43
TW640	ST3	Screwdriver Tip	1/8	0.75	7.05
TW641	ST4	Screwdriver Tip	0.187	0.75	7.05
TW642	ST5	Single Flat Tip	0.031	0.75	5.43
TW643	ST6	Screwdriver Tip	0.031	0.75	5.57
TW644	ST7	Conical Tip	0.031	0.75	5.43
TW645	ST8	Narrow Screwdriver Tip	0.062	0.75	5.57

Weller®

SOLDERING TOOLS & ACCESSORIES

WTCPT TEMPERATURE CONTROLLED SOLDERING STATIONS

Suitable for production, rework and repair of through hole and SMT boards, some ground planes and multi-layer boards. Repetitive soldering at a consistent temperature.

- A ferromagnetic temperature sensor in the tip controls tip temperature - no adjustments are necessary
- A lighted rocker switch indicates on/off status
- Quick disconnect plug for soldering iron allows fast iron change
- Power unit features impact resistant plastic for durability
- ESD safe to protect sensitive components

Model No. BW009
Mfg No. WTCPT
Price/Each \$272.00

PENCIL

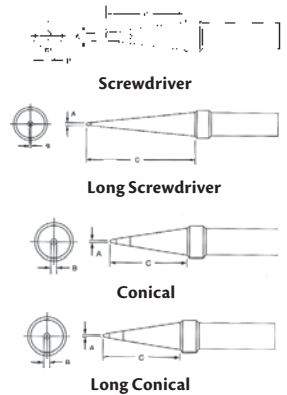
Model No. BW010
Mfg. No. TC201T
Price/Each \$145.00



PT SERIES TIPS FOR BW010 SOLDERING PENCIL

Model No.	Mfg. No.	A"	B"	C"	Price /Each
SCREWDRIVER - 700°F					
BW035	PTA7	0.062	0.032	0.62	5.29
BW037	PTB7	0.093	0.020	0.62	5.29
BW039	PTC7	0.125	0.027	0.62	5.29
BW041	PTD7	0.187	0.035	0.62	5.29
LONG SCREWDRIVER - 700°F					
BW046	PTJ7	0.031	0.012	1.00	5.29
BW047	PTK7	0.046	0.026	1.00	5.29
CONICAL - 700°F					
BW052	PTP7	0.031	0.012	0.62	5.29
LONG CONICAL - 700°F					
BW051	PTO7	0.031	0.044	1.00	5.29

Weller®



WES51 ANALOG SOLDERING STATIONS

- Station automatically powers down after 90 minutes of inactivity to prolong tip life and save power
- Improved plug on the TEF891 iron and new receptacle on the power unit for easier iron replacement
- Designed for continuous production soldering
- Slim, comfortable pencil reduces operator fatigue

Model No. TEG036
Mfg No. WES51
Price/Each \$189.00

PENCIL

Model No. TEF891
Mfg. No. PESS1
Price/Each \$69.30



Weller®

WESD51 DIGITAL SOLDERING STATIONS

- Microprocessor controlled with digital LED display allows you to read temperature setting and actual tip temperature
- Can switch between °F and °C

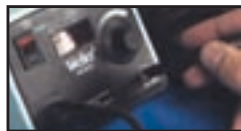
Model No. TEG038
Mfg No. WESD51
Price/Each \$273.00

PENCIL

Model No. TEF891
Mfg. No. PESS1
Price/Each \$69.30



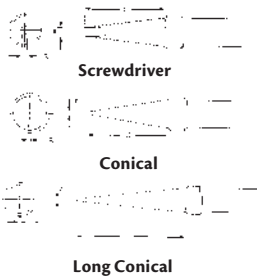
Wireless temperature
lockout gives you
control over the
process



Weller®

ET SERIES TIPS FOR TEF891 SOLDERING PENCIL

Model No.	Mfg No.	A"	B"	C"	Price/Each
SCREWDRIVER					
BW087	ETA	0.062	0.032	0.625	6.02
BW088	ETB	0.093	0.020	0.625	6.02
BW089	ETC	0.125	0.027	0.625	6.02
CONICAL					
BW092	ETP	0.031	0.012	0.625	6.02
LONG CONICAL					
BW100	ETO	0.031	0.044	1.000	6.02
BW101	ETS	0.015	0.000	1.000	6.02



WD1002 DIGITAL SILVER SERIES SOLDERING STATIONS

HIGH PERFORMANCE SOLDERING STATION

- Features a powerful 80-watt soldering iron that is ideal in the most demanding soldering applications including high volume production soldering or high mass soldering and especially lead free soldering
- Fast temperature recovery allows to safely and efficiently solder lead free components and greatly contribute to increased productivity in traditional lead based soldering applications
- Base station features three user programmable "radio buttons" that allow to instantly switch to another temperature
- LCD screen gives the operator all important information at a glance providing an extensive user friendly menu for the operator to custom set the station to his own needs
- Programmable features include set back temperature to conserve tip life, auto shut off, temperature lockout, switching between degrees Fahrenheit or Celsius and more
- A comfortable four-position ergonomic iron stand allows you to store three optional tips for different soldering applications
- Iron comes with the TEF746 chisel tip (0.063")
- Additional tips available

Model No. TTU437
Mfg No. WD1002
Price/Each \$542.00

PENCIL

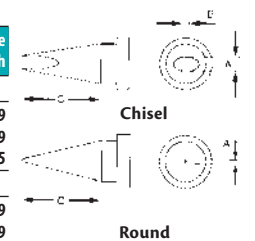
Model No. BW119
Mfg. No. WP80
Price/Each \$199.00



Weller®

LT SERIES TIPS FOR BW119 SOLDERING PENCIL

Model No.	Mfg. No.	A"	B"	C"	Price /Each
CHISEL					
TEF746	LTA	0.063	0.028	0.380	6.89
TEF754	LTH	0.031	0.016	0.430	6.89
TEF755	LTK	0.047	0.016	0.730	6.75
ROUND					
TEF738	LT1	0.010	-	0.430	6.89
TEF739	LT1L	0.008	-	0.980	6.89



See page 1140
for Wire Solder



SOLDERING TOOLS & ACCESSORIES

OXYGEN/MAP-PRO™ GAS BRAZING/WELDING/CUTTING TORCH KITS

- Uses oxygen and propane or propylene gas

Includes:

- Burner wand
- Hose
- Oxygen regulator
- Fuel gas valve
- Cylinder stand
- **TTU687** 14.1-oz. MAP-Pro™ gas cylinder
- **TTU688** 1.40-oz. oxygen cylinder
- Spark lighter
- 5 brazing/welding rods



Model No. TTU689
Mfg. No. BZOX2550KC
Price/Each \$150.00



PENCIL FLAME TORCH KITS

- Solid brass construction
- General purpose utility flame
- Needle valve control and filtered orifice

Includes:

- **BV769** torch head
- **TTU686** 14.1-oz. propane cylinder



Model No. TTU690
Mfg. No. BZUL100
Price/Each \$32.70



TRIGGER START TORCH KITS

- Comfortable, easy grip
- Self igniting quick-start trigger
- Uses propane gas
- Solid brass burn tip for easy repairs
- Pressure regulated to burn upside down

Includes:

- **WN961** torch head
- **TTU686** 14.1-oz propane cylinder



Model No. TTU691
Mfg. No. BZTS3000KC
Price/Each \$68.10



TRIGGER START CAST ALUMINUM MAP-PRO™ GAS TORCH KITS

- Regulated for cold weather use
- Includes stainless steel burn tubes
- Compatible with both propylene and propane gases

Includes:

- **BV756** torch head
- **TTU687** 14.1-oz. MAP-Pro™ gas cylinder

Model No. TTU692
Mfg. No. BZTS4000ZKC
Price/Each \$97.40



2-PIECE SELF-IGNITING TORCH KITS

- For small, soft soldering jobs
- Adjustable flame control knob to be used with Propane fuel

Includes:

- **TTV154** Self-igniting torch
- **TTU686** 14.1-oz propane cylinder.

Model No. TTV153
Mfg. No. WK2301
Price/Each \$49.40



SPARK IGNITING MICRO TORCHES

- Precision light soldering, polyfoam cutting and heating
- Ideal for electronic repair
- Refillable, uses butane fuel
- Burns for 80 hours
- Includes electrical soldering tip

Model No. TTU299
Mfg. No. ST2200T
Price/Each \$53.40



TRIGGER START SWIVEL HEAD TORCHES

Specially designed for convenience and accessibility.

- Solid brass regulator provides greater durability
- 360° swiveling torch head provides versatility and accessibility to tight and awkward work spaces
- Slim, one-handed trigger start eliminates the need for external ignition sources
- Double O-ring connection helps prevent gas leaks
- Uses propylene gas

Model No. WN963
Mfg. No. TS99T
Price/Each \$92.90



FUELS

14.1-OZ. PROPANE CYLINDER

Use with torches and most portable appliances requiring propane.

Model No. TTU686 Mfg. No. BZTX9 Price/Each \$9.63

14.1-OZ. MAP-PRO™ GAS CYLINDER

Propylene gas burns hotter than propane. Use only with torches and appliances specifying "for use with propylene".

Model No. TTU687 Mfg. No. BZMCG Price/Each \$14.20

1.4-OZ. DISPOSABLE OXYGEN CYLINDER

Use with propylene gas for hottest brazing performance and light cutting/welding.

Model No. TTU688 Mfg. No. BZOX9 Price/Each \$18.00

5.5-OZ. DISPOSABLE BUTANE CYLINDER

Use with refillable butane torches.

Model No. TTU636 Mfg. No. BF55 Price/Each \$6.16



TTU686

TTU687

TTU688

TTU636

ARC WELDING TOOLS & ACCESSORIES

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



Model No.	Amps	Description	Price /Each
NT629	400	Electrode Holder w/Neck Ring	17.60
NT631	600	Electrode Holder w/Neck Ring	21.40
NT630	400	Slimline – Bernard® Style Holder	17.60
NT818	-	Replacement Head for 400 Amps Electrode Holder	17.85
TTV098	-	Replacement Head for 600 Amps Electrode Holder	25.20



BERNARD® SHORTSTUB™ ELECTRODE HOLDERS

- 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



Model No.	Mfg. No.	Amps	Electrode Capacity"	Price /Each
360-9001	405	400	1/16 - 1/4	58.40



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

Model No.	Description	Price /Each
NT664	Male/Female Connector Set	18.35
NT649	Male Half with Insulator	9.65
NT650	Female Half with Insulator	8.40



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



Model No.	Mfg. No.	Description	Price /Each
NP528	E-102M	Either-End Connector Set	53.10



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
- Molded connector covers
- 250 Amps
- Cable capacity: 4 - 1/0

Model No.	Mfg. No.	Description	Price /Each
380-1610	05040	Complete Connector Set	26.40
380-1620	05043	Male Half	13.20
380-1615	05046	Female Half	13.20



ELECTRICAL PLUGS & RECEPTACLES

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



Model No.	Mfg. No.	Description	Price /Each
NP495	42	Plug	27.75
NP496	1252	Receptacle	35.50



ARC WELDING TOOLS & ACCESSORIES

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



Model No.	For AWG Cable Sizes	Price /Each
NT606	1 - 4	7.79
NT605	1/0 - 2/0	8.52
NT604	3/0 - 4/0	12.57

SOLDER/CRIMP LUGS

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



Model No.	For AWG Cable Sizes	Price /Each
TTU567	1 - 4	1.85
TTU568	1/0 - 2/0	3.10
PB131	3/0 - 4/0	6.08

TOUGHFLEX™ WELDING CABLE

- Industry's best selling welding cable
- Durable and flexible
- Highly flexible annealed 30 (0.010) gauge bare copper conductor, insulated with an EPDM jacket and paper separator
- Durable jacket resists cuts, tears, abrasion, grease, oil, water and flame
- Operating temperature range: -50°C to 105°C (-58°F to 221°F)
- Rated to 600 V
- Ideal for any welding application that requires leads, grounds, and stinger/whips
- Custom lengths and jacket colours available upon request
- **Sold per spool or boxed**



TLV126



TLV134



KALAS

CABLE SPECS:

Gauge	Stranding	O.D."	Average Wall"	Weight lbs./1000'	Resistance OHMS/1000'
#6	259/0.010	0.320	0.060	113	0.406
#4	364/0.010	0.348	0.060	147	0.287
#2	624/0.010	0.420	0.060	236	0.167
#1	780/0.010	0.503	0.080	313	0.137
1/0	988/0.010	0.533	0.080	378	0.110
2/0	1235/0.010	0.586	0.080	463	0.086
3/0	1539/0.010	0.625	0.080	563	0.070
4/0	2014/0.010	0.720	0.080	734	0.055

AMPACITY GUIDE:

GAUGE	50'	75'	100'	125'	150'	175'	200'	225'	250'	300'	350'
#4	100	100									
#3	150										
#2	200	150	100	100							
#1	250/300	200	150		100						
1/0	350	250	200	150		100	100				
2/0	400/450	300	250	200	150	100	100	100			
3/0	500	350/400	300	250	200	150	150		100		
4/0	550/600	450/500	350/400	300	250	200	200	150	150		100

DO NOT USE for 600 volt in-line applications. Product for welding applications only. Values are nominal and approximate.

Model No.	Mfg. No.	Gauge	Price /Each
300' SPOOL			
TTV126	640069.A4.001	#6	P.O.A.
TTV127	640068.A4.001	#4	P.O.A.
TTV128	640067.A4.001	#2	P.O.A.
TTV129	640066.A4.001	#1	P.O.A.
TTV130	640065.A4.001	1/0	P.O.A.
TTV131	640064.A4.001	2/0	P.O.A.
TTV132	640063.A4.001	3/0	P.O.A.
TTV133	640062.A4.001	4/0	P.O.A.
50' BOXED			
TTV134	06T1050B0000	#6	P.O.A.
TTV135	04T1050B0000	#4	P.O.A.
TTV136	02T1050B0000	#2	P.O.A.
TTV137	01T1050B0000	#1	P.O.A.
TTV138	10T1050B0000	1/0	P.O.A.
TTV139	20T1050B0000	2/0	P.O.A.
TTV140	30T1050B0000	3/0	P.O.A.
TTV141	40T1050B0000	4/0	P.O.A.
100' BOXED			
TTV142	06T1100B0000	#6	P.O.A.
TTV143	04T1100B0000	#4	P.O.A.
TTV144	02T1100B0000	#2	P.O.A.
TTV145	01T1100B0000	#1	P.O.A.
TTV146	10T1100B0000	1/0	P.O.A.
TTV147	20T1100B0000	2/0	P.O.A.
TTV148	30T1100B0000	3/0	P.O.A.
TTV149	40T1100B0000	4/0	P.O.A.

See pages
1348 - 1350 for
our full line of
Cable Cutters



HIGH-LEVERAGE CABLE CUTTERS

- 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"

Model No. TBG092
Mfg. No. 0890CSJ
Price/Each \$46.20

H.K. Porter®



ARC WELDING TOOLS & ACCESSORIES



GROUND CLAMPS

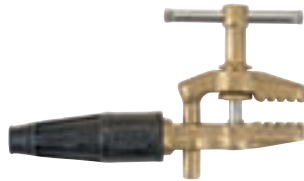
- Manufactured from nickel-plated steel with forged brass conductors
- Heavy-duty springs provide positive strength at jaws
- **NT661** is ideal for farm welder and light shop work; current flows directly from lower jaw to welding cable
- **NT662** is ideal for portable gas drive welders; braided zinc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



Model No.	Amps	Price /Each
NT661	300	5.40
NT662	500	10.10

HEAVY-DUTY C-STYLE GROUND CLAMPS

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



Model No.	Amps	Price /Each
NT665	600	51.50

MAGNETIC HOLDERS

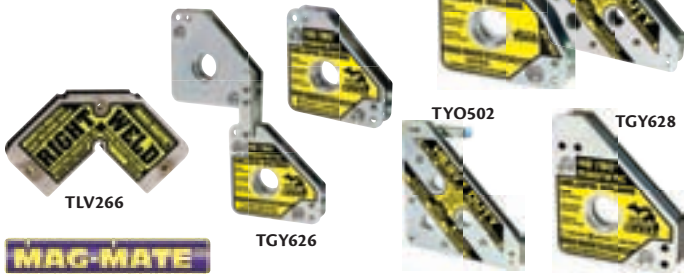
- Multi-purpose holders for assembly and positioning
- Adheres to any metal object
- Ideal for welding, soldering, assembly and pipe installation



Model No.	Description	Dimensions"	Price /Each
NT626	Medium	5 x 3 1/4 x 1/2	3.75
NT627	Large	6 1/4 x 4 x 3/4	6.25
NT628	X-Large	8 x 5 x 1	9.55

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**, **TYO502** and **TGY630** models feature "Breakaway Handle"



Model No.	Description	Pull lbs.	Dimensions L" x W" x H"	Price /Each
TGY624	Multi-Angle	55	4 3/8 x 3/4 x 3	16.20
TGY625	Compact	60	3 3/4 x 3/4 x 3 3/4	13.00
TYO501	Compact Multi-Angle	60	7 5/8 x 1 3/8 x 3 3/4	24.20
TLV266	Inside 90°, Outside 45/90°	40	4 3/4 x 9/16 x 2 3/4	32.60
TGY626	Adjustable	110	7 5/8 x 1 3/8 x 3 3/4	29.90
TGY627	Mid-Size	75	3 3/4 x 3/4 x 4 3/8	26.20
TGY628	Mid-Size, Covered*	75	3 3/4 x 3/4 x 4 3/8	32.90
TGY629	Mid-Size, Extra Power Covered HD	150	3 3/4 x 1 1/2 x 4 3/8	72.70
TYO502	Large Covered	160	8 x 3/4 x 8	92.00
TGY630	Large, Extra Power Covered*	325	8 x 1 1/2 x 8	169.00

* Weld spatter resistant cover

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



Model No.	Amps	Price /Each
NT668	300	15.50
NT669	500	17.90

JACKSON SAFETY* GROUND CLAMPS

- 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
- Run at a cooler temperature at higher AMPS for better arc starting
- Fully insulated pivots and springs



Model No.	Mfg. No.	Amps	Cable Capacity	Jaw Capacity"	Price /Each
140-1775	14730	200	4 - 1/0	1 1/4	17.00
140-1780	14731	300	1/0 - 2/0	1 5/8	25.00
140-1785	14732	500	3/0 - 4/0	2	33.00

MAGNETIC WELDING GROUNDS

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



Model No.	Holding Capacity lbs.	Stud Type Amperage	Diameter"	Height"	Price /Each
TGY631	35	250 A/Brass	3 1/2	2 1/4	48.40
TGY632	35	800 A/Copper	3 1/2	2 1/4	64.50

MAG90™ ON/OFF MAGNETIC SQUARES

- Locking On/Off handle for safety and ease of use
- Simple, fast work holding on multiple sides
- Eliminate the need for tedious clamping
- Can be used on flat or round steel
- Pre-tapped holes on all sides for mounting



Model No.	Pull lbs.	L"	Dimensions W" x H"	Tap	Tap Depth"	Wt. lbs.	Price /Each
TYO503	150	1 1/2	x 1 1/2 x 2 3/4	#8-32	0.330	0.8	105.00
TYO504	450	3	x 2 1/2 x 4 5/8	1/4-20	0.500	4.3	309.00
TYO505	1000	4 1/4	x 4 x 4 3/4	3/8-16	0.625	10.5	602.00

WELDING GROUND CLAMP

- Dual purpose work piece clamp and welding ground
- Non-twist clamp
- Copper plating prevent weld splatter from sticking
- Beveled jaws hold both flat or round surfaces
- Deep throat jaw depth



Model No.	Amperage	Jaw Capacity"	Dimensions L" x W" x H"	Wt. lbs.	Price /Each
TYO506	1000	4-1/2	9 x 4-7/16 x 1-1/8	1.9	91.10

AIR CARBON ARC GOUGING TORCHES

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

- Economical air carbon arc cutting process
- Can be used on most metals
- Chemical changes 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:	5 HP (3.73 KW)
Continuous:	7.5 HP (5.60 KW)



Model No.	Amps	Price /Each
NT667	800	185.00

AIR CARBON ARC GOUGING ELECTRODES

- Consistent copper coating DCCC
- Used for gouging out defective welds and cutting non-ferrous metals
- Electrodes are 12" in length
- **Sold per package**



Model No.	Dia."	Qty /Pkg.	Price /Each
NT632	5/32	100	22.95
NT633	3/16	50	13.90
NT634	1/4	50	16.80
NT635	5/16	50	20.05
NT636	3/8	50	27.10
NT637	1/2	50	48.05



INDUSTRIAL-DUTY SCRATCH BRUSHES

- Wood handle
- Choice of carbon or stainless steel bristles



Long Handle



Model No.	Length of Brush"	O.A. Length"	Wire Bristles	Rows	Trim Length"	Price /Each
LONG HANDLE BRUSHES						
NT607	5 3/4	13 3/4	Carbon Steel	3 x 19	1	2.50
NT608	5 3/4	13 3/4	Carbon Steel	4 x 19	1	3.15
NT611	5 3/4	13 3/4	Stainless Steel	3 x 19	1	3.85
NT612	6	10 1/4	Stainless Steel	4 x 19	1	4.75
SHOE HANDLE BRUSHES						
NT609	5 1/4	10 1/2	Carbon Steel	3 x 16	1	2.60
NT610	5 1/4	10 1/2	Carbon Steel	4 x 16	1	2.70
NT613	5	10 1/2	Stainless Steel	3 x 16	1	4.85
NT614	5	10 1/4	Stainless Steel	4 x 16	1	5.15
"TOOTHBRUSH" CLEANING BRUSH						
NT615	1 1/2"	7 3/4	Stainless Steel	3 x 7	1/2	1.20

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"



Model No.	Mfg. No.	Head Style	Price /Each
PB134	G	Chisel and Cross Chisel	15.20
PB135	H	Cone and Chisel	14.90
PB136	HCP	Cone and Cross Chisel	14.90

CHIPPING HAMMERS

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

Model No. NP532
Price/Each \$5.75



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



Model No.	Mfg. No.	Head Style	Wt. oz.	Price /Each
380-1865	LPHCM	Cross Chisel and Pick	20	22.00
380-1875	LPHH	Chisel and Pick	16	22.00
380-1880	LPHHC	Cross Chisel and Pick	16	22.00
380-1870	LPHG	Chisel and Cross Chisel	20	23.50



ARC WELDING TOOLS & ACCESSORIES

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
- Overall length: 12"



Model No.	Mfg. No.	Head Style	Head Length"	Price /Each
BZ946	WH-10	Chisel and Cross Chisel	7	23.70
BZ945	WH-20	Cone and Chisel	7 3/4	23.70
PB139	WH-30	Cone and Cross Chisel	7 3/4	23.70
378-1245	WH-40	Cone and Cross Chisel	8 1/4	24.70
378-1055	26	Replacement Handle	-	7.57

MULTI-PURPOSE MIG PLIERS

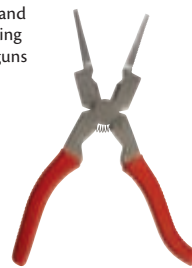
- Eight-way pliers
- Nickel plated finish
- Ideally suited for removal of hot spatter from nozzle ends, as well as many other uses



Model No.	Description	Price /Each
NP537	Pliers	12.25
NT666	Holster for Pliers	4.70

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



Model No.	Mfg. No.	Price /Each
899-1700	4705008	36.00

MIG NOZZLE REAMERS

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

Model No. TTU660
Price/Each \$5.95



AIR FLUX CHIPPERS

- Lightweight and compact design permits increased operator efficiency
- Paddle style trigger offers better speed control and precision
- Low noise, low vibration
- Durable
- Comes with 35 mm flat chisel
- Overall length: 10 1/4"
- Weight: 4.1 lbs.



Model No.	Stroke in mm	Blows per minute BPM	Average Air Consumption CFM	Air Inlet	Hose Size in mm	Vibrations Less Than m/s ²	Sound Pressure Level dB(A)	Price /Each
TLZ133	1 1/2 38	4400	9	1/4" - 18 NPT	3/8 9.5	10.2	92	199.00

ACCESSORIES

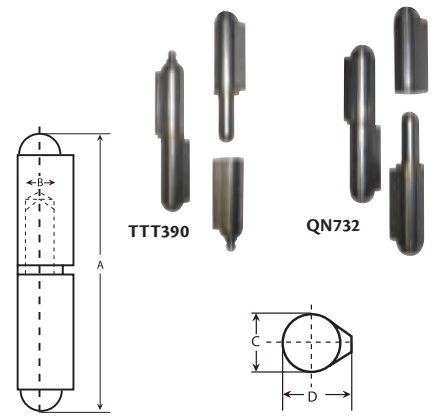
Model No.	Description	Price /Each
TLZ134	20 mm Flat Chisel	26.95
TLZ135	35 mm Flat Chisel	26.95
TLZ136	Moil Pointed Chisel	26.95

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 three types



Model No.	Mfg. No.	A Length"	B Pin Dia."	C Outside Dia."	D"	Price /Each
MILD STEEL W/FIXED STEEL PIN & BRASS WASHER						
QN763	FES050	2	3/16	5/16	13/32	2.25
QN761	FES080	3 3/16	5/16	1/2	5/8	3.40
QN732	FES100	4	13/32	5/8	3/4	4.49
QN741	FES150	6	1/2	3/4	1	10.60
QN751	FES200	8	5/8	29/32	1 1/8	17.90
MILD STEEL W/FIXED STEEL PIN, BRASS WASHER & GREASE FITTING						
TTT529	FES080GF	3 3/16	5/16	1/2	5/8	5.95
TTT390	FES100GF	4	13/32	5/8	3/4	7.58
TTT391	FES150GF	6	1/2	3/4	1	13.20
TTT392	FES200GF	8	5/8	29/32	1 1/8	21.10
TTT535	FES260GF	10	3/4	1 1/8	1 3/8	25.20
304 STAINLESS STEEL W/STAINLESS STEEL PIN & WASHER						
TTT536	V2A060	2 3/8	1/4	13/32	15/32	7.63
TTT537	V2A080	3 3/16	5/16	1/2	5/8	11.30
TTT538	V2A100	4	13/32	5/8	3/4	17.40
TTT539	V2A150	6	1/2	3/4	1	42.40
TTU315	V2A200	8	5/8	29/32	1 1/2	59.80



ARC WELDING TOOLS & ACCESSORIES

SAFETUBE® ROD CANISTERS

- Protects electrodes from dirt, grease and moisture
- Pressure fitted O-ring provides a watertight seal
- Withstands electrodes heated to 250°F
- Requires only a quarter turn to remove cap
- Square sides prevent rolling
- Safety yellow colour increases visibility

14" CANISTER

- Holds up to 10 lbs. (5 kg) of 14" electrodes

18" CANISTER

- Holds up to 15 lbs. (7.5 kg) of 18" electrodes

40" CANISTER

- Holds up to 15 lbs. (7.5 kg) of 36" TIG/brazing rods

CARRY STRAP

- Provides easy transport for electrode canisters
- For use with 14" and 18" Safetubes®

WALL STORAGE RACK

- Provides storage for four 40" Safetube® TIG rod canisters



Model No.	Mfg. No.	Description	Capacity	Price /Each
ELECTRODE CANISTERS				
382-4010	1205441	Canister	Up to 10 lbs. of 14" Electrodes	10.50
382-4040	1205455	Canister	Up to 15 lbs. of 18" Electrodes	14.70
382-4020	1205451	Adjustable Carry Strap	-	9.70
TIG ROD CANISTER				
TTV109	1205488	Canister	Up to 15 lbs. of 36" TIG Rods	25.10
TTV110	1205490	Wall Storage Rack	-	71.70

DRYROD® PORTABLE ELECTRODE OVENS

- Heating elements provide uniform, continuous heat for 100% protection of electrodes
- Standard features include an adjustable thermostat, indicator light and removable power cord with locking power inlet
- Optional digital thermometer available on Types 2, 5, and 15, reads in °F or °C
- Type 5 and 15 available with wheels and pull-handle for easy transport
- All units cUL approved



Model No.	Mfg. No.	Voltage	Capacity lbs.	Temperature Range °F	Price /Each
TYPE 1					
382-1205500	1205500	100/240 V AC/DC @ 60 watts	10	Preset to 300	385.00
TYPE 2					
TTT575	1205512	100/240 V AC/DC @ 70 watts	20	100 - 300	450.00
382-1205510*	1205510	100/240 V AC/DC @ 70 watts	20	100 - 300	549.00
TYPE 5 W/HANDLES					
TTU576	1205523	120/240 V AC @ 300 watts	50	100 - 300	940.00
TTU577*	1205521	120/240 V AC @ 300 watts	50	100 - 300	1085.00
TYPE 5 W/WHEELS					
TTT576	1205522	120/240 V AC @ 300 watts	50	100 - 300	1010.00
382-1205520*	1205520	120/240 V AC @ 300 watts	50	100 - 300	1155.00
TYPE 15					
TTT577	1205532	120/240 V AC @ 600 watts	150	100 - 300	1750.00
382-1205530*	1205530	120/240 V AC @ 600 watts	150	100 - 300	1898.00

*With digital thermometer

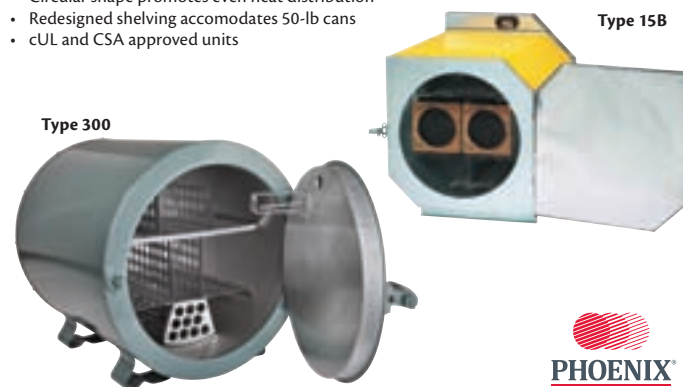
DRYROD® BENCH OVENS

TYPE 15B

- Designed for small fabrication shops, jobsite trailer or welding lab
- Wire wrapped heating elements provide uniform, continuous heat for 100% protection of electrodes
- Adjustable thermostat ensures full temperature control
- Optional digital thermometer reads in °F or °C
- Powder coat finish enhances durable steel body
- cUL approved

TYPE 300

- Designed for large fabrication shops, refineries and on-site job trailers
- Ovens feature adjustable thermostatic control, indicator light and optional thermometer for instant temperature indication
- Circular shape promotes even heat distribution
- Redesigned shelving accommodates 50-lb cans
- cUL and CSA approved units



Model No.	Mfg. No.	Voltage	Capacity lbs.	Temperature Range °F	Price /Each
TYPE 15B					
TTT578	1205533	120/240 V AC @ 600 watts	150	100 - 300	1645.00
382-1205531*	1205531	120/240 V AC @ 600 watts	150	100 - 300	1810.00
TYPE 300					
382-1060	1200200	120/240 V AC @ 1000 watts	400	100 - 550	2225.00
382-1070**	1200202	120/240 V AC @ 1000 watts	400	100 - 550	2525.00
382-1065	1200100	240/480 V AC @ 1000 watts	400	100 - 550	2577.00
382-1075**	1200102	240/480 V AC @ 1000 watts	400	100 - 550	2869.00

* With digital thermometer

**Stacking version

OFFICE PRODUCTS

INSTRUMENTS, SCALES & ELECTRICAL

SHIPPING & PACKAGING

TOOLS & EQUIPMENT

WELDING & METALWORKING

SAFETY EQUIPMENT & SUPPLIES

JANITORIAL & MAINTENANCE

MATERIAL HANDLING & STORAGE

WELDING MACHINES



OUTPUT ICONS



For constant current stick and TIG processes



Direct current welding output



For constant voltage MIG, flux-cored and subarc processes



For multiprocess constant current or constant voltage applications



Alternating current welding output



Alternating or direct current welding output

INPUT ICONS



Single phase input power



115 V input power



50 Hertz input power



120 V input power



60 Hertz input power



230 V input power



50/60 Hertz input power

TOMAHAWK® 375 AIR PLASMA CUTTERS

The Tomahawk® 375 air plasma cutting system arrives ready to go for fast and precise cutting. Forget the grinder – simply pick up the torch and cut in seconds.

- Internal air compressor enables operation in environments where external compressed air is not available
- 3/8" maximum cut @ 14 IPM
- Continuous output control focuses the arc for different material thickness
- Touch start system, reliable plasma arc initiation without high frequency
- Rapid arc restrike
- Front panel purge control makes it easy to set the air flow rate without initiating the plasma arc
- Engine drive compatible
- 3-year warranty on machine, 90 days on torch



Processes

Plasma cutting for:
Mild steel, stainless steel,
aluminum, brass, copper

Output



Input



Includes:

- Internal air compressor (external air connection also standard)
- Lincoln Electric LC25 torch with 10' (3 m) cable
- Air regulator and pressure gauge
- Internal water separator
- Work clamp and cable
- Spare consumables
- Shoulder strap
- Input power cord



Model No.	Mfg. No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Pilot Current	Output Range	Air Pressure Required	Air Flow Required	Price /Each
TTU662	K2806-1	208/230/1/60	13 A/85.2 V/100% 18 A/87.2 V/60% 25 A/90 V/35%	21.7 A (max.)	17 A	10-25 A	80-110 PSI (6-7.5 Bar)	70 PSI @ 125-200 SCFH (5 Bar @ 80 Litres/min)	1983.00

TOMAHAWK® 625 PLASMA CUTTERS

The Tomahawk® 625 plasma cutting system is portable enough to carry to any jobsite. Hook up the compressed air, grab the torch and start cutting right away.

- 5/8" maximum cut @ 12 IPM
- Continuous output control focuses the arc for different material thickness
- Touch start system, reliable plasma arc initiation without high frequency
- Rapid arc restrike for fast cutting through gaps, even expanded metal
- Front panel purge control makes it easy to set the air flow rate without initiating the plasma arc
- Lightweight and portable, can be easily carried by one person
- Engine drive compatible
- 3-year warranty on machine, 90 days on torch



Processes

Plasma cutting for:
Mild steel, stainless steel,
aluminum, brass, copper

Output



Input



Includes:

- Lincoln Electric LC40 torch with 20' (6 m) cable
- Air regulator and pressure gauge
- Internal water separator
- Work clamp and cable
- Spare consumables
- Shoulder strap
- Input power cord



Model No.	Mfg. No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Pilot Current	Output Range	Air Pressure Required	Air Flow Required	Price /Each
TTU663	K2807-1	208/230/1/50/60	24 A/89.6 V/100% 29 A/91.8 V/60% 40 A/96.0 V/35%	36.8 A (max.)	17 A	10-40 A	80-110 PSI (6-7.5 Bar)	70 PSI @ 125-200 SCFH (5 Bar @ 80 Litres/min)	2793.00

INVERTEC® V155-S STICK/TIG WELDERS

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



TTU116

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



Model No.	Mfg. No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output*	Output Range	Price /Each
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	1530.00
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	2125.00

* Input amps on 60 Hz input

PRECISION TIG® 225 STICK/TIG WELDERS

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
- 3-year warranty on parts and labour



TTT399



TTT398

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'
- Gas Regulator with Hose
- Foot Amptrol®



Model No.	Mfg. No.	Description	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output*	Output Range	Price /Each
TTT398	K2535-1	Ready-Pak® Pkg.	208/230/1/60	90A/23.4V/100%	42/39A	5-230A AC	4003.00
TTT399	K2535-2	Ready-Pak® Pkg. w/cart				5-230A DC Max. OCV: 75V	4177.00

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

WELDING MACHINES

POWER MIG® 140C WIRE FEED WELDERS

THE PROFESSIONAL'S CHOICESM

- Designed for 120 volt home projects and repair, sheet metal autobody work, farm and small shop welding
- Diamond Core Technology™ delivers a forgiving arc, excellent out-of-position arc action, low spatter and a wide voltage sweet spot at a given wire feed speed for steel, stainless steel or aluminum
- Dual gear-driven cast aluminum drive rolls deliver positive traction
- Patented split wire guides ensure optimal wire alignment and a brass-to-brass gun connection aids critical conductivity
- Large industrial closed-design drive motor improves torque and enhances trouble-free performance
- No hassle tool-less design for input power changes, wire spool mounting, wire drive service and polarity changes
- Spool gun ready, remove the standard MIG gun and plug in the economical Magnum® 100SG spool gun **TTU118** (optional) for enhanced aluminum wire feeding performance
- Toughest PC board protection in the industry, potted to seal sensitive components from the environment, trayed in a tough plastic tray to add rigidity and shock resistance
- 3-year warranty on machine, 90 days on torch



Processes

Mig
Flux-Cored

Output



Input



Includes:

- Magnum® Pro 100L gun, 10' (3.0 m) cable
- Gas and Gasless Nozzles
- Cable Liner; 0.025" (0.6 mm) and 0.035" (0.9 mm) Contact Tips
- Work Cable and Clamp
- Adjustable Gas Regulator and Hose
- Spindle Adapter
- Sample Spool of 0.025" (0.6 mm) SuperArc® L-56 Mild Steel MIG Wire
- Sample Spool of 0.035" (0.9 mm) Innershield® NR-211-MP Flux-Cored Wire
- 0.025" (0.6 mm) and 0.025 - 0.030" (0.6 - 0.7 mm) Drive Rolls
- 0.030 - 0.045" (0.7 - 1.1 mm) Knurled Drive Roll
- 0.025 - 0.035" (0.6 - 0.9 mm) and 0.035 - 0.045" (0.9 - 1.1 mm) Wire Guides
- Learn-To-Use DVD

Model No.	Mfg. No.	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Price /Each
TTV163	K2471-2	120/1/60	90A/19.5V/20%	20A	30-140 A DC 50-500 ipm WFS (1.3-12.7 m/min) Max. OCV: 33	1270.00

POWER MIG® 180 DUAL WIRE FEED WELDERS

THE PROFESSIONAL'S CHOICESM

- Dual 120 or 208/230 volt input power capability, you can use the same machine to weld at home and generator-driven environments, or choose 208/230 volt input power for shop or out on the job site applications on thicker materials
- Ideal for sheet metal and light frame autobody work, farm or small shop applications
- Diamond Core Technology™ – Delivers a forgiving arc, excellent out-of-position arc action, low spatter and a wide voltage sweet spot at a given wire feed speed for steel, stainless steel or aluminum
- Dual gear-driven cast aluminum drive rolls deliver positive traction
- Patented split wire guides ensure optimal wire alignment and a brass-to-brass gun connection aids critical conductivity
- Large industrial closed-design drive motor improves torque and enhances trouble-free performance
- No hassle tool-less design for input power changes, wire spool mounting, wire drive service and polarity changes
- Spool Gun Ready, remove the standard MIG gun and plug in the economical Magnum® 100SG spool gun **TTU118** (optional) for enhanced aluminum wire feeding performance
- 3-year warranty on machine, 90 days on torch



Processes

Mig
Flux-Cored

Output



Input



Includes:

- Magnum® Pro 100L gun, 10' (3.0 m) cable
- 120V and 230V Input Cables
- Input Cable Bag
- Gas and Gasless Nozzles
- Gun Cable Liner (pre-installed in gun)
- Work Cable and Clamp
- Adjustable Gas Regulator and Hose
- Spindle Adapter
- Sample (0.90 kg) Spool of SuperArc® L-56® Mild Steel MIG Wire
- Sample (0.45 kg) Spool NR®-211-MP Flux-Cored Wire
- 0.025" (0.6 mm) and 0.035" (0.9 mm) Contact Tips
- 0.025 - 0.030" (0.6 - 0.8 mm) and 0.035" (0.9 mm) Drive Rolls
- 0.030 - 0.045" (0.8 - 1.1 mm) Knurled Drive Rolls
- 0.025 - 0.035" (0.6 - 0.9 mm) and 0.045" (1.1 mm) Wire Guides
- Learn-To-Use DVD

Model No.	Mfg. No.	Input Power Voltage/Phase/Hz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Wire Feed Speed Range	Price /Each
TTV164	K3018-2	120/1/60	120V: 90A/19.5V/20%	20A	120V: 30-140 Amps DC Max. OCV: 33	50-500 ipm (1.3-12.7 m/min)	1662.00
		208/230/1/60	208V: 130A/17.6V/30% 230V: 130A/20V/30%		230V: 30-180 Amps DC Max. OCV: 34		

POWER MIG® 210 MP MULTI-PROCESS WELDER

ONE POWERFUL MACHINE

- Lightweight and portable-just 40 lbs.
- 210 Amps: The power to tackle any job
- Inverter based technology to weld multiple welding processes* of wire, stick, and TIG
- Dual voltage inputs (120V or 230V), plug into any common power supply
- Intuitive push-and-turn digital controls make setup a breeze
- Advanced options and settings are simple to access
- MIG: Weld up to 3/8" mild or stainless steel or aluminum* up to 3/16"
- Flux-Cored (Self- and Gas-shielded): Tackle the biggest jobs
- DC Stick: Handles up to 5/32" stick electrodes
- DC TIG: Enabled by Touch Start TIG® technology
- 3 year warranty on machine, 90 days on gun and cable assembly

* Additional accessories may be required for different welding processes



LINCOLN
ELECTRIC

THE WELDING EXPERTSSM



Processes

Mig Flux-Cored
DC Stick DC TIG

Output



Input



Includes:

- Magnum® PRO 175L gun, 10' (3.0 m) cable
- 120V and 230V input cables
- Work cable and clamp
- Electrode holder and lead assembly
- Adjustable gas regulator and hose
- Gas and gasless nozzles
- Gun cable liner (pre-installed in gun)
- Spindle adapter
- 2 lb (0.90 kg) spool of SuperArc® L-56® mild steel MIG wire
- 1 lb (0.45 kg) spool Innershield® NR®-211-MP flux-cored wire
- 0.025" (0.6 mm) and 0.035" (0.9 mm) contact tips
- 0.025" - 0.030" (0.6 - 0.8 mm) and 0.035" (0.9 mm) drive rolls
- 0.030" - 0.045" (0.8 - 1.1 mm) knurled drive rolls
- 0.025" - 0.035" (0.6 - 0.9 mm) and 0.045" (1.1 mm) wire guides

Model No.	Mfg. No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Wire Feed Speed Range	Price /Each
TTV220	K3963-1	120/1/60	120V: 100A/19.0V/40%	15A	20-140A DC Max. OCV: 56	50-500 ipm (1.3-12.7 m/min)	1980.00
		230/1/60	230V: 200A/24V/25%	14.7A	20-220A DC Max. OCV: 56		

POWER MIG® 256 WIRE FEED WELDERS

THE PROFESSIONAL'S CHOICE™

- The Power MIG® 256 sets the standard for MIG and flux-cored welding in light industrial job shop fabrication, maintenance or repair work
- Diamond Core Technology™ delivers a forgiving arc, excellent out-of-position arc stability, low spatter and a wide voltage sweet spot at a given wire feed speed for steel, stainless steel or aluminum
- Maxtrac® cast aluminum industrial wire drive features dual driven rolls, regulated wire feed speed control, brass-to-brass connections and 100% wire supporting split wire guide system
- Digital meters for set up, meters display your preset voltage and wire feed speed
- Magnum® Pro gun and cable 15' (4.5 m) makes it easy to reach your work
- Copper Plus™ contact tips features larger tip diameter and mass improves heat dissipation to increase tip life
- Spool gun ready for the premium Magnum® 250LX gun (TTU319) and spool gun capable with the Magnum® SG (TTU318), requires adapter
- 115V auxiliary receptacle to power a grinder or other auxiliary equipment
- All-metal case front
- 3-year warranty on machine, 90 days on torch



Processes

Mig Flux-Cored

Output

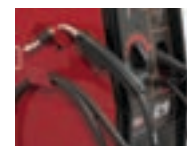


Input



Includes:

- Magnum® Pro gun and cable 15' (4.5 m)
- Coil Claw™ Cable Management system keeps your workstation organized
- Convenient top-mounted gun expendables tray



Coil Claw

Model No.	Mfg. No.	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle**	Input Current @ Rated Output	Output Range	Price /Each
TTV124	K3068-1	208/230/1/60	250A/26V/40%	56/52A***	30-300 A 50-700 ipm WFS (1.3-17.7 m/min) Max. OCV: 40V	4085.00
TTV162*	K3068-2	230/460/575/1/60	250A/26V/40%	50/24/19A	30-300 A 50-700 ipm WFS (1.3-17.7 m/min) Max. OCV: 40V	4222.00

* Does not include input cable ** Cannot be powered by an engine-driven welder

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

CALL US FOR OPTIONAL ACCESSORIES FOR LINCOLN ELECTRIC WELDING MACHINES

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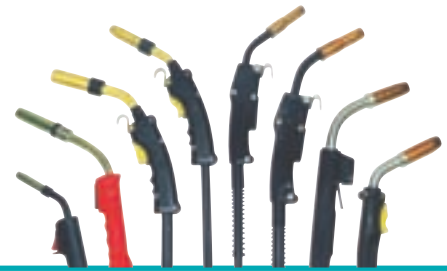
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MIG GUNS & ACCESSORIES



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



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"



Model No.	Mfg. No.	Feeder Plug	Price /Each
200 AMPS			
379-4395	B2-4215A	Bernard DP	220.00
379-1101	B2-4215AM	Miller DP	221.00
379-4510	B2-4215AE	Euro DP	208.00
379-4201	B2-4215AL	Lincoln DP	220.00
TTT009	B2-4215AWM	Lincoln Wirematic	220.00
TTT010	B2-4215AT	Tweco DP	220.00
300 AMPS			
NT172	B2-4315A	Bernard DP	244.00
NT174	B2-4315AM	Miller DP	206.00
NT173	B2-4315AE	Euro DP	208.00
NT204	B2-4315AL	Lincoln DP	208.00
TTT011	B2-4315AWM	Lincoln WM 250	208.00
NT175	B2-4315AT	Tweco DP	208.00

Model No.	Mfg. No.	Feeder Plug	Price /Each
350 AMPS			
379-4570	B2-43515A	Bernard DP	271.00
379-1113	B2-43515AM	Miller DP	236.00
TTT012	B2-43515AE	Euro DP	255.00
379-4223	B2-43515AL	Lincoln DP	236.00
TTT013	B2-43515AWM	Lincoln Wirematic	236.00
379-4920	B2-43515AT	Tweco DP	236.00
400 AMPS			
TW978	B2-4415A	Bernard DP	277.00
TW983	B2-4415AM	Miller DP	236.00
TW979	B2-4415AE	Euro DP	244.00
TW981	B2-4415AL	Lincoln DP	236.00
TW984	B2-4415AT	Tweco DP	236.00

BERNARD® STYLE CONSUMABLES



Contact Tip



Long Contact Tip



Model No.	Mfg. No.	Description	Size"	200 Amps	300 Amps	350 Amps	400 Amps	Price /Each
NT183	B7497	Contact Tip	0.023	X	X	X		0.63
NT179	B7488	Contact Tip	0.030	X	X	X		0.63
NT180	B7489	Contact Tip	0.035	X	X	X	X	0.63
PB052	B7496	Contact Tip	0.040	X	X	X	X	0.63
NT181	B7490	Contact Tip	0.045	X	X	X	X	0.63
PB054	B7498	Contact Tip	0.052	X	X	X	X	0.63
NT182	B7491	Contact Tip	1/16	X	X	X	X	0.63
PB048	B7492	Contact Tip	5/64				X	0.63
PB050	B7494	Contact Tip	7/64				X	0.63
PB043	B1597	Contact Tip, Long	0.023	X	X	X		0.63
TTT074	B1588	Contact Tip, Long	0.030	X	X	X		0.90
TW993	B1589	Contact Tip, Long	0.035	X	X	X	X	0.90
PB042	B1596	Contact Tip, Long	0.040	X	X	X	X	0.90
TW994	B1590	Contact Tip, Long	0.045	X	X	X	X	0.90
PB044	B1598	Contact Tip, Long	0.052	X	X	X	X	0.63
TW995	B1591	Contact Tip, Long	1/16	X	X	X	X	0.90
TW996	B1592	Contact Tip, Long	5/64				X	2.14
TW997	B1593	Contact Tip, Long	3/32				X	0.90
TW998	B1594	Contact Tip, Long	7/64				X	2.14
379-1124	B4281	Contact Tip, Tapered	0.035	X	X	X		1.19
TTT133	B4282	Contact Tip, Tapered	0.045	X	X	X		1.99
TTT134	B4283	Contact Tip, Tapered	0.052	X	X	X		1.99
TTT132	B4280	Contact Tip, Tapered	1/16	X	X	X		1.99

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.

Continued on next page

MIG GUNS & ACCESSORIES

BERNARD® STYLE CONSUMABLES

Continued from previous page



Nozzles



Gas Diffusers



Trigger Assembly



Liner Assembly

Model No.	Mfg. No.	Description	Size"	200 Amps	300 Amps	350 Amps	400 Amps	Price /Each
PB063	B4491	Nozzle, Brass, Standard	3/4 I.D.			X	X	7.26
PB064	B4591	Nozzle, Brass	3/4 I.D.			X		7.81
NT177	B4391	Nozzle, Brass	5/8 I.D.	X	X			4.88
NT178	B4393	Nozzle, Copper	5/8 I.D.	X	X			6.82
BZ934	B4392	Nozzle, Brass, Standard	1/2 I.D.	X	X			12.20
379-4224	B4394	Nozzle, Copper	1/2 I.D.	X	X			6.82
PB059	B4492	Nozzle, Brass	9/16 I.D.			X	X	7.26
PB060	B4592	Nozzle, Copper	9/16 I.D.			X	X	7.74
379-1125	B4295	Nozzle, Brass	11/32 I.D.	X	X			8.36
NT176	B4335	Head Assembly, Standard		X	X			4.51
PB057	B4435	Head Assembly, Standard				X	X	4.73
379-1231	B7126	O-Ring		X	X			0.40
379-1232	B7127	O-Ring				X	X	0.40
379-1140	B4323R	Silicone Cap, Standard		X	X			1.32
379-1186	B4423R	Silicone Cap, Standard				X	X	1.43
379-1223	B4786	Body Tube Assembly		X	X			15.90
TTT137	B4790	Body Tube Assembly				X	X	15.90
379-1222	B4780	Insulator Hex Nut		X	X	X	X	1.22
379-1225	B5662	Trigger Assembly		X	X	X		4.52
379-1178	B4422	Trigger Assembly					X	25.20
379-1127	B43015	Liner Assembly, 15'	0.023 - 0.030	X	X			8.62
379-1135	B43115	Liner Assembly, 15', Standard	0.035 - 0.045	X	X			6.78
379-1139	B43215	Liner Assembly, 15'	0.045 - 0.062	X	X			6.82
379-5840	B43115X	Liner Assembly, Teflon®, 15'	0.035 - 3/64	X	X	X		13.40
379-1170	B44115	Liner Assembly, 15'	0.035 - 0.045			X	X	6.78
379-1175	B44215	Liner Assembly, 15'	0.045 - 0.062			X	X	6.78
379-1188	B44315	Liner Assembly, 15'	5/64				X	8.88

MILLER® STYLE REPLACEMENT AIR-COOLED MIG GUNS

- Guns are complete with 15' cable length

250 AMPS

Rating:

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



379-M169-715



379-1050



GUNS

Model No.	Mfg. No.	Amps	Feeder Plug	Price /Each
NT206	M169-598	250	Miller DP	345.00

CONSUMABLES

Model No.	Mfg. No.	Description	Size"	150 Amps	250 Amps	Price /Each
NT168	M087-299	Contact Tip	0.023	X	X	0.43
NT165	M000-067	Contact Tip	0.030	X	X	0.43
NT166	M000-068	Contact Tip	0.035	X	X	0.43
NT167	M000-069	Contact Tip	0.045	X	X	0.43
379-M169-715	M169-715	Nozzle	1/2	X		5.17
NT169	M169-724	Nozzle, 1/8" Tip Recess	1/2		X	8.38
NT170	M169-725	Nozzle, 1/8" Tip Recess	5/8		X	8.38
379-1050	M169-726	Nozzle, Flush	5/8		X	8.42
TTT177	M169-727	Nozzle, 1/8" Tip Stickout	5/8		X	8.51
379-1055	M169-729	Nozzle Retainer			X	4.30
TTT178	M170-467	Replacement Retaining Ring		X		2.09
TTT179	M170-468	Replacement O-Ring			X	0.41
TTT180	M169-716	Retaining Head		X		3.89
TTT181	M170-470	Replacement Retaining Ring		X		2.09
TTT182	M170-471	Replacement O-Ring		X		0.41
TTT183	M169-717	Shock Washer		X		4.23
TTT184	M169-730	Shock Washer			X	2.95
TTT185	M169-718	Gooseneck, 45°		X		38.10
TTT186	M169-731	Gooseneck, 45°			X	42.50
NT171	M169-728	Gas Diffuser			X	1.84
TTT188	M194-010	Liner Conduit, 15'	0.023 - 0.025	X	X	6.89
TTT189	M194-011	Liner Conduit, 15'	0.030 - 0.035	X	X	6.82
TTT190	M194-012	Liner Conduit, 15'	0.035 - 0.045	X	X	6.82
TTT191	M194-014	Liner Conduit, 15', Aluminum	0.035 - 3/64		X	35.90

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1095

MIG GUNS & ACCESSORIES

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:

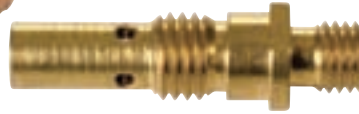
- 400 Amps CO₂ @ 100% duty cycle
- 300 Amps mixed gas @ 100% duty cycle
- Wire capacity: 0.030" - 5/64"



MIG GUN



379-1265



379-1570



379-1455

CONSUMABLES



379-1488

GUNS

Model No.	Mfg. No.	Feeder Plug	Price /Each
160 AMPS			
TTT029	C35-15	No Gun Plug	211.00
TTT030	CC35-15	Century DP	211.00
TTT031	CL35-15	Lincoln SP100-185 DP	190.00
TTT032	CWM35-15	Lincoln Wirematic	211.00
TTT033	CSP35-15	Lincoln SP150/200DP	190.00
TTT034	CM35-15	Miller DP	190.00
TTT035	CT35-15	Tweco DP	190.00
TTT036	CX35-15	Euro DP	190.00
200 AMPS			
TTT037	C215-3035	Tweco Plug	172.00
TTT038	CM215-3035	Miller DP	172.00
TTT039	CL215-3035	Lincoln "LN" DP	172.00
TTT040	CLPM215-3035	Lincoln Power MIG	172.00
TTT042	CX215-3035	Euro DP	157.00
300 AMPS			
NT189	C315-3545	Tweco Plug	231.00
NT192	CM315-3545	Miller DP	231.00
NT207	CL315-3545	Lincoln "LN" DP	238.00
NT208	CH315-3545	Hobart DP	227.00
NT209	CX315-3545	Euro DP	227.00
400 AMPS			
379-1590	C415-3545	Tweco Plug	232.00
379-1680	CM415-3545	Miller DP	239.00
TTT043	CL415-3545	Lincoln "LN" DP	239.00
TTT044	CH415-3545	Hobart DP	239.00
TTT045	CX415-3545	Euro DP	239.00

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.

CONSUMABLES

Model No.	Mfg. No.	Description	Size"	Price /Each
160 AMPS				
379-1265	C11-23	Contact Tip	0.023	0.37
379-1270	C11-30	Contact Tip	0.030	0.37
379-1275	C11-35	Contact Tip, Standard	0.035	0.37
TTT224	C11-40	Contact Tip	0.040	0.37
379-1280	C11-45	Contact Tip	0.045	0.37
379-1285	C11H-35	Contact Tip, Heavy-Duty	0.035	0.46
TTT227	C11H-45	Contact Tip, Heavy-Duty	0.045	0.46
379-4209	C11T-23	Contact Tip, Tapered	0.023	0.46
TTT228	C11T-30	Contact Tip, Tapered	0.030	0.46
TTT229	C11T-35	Contact Tip, Tapered	0.035	0.46
TTT230	C11T-40	Contact Tip, Tapered	0.040	0.46
TTT231	C11T-45	Contact Tip, Tapered	0.045	0.46
379-1455	C21-50	Nozzle, Standard	1/2 I.D.	5.66
TTT232	C21-50-F	Nozzle, Flush	1/2 I.D.	5.74
379-1460	C21-62	Nozzle	5/8 I.D.	3.85
TTT233	C21-62-F	Nozzle, Flush	5/8 I.D.	5.74
379-1445	C21-37	Nozzle	3/8 I.D.	5.74
TTT234	C21-37-F	Nozzle, Flush	3/8 I.D.	5.74
379-1465	C21T-37	Nozzle Tapered	3/8 I.D.	5.74
TTT235	C21T-37-F	Nozzle Tapered, Flush	3/8 I.D.	5.08
379-1570	C35-50	Gas Diffuser, Standard		1.92
TTT236	C35-60-45	Conductor Tube, 45°		11.30
TTT237	C35-60-60	Conductor Tube, 60°, Standard		11.30
TTT238	C35-60-180	Conductor Tube, 180°		11.30
379-1488	C23-40-15	Liner Assembly, 15'	0.023	6.65
379-1569	C35-40-15	Liner Assembly, 15', Standard	0.035	6.65
TTT239	C45-40-15	Liner Assembly, 15'	0.045	6.89
TTT240	C35TF-40-10	Liner Assembly, Teflon® 10'	0.035	26.90
TTT241	C35TF-40-15	Liner Assembly, Teflon® 15'	0.035	26.90
TTT242	C45TF-40-10	Liner Assembly, Teflon® 10'	0.045	15.80
TTT243	C45TF-40-15	Liner Assembly, Teflon® 15'	0.045	15.80

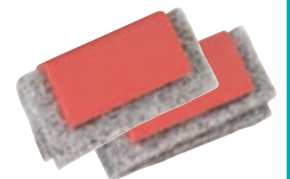
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MIG WIRE CLEANING PADS

- 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**



Model No.	Qty/Pkg.	Price/Each
720-1000-KIT	6	9.31
720-1010-KIT	24	37.20

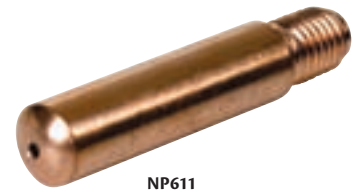


TWECO® CONSUMABLES

Continued from previous page



Model No.	Mfg. No.	Description	Size"	200 Amps	300 Amps	400 Amps	Price /Each
200, 300 & 400 AMPS							
NP602	C14-23	Contact Tip	0.023	X			0.46
NP603	C14-30	Contact Tip	0.030	X	X		0.46
NP604	C14-35	Contact Tip, Standard	0.035	X	X	X	0.46
NP605	C14-40	Contact Tip	0.040	X	X	X	0.46
NP606	C14-45	Contact Tip	0.045	X	X	X	0.46
NP608	C14A-364	Contact Tip, Aluminum	3/64	X	X	X	0.46
NP607	C14-52	Contact Tip	0.052		X	X	0.46
NP601	C14-116	Contact Tip	1/16		X	X	0.46
TTT244	C14-564	Contact Tip	5/64			X	0.46
NP611	C14H-35	Contact Tip, Heavy-Duty	0.035	X	X	X	0.60
NP612	C14H-40	Contact Tip, Heavy-Duty	0.040	X	X	X	0.60
NP613	C14H-45	Contact Tip, Heavy-Duty	0.045	X	X	X	0.60
NP609	C14AH-364	Contact Tip, Heavy-Duty, Aluminium	3/64	X	X	X	0.73
NP614	C14H-52	Contact Tip, Heavy-Duty	0.052		X	X	0.60
NP610	C14H-116	Contact Tip, Heavy-Duty	1/16		X	X	0.60
NP615	C14H-564	Contact Tip, Heavy-Duty	5/64			X	0.60
TTT245	C14T-23	Contact Tip, Tapered	0.023	X			0.50
TTT246	C14T-30	Contact Tip, Tapered	0.030	X	X		0.50
379-1395	C14T-35	Contact Tip, Tapered	0.035	X	X	X	0.50
TTT247	C14T-40	Contact Tip, Tapered	0.040	X	X	X	0.50
379-1400	C14T-45	Contact Tip, Tapered	0.045	X	X	X	0.50
TTT248	C14T-52	Contact Tip, Tapered	0.052		X	X	0.50
TTT249	C14T-116	Contact Tip, Tapered	1/16			X	0.50
379-1475	C22-50	Nozzle, Adjustable, Standard	1/2 I.D.	X			2.21
379-1480	C22-62	Nozzle, Adjustable	5/8 I.D.	X			2.62
NP621	C24A-50	Nozzle, Adjustable	1/2 I.D.		X	X	3.29
NP622	C24A-62	Nozzle, Adjustable, Standard	5/8 I.D.		X	X	3.26
NP623	C24A-75	Nozzle, Adjustable	3/4 I.D.		X	X	3.29
TTT250	C22-37-SS	Nozzle, Short Stop	3/8 I.D.	X			2.62
379-4960	C22-50-SS	Nozzle, Short Stop	1/2 I.D.	X			2.62
TTT251	C22-62-SS	Nozzle, Short Stop	5/8 I.D.	X			2.62
NP620	C24A-37-SS	Nozzle, Short Stop	3/8 I.D.		X	X	3.29
NP697	C24A-50-SS	Nozzle, Short Stop	1/2 I.D.		X	X	3.49
NP698	C24A-62-SS	Nozzle, Short Stop	5/8 I.D.		X	X	3.49
NP699	C24A-75-SS	Nozzle, Short Stop	3/4 I.D.		X	X	3.49
379-1485	C22T-37-SS	Nozzle, Tapered, Short Stop	3/8 I.D.	X			2.62
NP700	C24AT-37-SS	Nozzle, Tapered, Short Stop	3/8 I.D.		X	X	3.49
NP616	C23-37	Nozzle, Self Insulated	3/8 I.D.	X	X	X	7.81
NP617	C23-50	Nozzle, Self Insulated	1/2 I.D.	X	X	X	7.81
NP618	C23-62	Nozzle, Self Insulated	5/8 I.D.	X	X	X	7.81
TTT252	C23-75	Nozzle, Self Insulated	3/4 I.D.		X	X	7.81
379-1500	C23T-37	Nozzle, Self Insulated, Tapered	3/8 I.D.	X	X	X	8.22
NP624	C24CT-37-S	Nozzle, Coarse Thread	3/8 I.D.	X	X	X	5.21
NP625	C24CT-50-S	Nozzle, Coarse Thread	1/2 I.D.	X	X	X	5.21
NP626	C24CT-62-S	Nozzle, Coarse Thread	5/8 I.D.	X	X	X	5.21
NP627	C24CT-75-S	Nozzle, Coarse Thread	3/4 I.D.		X	X	5.21
NP629	C34CT	Nozzle Insulator, Fixed Nozzle		X	X	X	7.87
379-1550	C32	Nozzle Insulator, Standard		X			1.09
NP628	C34A	Nozzle Insulator, Standard			X	X	1.09
379-1630	C52	Gas Diffuser, Standard		X			3.25
NT191	C54A	Gas Diffuser, Standard			X	X	1.64
379-1635	C52FN	Gas Diffuser for Fixed Nozzle		X			3.24
379-1595	C42-3035-15	Liner Assembly, 15', Standard	0.030 - 0.035	X			6.40
NP631	C44-3545-15	Liner Assembly, 15', Standard	0.035 - 0.045		X	X	6.78
379-1600	C42-4045-15	Liner Assembly, 15'	0.040 - 0.045	X			6.40
NP630	C44-116-15	Liner Assembly, 15'	0.062		X	X	6.78
NP706	C44-564-15	Liner Assembly, 15'	5/64			X	6.82
TTT267	C42-3035-25	Liner Assembly, 25'	0.030 - 0.035	X			13.40
TTT268	C42-4045-25	Liner Assembly, 25'	0.040 - 0.045	X			13.40
379-1618	C44-3545-25	Liner Assembly, 25'	0.035 - 0.045		X	X	15.30
379-1610	C44-116-25	Liner Assembly, 25'	0.062		X	X	15.30
TTT269	C44-564-25	Liner Assembly, 25'	5/64			X	13.40
379-7010	C42N-3545-15	Liner Assembly, Nylon, 15'	0.035 - 0.045	X			17.70
NP633	C44N-3545-15	Liner Assembly, Nylon, 15'	0.035 - 0.045		X	X	15.80
NP632	C44N-116-15	Liner Assembly, Nylon, 15'	0.062		X	X	15.80



NP611



379-1400



379-1500



379-1635

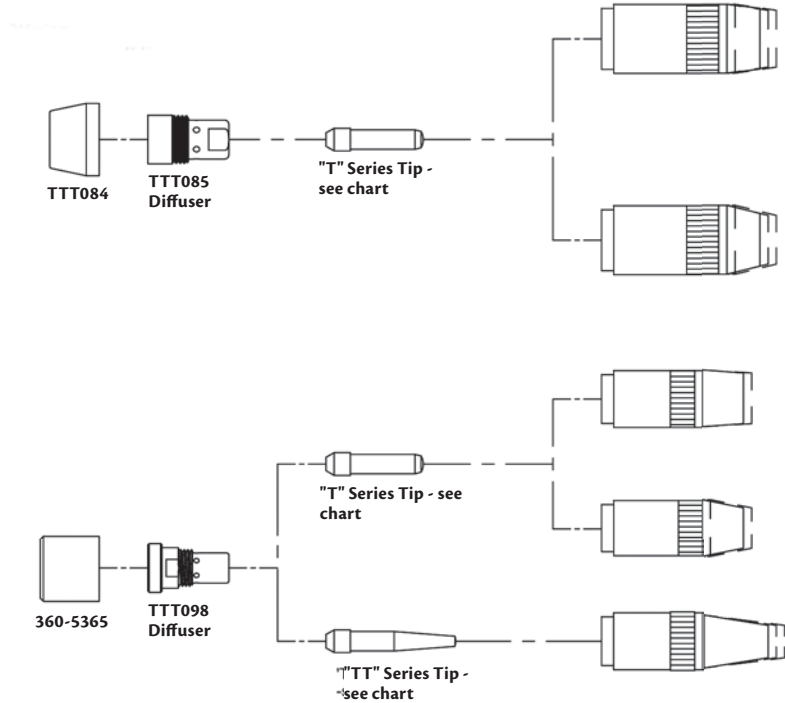


379-1600

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.

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		"T" Series Tip	
Model 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		"TT" Series Tip	
Model 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.



aurora tools[®]



***Canada's Best Value
in Industrial Tools***

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 A
- Handle style: Ribbed



366-4669

WP-9

Versatile, Lightweight for Thin Gauge Materials

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

Description	Amps	Max. Angle	Gas Valve	Power Cable	Accessory Kit**
WP-24 TORCH BODY					
W/insulating gasket	80	60°	No		AK-5
W/insulating gasket and flexible head	80	60°	No		AK-5
W/insulating gasket, gas valve and flexible head	80	60°	Slide		AK-5
WP-24 TORCH PACKAGES - TORCH BODY, HANDLE, 25' POWER CABLE					
W/insulating gasket	80	60°	No	1-Piece Rubber Jacketed	AK-5
W/insulating gasket and flexible head	80	60°	No	1-Piece Rubber Jacketed	AK-5
W/insulating gasket, gas valve and flexible head	80	60°	Slide	1-Piece Rubber Jacketed	AK-5
WP-9 TORCH BODY					
W/cup gasket	125	70°	No		AK-1
W/cup gasket and gas valve	125	70°	Knob & Stem		AK-1
W/cup gasket and flexible head	125	70°	No		AK-1
W/cup gasket, gas valve and flexible head	125	70°	Knob & Stem		AK-1
WP-9 TORCH PACKAGES - TORCH BODY, HANDLE, MEDIUM BACK CAP, 25' POWER CABLE					
W/cup gasket	125	70°	No	1-Piece Rubber Jacketed	AK-1
W/cup gasket and gas valve	125	70°	Knob & Stem	1-Piece Rubber Jacketed	AK-1
W/cup gasket and flexible head	125	70°	No	1-Piece Rubber Jacketed	AK-1
W/cup gasket, gas valve and flexible head	125	70°	Knob & Stem	1-Piece Rubber Jacketed	AK-1
WP-17 TORCH BODY					
W/cup gasket	150	70°	No		AK-2
W/cup gasket and gas valve	150	70°	Knob & Stem		AK-2
W/cup gasket and flexible head	150	70°	No		AK-2
W/cup gasket, gas valve and flexible head	150	70°	Knob & Stem		AK-2
WP-17 TORCH PACKAGES - TORCH BODY, LONG BACK CAP, HANDLE, 25' POWER CABLE					
W/cup gasket	150	70°	No	2-Piece	AK-2
W/cup gasket and gas valve	150	70°	Knob & Stem	2-Piece	AK-2
W/cup gasket	150	70°	No	1-Piece Rubber Jacketed	AK-2
W/cup gasket and gas valve	150	70°	Knob & Stem	1-Piece Rubber Jacketed	AK-2
W/cup gasket and flexible head	150	70°	No	1-Piece Rubber Jacketed	AK-2
W/cup gasket, gas valve and flexible head	150	70°	Knob & Stem	1-Piece Rubber Jacketed	AK-2
WP-26 TORCH BODY					
W/cup gasket	200	70°	No		AK-3
W/cup gasket and gas valve	200	70°	Knob & Stem		AK-3
W/cup gasket and flexible head	200	70°	No		AK-3
W/cup gasket, gas valve and flexible head	200	70°	Knob & Stem		AK-3
WP-26 TORCH PACKAGES - TORCH BODY, LONG BACK CAP, HANDLE, 25' POWER CABLE					
W/cup gasket	200	70°	No	2-Piece	AK-3
W/cup gasket and gas valve	200	70°	Knob & Stem	2-Piece	AK-3
W/cup gasket	200	70°	No	1-Piece Rubber Jacketed	AK-3
W/cup gasket and gas valve	200	70°	Knob & Stem	1-Piece Rubber Jacketed	AK-3
W/cup gasket and flexible head	200	70°	No	1-Piece Rubber Jacketed	AK-3
W/cup gasket, gas valve and flexible head	200	70°	Knob & Stem	1-Piece Rubber Jacketed	AK-3

** See page 1109 for accessory kits

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 A
- 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 A
- Handle style: Ribbed



WP-26



WELDCRAFT®



Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
366-4669	WP-24	95.50				820-1590	CK80	57.10
TTT271	WP-24F	155.00				820-1615	CK90	90.40
TTT272	WP-24FV	211.00				820-2070	CK90V	124.00
TTT273*	WP-24-25-R	254.00						
TTT275*	WP-24F-25-R	344.00	363-1945	VT-9F-25-R	160.00			
TTT276*	WP-24FV-25-R	370.00	363-1970	VT-9FV-25-R	205.00			
366-4249	WP-9	67.10				820-2205	CK130V	95.20
366-4378	WP-9V	104.00						
366-4278	WP-9F	133.00						
366-4300	WP-9FV	168.00						
366-4402*	WP-9-25-R	232.00				820-2270	CK1325H RG	174.00
366-4399*	WP-9V-25-R	244.00				820-2105	CK1325VH RG	215.00
TTT277*	WP-9F-25-R	275.00						
366-4324*	WP-9FV-25-R	311.00				820-2090	CK1325VH FX	246.00
366-4438	WP-17	70.50				820-1115	CK150 RG	51.40
366-4513	WP-17V	111.00				820-1125	CK150V RG	74.20
366-4462	WP-17F	138.00				820-1110	CK150 FX	89.40
366-4486	WP-17FV	176.00				820-1120	CK150V FX	112.00
NP473	WP-17-25-2	424.00				820-1200	CK1525VN RG	201.00
NP474	WP-17V-25-2	574.00				820-1165	CK1525H RG	160.00
366-4459*	WP-17-25-R	235.00				820-1185	CK1525VH RG	201.00
366-4540*	WP-17V-25-R	254.00						
366-4483*	WP-17F-25-R	284.00				820-1180	CK1525VH FX	242.00
366-4510*	WP-17FV-25-R	319.00						
366-4744	WP-26	80.50	363-1280	VT-26	55.80	820-1280	CK210-R / CK26 RG	66.60
366-4822	WP-26V	133.00	363-1640	VT-26V	82.30	820-1290	CK210V-R / CK26V RG	95.20
366-4774	WP-26F	177.00	363-2025	VT-26F	95.20	820-1275	CK210-F / CK26 FX	114.00
366-4795	WP-26FV	250.00	363-2050	VT-26FV	123.00	820-1285	CK210V-F / CK26V FX	143.00
NP476	WP-26V-25-2	349.00	363-1220	VT-26-25-2	207.00			
366-4765*	WP-26-25-R	323.00	363-1455	VT-26V-25-2	226.00	820-1355	CK2125H-R / CK26-25-R RG	240.00
366-4843*	WP-26V-25-R	292.00	363-1435	VT-26-25-R	207.00	820-1390	CK2125VH-R / CK26V-25-R RG	236.00
366-4792*	WP-26F-25-R	408.00	363-1460	VT-26V-25-R	226.00	820-1350	CK2125H-F / CK26-25-R FX	283.00
366-4819*	WP-26FV-25-R	437.00	363-2045	VT-26F-25-RFX	256.00	820-1380	CK2125VH-F / CK26-25-R FX	314.00
			363-2070	VT-26V-25-RFX	274.00			

* Power cable adapter must be ordered separately

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-24W

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



WP-20

Description	Amps	Max. Angle	Gas Valve	Power Cable	Accessory Kit **
WP-24W TORCH BODY					
W/insulating gasket	180	70°	No		
WP-24W TORCH PACKAGES - TORCH BODY, HANDLE, 25' POWER CABLE & HOSES					
W/insulating gasket	180	70°	No		-
W/insulating gasket	180	70°	No	1-Piece Rubber Jacketed	-
WP-20 TORCH BODY					
W/cup gasket	250	70°	No		AK-4
W/cup gasket and gas valve	250	70°	Knob & Stem		AK-4
WP-20 TORCH PACKAGES - TORCH BODY, MEDIUM BACK CAP, HANDLE, 25' POWER CABLE & HOSES					
W/cup gasket	250	70°	No	3-Piece Vinyl	AK-4
W/cup gasket and gas valve	250	70°	Knob & Stem	3-Piece Vinyl	AK-4
W/cup gasket	250	70°	No	1-Piece Rubber Jacketed	AK-4
WP-18 TORCH BODY					
W/cup gasket	350	70°	No		AK-3
W/cup gasket and gas valve	350	70°	Knob & Stem		AK-3
WP-18 TORCH PACKAGES - TORCH BODY, LONG BACK CAP, 25' POWER CABLE & HOSES					
W/cup gasket	350	70°	No	3-Piece Vinyl	AK-3
W/cup gasket and gas valve	350	70°	Knob & Stem	3-Piece Vinyl	AK-3
W/cup gasket	350	70°	No	1-Piece Rubber Jacketed	AK-3
W/cup gasket and gas valve	350	70°	Knob & Stem	1-Piece Rubber Jacketed	AK-3
WP-12 TORCH BODY					
W/nozzle gasket	500	70°	No		-
WP-12 TORCH PACKAGES - TORCH BODY, LONG BACK CAP, 25' POWER CABLE & HOSE ASSEMBLY IN RUBBER SHEATH					
W/nozzle gasket	500	70°	No	Rubber	-

** See page 1109 for accessory kits

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-18

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

WELDCRAFT®



Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
366-4726	WP-24W	193.00						
366-4732*	WP-24W-25	347.00						
TTT278*	WP-24W-25-R	532.00						
366-4597	WP-20	125.00				820-1260	CK200	76.10
TTT279	WP-20V	198.00				820-1265	CK200V	114.00
NP477	WP-20-25	252.00				820-1405	CK225	237.00
NP478	WP-20V-25	348.00				820-1420	CK225V	278.00
366-4610*	WP-20-25-R	423.00				818-1471	CK225SF	279.00
366-4543	WP-18	132.00	363-1285	VT-18	84.00	820-1505	CK300	87.40
366-4585	WP-18V	220.00				820-1510	CK300V	138.00
NP479	WP-18-25	279.00				820-1530	CK325	271.00
NP480	WP-18V-25	390.00				820-1545	CK325V	342.00
TTT281*	WP-18-25-R	443.00				TTU659	CK325VSF	405.00
TTT282*	WP-18V-25-R	514.00						
366-4405	WP-12	427.00						
366-4414*	WP-12-25	954.00						

* Power cable adapter must be ordered separately

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



820-1905

821-1760



820-1920



Model No.	Mfg. No.	Cable Size'	Amps	Cable	Head Style	Price /Each
AIR-COOLED TORCHES WITHOUT VALVE						
820-1905	FL1312	12 1/2	130	1-Piece	FL2L	282.00
TTT376	FL1325	25	130	1-Piece	FL2L	327.00
820-1920	FL1512	12 1/2	150	1-Piece	FL3L	282.00
820-1930	FL1525	25	150	1-Piece	FL3L	327.00
WITH VALVE						
TTT379	FL1312V	12 1/2	130	1-Piece	FL2L	338.00
820-1915	FL1325V	25	130	1-Piece	FL2L	383.00
820-1925	FL1512V	12 1/2	150	1-Piece	FL3L	338.00
820-1935	FL1525V	25	150	1-Piece	FL3L	383.00
WATER-COOLED TORCHES WITHOUT VALVE						
820-1940	FL2312	12 1/2	230	Tri-Flex	FL2L	316.00
820-1945	FL2325	25	230	Tri-Flex	FL2L	349.00
820-2075	FL2512	12 1/2	250	Tri-Flex	FL3L	316.00
820-1950	FL2525	25	250	Tri-Flex	FL3L	349.00

TORCH HEAD SELECTOR CHART

Model No.	Mfg. No.	Amps		Head Style	Price /Each
		Gas-Cooled	Water-Cooled		
821-1750	FL2L	130	230	2 Series	73.30
821-1760	FL3L	150	250	3 Series	73.30

FLEX TORCHES

WELDCRAFT®

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
- 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

TORCH PACKAGE ASSEMBLY

Model No.	Mfg. No.	Power Cable'	Power Cable	Water Hose	Gas Hose	Price /Each
366-7040	WP-225-12	12	45V03	45V07	45V09	364.00
TTT283	WP-225-25	25	45V04	45V08	45V10	399.00
TTT284	WP-225-12-HD	12, Vinyl	45V03HD	45V07HD	45V09	439.00
TTT285	WP-225-25-HD	25, Vinyl	45V04HD	45V08HD	45V10	538.00
TTT286	WP-225-12-R	12, Neoprene	45V03R	45V07R	45V09R	470.00
366-7200	WP-225-25-R	25, Neoprene	45V04R	45V08R	45V10R	549.00

TORCH PACKAGE ASSEMBLY

Model No.	Mfg. No.	Power Cable'	Power Cable	Water Hose	Gas Hose	Price /Each
TTT287	WP-25-12	12	45V03	45V07	45V09	358.00
366-4741	WP-25-25	25	45V04	45V08	45V10	376.00
TTT290	WP-25-12-R	12, Neoprene	45V03R	45V07R	45V09R	479.00

FLEXIBLE TORCH BODY

Model No.	Mfg. No.	Max. Amps	Price /Each
FOR USE WITH INTERCHANGEABLE HEADS			
366-7000	WP-225	225	248.00

LONG REACH FLEX-PENCIL TYPE TORCH BODY

Model No.	Mfg. No.	Max. Amps	Price /Each
366-4735	WP-25	200	263.00

INTERCHANGEABLE HEADS



Model No.	Mfg. No.	Max. Amps A/C*	W/C**	Head Angle°	Fits	Price /Each
366-1315	9-70	125	200	70	WP-9, WP-9V WP-20 WP-225	55.90
TTT292	9P	125	200	180	WP-9, WP-9V WP-20 WP-225	60.30
TTT293	24	80	160	70	WP-24, WP-24W WP-225	60.30
366-2998	1726	150/200	225	70	WP-17, WP-17V WP-18, WP-18V, WP-26, WP-26V WP-225	55.90
TTT294	1726P	150/200	225	180	WP-17, WP-17V WP-18, WP-18V, WP-26, WP-26V WP-225	60.30
TTT295	24-90	80	160	90	WP-24, WP-24W WP-225	60.30

* Air cooled

** Water cooled

CRAFTER SERIES WATER-COOLED TORCHES

- Engineered for the professional TIG welder
- Patented integral double lip back cap seal, series **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

Torch Packages 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 cap
- 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 cap
- Cable cover

WELDCRAFT®

Model No.	Mfg. No.	Amps	Description	Price /Each
CS310				
TTT296	CS310-12	310	Torch w/12' cable	455.00
366-3730	CS310-25	310	Torch w/25' cable	688.00
CS410				
TTT297	CS410-12	410	Torch w/12' cable	556.00
366-3745	CS410-25	410	Torch w/25' cable	814.00



LAVA NOZZLES (CERAMIC)

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

WELDCRAFT®

WELD-MATE



Size	Orifice"	Fits Torch Series	Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
LAVA NOZZLES – 1 27/32" LENGTH											
4	1/4	WP-17, WP-17V,	NP431	105Z43	20.80				818-2185	3C4	13.30
5	5/16	WP-18, WP-18V,	366-2800	105Z42	20.80				818-2210	3C5	13.30
6	3/8	WP-26, WP-26V	366-2806	105Z44	20.80	363-1355	105Z44	13.30	818-2230	3C6	13.30
7	7/16		366-2809	105Z45	20.80	363-1360	105Z45	13.30	818-2240	3C7	13.30
8	1/2		366-1000	08N78	23.50	363-1330	08N78	13.30	818-2250	3C8	13.30
10	5/8		NP430	08N79	23.50	363-1335	08N79	13.30	818-2150	3C10	13.30
12	3/4		TTT308	08N80	23.50	363-1340	08N80	13.30	TTT001	3C12	13.30
LAVA NOZZLES - 1 5/32" LENGTH											
4	1/4	WP-9, WP-9V,	366-1609	13N14	16.60				818-1730	2C4	11.50
5	5/16	WP-20,	366-1612	13N15	16.60				818-1755	2C5	11.50
6	3/8	WP-25,	366-1615	13N16	16.60				818-1765	2C6	11.50
7	7/16		NP440	13N17	16.60				818-1775	2C7	11.50
8	1/2		NP441	13N18	16.60				818-1780	2C8	11.50
10	5/8		366-1624	13N19	16.60				818-1695	2C10	11.50
LAVA NOZZLES – 5/8" LENGTH											
0.165	0.165	WP-24, WP-24V	TTT309	53N23	17.40						
4	1/4		366-2368	53N24	17.40				818-2785	8C4	11.50
5	5/16		366-2371	53N25	17.40				818-2800	8C5	11.50
6	3/8		366-2377	53N27	17.40				818-2805	8C6	11.50
LAVA NOZZLES - 1 1/8" LENGTH											
4L	1/4	WP-24, WP-24V	366-2380	53N28	18.50				818-2795	8C4L	13.70
6L	3/8		366-2374	53N26	18.50						
LONG LAVA NOZZLES – 3 7/32" LENGTH											
4L	1/4	WP-17, WP-17V,	NP456	12N03	34.60				818-2205	3C4L	22.70
5L	5/16	WP-18, WP-18V,	NP457	105Z60	34.60				818-2225	3C5L	22.70
6L	3/8	WP-26, WP-26V	366-1576	12N02	34.60				818-2235	3C6L	22.70
7L	7/16		NP459	105Z61	34.60				818-2245	3C7L	22.70
LONG LAVA NOZZLES – 1 7/8" LENGTH											
3L	3/16	WP-9, WP-9V,	366-2941	796F70	24.20				818-1725	2C3L	21.60
4L	1/4	WP-20,	366-2926	796F71	24.20				818-1750	2C4L	21.60
5L	5/16	WP-25	366-2929	796F72	24.20				818-1760	2C5L	21.60
6L	3/8		366-2932	796F73	24.20				818-1770	2C6L	21.40
LONG LAVA NOZZLES – 2 1/2" LENGTH											
3XL	3/16	WP-9, WP-9V,	TTT310	796F74	28.20						
4XL	1/4	WP-20, WP-25	366-2938	796F75	28.20						

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



NP431



363-1330



818-1730



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
- Resists splatter build-up
- Packed 10 nozzles per box

WELDCRAFT



Size	Orifice"	Fits Torch Series	Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
ALUMINA NOZZLES – 1 27/32" LENGTH											
4	1/4	WP-17, WP-17V,	366-1504	10N50	3.02	363-1000	10N50	0.99	818-2050	3A4	1.94
5	5/16	WP-18, WP-18V,	NP396	10N49	3.02	363-1005	10N49	0.99	818-2060	3A5	1.94
6	3/8	WP-26, WP-26V	366-1492	10N48	3.02	363-1010	10N48	0.99	818-2070	3A6	1.94
7	7/16		366-1486	10N47	3.02	363-1015	10N47	0.99	818-2080	3A7	1.94
8	1/2		366-1483	10N46	3.02	363-1020	10N46	0.99	818-2090	3A8	1.94
10	5/8		366-1480	10N45	3.02	363-1025	10N45	0.99	818-2040	3A10	1.94
12	3/4		366-1477	10N44	3.02	363-1030	10N44	0.99	818-2045	3A12	1.94
ALUMINA NOZZLES – 1 5/32" LENGTH											
4	1/4	WP-9, WP-9V,	366-1591	13N08	2.76	363-1035	13N08	0.85	818-1615	2A4	1.94
5	5/16	WP-20,	366-1594	13N09	2.76	363-1040	13N09	0.85	818-1625	2A5	1.94
6	3/8	WP-25	366-1597	13N10	2.76	363-1045	13N10	0.85	818-1635	2A6	1.94
7	7/16		366-1600	13N11	2.76	363-1050	13N11	0.85	818-1645	2A7	1.94
8	1/2		366-1603	13N12	2.76	363-1055	13N12	0.85	818-1655	2A8	1.94
10	5/8		366-1606	13N13	2.76	363-1060	13N13	0.85	818-1610	2A10	1.94
ALUMINA NOZZLES – 1 1/4" LENGTH											
4	1/4	WP-12	TTT298	14N57	7.95						
5	5/16		TTT299	14N58	7.95						
6	3/8		366-1678	14N59	7.95						
7	7/16		366-1681	14N60	7.95						
8	1/2		366-1684	14N61	7.95						
10	5/8		366-1687	14N61-10	23.10						
12	3/4		366-1690	14N61-12	23.10						
ALUMINA NOZZLES – 5/8" LENGTH											
4	1/4	WP-24, WP-24W	TTT300	A53N24	9.34						
5	5/16		TTT301	A53N25	9.34						
LONG ALUMINA NOZZLES – 3" LENGTH											
5L	5/16	WP-17, WP-17V,	NP445	10N49L	28.10				818-3625	3A5L	21.30
6L	3/8	WP-18, WP-18V,	NP446	10N48L	21.30				TTT004	3A6L	21.30
7L	7/16	WP-26, WP-26V	366-1489	10N47L	28.10				TTT005	3A7L	21.30
ALUMINA GAS LENS NOZZLES – 1 5/8" LENGTH (ALSO ORDER INSULATOR)											
4	1/4	WP-17, WP-17V,	366-2467	54N18	3.03	363-1815	54N18	1.15	818-2115	3AG4	1.94
5	5/16	WP-18, WP-18V,	366-2461	54N17	3.03	363-1810	54N17	1.15	818-2120	3AG5	1.94
6	3/8	WP-26, WP-26V	NP386	54N16	3.03	363-1805	54N16	1.15	818-2125	3AG6	1.94
7	7/16		366-2449	54N15	3.03	363-1800	54N15	1.15	818-2130	3AG7	1.94
8	1/2		366-2446	54N14	3.03	363-1795	54N14	1.15	818-2135	3AG8	1.94
ALUMINA GAS LENS NOZZLES – 1 1/8" LENGTH (ALSO ORDER INSULATOR)											
Short	11/16	WP-17, WP-17V WP-18, WP-18V WP-26, WP-26V	TTT307	54N19	2.97	363-2080	54N19	1.15	818-2105	3AG11	1.94
ALUMINA GAS LENS NOZZLES – 1" LENGTH (ALSO ORDER INSULATOR)											
4	1/4	WP-9, WP-9V,	366-2392	53N58	2.82				818-1665	2AG4	1.94
5	5/16	WP-20,	NP390	53N59	2.82	363-1735	53N59	0.99	818-1670	2AG5	1.94
6	3/8	WP-24,	NP391	53N60	2.82	363-1740	53N60	0.99	818-1675	2AG6	1.94
7	7/16	WP-25,	366-2404	53N61	2.82	363-1745	53N61	0.99	818-1680	2AG7	1.94
ALUMINA GAS LENS NOZZLES – 1 7/8" LENGTH, LARGE DIAMETER GAS LENS (ALSO ORDER INSULATOR)											
10	5/8	WP-26, WP-26V,	366-2434	53N88	6.67	363-1780	53N88	2.56	818-2100	3AG10LD	4.27
12	3/4	WP-12	366-2431	53N87	6.67	363-1775	53N87	2.56	818-2110	3AG12LD	4.27
Short	15/16		366-2437	53N89	6.67	363-1785	53N89	4.27			



NP396



363-1035



GET CLEAN

Industrial handsoap with scrubbing particles for stubborn grease and grime
TRY SOME TODAY!

Model JG223
See page 327



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



366-1882



TTT322



TTT325



366-1627



TTT312



366-3484

WELDCRAFT



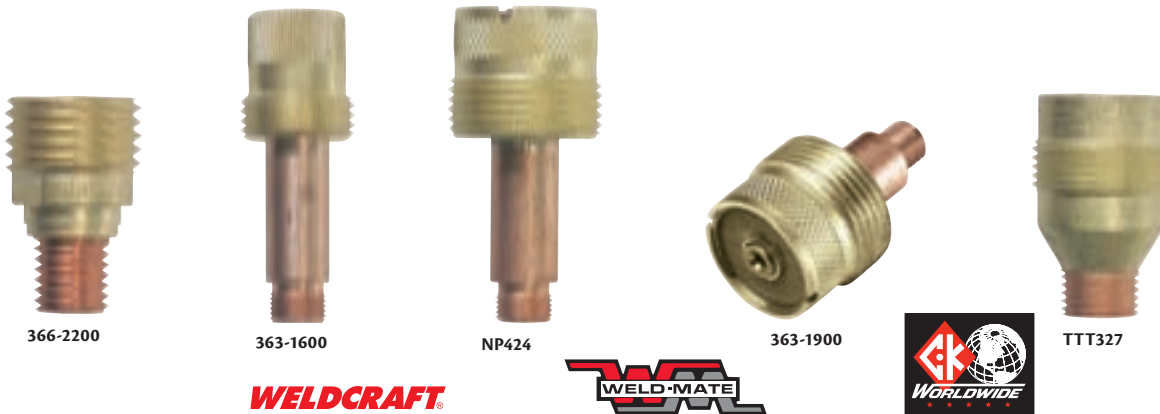
Size*	Fits Torch Series	Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
COLLETS										
0.020	WP-9, WP-9V,	366-1627	13N20	2.25				818-1710	2C20	1.51
0.040	WP-20,	366-1633	13N21	2.25	363-1095	13N21	0.95	818-1735	2C40	1.51
1/16	WP-25	366-1639	13N22	2.25	363-1100	13N22	1.51	818-1700	2C116	1.51
3/32		NP413	13N23	2.25	363-1105	13N23	0.95	818-1715	2C332	1.51
1/8		NP412	13N24	2.25	363-1110	13N24	0.95	818-1740	2C418	1.51
0.020	WP-17, WP-17V,	TTT311	10N21	4.10				818-2170	3C20	1.81
0.040	WP-18, WP-18V,	366-1435	10N22	4.10	363-1070	10N22	1.15	818-2190	3C40	1.81
1/16	WP-26, WP-26V	366-1441	10N23	4.10	363-1075	10N23	1.15	818-2155	3C116	1.81
3/32		366-1447	10N24	4.10	363-1080	10N24	1.15	818-2175	3C332	1.81
1/8		366-1453	10N25	4.10	363-1085	10N25	1.15	818-2195	3C418	1.81
5/32		366-2473	54N20	4.43	363-1820	54N20	1.15	818-2215	3C532	1.81
0.020	WP-24, WP-24W	TTT312	53N15	3.79	363-1705	53N15	1.81	TTT006	8C20	2.02
0.040		TTT313	53N16	3.79	363-1710	53N16	1.81	818-8C40	8C40	2.02
1/16		366-2338	53N14	3.79	363-1700	53N14	2.02	818-2770	8C116	2.02
3/32		366-1882	24C332	3.79				818-2780	8C332	2.02
0.020	For Gas Lens	TTT314	53N62	4.43	363-1755	53N62	2.05	TTT007	8CG20	2.73
0.040		TTT315	53N63	4.43	363-1760	53N63	2.05	818-2845	8CG40	2.73
1/16		TTT316	53N64	4.43				818-2835	8CG116	2.73
3/32		366-1891	24GLC332	4.25				818-2840	8CG332	2.73
1/16	WP-12	TTT317	85Z14	37.00						
3/32		TTT318	85Z15	37.00						
1/8		TTT319	85Z16	37.00						
5/32		366-2740	85Z17	37.00						
3/16		TTT320	85Z18	37.00						
1/4		TTT321	85Z19	37.00						
COLLET BODIES										
0.020	WP-9, WP-9V,	TTT322	13N25	4.40				818-1790	2CB20	3.09
0.040	WP-20,	366-1660	13N26	4.40	363-1145	13N26	2.04	818-1800	2CB40	3.09
1/16	WP-25	366-1663	13N27	4.40	363-1150	13N27	2.04	818-1785	2CB116	3.09
3/32		NP406	13N28	4.40	363-1155	13N28	2.04	818-1795	2CB332	3.09
1/8		366-1669	13N29	4.40	363-1160	13N29	2.04	818-1805	2CB418	3.09
0.020	WP-17, WP-17V,	366-1465	10N29	5.89	363-1115	10N29	4.01			
0.040	WP-18, WP-18V,	NP400	10N30	5.89	363-1120	10N30	3.35	818-2270	3CB40	4.01
1/16	WP-26, WP-26V	366-1471	10N31	5.89	363-1125	10N31	3.35	818-2255	3CB116	4.01
3/32		366-1474	10N32	5.89	363-1130	10N32	3.35	818-2265	3CB332	4.01
1/8		366-1462	10N28	5.89	363-1135	10N28	3.35	818-2275	3CB1418	4.01
5/32		366-3484	406488	5.89	363-1465	406488	4.01	818-2280	3CB532	4.01
0.020	WP-24, WP-24W*	TTT323	53N17	8.10	363-1715	53N17	3.25	818-3645	8CB20	3.25
0.040		TTT324	53N18	8.10	363-1720	53N18	3.25	818-3650	8CB40	3.25
1/16		366-2353	53N19	8.62	363-1725	53N19	3.25	818-2815	8CB116	3.25
3/32		TTT325	24CB332	9.13				818-2825	8CB332	3.25
1/16 - 1/4	WP-12	366-1564	11WP65	46.70						

* Order Wrench for WP-24, 24W Collet Body

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



Size"	Fits Torch Series	Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
GAS LENS COLLET BODIES (ALSO ORDER INSULATOR)										
0.020	WP-9, WP-9V,	366-2200	45V41	11.90	363-1630	45V41	8.15	TTT008	2GL20	8.15
0.040	WP-20,	366-2203	45V42	11.90	363-1635	45V42	5.45	818-1830	2GL40	8.15
1/16	WP-25	366-2206	45V43	11.90	363-1440	45V43	5.45	818-1820	2GL116	8.15
3/32		NP423	45V44	11.90	363-1645	45V44	5.45	818-1825	2GL332	8.15
1/8		366-2212	45V45	11.90	363-1650	45V45	5.45	818-1835	2GL418	8.15
0.020	WP-17, WP-17V,	TTT326	45V29	13.90				818-2360	3GL20	9.07
0.040	WP-18, WP-18V,				363-1600	45V24	6.51	818-2375	3GL40	9.07
1/16	WP-26, WP-26V	366-2185	45V25	13.90	363-1605	45V25	6.51	818-2345	3GL116	9.07
3/32		NP419	45V26	13.90	363-1610	45V26	6.51	818-2365	3GL332	9.07
1/8		366-2191	45V27	13.90	363-1615	45V27	6.51	818-2380	3GL418	9.07
5/32		366-2194	45V28	13.90	363-1620	45V28	6.51	818-2390	3GL532	9.07
0.020 - 0.040	WP-17, WP-17V,	NP424	45V0204	27.50						
1/16	WP-18, WP-18V,	NP418	45V116	27.50	363-1595	45V116	10.10			
3/32	WP-26, WP-26V	366-2227	45V64	27.50	363-1665	45V64	10.10	818-2370	3GL332LD	19.90
1/8	Large Dia. Gas Lens	366-3490	995795	27.50	363-1900	995795	19.90	818-2385	3GL418LD	19.90
5/32		366-2221	45V63	27.50	363-1660	45V63	10.10	818-2395	3G6532LD	19.90
1/16	WP-12	TTT327	11GL16	131.00						
3/32		TTT328	11GL32	131.00						
1/8		TTT329	11GL18	131.00						
5/32		TTT330	11GL53	131.00						
3/16		366-1534	11GL36	131.00						
INSULATORS										
	WP-17, WP-17V, WP-18, WP-18V, WP-26, WP-26V Gas Lens	366-2440	54N01	6.19	363-1790	54N01	1.71			
	Large Diameter Gas Lens (use on above torches)	366-2497	54N63	13.10	363-1840	54N63	8.15			
	WP-9, WP-9V, WP-20, WP-25 (supplied on torch body)	366-3487	598882	3.82	363-1885	598882	2.73			
	WP-24, WP-24V Gas Lens	366-2419	53N66	8.68	363-1770	53N66	2.04			
	WP-12 Gas Lens Stubby Collet Body	TTT331 366-1756	12GLG 18CG20	28.80 15.50						
BACK CAPS										
Short	WP-9, WP-9V,	366-2116	41V33	8.53	363-1310	41V33	1.38	818-1390	200S	4.73
Medium	WP-20	366-2119	41V35	9.77	363-1315	41V35	1.64	818-1380	200M	4.53
Long		366-2083	41V24	10.10	363-1305	41V24	1.87	818-1375	200L	4.73
Long	WP-17, WP-17V,	366-2611	57Y02	6.92				818-1925	300L	3.81
Short	WP-18, WP-18V, WP-26, WP-26V	366-2626	57Y04	9.13				818-1940	300S	2.89
Long	WP-12	366-2548	56Y44	40.40						
Short		366-2551	56Y45	27.10						



366-2119



366-2611



366-2626

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



WELDCRAFT

Size"	Fits Torch Series	Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
0.040	WP-17, WP-17V,	366-1438	10N22S	6.67	818-2505	4C40	3.61
1/16	WP-18, WP-18V,	366-1444	10N23S	6.67	818-2480	4C116	3.61
3/32		NP472	10N24S	6.67	818-2495	4C332	3.61
1/8		366-1459	10N25S	6.67	818-2510	4C418	3.61

POWER CABLE ADAPTERS

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



WELDCRAFT

Fits Torch Series	Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
WP-18, WP-18V, WP-20, WP-24W WP-25 WP-12	366-2179	45V11	27.90	363-1590	45V11	16.20	818-1850	2PCA	22.50
WP-9, WP-9V*, WP-17*, WP-17V*,	366-2827	10S257	19.20	363-1365	10S257	14.70	818-1185	15PCA	14.70
WP-24	366-2383	53N43	30.50				818-1315	1PCA	19.60
WP-26*, WP-26V*	366-2218	45V62	29.80	363-1655	45V62	16.20			

*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"
- Model No. 366-3613 Mfg. No. AK-1**
Price/Each \$37.70

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"
- Model No. NT529 Mfg. No. AK-2**
Price/Each \$51.10

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"
- Model No. NT530 Mfg. No. AK-3**
Price/Each \$59.50



WP-20 TORCH SERIES

- 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"
- Model No. NT531 Mfg. No. AK-4**
Price/Each \$57.80

WP-24 TORCH SERIES

- 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"
- Model No. 366-3631 Mfg. No. AK-5**
Price/Each \$51.90

TIG TORCHES & ACCESSORIES

POWER CABLES – WATER AND GAS HOSES



WELDCRAFT



Description	Size*	Fits Torch Series	Model No.	Weldcraft Mfg. No.	Price /Each	Model No.	Weldmate Mfg. No.	Price /Each	Model No.	C-K Mfg. No.	Price /Each
POWER CABLES - WATER & GAS HOSES (VINYL TUBE CONSTRUCTION)											
Power Cable	12 1/2	WP-9, WP-9V,	366-2599*	57Y01	84.10						
Power Cable	25	WP-17, WP-17V	366-2614*	57Y03	126.00						
Power Cable	12 1/2	WP-18, WP-18V	366-1993	40V64	81.20				818-1965	312PC	59.80
Power Cable	25		366-2086	41V29	106.00	363-1500	41V29	80.70	818-1995	325PC	84.00
Water Hose	12 1/2		366-2002	40V74	26.30	363-1480	40V74	16.80	818-1975	312WH	17.50
Water Hose	25		366-2104	41V32	34.30	363-1520	41V32	18.10	818-2005	325WH	18.80
Gas Hose	12 1/2		TTT412	40V75	26.10	363-1490	40V75	16.80	818-1950	312AH	17.50
Gas Hose	25		366-2095	41V30	34.30	363-1510	41V30	22.70	818-1980	325AH	22.70
Power Cable	12 1/2	WP-20, WP-20V	366-2131	45V03	71.20	363-1530	45V03	54.30	818-1430	212PC	56.50
Power Cable	25	WP-25	366-2137	45V04	83.40	363-1540	45V04	63.70	818-1465	225PC	70.90
Water Hose	12 1/2		366-2155	45V07	25.60				818-1440	212WH	17.40
Water Hose	25		366-2161	45V08	33.40				818-1475	225WH	20.80
Gas Hose	12 1/2		366-2167	45V09	25.60				818-1415	212AH	14.40
Gas Hose	25		366-2173	45V10	26.60				818-1455	225AH	20.80
Heavy-Duty Power Cable	12 1/2		TTT333	45V03HD	120.00						
Heavy-Duty Power Cable	25		TTT334	45V04HD	149.00						
Heavy-Duty Water Hose	12 1/2		TTT335	45V07HD	39.90						
Heavy-Duty Water Hose	25		TTT336	45V08HD	62.80						
RUBBER POWER CABLES (RUBBER HOSE CONSTRUCTION)											
Power Cable	12 1/2	WP-24	TTT337	56Y38R	127.00						
Power Cable	25	WP-9, WP-9V,	TTT338	56Y97R	216.00						
Power Cable	12 1/2	WP-17, WP-17V	TTT339	57Y01R	96.50	363-1865	57Y01R	66.00	818-1150	1512PCHF	96.80
Power Cable	25		366-2623	57Y03R	137.00	363-1880	57Y03R	99.10	818-1170	1525PCHF	122.00
Power Cable	12 1/2	WP-18, WP-18V	TTT340	40V64R	100.00	363-1475	40V64R	74.60			
Power Cable	25		366-2092	41V29R	127.00	363-1505	41V29R	99.90			
Power Cable	12 1/2	WP-26, WP-26V	366-2254	46V28R	127.00	363-1670	26V28R	95.90			
Power Cable	25		366-2263	46V30R	189.00	363-1690	46V30R	168.00			
2-PIECE POWER CABLES - GAS HOSES											
Power Cable & Gas Hose	12 1/2	WP-9, WP-9V,	TTT341	57Y01-2	119.00				TTT187	1512PCN	68.70
Gas Hose only	12 1/2	WP-17, WP-17V	366-2170	45V09R	51.60	363-1575	45V09R	38.30			
Power Cable & Gas Hose	25		366-2617	57Y03-2	241.00				818-1180	1525PCN	103.00
Gas Hose only	25		366-2176	45V10R	79.30	363-1585	45V10R	64.20			
Power Cable & Gas Hose	12 1/2	WP-26, WP-26V	366-2251	46V28-2	135.00	363-1675	46V28-2	95.90			
Gas Hose only	12 1/2					363-1495	40V75R	38.30			
Power Cable & Gas Hose	25		366-2260	46V30-2	290.00	363-1685	46V30-2	140.00			
Gas Hose only	25					363-1515	41V30R	64.20			

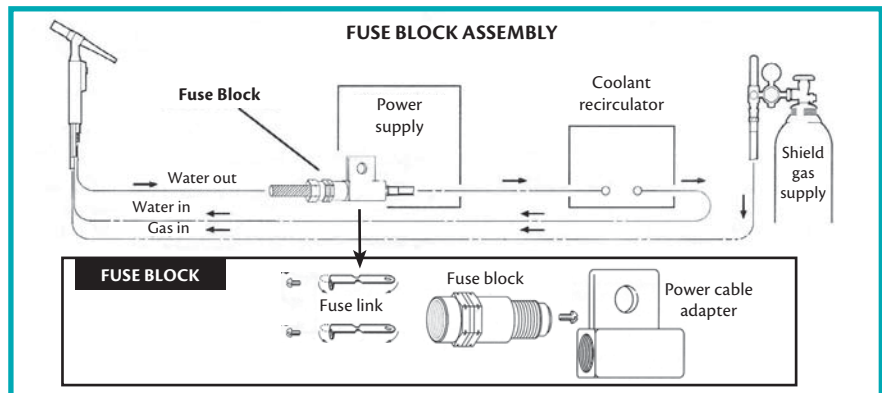
*Rubber power cables are recommended for superior service

FUSE BLOCK ASSEMBLY

- Water-cooled power cables can burn up within seconds if water is not circulating through the cable assembly
- If water is not present over the fuse link, it will burn up at around 6 amps



Model No.	Mfg. No.	Description	Price /Each
818-2675	550FA	550 Amps Fuse Block	105.00
818-2670	550F	550 Amps Fuse, 5/Pkg.	23.10



PYTHONRAP™ CABLE COVERS

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

Model No. NT887
Price/Each \$42.00



CABLE PROTECTORS

- 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
- 22' L x 4" W

Model No. NP520
Price/Each \$62.95



AMPERAGE CONTROLS

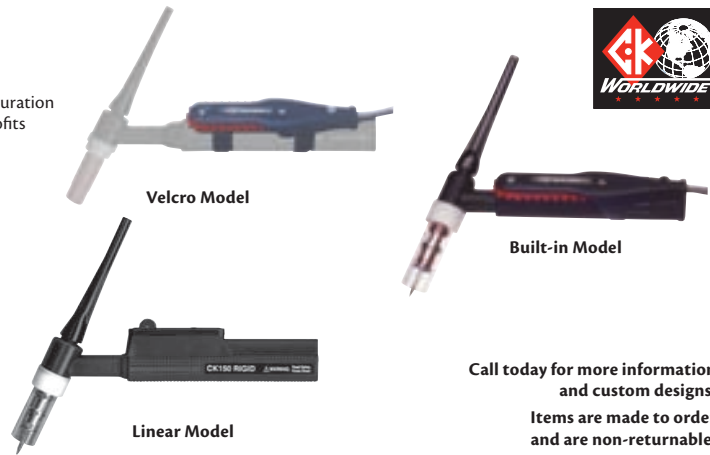
- Remote amperage controls provide welding machine contactor on-off, activate gas and/or water solenoids, and provide full range current output control
- Fingertip controls are available in either a rotary or linear slide potentiometer configuration
- Handle styles include, velcro straps where one size fits all handle diameters and retrofits very easily on all makes of torches or built into the handle as original equipment
- Adapts to most standard TIG power supplies
- Protected against high frequency

ROTARY MODEL

- "Plug and Play" replacement potentiometer assembly, no soldering required

LINEAR MODEL

- Amptrak™ 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



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

AMPERAGE REMOTE CONTROL SELECTOR CHART

MACHINE MAKE Potentiometer Rating	AMP CONTROL TYPE	PLUG CONFIG & PIN COUNT	CONTROL CABLE LENGTH	VELCRO STRAPS One Size Fits All	BUILT IN HANDLE FOR CK TORCHES		
					Small	Medium	Large
					CK9, CK17, CK20, CK24, CK24W, CK80, CK90, CK100, CK130, CK150, CKC150*, CK200, CKT200, FLEX-LOC*	CK230, CKA10, CKA20, TL18, TL26, TL210, TL300	CK18, CK26, CK210, CK300, CK350, CK510
HOBART 25 K 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	RAC25-25-1-H10 RAC25-25-2-H10 RAC25-25-3-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 10 K 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	RAC25-10-1-L14	RAC2M-10-1-L14
					RAC25-10-2-L14	RAC2M-10-2-L14	
					RAC25-10-3-L14	RAC2M-10-3-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	RAC25-10-1-L5	RAC2M-10-1-L5	
					RAC25-10-2-L5	RAC2M-10-2-L5	
					RAC25-10-3-L5	RAC2M-10-3-L5	
	6 Pin Plug	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	RAC25-10-1-L6	RAC2M-10-1-L6		
				RAC25-10-2-L6	RAC2M-10-2-L6		
				RAC25-10-3-L6	RAC2M-10-3-L6		
	Linear	14 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 M-10-1-L14	AMT 2 L-10-1-L14
					AMT 2 S-10-2-L14	AMT 2 M-10-2-L14	AMT 2 L-10-2-L14
					AMT 2 S-10-3-L14	AMT 2 M-10-3-L14	AMT 2 L-10-3-L14
5 Pin Plug		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 M-10-1-L5	AMT 2 L-10-1-L5	
				AMT 2 S-10-2-L5	AMT 2 M-10-2-L5	AMT 2 L-10-2-L5	
				AMT 2 S-10-3-L5	AMT 2 M-10-3-L5	AMT 2 L-10-3-L5	
6 Pin Plug	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 M-10-1-L6	AMT 2 L-10-1-L6		
			AMT 2 S-10-2-L6	AMT 2 M-10-2-L6	AMT 2 L-10-2-L6		
			AMT 2 S-10-3-L6	AMT 2 M-10-3-L6	AMT 2 L-10-3-L6		
LINDE 25 K 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	RAC25-25-1-LIND RAC25-25-2-LIND RAC25-25-3-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)	AMT CV-25-1-LIND AMT CV-25-2-LIND AMT CV-25-3-LIND	AMT 2 S-25-1-LIND AMT 2 S-25-2-LIND AMT 2 S-25-3-LIND	AMT 2 M-25-1-LIND AMT 2 M-25-2-LIND AMT 2 M-25-3-LIND	AMT 2 L-25-1-LIND AMT 2 L-25-2-LIND AMT 2 L-25-3-LIND
MILLER ELECTRIC® 1 K Ohm	Rotary	14 Pin Plug	15 ft. (4.6 m) 28 ft. (8.5 m) 53 ft. (16.2 m)	RACCV-1-1-M14	RAC25-1-1-M14	RAC2M-1-1-M14	
				RACCV-1-2-M14 RACCV-1-3-M14	RAC25-1-2-M14 RAC25-1-3-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	RAC25-1-1-M5	RAC2M-1-1-M5	
					RAC25-1-2-M5 RAC25-1-3-M5	RAC2M-1-2-M5 RAC2M-1-3-M5	
	Linear	14 Pin Plug	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 M-1-1-M14	AMT 2 L-1-1-M14
					AMT 2 S-1-2-M14 AMT 2 S-1-3-M14	AMT 2 M-1-2-M14 AMT 2 M-1-3-M14	AMT 2 L-1-2-M14 AMT 2 L-1-3-M14
		5 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 M-1-1-M5	AMT 2 L-1-1-M5
					AMT 2 S-1-2-M5 AMT 2 S-1-3-M5	AMT 2 M-1-2-M5 AMT 2 M-1-3-M5	AMT 2 L-1-2-M5 AMT 2 L-1-3-M5

*ONLY THE VELCRO MODEL WILL WORK FOR THE VALVED CKC150 AND THE VALVED FLEX-LOC TORCHES. CONTACT US FOR OTHER TIG MACHINES

TIG TORCHES & ACCESSORIES

TIG COLD WIRE FEEDERS

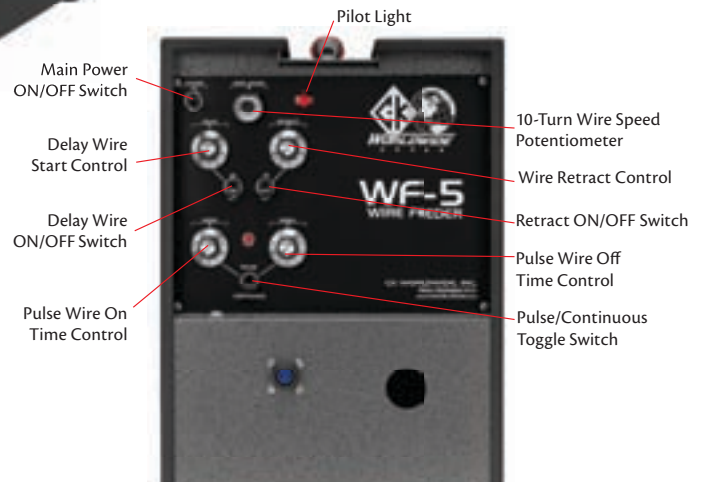
For complete installation of a cold wire TIG system, you need both the cold wire feeder and a TIG torch (hand held or machine mounted) with cold wire TIG capabilities. The cold wire TIG system works independently of a standard TIG power supply using normal TIG welding parameters.



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

Features:

- Increases productivity by up to 30%
- Automates adding of filler metal in TIG Welding
- All weld parameters can be duplicated
- Dual groove drive roll system accepts multiple wire sizes
- Uses standard wire spool sizes
- Eliminates TIG rod stub loss
- Cabinet keeps filler wire clean
- Makes fully automatic machine TIG welding possible
- Results are consistent 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:	Continuously Variable
Wire Retract Time:	Continuously Variable

Mfg. No.	Drive Roll	Wire"
WF5-030	20 – 35DR	0.023 – 0.035
WF5-035	30 – 45DR	0.030 – 0.045
WF5-045	30 – 45DR	0.030 – 0.045
WF5-116	45 – 564DR	0.045 – 1/16

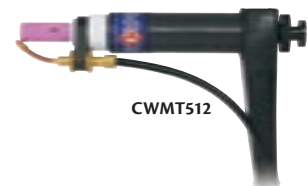
COLD WIRE FEED TORCHES

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 wire feeders
- **Pendant Unit** has an electric switch head style with straight wire guide and is used in conjunction with TIG torch
- Cold Wire torches come with rigid head without valve
- Available in 12 1/2" TriFlex/SuperFlex cable except model CWH3512 which comes with separate cables

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	-	-	-
CWHTL312	Rigid Cold Wire Torch	350	8	3 Series
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



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 wire feeder
- 12 1/2"
- 1 3/8" O.D. barrel

Please specify wire size (0.030", 0.035", 0.045" or 1/16") and type 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	Separate
CWMT512	500	7	3 Series	7" Barrel	Separate

TURBO-SHARP® X TUNGSTEN ELECTRODE GRINDERS

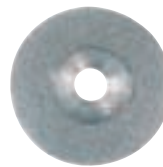
An enclosed electrode grinder, which eliminates grinding dust exposure to both the user and the environment.

- 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
- Can be equipped with an optional head which can grind electrodes of diameter: 0.040" (1.0 mm), 5/32" (4.0 mm), 3/16" (4.8 mm) or 1/4" (6.4 mm)
- Short tungsten kit grinds tungsten as short as 3/4" and includes 0.040" (1.0 mm), 1/16" (1.6 mm) and 3/32" (2.4 mm) collets

Model No.	Mfg. No.	Description	Price /Each
TTT401	TS10	115V Grinder	1857.00
TTT402	TS10-230	230V Grinder	2303.00
821-3707	TS3-W	Replacement Diamond Coated Disc Wheel	149.00
TTT413	TS3-HB	Grinder Head - 0.040" - 1/8" (included in TTT401)	358.00
821-3706	TS3-HR	Grinder Head - 0.040" - 5/32", 3/16", 1/4"	358.00
TTT414*	TS3-STK	Short Tungsten Kit	215.00

* For use with 821-3706 grinder head only

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



821-3707

TTT414

Short tungsten kit

(Sold separately)
Grinds electros as short as 3/4"(19 mm)

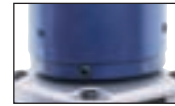


Includes: 0.040" (1.0 mm), 1/16" (1.6 mm) and 3/32" (2.4 mm) collets

3 position adjustable head!



Grinding disc last 3x longer!



Turbo-Sharp®



TTT401



METAL CARRYING CASE INCLUDES:

- Standard head for diameters: 0.040" (1.0 mm), 1/16" (1.6 mm), 3/32" (2.4 mm) and 1/8" (3.2 mm)
- 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 or 230 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

MT200-AC/DC TIG WELDING SYSTEM

CREATE, REPAIR & CUSTOMIZE

- Provides the ability to quickly and efficiently adapt to dynamic welding situations
- High-performance dual voltage inverter for 115V and 220V
- Two dynamic welding modes: GTAW (TIG) and SMAW (Stick)
- Easy-to-use interface allows for quick setting adjustments
- Compact, portable design for use in multiple applications
- Features square wave technology allowing arc to start as low as 5 amps
- 3-year limited warranty

- **Use to Weld:** Aluminum, Titanium, Magnesium, Stainless Steel, Low Alloy Steel, Deoxidized Copper, and much more!
- **Includes:** CK17 Flex-Head Gas-Cooled TIG Torch with 12.5' Super Flex™ Cable, Dinse® Connector, AK-3 Accessory Kit, Foot Pedal Amperage Control, Ground Clamp with 12.5' Cable, Single-Flow Regulator, 6' Argon Hose, 220V to 115V power adapter



Model No.	Mfg. No.	Input Power Voltage/Phase/Hz	Input Current	Output Current Range		Rated Output		Price Each
				GTAW	SMAW	GTAW	SMAW	
TTV224	MT200-AC/DC	115/1/50/60	21A	115V: 5-140 Amps	115V: 10-110 Amps	115V: 140A@15.6V, 40% duty cycle	115V: 110A@24.4V, 25% duty cycle	4129.00
		220/1/50/60	34A	220V: 5-200 Amps	220V: 10-160 Amps	220V: 200A@18.0V, 25% duty cycle	220V: 160A@26.4V, 30% duty cycle	

TIG TORCHES & ACCESSORIES

TUNGSTEN ELECTRODES

- 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 DC 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

0.8% 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

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

PURE:

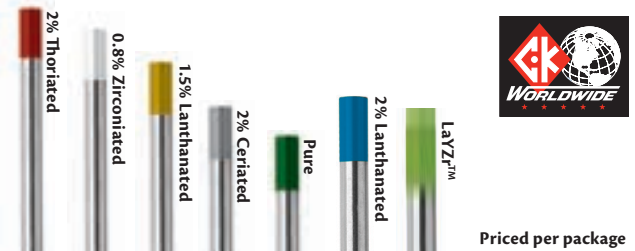
- Lowest current capacity and least expensive
- Maintains a clean balled end for welding on AC
- More prone to weld contamination than other types of tungsten electrodes
- Tends to spit at higher currents
- Used for non-critical welds only

2% LANTHANATED:

- Non-radioactive
- Best general purpose electrode at medium to higher amperages for both A/C or D/C using inverter or transformer based constant current power sources
- Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, and copper alloys
- Good arc starts and stability, low erosion rate, medium to high current range

LAYZR™:

- Non-radioactive
- Best for automated or robotic applications in A/C or D/C due to low voltage tolerance (changes in tip to work piece distance) using inverter or transformer based constant current power sources
- Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, and copper alloys
- Very stable tip geometry runs cooler than 2% thoriated, longer life
- Very best low amperage starts



Priced per package

Model No.	Mfg. No.	ISO Colour Chart	Dia."	Price /Each
2% THORIATED				
TTT403	T0207GT2	Red	0.020	2.63
NP552	T0407GT2	AWS A5.12 EWTh-2	0.040	10.80
NP544	T1167GT2	ISO 6848 WT20	1/16	25.10
NP545	T3327GT2		3/32	56.80
NP543	T187GT2		1/8	101.00
714-1150	T5327GT2		5/32	161.00
0.8% ZIRCONIATED				
TTT408	T0207GZ	White	0.020	2.96
TTT409	T0407GZ	AWS A5.12 EWZr-8	0.040	11.80
NP546	T1167GZ	ISO 6848 WZ8	1/16	26.60
NP547	T3327GZ		3/32	59.80
NP553	T187GZ		1/8	106.00
714-1185	T5327GZ		5/32	169.00
1.5% LANTHANATED				
TTT404	T0207GL	Gold	0.020	2.96
TTT405	T0407GL	AWS A5.12 EWLa-1.5	0.040	11.20
714-1200	T1167GL	ISO 6848 WL15	1/16	25.60
714-1205	T3327GL		3/32	58.20
714-1210	T187GL		1/8	104.00
TTT406	T5327GL		5/32	165.00
2% CERIATED				
TTT407	T0207GC2	Grey	0.020	2.63
NP548	T0407GC2	AWS A5.12 EWCe-2	0.040	10.80
NP549	T1167GC2	ISO 6848 WC20	1/16	25.10
NP550	T3327GC2		3/32	56.80
NP551	T187GC2		1/8	101.00
714-1177	T5327GC2		5/32	161.00
PURE				
TTT410	T0207G	Green	0.020	2.63
NP539	T0407G	AWS A5.12 EWP	0.040	10.50
NP540	T1167G	ISO 6848 WP	1/16	23.70
NP542	T3327G		3/32	54.20
NP541	T187G		1/8	96.30
714-1060	T5327G		5/32	153.00
2% LANTHANATED				
TTV117	T0207GL2	Blue	0.020	2.63
TTV118	T0407GL2	AWS A5.12 EWLa-2	0.040	10.80
TTV119	T1167GL2	ISO 6848 WLZ0	1/16	25.10
TTV120	T3327GL2		3/32	56.80
TTV121	T187GL2		1/8	101.00
TTV122	T5327GL2		5/32	161.00
LAYZR™				
TTV111	T0207GTM	Chartreuse (Lime Green)	0.020	2.63
TTV112	T0407GTM	AWS A5.12 EWG	0.040	10.80
TTV113	T1167GTM	ISO 6848	1/16	25.10
TTV114	T3327GTM		3/32	56.80
TTV115	T187GTM		1/8	101.00
TTV116	T5327GTM		5/32	161.00

CHEM-SHARP

CHEMICAL TUNGSTEN SHARPENERS

- 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
- 5 oz. net jars, over 500 sharpenings per jar



881-1300

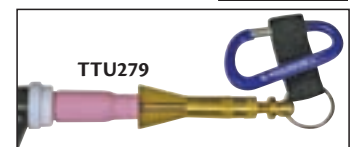
881-1305

DYNAFLUX
QUALITY PRODUCTS

Model No.	Mfg. No.	Description	Price /Each
881-1300	DF600-6	Jar, 5 oz. net	16.80
881-1305	DF601-6	Tungsten Holder	29.70
881-1310	DF602-4	Kit w/1 Jar and Holder	48.50

TUNGSTEN STICK-OUT GAUGES

- 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

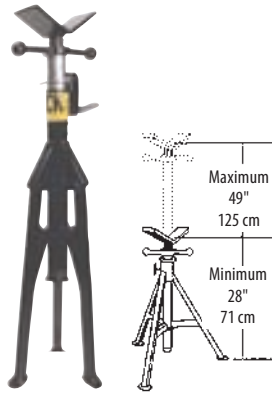


TTU279

Model No.	Mfg. No.	Description	Price /Each
TTU279	TG1	For Standard Torch	50.60
TTU280	TG1-24	For 24 Series and Micro Torch	48.10

FOLD-A-JACK® HI JACKS

- 1" square tube base construction
- Quick-action lock washer for quick height positioning
- Patented Fall Guard™ feature allows 1" safety zone around lock washer
- 1 1/2" Acme fine adjustment thread handle, the largest in the industry
- Large, convenient adjustment handle
- Set screw for double margin of safety, can lock jack head to stand for transportation, no loose pieces
- Perfect for work height on shapes or pipes 24" in diameter or smaller
- Carrying handle for ease of transporting
- Jack independently load tested for quality assurance
- 2500-lb capacity
- CE rated



SUMNER

HEAD STYLES

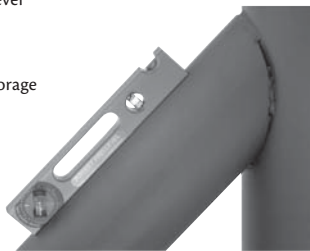


Model No.	Mfg. No.	Description	Price /Each
432-1161	781300	ST-881 w/Vee-Head	140.00
432-1162	781301	ST-882 w/Roller Head	186.00
432-1163	781302	ST-883 w/Bar Stock Head	280.00
432-1164	781303	ST-884 w/Stainless Steel Rollers	234.00
432-1166	781304	ST-885 w/Stainless Steel Vee-Head	205.00
432-1167	781305	ST-886 w/Ball Transfer Head	268.00
432-1168	781306	ST-887 w/Rubber Wheels	207.00

POCKET PRO LEVELS

- Extra strong magnet will hold it firmly to any steel surface
- 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

Model No. 496-1185
Mfg. No. PP-200
Price/Each \$114.00



flange wizard tools

See page 1281 for our line of Levels



QWIK PINS SETS

- For fast, accurate alignment of carbon steel pipe flanges
- Quick installing pins work to level flange (two-hole) for tack and weld-out
- Hardened tapered Qwik Pins automatically center on 5/8" to 1 5/8" (16 - 42 mm) holes
- Features Acme threads for maximum clamping power and hardened steel for long-lasting use



Model No.	Mfg. No.	Price /Each
TTU664	781235	110.00

FLANGE LEVELERS

- Now two-hole and level in one time-saving operation
- Uses push-button Qwik Pins set nuts for fast action
- Features stub Acme threads for maximum clamping and hardened steel for lasting use
- Automatically centers in flange holes 5/8" to 1 5/8"
- Easily replaceable vials in the event of breakage



Model No.	Mfg. No.	Description	Price /Each
TTU665*	781240	Flange Leveler	166.00
TTU666	779934	Vial Kit	21.70

*Priced per set

POCKET LEVELS

- A twin vial level constructed of tough ABS and aluminum frame
- Strong magnetic base makes this pocket size level great for many tasks:
 - Can be used with a plumb bob
 - Level pipe for fit-up
 - Earth magnet on base and side to hold measuring tape
- Weights only 3 oz.



Model No.	Mfg. No.	Price /Each
TTU667	781947	9.70

VERSA LEVELS

- Featuring a tough, anodized body and a magnetic base
- Four vials - 0°, 30°, 45°, and 90°
- V-cut into the base for pipe and conduit work
- Thumb screw connects to pipe or bent conduit



Model No.	Mfg. No.	Price /Each
TTU668	781945	41.20

QUAD LEVELS

- Tough, anodized aluminum level with a magnetic base
- Four vials - 0°, 30°, 45°, and 90°
- V-cut into the base for pipe and conduit work
- Length: 8 1/2"



Model No.	Mfg. No.	Price /Each
TTU669	781946	45.60

PIPE LAYOUT MEASURING TOOLS

CONTOUR® #1 MARKER

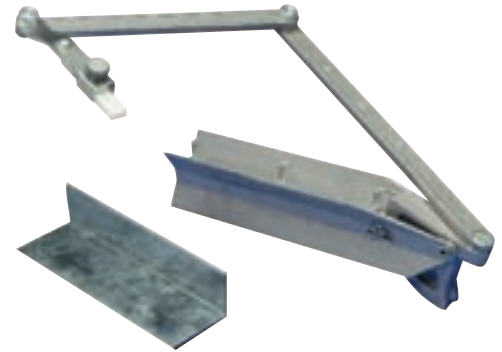
Made from durable, lightweight aluminum

- 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
- 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

Model No. 430-2000

Mfg No. 14771

Price/Each \$122.00



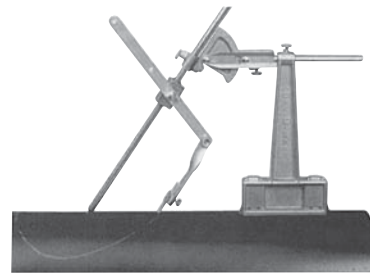
CONTOUR® #14 CIRCLE-ELLIPSE PROJECTORS

- 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

Model No. 430-2110

Mfg. No. 14784

Price/Each \$276.00



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



Model No.	Mfg. No.	Description	Radius"	Price /Each
430-2580	14780	Mini	Up to 8	19.70
430-2590	14781	Small	Up to 20	28.10
430-2600	14782	Standard	Up to 24	29.60
430-2610	14783	Jumbo	Up to 40	48.60

CONTOUR® CENTERING HEADS

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.



#6 Standard Model

- Used on pipe 1/2" to 4" diameter or larger
- Fitted with an adjustable dial bubble protractor (DSL), manually operated centering pin

#7 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



Model No.	Mfg. No.	Type	Head Type	Head Width"	Price /Each
430-2050	14775	Standard	Y	4	64.20
430-2070	14776	Jumbo	Y	8	101.00

CONTOUR® #32 FLANGE ALIGNER BASES

- 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



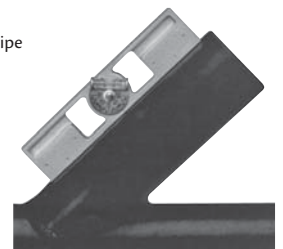
Model No. 430-2230

Mfg. No. 14795

Price/Each \$112.00

CONTOUR® #8 PRO-MAG LEVELS

- 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" L x 2" H x 3/4" Thick



Model No. 430-2080

Mfg. No. 14777

Price/Each \$59.30

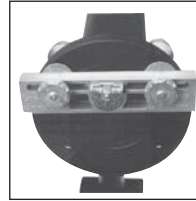
PIPE LAYOUT MEASURING TOOLS

CONTOUR® #33 UNIVERSAL LEVELS

- Multipurpose tool
- Designed primarily for pipefitting applications, is a valuable tool for any craft required to use a level or plumb bob
- Unit features a 360° adjustable protractor dial set level 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
- 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 non-magnetic 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-holding)
- 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
- Includes: 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

Model No. 430-2240
Mfg. No. 14796
Price/Each \$101.00



CONTOUR® 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



Model No.	Mfg. No.	Size	Dimensions			Pipe Dia."	Price /Each
			L'	x	W"		
430-2330	14752	Medium	4	x	3.88	3 to 6	11.10
430-2370	14753	Large	6	x	3.88	3 to 10	11.90
430-2410	14754	X-Large	7	x	5.00	4 to 12	16.40
430-2450	14756	XX-Large	9	x	5.00	6 to 16	23.90
430-2490*	14757	Special	Length desired	x	3.88	-	2.46
430-2520*	14758	Special	Length desired	x	5.00	-	3.64
430-2550*	14759	Special	Length desired	x	7.00	-	5.46

*Special lengths available up to a maximum of 375'

CONTOUR® #28 MAGNETIC BURNING GUIDES

- 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

Model No. 430-2190
Mfg. No. 14791
Price/Each \$64.20



ATTACHMENTS FOR PRO-MAG BURNING SQUARE & MAGNETIC BURNING GUIDE

- Each is in two sections



Model No.	Mfg. No.	No.	Overall Length"	Price /Each
430-2200	14792	29	34	62.30
430-2210	14793	30	48	60.10
430-2220	14794	31	72	94.50

STEEL HAND STAMPS

- For hand-held, hammer struck applications
- Manufactured from high quality steel
- Induction hardened for added durability and extended life
- Bevelled striking edge prevents breakage and accidents during use
- Stamping end is hardened at 58-62 HRC and the striking end is hardened to 38-43 HRC to prevent splintering
- Letter sets contain 27 pieces, "A" through "Z" and "&"-ampersand
- Number sets contain 9 pieces, "0" through "9", numbers "6" and "9" are interchangeable

aurora tools®



Model No.	Stamp Size"	Type	Price /Each
TLZ389	1/8	Number	13.95
TLZ392	1/8	Letter	38.85
TLZ390	3/16	Number	22.80
TLZ393	3/16	Letter	55.40
TLZ391	1/4	Number	29.60
TLZ394	1/4	Letter	72.35

CONTOUR® WORKER KITS

All the top sellers in one case!

- Includes: #1 Contour® Marker, #7 Centering Head, #8 Pro-Mag level, standard Radius Marker, square soapstone, holder and lockable metal carrying case

Model No. TTT484
Mfg. No. 20664
Price/Each \$280.00



WELDING BLANKETS & SCREENS

24-OZ. FIBREGLASS LAVASHIELD™ WELDING BLANKETS

- 24-oz. black fiberglass 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 resistance: 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.



Model No.	Dimensions'	Price /Each
NT896	6 x 6	102.00
NT821	6 x 8	132.00

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 resistance: 1000°F (538°C)

Applications: Heavy-duty drop cloth and vertical curtain protection against sparks, molten metal splash, welding spatter and grinding spray.



Model No.	Dimensions'	Price /Each
NT822	6 x 6	120.00
NT823	6 x 8	155.00

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 resistance: 2192°F (1200°C)

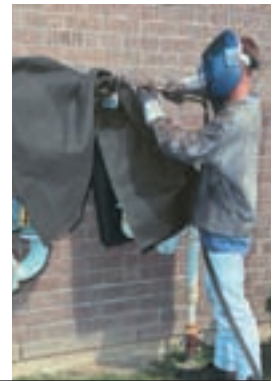
Applications: General purpose drop cloth and vertical curtain protection against extremely high temperature sparks, molten splash, welding spatter and grinding spray.



Model No.	Dimensions'	Price /Each
NT824	3 x 3	65.00
NT825	6 x 6	215.00

WELDING BLANKETS

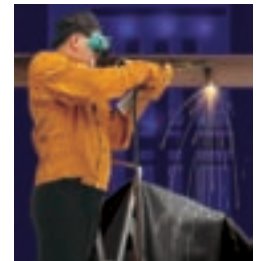
- Weldflex specially coated cloth, combination of aramid and silica fibres
- Treated to enhance shedding of molten metal splash generated by most severe welding or furnace operations
- Highly abrasion resistant, exceptional strength and durability, good heat resistance
- Soft, pliable and non-irritating
- Sheds welding spatter and molten metal up to 3000°F on a 15°-20° incline
- Protects objects and machinery while welding



Model No.	Mfg. No.	Dimensions'	Price /Each
SF063	FB-020-0505	5 x 5	196.00
SF064	FB-020-0506	5 x 6	234.00
SF065	FB-020-0507	5 x 7	276.00
SF066	FB-020-0508	5 x 8	316.00
SF067	FB-020-0509	5 x 9	355.00
SF068	FB-020-0510	5 x 10	395.00

WILSON* WELD-O-GLASS WELDING BLANKETS

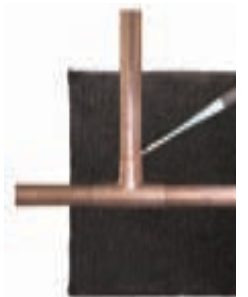
- 24-oz. black fibreglass, vermiculite coated
- Heavy-duty, general purpose welding blankets
- Provides protection from sparks, spatter and slag
- Temperature resistance: 1200°F
- ANSI FM-4950 certified for use in vertical applications



Model No.	Mfg. No.	Dimensions'	Price /Each
146-3100	37595	3 x 3	25.10
146-1312	36302	6 x 6	74.80
146-1367	36318	6 x 8	102.00

WILSON* FLAMESHIELD SOLDERING & WELDING PADS

- Made of carbon felt
- 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



Model No.	Mfg. No.	Dimensions"	Price /Each
TTV108	36678	9 x 12	25.10

WILSON* WELDING UMBRELLAS

- Provides protection from inclement weather
- Features lightweight aluminum frame and tilt mechanism
- Made of Rip-Stop vinyl which is water-resistant, fire-retardant and very tear-resistant



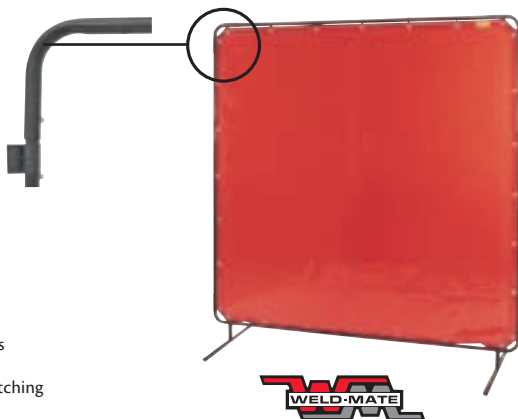
Model No.	Mfg. No.	Dimensions	Price /Each
		Dia' x H'	
146-2050	36684	6.5 x 7	150.00

WELDING BLANKETS & SCREENS

COMBOFRAME ADJUSTABLE MODULAR WELDING SCREENS

FRAMES

- Innovative COMBOframe combines high durability with extreme versatility
- Made with heavy-duty finished steel tubing and connects with spring-pins
- Assembles in less than five minutes, no tools required
- Adjustable to fit both 6' and 8'-wide welding screens
- Includes 360° swivel connectors that allow various configurations



LAVASHIELD™ CURTAINS

- Specially formulated 16-mil thick vinyl
- **NT832** and **NT833**: 25-mil thick cotton duck canvas
- Grommets every 12" interval
- Screen edges are hemmed with DuPont® Kevlar® stitching
- Resists to UV rays, flame and abrasion
- **Sold per panel**

CURTAINS & FRAMES

Model No.	Dimensions			Transparency	UV Resistance	Colour	Price /Each	CURTAINS ONLY	
	W'	x	H'					Model No.	Price /Each
NT888	6	x	6	High	Moderate	Yellow	149.00	NT826	39.95
NT889	8	x	6	High	Moderate	Yellow	159.00	NT827	49.95
NT890	6	x	6	High	Moderate	Orange	149.00	NT828	39.95
NT891	8	x	6	High	Moderate	Orange	159.00	NT829	49.95
NT892	6	x	6	Moderate	Moderate	Green	149.00	NT830	39.95
NT893	8	x	6	Moderate	Moderate	Green	159.00	NT831	49.95
NT894	6	x	6	Opaque	Maximum	Olive	209.00	NT832	105.00
NT895	8	x	6	Opaque	Maximum	Olive	235.00	NT833	135.00

FRAMES ONLY

Model No.	Description	Price /Each
NT834	Modular Frame, Adjustable Width 6' or 8'	115.00

OPTIONAL CASTERS

Model No.	Description	Price /Each
SEB618*	2" Rubber Caster with Brake	6.10

*Sold individually, two casters required per frame's foot

Yellow



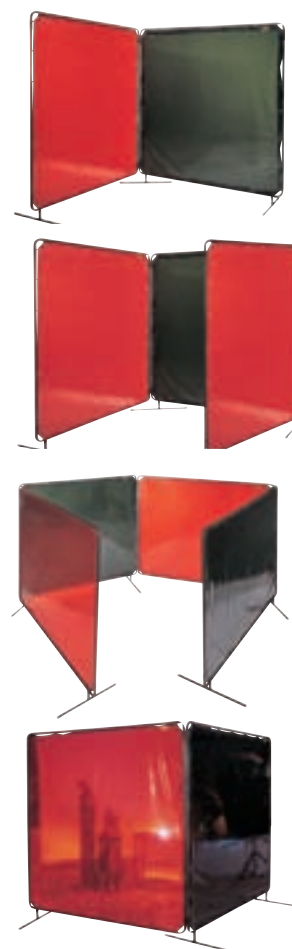
Orange



Green

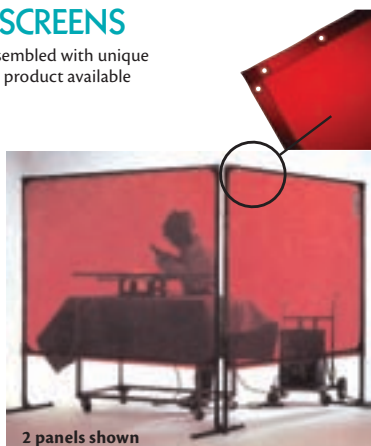


Olive



WILSON* WELDING SCREENS

- Comprised of 1" 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
- Orange Spectra 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**



Model No.	Mfg. No.	Dimensions W' x H'	Price /Each
CURTAINS & FRAMES			
TTV105	-	6 x 6	149.00
TTV106	-	8 x 6	170.00
TTV107	-	10 x 6	190.00
FRAME ONLY			
TTV099	36336	6 x 6	105.00
TTV100	36338	8 x 6	112.00
TTV101	36333	10 x 6	117.00
CURTAIN ONLY			
TTV102	36219	6 x 5	44.20
TTV103	36256	8 x 5	58.40
TTV104	36193	10 x 5	73.60

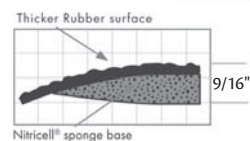
WELSAFE® NO. 447

- Dramatically reduces fatigue while withstanding the challenges of welding environments
- Specially formulated to repel sparks and hot metal shards, the thick rubber surface has a melt point of over 500°F
- The super resilient Nitricell® sponge base is a nitrile rubber composite that offers unparalleled comfort
- All edges are safety bevelled
- 9/16" thick
- Green rating > 33% post industrial material
- Colour: Black

3-YEAR WARRANTY



Anti-fatigue mat specifically designed for welding!



Model No.	Dimensions W' x L'	Price /Each
NG181	2 x 3	83.60
NG182	3 x 5	209.00

WELDING HELMETS & LENSES

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



Model No.	Description	Price /Each
NT646	Fixed Front	6.25
NT647	Flip Front	8.25

CUP GOGGLES

- Rigid 2" (50 mm) round lens cup goggle
- Comes complete with shade 5 lens



Model No.	Price /Each
NT648	6.30

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
- Certified to CSA standard Z94.3



SAI907



Model No.	Mfg. No.	Description	Lens Tint	Price /Each
SAI907*	11250830	Indirect Vent, Black Frame and Headband	Shade 3.0	13.89
SAI908*	11250850	Indirect Vent, Black Frame and Headband	Shade 5.0	16.31
SAI905*	11250800	Direct Vent, Red Headband	Clear, Fog-ban®	6.01
SAI906	11250810	Indirect Vent, Black Neoprene Headband	Clear, Fog-ban®	7.10
SAI909	11250860	Goggle Covers, 10/pkg	-	7.58

* Elastic Headband

JACKSON SAFETY* V80 WILDCAT* GOGGLES

- Extreme heat resistance, will not melt, drip or ignite at 350°F for five minutes
- Adjustable side vents to help increase airflow
- Fits naturally to the contour of your face
- Lightweight and comfortable with a pivot headband that allows for optimal placement
- Meets ANSI standard Z87.1+ and compliant with CSA standard Z94.3



Model No.	Mfg. No.	Lens Tint	Price /Each
TTT946	20525	Clear Anti-Fog	13.30
TTT947	20526	Smoke Anti-Fog	13.70
TTT948	20527	Amber Anti-Fog	13.70
TTT949	20528	Shade 3.0 Anti-Fog	19.60
TTT950	20529	Shade 5.0 Anti-Fog	19.60

JACKSON SAFETY* V90 SHIELD* GOGGLES

- Features the Monogoggle® XTR® with indirect ventilation and a polycarbonate shield for full face protection
- Shield detaches from the goggles
- Curved face shield conforms to shape of face offering added protection
- Can be used over most prescription eyeglasses
- Meets ANSI impact standard Z87.1+



Model No.	Mfg. No.	Lens Tint	Price /Each
TTT954	18629	Clear Anti-Fog	25.10
TTT955	18631	Shade 3.0 Anti-Fog	34.00
TTT956	18633	Shade 5.0 Anti-Fog	34.00

JACKSON SAFETY* WELDING HELMETS

Design to perform in a range of welding conditions, the Jackson Safety* welding helmets brand are available in a variety of materials including fibreglass and vulcanized fibre. Choose from a selection of filters – from passive to digital ADF platforms and numerous graphic designs to reflect personal style. WH series tiers highlight increasing levels of performance within the Jackson Safety* welding helmets product line.

JACKSON SAFETY* WH40 SMARTIGER* BALDER* WELDING HELMETS

- Internal adjustable shade 9-13
- Internal adjustable sensitivity
- Aerodynamic shell designed for better fume deflection
- Solar-powered unit with two arc sensors
- Can be used for torch cutting
- Lightweight at 19.2 oz
- Auto-on ADF is always ready to weld
- Meets ANSI standard Z87.1 and compliant with CSA standard Z94.3
- 5-year warranty

SEH126



SEH127



Model No.	Mfg. No.	Description	Price /Each
SEH126	37188	SmartIGer* Balder* Black	243.00
SEH127	37187	SmartIGer* Balder* Torch Dancer	267.00
SDL094	37247	External Safety Lens, 10/Pkg.	22.10
SDL095	37249	Internal Safety Lens, 10/Pkg.	11.10

JACKSON SAFETY* WH70 BH3* BALDER* WELDING HELMETS

- Superior angle of view
- Enhanced visibility and colour recognition
- Variable shade 9-13, adjustable sensitivity and opening time delays
- Solar-powered unit with two arc sensors
- Curved front cover plate offers reduced heat build-up, reflections and fogging
- Aerodynamic shell designed for better fume deflection
- Can be used for torch cutting
- Quick and easy replacement of safety plates
- Lightweight at 19.84 oz.
- Auto-on ADF is always ready to weld
- Meets ANSI standard Z87.1 and compliant with CSA standard Z94.3
- 5-year warranty

SEH125



Model No.	Mfg. No.	Description	Price /Each
SEH125	37191	BH3* Black	489.00
SDL094	37247	External Safety Lens, 10/Pkg.	22.10
SDL096	37248	Internal Safety Lens, 10/Pkg.	11.10

JACKSON SAFETY* WH70 TRUESIGHT* II DIGITAL ADF WELDING HELMETS

DELIVERS BEST-IN-CLASS OPTICAL CLARITY BY INTRODUCING BALDER* TECHNOLOGY TO TRUESIGHT* II'S LARGE VIEWING AREA AND DIGITAL CONTROLS

- Optical classification 1/1/1/1 rating
- Variable shade from 5-8 and 9-13
- 3.25" x 4.00" viewing area
- Digital controls (Designed by welders for welders)
- Weld, grind and torch modes (3-N-1 welding helmet)
- Delay and sensitivity adjustments
- Four sensors and auto off
- Meets ANSI standard Z87.1 and compliant with CSA standard Z94.3
- DIN rating EN379



SEC603



Model No.	Mfg. No.	Description	Price /Each
SEC603	29371	HLX w/Truesight* II Digital ADF, Black	504.00
SEC604	30319	Truesight* II ADF Cartridge 4 1/2" x 5 1/4"	462.00
SEC605	30320	External Safety Lens	3.15
SEC606	30321	Internal Safety Lens	2.09

Can't find what you're looking for?



Call us today!

WELDING HELMETS & LENSES

JACKSON SAFETY* WH30/WH40 ELEMENT* ADF WELDING HELMETS

- Lightweight shell weighs only 6 oz.
- Available in two different auto-darkening filters: ADF fixed shade 10 and ADF variable shade 9-13
- Two independent arc sensors
- Solar powered unit
- Meets ANSI standard Z87.1 and compliant with CSA standard Z94.3



SEA769



Model No.	Mfg. No.	Description	Price /Each
WH30 ELEMENT*			
SEA770	23286	Welding Helmet-Fixed Shade 10 ADF, 4.33" x 3.54"	70.60
SEA772	23440	Replacement Cover Lens Kit - Includes 5 Front and 2 Rear Safety Plates	6.36
WH40 ELEMENT*			
SEA769	23282	Welding Helmet-Variable ADF, 4.33" x 3.54"	106.00
SEA771	29127	Replacement Cover Lens Kit - Includes 5 Front and 2 Rear Safety Plates	6.12

JACKSON SAFETY* WH40 NITRO* VARIABLE ADF WELDING HELMETS

- Offers welders outstanding features at an economical price point
- Variable shade 9-13, sensitivity and delay adjustments
- Lightweight - Only weighs 1 pound fully assembled
- Three independent sensors
- Solar powered
- Meets ANSI standard Z87.1 and compliant with CSA standard Z94.3



SAS083



Model No.	Mfg. No.	Description	Price /Each
SAS083	21931	Nitro* Blue w/Nitro* ADF	142.00
SAS084	21947	Nitro* ADF Cartridge, 4.33" x 3.54"	93.50
SEA270	20696	370 Series Headgear	25.60
SEA573	22603	Replacement Cover Lens Kit - Includes 5 Front and 2 Rear Safety Plates	6.39
SAS086	21119	24-Pc. Back Cover Plate, 5/Bag	14.40

JACKSON SAFETY* ELEMENT* REPLACEMENT HEADGEARS

- Teeth are automatically disengaged during adjustment
- Compatible with Element* helmets only

Model No. SED982
Mfg. No. 23442
Price/Each \$11.90



JACKSON SAFETY* WH40 INSIGHT* VARIABLE ADF WELDING HELMETS

- Get the high-level elements of a high-performance welding lens without the high price
- Offers an ADF with digital and multi-function controls for any welding job
- Sensitivity and delay adjustments
- Four independent sensors
- Easy-to-use digital controls
- Torch, grind and weld modes
- Variable shade: 9-13
- Viewing area: 3.93" x 2.36"
- Meets ANSI standard Z87.1 and compliant with CSA standard



Model No.	Mfg. No.	Description	Price /Each
SDP562	40710	HSL100 Black w/Insight* ADF	202.00
SDP563	40709	Insight* ADF Cartridge, 4.5" x 5.25"	172.00
SDP564	41594	Internal Lens, 10/Pkg.	11.20
SDP565	41589	Replacement Cover Lens Kit - 5 Front and 2 Rear Safety Plates	9.71

JACKSON SAFETY* R60 AIRMAX WELDING POWERED AIR PURIFYING RESPIRATOR SYSTEMS

- Powered air purifying respirator offers affordable protection from harmful contaminants while you weld
- Features a WH40 series variable auto-darkening filter, adjustable shade 9-13 with light shade 4
- Flame retardant face-seal protects against sparks
- Lightweight blower unit mounts on adjustable waist belt
- Audible alarm signals user when battery charge or new filter is required
- Flame retardant breathing hose
- Lightweight lithium ion battery provides eight hours of power
- NIOSH approved HE filtration from particulate contaminants



Model No.	Mfg. No.	Description	Price /Each
SED529	12993	R60 Airmax PAPR	778.00
SED532	13043	ADF Protective Plates (5 Fronts, 2 Backs)	8.62
SED535	13051	Replacement Battery	161.00
SED536	13053	Replacement HE Filter	139.00

Other replacement parts are available

SEE PAGES 470-481 FOR PAPR OPTIONS

WELDING HELMETS & LENSES

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



Model No.	Description	Window Dimensions"	Price /Each
NT645	Flip Front	2 x 4 1/4	18.95
NT687	Fixed Front	4 1/2 x 5 1/4	26.65

JACKSON SAFETY* WH10 PASSIVE WELDING HELMETS

- Narrow shell design is perfect for work in tight space
- Extended front increases throat protection against sparks, slag and other physical hazards
- Comes standard with cover plate and shade 10 polycarbonate filter plate
- Meets ANSI standard Z87.1 and compliant with CSA standard Z94.3

SD617



PB193



Model No.	Mfg. No.	Description	Colour	Price /Each
HSL-2 HELMETS - 2" X 4 1/4"				
PB193	14982	Flip Front	Black	50.70
SD618	14983	Flip Front	Blue	53.20
HSL-100 HELMETS - 4 1/2" X 5 1/4"				
SD617	14975	Fixed Front	Black	53.40
SAN172	14976	Fixed Front	Blue	48.80

JACKSON SAFETY* WH20 860P LEATHER WELDING HELMETS

- Ideal for use in confined spaces
- Tough, pliable, breathable leather covering
- Flip-front glass holder, 2" x 4 1/4"
- Includes adjustable headgear



Model No.	Mfg. No.	Price /Each
141-1120	14531	113.00

JACKSON SAFETY* WH20 H500 FIBREGLASS HANDSHIELD

- For quick inspection, providing guidance and monitoring robotic welds
- Designed for high-heat applications
- Features fibreglass helmet with injection-molded plastic handle
- Fixed front, 5 1/4" x 4 1/4"
- Must purchase a filter prior to use
- Meets ANSI standard Z87.1



Model No.	Mfg. No.	Price /Each
SAN181*	14967	45.80

*Lens plates sold separately

JACKSON SAFETY* 370 SERIES REPLACEMENT HEADGEAR

- Removable comfort cradle is a pivoting head pad that conforms to any head size
- 3-position slider adjusts distance of the lens from your eyes for precise vision
- Crown strap adjustment allows the headgear to be raised or lowered for maximum comfort and performance
- Sweatband helps absorb perspiration
- Vertical lock-in eliminates helmet creeping
- Compatible with HaloX, Nitro*, Nexgen*, Master 3-N-1, Solera, Truesight*, Boss* 3-N-1 and Professional welding helmets



Model No. SEA270
Mfg. No. 20696
Price/Each \$25.60



JACKSON SAFETY* HELMET BAGS

- Made of heavy-duty denier fabric with drawstring closure
- Features velcro close front lens pocket and two side mesh tool pockets
- Fits all Jackson Safety* helmets

Model No. TTU304
Mfg. No. 18935
Price/Each \$24.00



OFFICE PRODUCTS

INSTRUMENTS, SCALES & ELECTRICAL

SHIPPING & PACKAGING

TOOLS & EQUIPMENT

WELDING & METALWORKING

SAFETY EQUIPMENT & SUPPLIES

JANITORIAL & MAINTENANCE

MATERIAL HANDLING & STORAGE

WELDING HELMETS & LENSES



ALL OPTREL® 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
- Water resistant to IP76 standards against humidity and moisture
- Meet worldwide safety standards including CSA, ANSI and DIN



P550 WELDING HELMETS

- External controls enable welders to manually adjust their shade level
- Sensitivity Control prevents ADF from responding too soon or not at all to their arc flash
- Opening Delay function allows welders to adjust the time it takes to switch from dark to light
- Bright helmet color combinations, side panel designs add personalization, visibility in dark environments
- Shade level 4/9-13
- Grind mode shade 4
- Power by solar cells and two lithium batteries
- Application range: all electric arc welding processes
- Prohibited for overhead welding and laser/gas welding
- Complies with CSA standard Z94.3
- 2-year warranty



ACCESSORIES

Model No.	Mfg. No.	Description	Qty/Pkg.	Price/Each
COVER LENSES				
SAX006	5000.001	Inside Cover Lenses	5	13.10
SED552	5000.250	Front Cover Lenses	5	16.80
MAGNIFICATION LENSES				
SAX008	5000.050	1.00 Diopter	1	37.80
SAX009	5000.051	1.50 Diopter	1	37.80
SAX010	5000.052	2.00 Diopter	1	37.80
SAX011	5000.053	2.50 Diopter	1	37.80

HELMETS

Model No.	Mfg. No.	Description	Colour	Price /Each
SED542	1007.000	Unpainted (No Side Cover)	Black	369.00
SED543	1007.010	Reptile Side Cover	Black/Green	386.00
SED544	1007.020	Bulldog Side Cover	Black/White	386.00
SED545	1007.030	Tiger Side Cover	White/Black	386.00
SED546	5012.700	Replacement Auto-Darkening Filter	-	302.00

E600 SERIES WELDING HELMETS

- Offers the widest range of shade levels available in an autodarkening welding helmet
- External controls enable welders to manually adjust their shade level without removing helmets
- Curved helmet design deflects smoke, particles, and other debris, and is ideal for overhead welding
- Sensitivity Control prevents ADF from responding too soon or not at all to their arc flash
- Opening Delay function allows welders to adjust the time it takes to switch from dark to light
- Sensor Slide allows the detection angle to be reduced from 120° to 60°
- Grind mode shade 4
- Powered by solar cells and two lithium batteries
- Approved for overhead welding
- Complies with CSA standard Z94.3

e650

- Shade Level 4/9-13



Model No.	Mfg. No.	Description	Colour	Price/Each
SAX003	1006.300	e650 Helmet	Black Unpainted	595.00
SAX004	1006.310	e650 Helmet	Red	595.00
SAX005	5012.440	Replacement Auto-Darkening Filter	-	524.00

e680

- True colour filter optimizes view of colours in almost true form, allows welders to easily read red LEDs without raising their helmets
- Shade levels 4/5-9 & 9-13



Model No.	Mfg. No.	Description	Colour	Price/Each
SAW997	1006.143	e680 Helmet	Black	795.00
SEI954	1006.110	e680 Helmet	Dark Blue	795.00
SAW996	1006.180	e680 Helmet	Medium Blue	795.00
SEI955	1006.160	e680 Helmet	Green	795.00
SAW998	5012.400	Replacement Auto-Darkening Filter	-	670.00

e684

- Adaptive shade autopilot automatically adjusts the shade level as one welds
- Third sensor detects changes in arc intensity and adjusts shade level accordingly
- Twilight ADF technology restores light more naturally, presenting a smoother transition to the eye
- High definition viewing
- True colour filter optimizes view of colours in true form
- Curved helmet optimized for overhead welding
- Shade Level : 4/5-13



Model No.	Mfg. No.	Description	Colour	Price/Each
SFI934	1006.500	e684 Helmet	Silver	778.00
SFI935	5012.480	Replacement Auto-Darkening Filter	-	696.00

ACCESSORIES

Model No.	Mfg. No.	Description	Qty /Pkg.	Price /Each
SAM897	5000.210	Front Cover Lenses	2	20.60
SAM898	5000.212	Front Cover Lenses	5	47.80
SAX006	5000.001	Inside Cover Lenses	5	13.10
SAX008	5000.050	Magnification Lens, 1.00 Diopter	1	37.80
SAX009	5000.051	Magnification Lens, 1.50 Diopter	1	37.80
SAX010	5000.052	Magnification Lens, 2.00 Diopter	1	37.80
SAX011	5000.053	Magnification Lens, 2.50 Diopter	1	37.80
616-1570	5003.250	Replacement Headgear	1	49.10



WELDING HELMETS & LENSES

VEGAVIEW2.5 WELDING HELMETS

- Brightest view in light state and grind mode at shade level 2.5
- Shade level 2.5/8-12
- External infinite shade level adjustment enables welders to manually adjust their shade level from 8-12
- True colour filter optimizes view of colours in true form
- Sensitivity control prevents ADF from responding too soon or not at all to their arc flash
- Opening delay allows welders to adjust the time it takes to switch from dark to light
- Curved helmet optimized for overhead welding
- Meets CSA standard Z94.3
- 2-year warranty



Model No.	Mfg. No.	Description	Colour	Price /Each
SF1930	1006.600	vegaview2.5 Helmet	Black Unpainted	569.00
SF1931	5012.470	Replacement Auto-Darkening Filter	-	521.00

ACCESSORIES

Model No.	Mfg. No.	Description	Qty/Pkg.	Price/Each
SAM898	5000.212	Front Cover Lenses	5	47.80
SAM901	5000.300	Inside Cover Lenses	5	12.80

WELDCAP®

- Combines the lightweight wear comfort of a baseball cap with full protection of an ADF welding helmet
- Lightweight, flame-retardant textile is soft where it must be comfortable, robust plastic is rigid where it must be tough
- Well-defined nose cut out places the lens closer to the eyes, enlarges the welder's line of sight by 2.7 times
- Weighs less than 14 ounces
- Sleek profile ideal for welder working in confined spaces
- Grind mode shade 3
- Shade level 3/9-12
- Meets Z87.1+ standard for impact resistance



Model No.	Mfg. No.	Description	Qty /Pkg.	Price /Each
SEK224	1008.000	Weldcap®	1	334.00
SEK225	5000.260	Front Cover Lens	5	38.60
SEK226	5000.040	Inside Cover Lens	5	15.20
SEK227	5002.700	Nose Clip	2	15.20
SEK228	5002.800	Replacement Textile Cap	1	117.00
SEK229	5002.720	Battery Cover	2	13.60
SEK230	5002.900	Parking Buddy Belt Clip	1	37.40

HELMET ACCESSORIES

HARD HAT ADAPTERS

- Simply remove existing headgear from any Optrel® helmet and install adapter
- For use with the majority of popular hard hat models
- Slip-on/off spring assembly for easy installation



Model No.	Mfg. No.	Description	Price /Each
SAN048	5011.180	Fits all non-slotted hard hats	36.90
SED541	5011.185	Fits all slotted hard hats	47.10

LEATHER CHEST PROTECTORS

- Ensures 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



Model No.	Mfg. No.	Description	Price /Each
SAN051	4028.015	Fits all Optrel® helmets	78.90

LEATHER NECK PROTECTORS

- Covers the entire lower neck and back regions of head
- Clips on to the rim of the helmet shell



Model No.	Mfg. No.	Description	Price /Each
SAN049	4028.016	Fits all Optrel® helmets	129.00

OTHER ACCESSORIES

- **Sweatbands** - For use with all Optrel® helmets
- **Helmet Back Pack** - Back-pack style



Model No.	Mfg. No.	Description	Qty /Pkg.	Price /Each
SAN046	5004.073	Front Sweatbands	2	8.90
SDP288	5004.020	Back Sweatbands	2	8.90
SEK875	9410.043.00	Helmet Back Pack	1	25.20

NOVA AUTO-DARKENING FILTERS

- Automatically darken to shade 10
- Fits most competitive 2" x 4 1/4" openings
- Solar powered
- 2-year warranty



Model No.	Mfg. No.	Price /Each
SAJ757	5012.238	252.00

Safety Products for Industry

WELDING HELMETS & LENSES

SPEEDGLAS™ 100 SERIES VARIABLE AUTO-DARKENING FILTER WELDING HELMETS

- Provides outstanding optical clarity
- Three selectable sensitivity levels for reliable arc detection
- Light state shade 3
- 1.73" x 3.66" viewing area
- Available in women helmets which feature an ergonomic headband that accommodates smaller head sizes
- Stick, MIG and most TIG welding processes
- Ideal for hobby welders, farmers, as well as maintenance and construction workers
- Approved to CSA standard Z94.3 and meets the requirements of Z87.1 for Eye and Face Protection
- Approved for most Stick, MIG, and TIG applications greater than 10 amps



SEJ927



SEJ928



SEJ097



SEJ099



ACCESSORIES

Model No.	Mfg. No.	Description	Colour	Shade	Price /Each
SEJ927*	07-0012-31BL	Helmet w/ADF Variable	Black	8 - 12	349.00
SEJ928	07-0012-31WP-CA	Helmet w/ADF Variable	Wild-N-Pink	8 - 12	422.00
SEJ097	07-0000-31	Cartridge Only, ADF 100V Variable	-	8 - 12	283.00

* Hardhat adapter included. (Hardhat sold separately)

Other graphic designs available, including NHL authorized logo helmets

Model No.	Mfg. No.	Description	Qty /Pkg.	Price /Each
SAN353	04-0290-00	Inner Cover Plate	5	13.60
SEJ098	07-0200-51	Outside Protection Plate	10	32.20
SEJ099	07-0014-00NR	Hard Hat Adapter	1	65.70
SEJ117	07-0680-00	Magnifying Lens Holder	2	26.70

SPEEDGLAS™ SUPER LIGHT (SL)WELDING HELMETS

- 25% lighter than other Speedglas™ helmets
- Narrowest helmet, making it ideal for welding in very tight spaces
- Light state shade 3 with four sensitivity levels
- Speedglas™ SL filter offers automatic on/off switching for quick welding tasks
- Superb arc detection is ideal for specialty welding such as TIG
- 1.68" x 3.57" viewing area
- Weight: 13 oz. (including filter)



SAQ961



SAQ962



Model No.	Mfg. No.	Description	Shade	Price/Each
SAQ961	05-0013-41	Helmet w/ADF Variable	8 - 12	487.00
SAQ962	05-0000-41	Cartridge Only, ADF Variable	8 - 12	442.00

ACCESSORIES

Model No.	Mfg. No.	Description	Qty /Pkg.	Price /Each
SAN353	04-0290-00	Inner Cover Plate	5	13.60
SEJ100	05-0250-00	Outside Protection Plate	5	33.90
SEJ118	05-0680-00	Magnifying Lens Holder	1	27.60

SPEEDGLAS™ 9100 SERIES WELDING HELMETS

- Designed for optimal comfort and protection
- Head suspension changes not only how you wear the helmet, but also how you experience fit, stability and balance
- Smooth up-and-down pivot action that gently locks in the "up" position and the suspension keeps the helmet closer to user's head
- Light state shade 3 with five sensitivity levels
- Sensitivity adjustment allows for use with all Stick, MIG and TIG welding processes, with grinding and torch modes
- Feature a built-in mag plate holder and seven user selectable dark shades
- Available with shade 5 SideWindows to increase peripheral vision
- Filters available in different sizes, 9100V and 9100XX, 30% larger than any other Speedglas™
- Designed with the professional welder in mind
- Approved to CSA standard Z94.3



SEJ102



SEJ105



SEJ103



SEJ106



SEJ110



ACCESSORIES

Model No.	Mfg. No.	Description	Viewing Area"	Shade	Price /Each
9100V					
SEJ101	06-0100-10	Helmet w/ADF Variable	1.8 x 3.7	5, 8 - 13	484.00
SEJ102	06-0100-10SW	Helmet w/SideWindows and ADF Variable	1.8 x 3.7	5, 8 - 13	484.00
SEJ103	06-0000-10	Cartridge Only, ADF Variable Shade	-	5, 8 - 13	449.00
9100XX					
SEJ104	06-0100-30	Helmet w/ADF Variable	2.8 x 4.2	5, 8 - 13	699.00
SEJ105	06-0100-30SW	Helmet w/SideWindows and ADF Variable	2.8 x 4.2	5, 8 - 13	699.00
SEJ106	06-0000-30	Cartridge Only, ADF Variable Shade	-	5, 8 - 13	694.00

Model No.	Mfg. No.	Description	Qty /Pkg.	For Use W/Helmets	Price /Each
SEJ107	06-0200-10	Inside Protection Plate	5	9100V	15.40
SEJ108	06-0200-30	Inside Protection Plate	5	9100XX	19.40
SEJ109	06-0200-51	Outside Protection Plate	10	9100V, 9100XX	36.80
SEJ110	06-0014-00NR	Hard Hat Adapter	1	9100V, 9100XX	78.70
SEJ111	06-0400-51	Replacement Headgear	1	9100V, 9100XX	30.40



3M™ POWERED AIR RESPIRATORS

- High efficiency particulate respiratory protection system for welders
- Welding helmet 9100-Air with auto-darkening filter offers the welder compact, lightweight respiratory protection and quality filter optics all-in-one
- SideWindows: Shade 5 side filters that increase peripheral vision
- Ergonomic, adjustable head suspension for increased comfort, helmet stability and weight distribution
- Selectable shades 5, 8-13 and Shade 3 light state; grinding and tack modes
- 5-position sensitivity control • Adjustable recovery delay • Solar panel
- Storage bag, do-rag and starter kit included
- Meets ANSI Z87.1 and approved to CSA Z94.3 for eye and face protection
- Approved for use in all stick, MIG and TIG applications
- Breathing tube is SG-30W
- Offers assigned protection factor (APF) of 25 when used as a NIOSH-approved system
- Lens Type: Variable
- PAPR Battery Life Time: Up to 12 Hours



SDM014



REPLACEMENT FILTERS & CARTRIDGES

Model No.	Mfg. No.	Viewing Area L" x W"	ADF Battery Life Time (hrs)	Solar Cell	Price /Each
SDM014	35-1101-10SW-CA	1.8 x 3.7	2800	Yes	2279.00
SDM016	35-1101-30SW-CA	2.84 x 4.2	2000	Yes	2512.00

Model No.	Mfg. No.	Description	Price /Each
SAN357	15-0009-99X02	2-pack Adflo™ Spark Arrestor	15.30
SAN358	15-0099-99X06	6-pack Adflo™ Prefilter	21.80
SAN359	15-0099-99X12	12-pack Adflo™ Prefilter	39.70
SAN360	15-0199-99X02	2-pack Adflo™ HE Particle Filter	153.00
SAN361	15-0199-99X06	6-pack Adflo™ HE Particle Filter	71.00
SAN362	15-0199-99X36	36-pack Adflo™ HE Particle Filter	2438.00
SAN363	15-0399-99X02	2-pack Adflo™ OV/SD/CL/HC Cartridge	231.00
SAN364	15-0399-99X06	6-pack Adflo™ OV/SD/CL/HC Cartridge	636.00

SPEEDGLAS™ ACCESSORIES

- **Protective bag** used to help protect the Speedglas™ helmets assembly when not in use
- **Full hood** for use with Speedglas™ welding helmets to provide additional protection to the user from welding spark and spatter on the top portion of the head, neck and shoulders
- Hood is made of 75% FR cotton and 25% Kevlar synthetic fiber



SEJ119



SEE884

Model No.	Mfg. No.	Description	Price /Each
SEJ119	06-0500-65	Protective Bag	39.10
SEE884	06-0700-83	Full Hood	155.00

SPEEDGLAS™ 9100 HEADGEARS

DESIGNED FOR OPTIMAL COMFORT

- Conforms to head to help increase stability, improve weight distribution and significantly reduce pressure on head
- Self-adjusting headband and swivels to fit different head shapes
- Articulating ratchet adjustment
- Four settings to determine distance between face and helmet for optimum viewing
- Includes assembly parts



SEJ111



Model No.	Mfg. No.	Price /Each
SEJ111	06-0400-51	30.40

SEE PAGES 454-457 FOR 3M RESPIRATORS

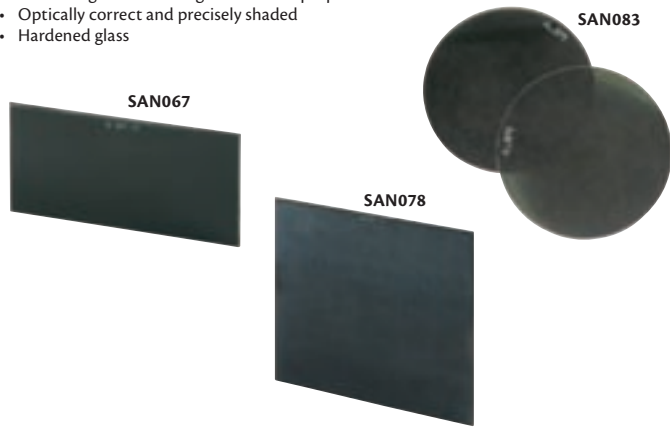


WELDING HELMETS & LENSES



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



Model No.	Mfg. No.	Shade	Price /Each
2" x 4 1/4"			
SAN061	FS-1H-4	4	1.18
SAN062	FS-1H-5	5	1.18
SAN063	FS-1H-6	6	1.18
SAN064	FS-1H-7	7	1.18
SAN065	FS-1H-8	8	1.18
SAN066	FS-1H-9	9	1.18
SAN067	FS-1H-10	10	1.18
SAN068	FS-1H-11	11	1.18
SAN069	FS-1H-12	12	1.18
SAN070	FS-1H-13	13	1.18
SAN071	FS-1H-14	14	1.18

Model No.	Mfg. No.	Shade	Price /Each
4 1/2" x 5 1/4"			
SAN073	FS-5H-5	5	2.99
SAN074	FS-5H-6	6	2.99
SAN075	FS-5H-7	7	2.99
SAN076	FS-5H-8	8	2.99
SAN077	FS-5H-9	9	2.99
SAN078	FS-5H-10	10	2.99
SAN079	FS-5H-11	11	2.99
SAN080	FS-5H-12	12	2.99
SAN081	FS-5H-13	13	2.99
SAN082	FS-5H-14	14	2.99
50 MM			
SAN083	FL-5H-4	4	3.90
SAN084	FL-5H-5	5	3.90

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"

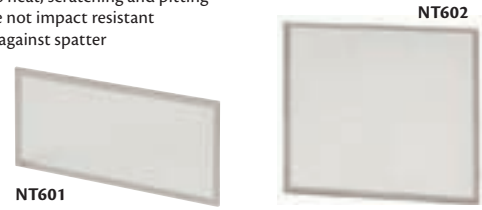


Model No.	Diopter Strength	Price /Each
GLASS		
NT652	0.75	5.55
NT653	1.00	5.55
NT654	1.25	5.55
NT905	1.50	5.55
NT655	1.75	5.55
NT656	2.00	5.55
NT657	2.25	5.55
NT658	2.50	5.55
NT659	3.00	5.55

Model No.	Diopter Strength	Price /Each
PLASTIC		
SAN095	1.00	9.07
SAN096	1.25	9.07
SAN097	1.50	9.07
SAN098	1.75	9.07
SAN099	2.00	9.07
SAN100	2.25	9.07
SAN101	2.50	9.07

CLEAR COVER LENSES

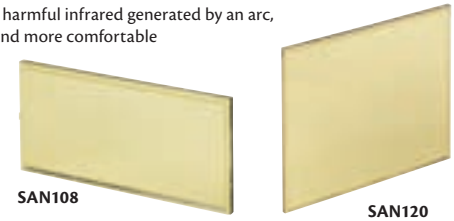
- Polycarbonate lenses are for eye protection against light impact such as sparks and small particles
- Cast resin lenses are also for eye protection and are more resistant to heat, scratching and pitting
- Clear glass lenses are not impact resistant and are only for use against spatter



Model No.	Mfg. No.	Size	Price /Each
POLYCARBONATE			
NT601		2" x 4 1/4"	0.52
NT602		4 1/2" x 5 1/4"	1.20
CAST RESIN			
SAN055	PP-2	2" x 4 1/4"	0.74
SAN056	PP-4	4 1/2" x 5 1/4"	1.95
SAN057	PL-5	50 mm	3.02
CLEAR GLASS			
SAN058	GP-2	2" x 4 1/4"	0.50
SAN059	GP-4	4 1/2" x 5 1/4"	0.84

OMNI-VIEW® GOLD FILTER PLATES

- Made of breakage resistant polycarbonate
- 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



Model No.	Mfg. No.	Shade	Price /Each
2" x 4 1/4"			
SAN106	FP2G-8	8	11.60
SAN107	FP2G-9	9	11.60
SAN108	FP2G-10	10	11.60
SAN109	FP2G-11	11	11.60
SAN110	FP2G-12	12	11.60
4 1/2" x 5 1/4"			
SAN117	FP4G-8	8	28.90
SAN118	FP4G-9	9	28.90
SAN119	FP4G-10	10	28.90
SAN120	FP4G-11	11	28.90
SAN121	FP4G-12	12	28.90

MILLER®/HOBART® COMPATIBLE AUTO-CHANGE COVER LENSES

- Replacement lenses provide an effective and cost efficient method of protecting investment
- Made of 100% impact-resistant polycarbonate



Model No.	Mfg. No.	Type of Lens	Qty /Package	For Use with Helmets	Price /Each
TTU323	231410/770237	Inside/Outside	5	FS/XL/Xli/Xlix/Performance	9.80
TTU324	770240	Outside	5	XL/Xli	12.60
TTU325	770241	Outside	5	Xlix	12.60
TTU326	216327	Inside	5	Elite/Digital Elite	9.80
TTU327	216326	Outside	5	Elite/Digital Elite	13.60
TTU328	231410	Inside	5	Pro-Hobby	10.00
TTU329	231411	Outside	5	Pro-Hobby	12.80
TTU330	231921	Outside	5	Performance	12.80

Trademarks and trade names are the property of their respective owners

WELDERS' DEERSKIN TIG GLOVES

- 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 finish

Case Qty: 120

Model No.	Size	Price /Each
SM597	Small	17.60
SM598	Medium	18.10
SM599	Large	18.65
SM600	X-Large	19.15
SAP293	2X-Large	19.50



Priced per Pair



WELDERS' PIGSKIN TIG GLOVES

- 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

Model No.	Size	Price /Each
SAN639	Small	13.15
SAN640	Medium	13.35
SAN641	Large	13.55
SAN642	X-Large	13.75



Priced per Pair



WELDERS' SOFTOUCH™ PIGSKIN TIG GLOVES

- 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

Model No.	Size	Price /Each
610-2008M	Medium	22.00
610-2008	Large	23.00



Priced per Pair



WELDERS' STANDARD QUALITY GLOVES

- Rugged split cowhide leather construction
- Excellent abrasion resistance
- Full thermal cotton lining provides added heat protection
- Welted seams at all critical points

Case Qty: 72

Model No.	Description	Size	Price /Each
SAO130	Gloves	Large	8.50
SAO131	One-Finger Mitt	Large	8.75



Priced per Pair

SAO130



SAO131



WELDERS' SUPERIOR QUALITY GLOVES

- Top split cowhide leather construction
- Excellent abrasion resistance
- Double thumb strap extends wear life
- Full thermal cotton lining provides added heat protection
- Welted seams at all critical points

Case Qty: 72

Model No.	Description	Size	Price /Each
SAO128	Gloves	Large	11.55
SAP352	Gloves	X-Large	11.95
SAO129	One-Finger Mitt	Large	11.75



Priced per Pair

SAO129



SAO128



WELDING GLOVES



WELDERS' PREMIUM QUALITY GLOVES

- Premium split cowhide leather construction
- Excellent abrasion resistance
- Double thumb strap extends wear life
- Full thermal cotton lining provides added heat protection
- Welled seams at all critical points
- Sewn with Kevlar® thread to avoid burning



Case Qty: 72

Priced per Pair

Model No.	Size	Price /Each
SAN635	Large	12.50

WELDERS' PREMIUM QUALITY FOAM LINED GLOVES

- Premium split cowhide leather construction
- Excellent abrasion resistance
- Full reinforced thumb strap extends wear life
- Cotton covered foam lining provides superior heat protection
- Welled seams at all critical points
- Sewn with Kevlar® thread to avoid burning



Case Qty: 72

Priced per Pair

Model No.	Size	Price /Each
SAN277	Large	12.95

WELDERS' COMFOFLEX™ PREMIUM QUALITY GLOVES

- Heat and flame resistant shoulder split cowhide
- Fully sock lined for added comfort
- Kevlar® stitched welled seams
- 13 1/2" long with reinforced thumb



Case Qty: 72

Priced per Pair

Model No.	Size	Price /Each
610-0328	Large	19.00

WELDERS' COMFOFLEX™ PREMIUM LINED GLOVES

- Flame retardant, air cushioned, sweat absorbent lining
- Provides incomparable comfort and extra insulation
- Buck tan, heat resistant side split cowhide
- Kevlar® thread



610-2000

Case Qty: 72

Priced per Pair

Model No.	Description	Price /Each
610-2000	Welding Gloves	28.95
610-2178	One-Finger Mitts	29.95
610-2076	Pigskin Gloves	32.95

WELDERS' PIPELINER GLOVES

- Premium split cowhide leather exterior construction
- Full grain cowhide leather interior provides incomparable comfort
- Protective leather patch on back of left hand
- Excellent abrasion resistance
- Sewn with Kevlar® thread to avoid burning
- Reinforced thumb extends wear life



Case Qty: 72

Priced per Pair

Model No.	Size	Price /Each
SAV008	Large	19.95
SEB930	X-Large	20.95

WELDERS' PREMIUM COWHIDE TIG GLOVES

- Grain cowhide unlined palm
- Premium grain cowhide leather construction
- Unparalleled fit and dexterity with exceptional durability
- Weltd seams and straight thumb for expert control
- 4" gauntlet cuff provides superior protection
- Twaron® stitching improves seam strength and reduces seam burnout
- Designed for precision welding applications

Case Qty: 72



Priced per Pair

Model No.	Size	Price /Each
SDL992	Medium	16.95
SDL993	Large	16.95
SDL994	X-Large	16.95



WELDERS' HEAVY-DUTY GENERAL PURPOSE PREMIUM COWHIDE GLOVES

- Grain cowhide leather palm
- Premium grain cowhide leather construction with split cowhide leather palm
- Unlined palm for increased comfort and dexterity
- Fully weltd Twaron® stitched seams improves seam strength and reduces seam burnout
- 6" gauntlet cuff for increased protection
- Reinforced thumb extends wear life

Case Qty: 72



Priced per Pair

Model No.	Size	Price /Each
SDL995	Medium	18.95
SDL996	Large	18.95
SDL997	X-Large	18.95



WELDERS' COMFOFLEX™ PEARL DEERSKIN GLOVES

- 14 1/2" incredibly soft, genuine North American deer hides
- Flame retardant, air cushioned, sweat absorbent lining
- Thick pliable layer of protection that easily molds to your hand for added comfort
- Kevlar® thread

Case Qty: 40



Priced per Pair

Model No.	Size	Price /Each
610-2850	Large	65.00



PREMIUM HIGH HEAT HAND SHIELDS

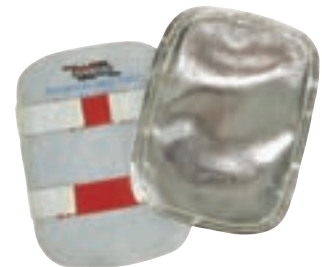
- Aluminized PFR rayon reflects 95% radiant heat
- 5-ply DuPont® Kevlar® sewn and split cowhide backing for extra durability
- Leather and elastic strap system
- Sold individually

Case Qty: 144



Priced per Pad

Model No.	Description	Price /Each
SE549	Premium Hand Shield	11.00



FABRICATOR GLOVES

- High-dexterity glove designed exclusively for intricate fabrication of sheet metal, welding and bodywork
- 100% genuine leather construction
- Three heat-resistant cowhide panels on heel, inside, and outer edge of palm
- Fingertip reinforcements on index, middle and ring fingers
- Dual-layer leather knuckle band
- Plush, suede deerskin top and fingers
- Stretch Kevlar® protective wedge insert
- Oversize, easy-entry, hook and loop closure
- CE approved

Case Qty: 120



Priced per Pair

Model No.	Mfg. No.	Size	Price /Each
SAN869	MFG-05-008	Small (8)	61.80
SAN870	MFG-05-009	Medium (9)	61.80
SAN871	MFG-05-010	Large (10)	61.80
SAN872	MFG-05-011	X-Large (11)	61.80
SAN873	MFG-05-012	2X-Large (12)	61.80



WELDING CLOTHING

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 lockstitched
- Include full-sized pocket and multiple-snap adjustment cuffs
- Roll-up collar stops shooting spatter



Model No.	Size	Chest Measurements	Price /Each
TTU398	Medium	40-42"	165.00
TTU399	Large	44-46"	165.00
TTU400	X-Large	48-50"	165.00
TTU401	2X-Large	52-54"	180.00
TTU402	3X-Large	56-58"	195.00
TTU403	5X-Large	64-66"	225.00

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



Model No.	Size	Price/Each
A. SLEEVE		
TTU389	23" L, Pair	62.00
B. CAPE SLEEVES		
TTU407	Small	110.00
TTU405	Medium	110.00
TTU406	Large	110.00
TTU408	X-Large	110.00
TTU409	2X-Large	110.00
TTU410	3X-Large	130.00
C. BIBS		
TTU411	14" L	22.00
TTU412	20" L	30.00
D. SPLIT LEG APRONS & CHAPS		
TTU396	42" L	79.00
TTU397	48" L	92.00
TTU404	Chaps	85.00
E. WAIST APRONS		
TTU392	24" L	38.00
F. BIB APRONS		
TTU393	36" L	58.00
TTU394	42" L	64.00
TTU395	48" L	75.00
G. SPATS		
TTU390	6" L, Pair	29.00
TTU391	14" L, Pair	67.00



PROBAN WELDING JACKETS

COOL PROTECTION, COOL LOOK!

- Superior flame, heat and abrasion-resistant, select cowhide sleeves for heavy-duty protection
- 30" length jacket made of black 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



Model No.	Size	Chest Measurements	Price /Each
TTV013	Medium	40-42"	77.00
TTV014	Large	44-46"	77.00
TTV015	X-Large	48-50"	77.00
TTV016	2X-Large	52-54"	83.00
TTV017	3X-Large	56-58"	92.00
TTV018	5X-Large	64-66"	106.00

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



Model No.	Size	Chest Measurements	Price /Each
TTU384	Medium	40-42"	109.00
TTU385	Large	44-46"	109.00
TTU386	X-Large	48-50"	109.00
TTU387	2X-Large	52-54"	119.00
TTU388	3X-Large	56-58"	129.00

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)



Model No.	Size	Chest Measurements	Price /Each
JACKETS			
TTU998	Medium	40-42"	49.95
TTU999	Large	44-46"	49.95
TTV001	X-Large	48-50"	49.95
TTV002	2X-Large	52-54"	55.00
TTV003	3X-Large	56-58"	60.00
TTV004	5X-Large	64-66"	70.00
CAPE SLEEVES			
TTV005	Medium	40-42"	31.00
TTV006	Large	44-46"	31.00
TTV007	X-Large	48-50"	31.00
TTV008	2X-Large	52-54"	34.00
TTV009	3X-Large	56-58"	36.00
BIB & SLEEVES			
TTV010	20" Length Bib	-	11.50
TTV011	18" Long Sleeve, Pair	-	11.00
TTV012	23" Long Sleeve, Pair	-	13.50

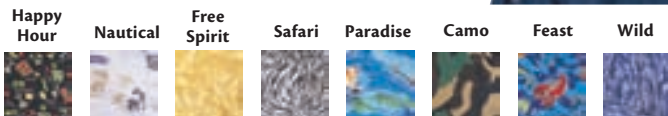
WELDERS' CAPS

- Athletic mesh lining to allow sweat vapour to quickly evaporate
- Pre-shrunk and presoftened lightweight fabric, flame retardant until washed
- Air cushioned front lining for comfort and sweat absorbency
- **Sold per package**



Camo

Assorted styles include: Happy Hour, Nautical, Free Spirit, Safari, Paradise, Camo, Feast and Wild.



Model No.	Diameter	Qty /Pkg.	Price /Each
ASSORTED			
NT838	7 1/8"	12	65.00
NT839	7 1/4"	12	65.00
NT840	7 3/8"	12	65.00
NT841	7 1/2"	12	65.00
NT842	7 5/8"	12	65.00
CAMO			
NT843	7 1/8"	12	69.00
NT844	7 1/4"	12	69.00
NT845	7 3/8"	12	69.00
NT846	7 1/2"	12	69.00
NT847	7 5/8"	12	69.00

HEADGEAR PADS & SWEATBANDS

- Field tested to improve helmet grip with maximum perspiration absorption
- Headgear 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 two**



Suspender headgear



Sweatband



Non-suspender headgear

Model No.	Description	Price /Each
620-3200V	Suspender Pads For Use With Hard Hats	4.35
SAM548	Sweatbands	4.35
620-3100V	Non-Suspender Pads For Use With Welding Helmets	4.35

WELDERS' DOORAGS

- 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
- Assorted styles
- One size fits all
- **Sold per package**



Camo



Free Sprit



Wild

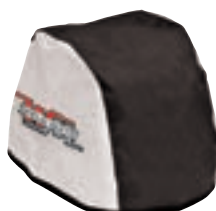


Model No.	Assorted Styles	Qty /Pkg.	Price /Each
NT835	Camo, Wild, Safari	12	75.00
NT836	Happy Hour, Feast, Free Spirit	12	72.00
NT837	Authentic Woodland Camo	12	82.00

COTTON WELDERS' BEANIES

- 100% flame resistant cotton
- Added protection under welding helmet
- Two colours (black and white)
- One size fits all
- Imprint available with minimum quantity

Model No. SEE845
Price/Each \$1.35



WELDING KNEE PADS

- Made of 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**

Model No. SM777 Mfg. No. 6991-01Q
Price/Each \$70.70

ALLEGRO INDUSTRIES



LEATHER KNEE PADS

- Tough abrasion-resistant leather for maximum protection and soft cushion back for comfort
- Elastic straps with velcro closures ensure a secure fit resistant to heat and fire
- Ideal for welders or any construction application such as concrete work
- **Sold per pair**

Model No. SAL218 Mfg. No. 6991
Price/Each \$39.20

ALLEGRO INDUSTRIES



SEE PAGES 532 - 555
FOR OUR FULL CLOTHING LINE

WELDING CLOTHING



STANDARD WELDING KITS

- Kit comes with complete gear bag
- **Kit Includes:**
 - Carbon steel scratch brush, long handle, 3 x 19
 - Chipping hammer, cone and chisel head with spring steel handle
 - MIG pliers, 8-way with nickel-plated finish
 - Flat soapstone holder with soapstone
 - C-clamp locking pliers with swivel pads
 - Locking welding clamps
 - Flip front shade 5 goggles, 2" x 4 1/4"
 - Safety glasses, meets or exceeds CSA Z94.3 standard
 - Cotton welders' beanie, one size fits all
 - Welders' gloves, split cowhide leather with full thermal cotton lining
 - Golden brown leather jacket
 - Welding helmet, flip front shade 10



Model No.	Jacket Size	Price /Each
TTV186	Medium	222.00
TTV187	Large	222.00
TTV188	X-Large	222.00
TTV189	2X-Large	231.00
TTV190	3X-Large	240.00

PREMIUM WELDING KITS

- Kit comes with complete gear bag
- **Kit Includes:**
 - Carbon steel scratch brush, long handle, 3 x 19
 - Chipping hammer, cone and chisel head with spring steel handle
 - MIG pliers, 8-way with nickel-plated finish
 - Flat soapstone holder with soapstone
 - C-clamp locking pliers with swivel pads
 - Locking welding clamps
 - Flip front shade 5 goggles, 2" x 4 1/4"
 - Safety glasses, meets or exceeds CSA Z94.3 standard
 - Cotton welders' beanie, one size fits all
 - Welders' gloves, top split cowhide leather with full thermal cotton lining
 - Proban jacket with leather sleeves
 - Welding helmet, variable ADF shade 9-13



Model No.	Jacket Size	Price /Each
TTV191	Medium	284.00
TTV192	Large	284.00
TTV193	X-Large	284.00
TTV194	2X-Large	290.00
TTV195	3X-Large	297.00

ULTIMATE WELDING KITS

- Kit comes with complete gear bag
- **Kit Includes:**
 - Carbon steel scratch brush, long handle, 3 x 19
 - Chipping hammer, cone and chisel head with spring steel handle
 - MIG pliers, 8-way with nickel-plated finish
 - Flat soapstone holder with soapstone
 - C-clamp locking pliers with swivel pads
 - Locking welding clamps
 - Flip front shade 5 goggles, 2" x 4 1/4"
 - Safety glasses, meets or exceeds CSA Z94.3 standard
 - Cotton welders' beanie, one size fits all
 - Welders' gloves, premium split cowhide leather with full thermal cotton lining
 - Lava brown leather jacket
 - Welding helmet, variable ADF solar-powered shade 9-13 with sensitivity and delay adjustments



Model No.	Jacket Size	Price /Each
TTV196	Medium	413.00
TTV197	Large	413.00
TTV198	X-Large	413.00
TTV199	2X-Large	428.00
TTV200	3X-Large	442.00

FLEX WELDING GRADE ERGONOMIC CHAIRS

- Ergonomic chair that reduces pressure sensations felt in the buttocks, wrists and lumbar region
- Reduces fatigue by limiting muscular effort
- Five 3" caster wheels adaptable to all surfaces
- Flame retardant natural cow suede
- Dual-density cushions and closed-cell foam padding
- Backrest: 12" W x 15.5" H
- Seat: 15" L x 18" W
- Standard Pneumatic Lift: 16" to 21"
- Colour: Black
- Material: Suede
- Weight Capacity: 300 lbs.
- Overall Dimensions: 19" L x 27" W x 21" H

Model No. OP275
Price/Each \$645.00



SYNETIK
design

STAG4 WELDING GRADE ERGONOMIC BENCHES

- Ergonomic seat allows users to work in a kneeling position with comfort
- Reduces pressure sensations felt in the knees, ankles and lumbar region
- One lever mechanism for seat height adjustment and 20° adjustable slope for kneeling position
- Padding: Dual-density cushions and closed-cell foam
- Upholstery: Flame retardant natural cow suede
- Standard pneumatic lift: 16" to 21"
- Dimensions of knee rest: 8.5" W x 15.5" L
- Dimensions of seat: 12.5" W x 12" L
- Five 3" caster wheels that are adaptable to all surfaces
- Includes tool tray
- Colour: Black
- Material: Suede
- Weight Capacity: 300 lbs.
- Overall Dimensions: 20" L x 28" W x 21" H

Model No. OG348
Price/Each \$767.00



SYNETIK
design

ROD HOLDERS

- Double leather bottom and metal swivel clip
- 5-ply Kevlar® stitched with rivet reinforcement

Model No. NP519
Price/Each 9.60



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



NT549



TTU049



Priced per Spool

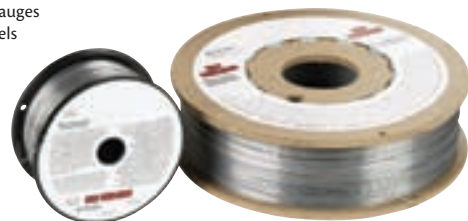
Model No.	Diameter	Spool Wt.	Spools Per Master Box	Price /Each
NT549	0.023"/0.6 mm	2 lbs./0.9 kg	18	6.50
NT550	0.030"/0.8 mm	2 lbs./0.9 kg	18	4.55
NT551	0.035"/0.9 mm	2 lbs./0.9 kg	18	4.40
NT552	0.045"/1.14 mm	2 lbs./0.9 kg	18	4.20
NT553	0.023"/0.6 mm	11 lbs./5 kg	4	28.95
NT554	0.030"/0.8 mm	11 lbs./5 kg	4	18.25
NT555	0.035"/0.9 mm	11 lbs./5 kg	4	17.75
NT556	0.023"/0.6 mm	33 lbs./15 kg	1	77.25
NT557	0.030"/0.8 mm	33 lbs./15 kg	1	48.50
NT560	0.035"/0.9 mm	44 lbs./20 kg	1	61.85
NT561	0.045"/1.14 mm	44 lbs./20 kg	1	57.95

Priced per Drum

Model No.	Diameter	Drum Weight	Qty Per Pallet	Price /Each
TTU049	0.035"/0.9 mm	550 lbs./250 kg	4	797.00
TTU519	0.045"/1.14 mm	550 lbs./250 kg	4	738.00

SELF-SHIELDING MILD STEEL 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

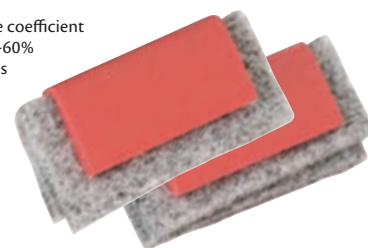


Priced per Spool

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price /Each
TTU700	E71TGS030X2SP	0.030	2	19.60
TTU701	E71TGS035X2SP	0.035	2	18.70
TTU702	E71TGS030X10SP	0.030	10	82.80
TTU703	E71TGS035X10SP	0.035	10	77.50
TTU704	E71TGS030X25SP	0.030	25	217.00
TTU705	E71TGS035X25SP	0.035	25	212.00
TTU706	E71TGS045X25SP	0.045	25	209.00

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



Priced per Package

Model No.	Qty/Pkg.	Price/Each
720-1000-KIT	6	9.31
720-1010-KIT	24	37.20

See pages 1094 - 1098 for
MIG Guns and Accessories



MILD STEEL STICK ELECTRODES

• Priced per 5-lb. tube

6010

- High cellulose coated electrode designed to provide a smooth stable arc forceful enough to achieve deep penetration into the base metal
- Produce a flat weld bead with coarse ripples and a thin easily removable slag
- May be used in the flat, horizontal, vertical or overhead welding positions

6011

- 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
- Operate on AC or DCEP

6013

- 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
- Ideally suited for general purpose welding, even with small AC power sources having low open-circuit voltage
- Operates on AC, DCEN or DCEP

7014

- An all position electrode for mild and low alloy steels
- Iron powder covering content yields a high deposition rate in all positions
- Particularly advantageous when poor fit-up exists
- Operates on AC, DCEN or DCEP

7018

- 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
- Operates on AC or DCEP



Model No.	Mfg. No.	Dia."	Wt. lbs.	Price /Each
6010				
TTU707	6010332E5	3/32	5	25.00
TTU708	601018E5	1/8	5	24.20
TTU709	6010532E5	5/32	5	24.20
6011				
TTU710	6011332E5	3/32	5	23.40
TTU711	601118E5	1/8	5	22.80
TTU712	6011532E5	5/32	5	22.60
6013				
TTU713	6013332E5	3/32	5	17.50
TTU714	601318E5	1/8	5	17.20
TTU715	6013532E5	5/32	5	17.00
7014				
TTU716	7014332E5	3/32	5	20.90
TTU717	701418E5	1/8	5	20.50
TTU718	7014532E5	5/32	5	20.30
7018				
TTU719	7018332E5	3/32	5	20.20
TTU720	701818E5	1/8	5	19.50
TTU721	7018532E5	5/32	5	19.30

Priced per Tube

36" MILD STEEL CUT LENGTH TIG RODS

• Priced per 10-lb. tube

ER70S-2

This premium quality TIG rod gives welds of the highest quality, even on rust or dirty surfaces due to the deoxidising agents in the wire.

- Can also be used for pipe, plate, and sheet applications where structural integrity is a primary consideration
- AWS A5.18-79

R45

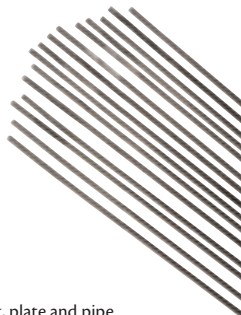
General purpose mild steel rod for TIG or gas welding.

- 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

R60

Recommended for gas or TIG welding plate, sheet, pipe, castings, or structural shapes.

- Produces welds of a higher tensile strength than R45
- AWS A5.2-80



Priced per Tube

Model No.	Mfg. No.	Dia."	Wt. lbs	Price /Each
ER70S-2				
TTU722	E70S2035X36T	0.035	10	69.50
TTU723	E70S2045X36T	0.045	10	62.80
TTU724	E70S2116X36T	1/16	10	61.50
TTU725	E70S2332X36T	3/32	10	59.70
TTU726	E70S218X36T	1/8	10	59.30
TTU727	E70S2532X36T	5/32	10	58.90
R45				
TTU728	R45116X36T	1/16	10	36.00
TTU729	R45332X36T	3/32	10	35.00
TTU730	R4518X36T	1/8	10	34.30
TTU731	R45532X36T	5/32	10	34.10
TTU732	R45316X36T	3/16	10	34.10
R60				
TTU733	R60116X36T	1/16	10	46.40
TTU734	R60332X36T	3/32	10	45.00
TTU735	R6018X36T	1/8	10	44.30
TTU736	R60532X36T	5/32	10	44.10
TTU737	R60316X36T	3/16	10	44.10

MILD STEEL STICK ELECTRODES – CWB APPROVED

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 +/-

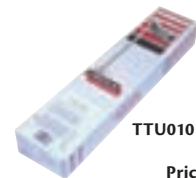


Priced per Tube

Model No.	Mfg. No.	Diameter"	Wt. kg	Price/Each
TTU006	EDS11006	3/32	4 (8.8 lbs.)	41.20
TTU007	EDS11007	1/8	5 (11 lbs.)	42.50
TTU008	EDS11008	5/32	5 (11 lbs.)	41.50

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
- Ideal for jobs involving irregular or short welds that require a change in positions
- AC DC +/-



Priced per Tube

Model No.	Mfg. No.	Diameter"	Wt. kg	Price/Each
TTU009	EDS11213	3/32	4 (8.8 lbs.)	42.10
TTU010	EDS11011	1/8	5 (11 lbs.)	42.60
TTU011	EDS11012	5/32	5 (11 lbs.)	40.60

FLEETWELD® 47 - E7014

- Fill freeze, high speed, and mild stick electrodes
- Features high deposition rates for fast performance
- Ideal for sheet metal lap joints and fillet welds, general purpose plate welding and maintenance jobs
- AC DC +/-

Priced per Tube

Model No.	Mfg. No.	Diameter"	Wt. kg	Price/Each
TTU012	EDS11016	3/32	4 (8.8 lbs.)	42.00
TTU013	EDS11017	1/8	5 (11 lbs.)	42.60
TTU014	EDS11018	5/32	5 (11 lbs.)	40.20

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
- DC+ AC

Priced per Tube

Model No.	Mfg. No.	Diameter"	Wt. kg	Price/Each
TTU015	EDS11041	3/32	4 (8.8 lbs.)	38.80
TTU016	EDS11042	1/8	5 (11 lbs.)	40.10
TTU017	EDS11043	5/32	5 (11 lbs.)	38.90

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



Priced per Spool

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price/Each
ER308L SPOOLED WIRE				
TTU760	308L025X2SP	0.025	2	32.40
TTU751	308L025X10SP	0.025	10	147.00
TTU738	308L025X25SP	0.025	25	289.00
TTU761	308L030X2SP	0.030	2	29.20
TTU752	308L030X10SP	0.030	10	133.00
TTU739	308L030X25SP	0.030	25	270.00
TTU762	308L035X2SP	0.035	2	27.30
TTU753	308L035X10SP	0.035	10	126.00
TTU740	308L035X25SP	0.035	25	263.00
TTU741	308L045X25SP	0.045	25	258.00
TTU742	308L116X25SP	1/16	25	255.00
ER309L SPOOLED WIRE				
TTU754	309L025X10SP	0.025	10	175.00
TTU763	309L030X2SP	0.030	2	34.50
TTU755	309L030X10SP	0.030	10	161.00
TTU743	309L030X25SP	0.030	25	335.00
TTU764	309L035X2SP	0.035	2	32.70
TTU756	309L035X10SP	0.035	10	153.00
TTU744	309L035X25SP	0.035	25	327.00
TTU745	309L045X25SP	0.045	25	320.00
TTU746	309L116X25SP	1/16	25	318.00
ER316L SPOOLED WIRE				
TTU765	316L025X2SP	0.025	2	38.60
TTU757	316L025X10SP	0.025	10	179.00
TTU766	316L030X2SP	0.030	2	35.10
TTU758	316L030X10SP	0.030	10	164.00
TTU747	316L030X25SP	0.030	25	341.00
TTU767	316L035X2SP	0.035	2	33.30
TTU759	316L035X10SP	0.035	10	155.00
TTU748	316L035X25SP	0.035	25	334.00
TTU749	316L045X25SP	0.045	25	328.00
TTU750	316L116X25SP	1/16	25	324.00

36" STAINLESS STEEL CUT LENGTH TIG RODS

- **308L** - For joining 304 and 304L and other 18-8 stainless steels
- **309L** - For 309 stainless steels and joining carbon steels or low alloy steels to stainless steels
- **316L** - For joining 316L stainless steels
- Priced per 10-lb. tube



Priced per Tube

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price/Each
308L				
TTU768	308L030X36T	0.030	10	141.00
TTU769	308L035X36T	0.035	10	134.00
TTU770	308L045X36T	0.045	10	126.00
TTU771	308L116X36T	1/16	10	103.00
TTU772	308L332X36T	3/32	10	96.50
TTU773	308L18X36T	1/8	10	93.80
TTU774	308L532X36T	5/32	10	93.80
TTU775	308L316X36T	3/16	10	93.80
309L				
TTU776	309L035X36T	0.035	10	160.00
TTU777	309L045X36T	0.045	10	151.00
TTU778	309L116X36T	1/16	10	128.00
TTU779	309L332X36T	3/32	10	122.00
TTU780	309L18X36T	1/8	10	119.00
TTU781	309L532X36T	5/32	10	119.00
316L				
TTU782	316L030X36T	0.030	10	168.00
TTU783	316L035X36T	0.035	10	162.00
TTU784	316L045X36T	0.045	10	153.00
TTU785	316L116X36T	1/16	10	130.00
TTU786	316L332X36T	3/32	10	124.00
TTU787	316L18X36T	1/8	10	121.00
TTU788	316L532X36T	5/32	10	121.00
TTU789	316L316X36T	3/16	10	121.00

STAINLESS STEEL GAS SHIELD FLUX-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.

308LT1-1

Most frequently used for base metals of similar composition such as AISI Types 301, 302, 304, 305 and 308.

309LT1-1

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.

316LT1-1

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).



TTU790



TTU793



TTU796

Priced per Spool

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price /Each
308LT1-1				
TTU790	308LT11035X25SP	0.035	25	692.00
TTU791	308LT11045X25SP	0.045	25	512.00
TTU792	308LT11116X25SP	1/16	25	494.00
309LT1-1				
TTU793	309LT11035X25SP	0.035	25	721.00
TTU794	309LT11045X25SP	0.045	25	561.00
TTU795	309LT11116X25SP	1/16	25	537.00
316LT1-1				
TTU796	316LT11035X25SP	0.035	25	736.00
TTU797	316LT11045X25SP	0.045	25	566.00
TTU798	316LT11116X25SP	1/16	25	542.00

STAINLESS STEEL ELECTRODES



- Exactly manufactured to conform to the requirements of AWS5.4
- Priced per 5 or 10-lb. tube



Priced per Tube

Model No.	Mfg. No.	Dia." x Length"	Wt. lbs.	Price /Each
308L-16				
TTU799	308L16116E	1/16 x 10	5	87.00
TTU800	308L16332E	3/32 x 12	10	110.00
TTU801	308L1618E	1/8 x 14	10	108.00
TTU802	308L16532E	5/32 x 14	10	108.00
TTU803	308L16316E	3/16 x 14	10	108.00
309L-16				
TTU804	309L16332E	3/32 x 12	10	133.00
TTU805	309L1618E	1/8 x 14	10	131.00
TTU806	309L16532E	5/32 x 14	10	131.00
TTU807	309L16316E	3/16 x 14	10	131.00
316L-16				
TTU808	316L16332E	3/32 x 12	10	134.00
TTU809	316L1618E	1/8 x 14	10	132.00
TTU810	316L16532E	5/32 x 14	10	132.00
TTU811	316L16316E	3/16 x 14	10	132.00

ALLOYS

DEOXIDIZED COPPER WELDING WIRE

- Recommended for welding applications where joints of high copper content are involved
- Deoxidized copper contains phosphorus and silicon as de-oxidizing agents which promote sound weld joints
- 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



Priced per Spool

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price/Each
TTU812	D0C035X30SP	0.035	30	609.00
TTU813	D0C045X30SP	0.045	30	605.00
TTU814	D0C116X30SP	1/16	30	603.00
TTU815	D0C332X30SP	3/32	30	603.00

36" CUT LENGTH				
Priced per Tube				
TTU827	D0C116X36T	1/16	10	199.00
TTU828	D0C332X36T	3/32	10	198.00
TTU829	D0C18X36T	1/8	10	198.00
TTU830	D0C316X36T	3/16	10	198.00

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



Priced per Spool

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price/Each
TTU824	S1B030X2SP	0.030	2	43.80
TTU825	S1B035X2SP	0.035	2	43.40
TTU826	S1B045X2SP	0.045	2	43.40
TTU820	S1B025X10SP	0.025	10	224.00
TTU821	S1B030X10SP	0.030	10	215.00
TTU822	S1B035X10SP	0.035	10	213.00
TTU823	S1B045X10SP	0.045	10	210.00
TTU816	S1B030X30SP	0.030	30	627.00
TTU817	S1B035X30SP	0.035	30	617.00
TTU818	S1B045X30SP	0.045	30	609.00
TTU819	S1B116X30SP	1/16	30	605.00

36" CUT LENGTH				
Priced per Tube				
TTU831	S1B035X36T	0.035	10	226.00
TTU832	S1B045X36T	0.045	10	222.00
TTU833	S1B116X36T	1/16	10	203.00
TTU834	S1B332X36T	3/32	10	199.00
TTU835	S1B18X36T	1/8	10	199.00
TTU836	S1B532X36T	5/32	10	199.00
TTU837	S1B316X36T	3/16	10	199.00
TTU838	S1B14X36T	1/4	10	199.00

36" BARE NICKEL SILVER CUT LENGTH TIG RODS

- Recommended for applications requiring higher mechanical properties and situations where good colour match is important
- Primarily intended for braze welding steel and cast iron
- Melting point of 1680°F (916°C)
- RBCuZn-D
- Priced per 10-lb. tube



Priced per Tube

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price/Each
TTU851	NS116X36T	1/16	10	209.00
TTU852	NS332X36T	3/32	10	192.00
TTU853	NS18X36T	1/8	10	189.00
TTU854	NS316X36T	3/16	10	187.00
TTU855	NS14X36T	1/4	10	187.00

36" LOW FUMING BRONZE CUT LENGTH TIG RODS



- Fuming qualities and good mechanical properties makes it a widely used general purpose rod
- Provides higher mechanical properties than obtainable with naval bronze
- Used extensively for braze welding steel and cast iron
- Melting point of 1620°F (882°C)
- RBCuZn-C
- Priced per 10-lb. tube



Priced per Tube

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price/Each
BARE				
TTU839	LFB116X36T	1/16	10	150.00
TTU840	LFB332X36T	3/32	10	148.00
TTU841	LFB18X36T	1/8	10	146.00
TTU842	LFB532X36T	5/32	10	144.00
TTU843	LFB316X36T	3/16	10	144.00
TTU844	LFB14X36T	1/4	10	144.00
TTU845	LFB516X36T	5/16	10	144.00
TTU846	LFB38X36T	3/8	10	144.00
FLUX-COATED				
TTU847	LFBC332X36T	3/32	10	148.00
TTU848	LFBC18X36T	1/8	10	146.00
TTU849	LFBC532X36T	5/32	10	145.00
TTU850	LFBC316X36T	3/16	10	145.00

4043 & 5356 ALUMINUM WELDING WIRE

- Cleanliness, density and temper of wires are precisely controlled
- Each container has an identification label showing grade, size, weight and heat number
- Conform to AWS A5.10 classification, CWB and ABS approvals



4043

- 5% silicon all position aluminum weld wire used to weld heat treatable alloys such as the 6XXX base metals and cast alloys
- Found in many common welding applications such as bicycles, trucks, trailers and automotive parts and equipment
- Silicon with these alloys give improved wetting action yielding a less crack sensitive bright weld bead



5356

- 5% magnesium all position non-heat treatable wire used to weld the 5XXX series alloys
- Common welding applications such as boats, ships, bicycles, trucks, pressure vessels and automotive parts and equipment

Priced per Spool

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price/Each
4043				
TTU956	40430301SP	0.030	1	9.92
TTU957	40430351SP	0.035	1	9.13
TTU958	40433641SP	3/64	1	8.71
TTU959	40430305SP	0.030	5	49.60
TTU960	40430355SP	0.035	5	45.60
TTU961	404303016SP	0.030	16	147.00
TTU962	404303516SP	0.035	16	133.00
TTU963	404336416SP	3/64	16	124.00
TTU964	404311616SP	1/16	16	122.00
5356				
TTU965	53560301SP	0.030	1	10.10
TTU966	53560351SP	0.035	1	9.27
TTU967	53563641SP	3/64	1	8.85
TTU968	53560305SP	0.030	5	50.30
TTU969	53560355SP	0.035	5	46.30
TTV020	53563645SP	3/64	5	44.30
TTU970	535603016SP	0.030	16	149.00
TTU971	535603516SP	0.035	16	135.00
TTU972	535636416SP	3/64	16	126.00
TTU973	535611616SP	1/16	16	124.00

36" CUT LENGTH

Priced per Package

4043				
TTU974	404311636T	1/16	10	79.80
TTU975	404333236T	3/32	10	73.40
TTU976	40431836T	1/8	10	72.10
TTU977	404353236T	5/32	10	72.10
TTU978	404331636T	3/16	10	72.10
5356				
TTU979	535611636T	1/16	10	81.30
TTU980	535633236T	3/32	10	74.60
TTU981	53561836T	1/8	10	72.60
TTU982	535653236T	5/32	10	72.60
TTU983	535631636T	3/16	10	72.60

ALUMINUM 340 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
- **Priced per 5-lb. tube (5 - 1-lb. bags)**



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.

Priced per Tube

Model No.	Mfg. No.	Dimensions			Wt. lbs.	Price /Each
		Dia."	x	Length"		
TTU856	ALSMOOTH340332E	3/32	x	14	5	150.00
TTU857	ALSMOOTH34018E	1/8	x	14	5	137.00
TTU858	ALSMOOTH340532E	5/32	x	14	5	137.00

NICKEL 55 ELECTRODES

- 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
- **Priced per 10-lb. tube**

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.



Priced per Tube

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price /Each
TTU862	NI55332E	3/32	10	282.00
TTU863	NI5518E	1/8	10	282.00
TTU864	NI5532E	5/32	10	282.00
TTU865	NI55316E	3/16	10	282.00

HIGH SILVER BRAZING ALLOYS

Weldcote 45CF - General purpose silver brazing alloy with a wide melting range and widely used in many brazing operations. Commonly used to join any combinations of copper, brass, steel and bronze. Colour is yellow white to light gold.

Chemical Composition (Wt. percent):

Silver	44.0 – 46.0
Copper	29.0 – 31.0
Zinc	23.0 – 27.0
Other Elements	0.15

Weldcote 56CF - Cadmium free silver brazing alloy with a narrow melting range and the lowest working temperature in the cad-free family yielding premium flow, wetting, ductility, penetration. Commonly used to join any combinations of copper, brass, steel, bronze and stainless steel. Great choice for food handling equipment and color match on stainless and nickel alloys while minimizing stress corrosion cracking. Colour is white to light gold.

Chemical Composition (Wt. percent):

Silver	55.0 – 57.0
Copper	21.0 – 23.0
Zinc	15.0 – 19.0
Tin	4.5 – 5.5
Other Elements	0.15



WELDCOTE 45CF

Model No.	Mfg. No.	Description	Specifications	Solidus	Liquidus	Brazing Range	Price /Each
TTU870	45CF132X1T0C	1/32" x 1 T.O.	AWS A5.8	1225°F	1370°F	1370-1550°F	P.O.A.
TTU871	45CF132X5T0C	1/32" x 5 T.O.	Bag-5	663°C	743°C	743-843°C	P.O.A.
TTU872	45CF364X1T0C	3/64" x 1 T.O.					P.O.A.
TTU873	45CF116X1T0C	1/16" x 1 T.O.					P.O.A.
TTU874	45CF116X5T0C	1/16" x 5 T.O.					P.O.A.
TTU875	45CF332X1T0C	3/32" x 1 T.O.					P.O.A.
TTU876	45CF332X5T0C	3/32" x 5 T.O.					P.O.A.
TTU877	45FCF116X18L4	Flux-Coated 1/16" x 18" x 4 oz. Tube					P.O.A.
TTU878	45FCF332X18L4	Flux-Coated 3/32" x 18" x 4 oz. Tube					P.O.A.

SUPER 120 ELECTRODES

- Ultimate electrodes for welding steel 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"
- **Priced per 5 or 10-lb. tube**

Applications: Particularly advantageous when the alloy content of the steel to be welded is unknown.



Priced per Tube

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price /Each
TTU859	SUPER120332E	3/32	5	154.00
TTU860	SUPER12018E	1/8	10	267.00
TTU861	SUPER120532E	5/32	10	267.00

NICKEL 99 ELECTRODES

- A general purpose, high nickel electrode for production and repair of cast iron (AWS A5.15, ENiCl)
- Tensile strength – up to 50 000 PSI
- **Priced per 10-lb. tube**

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.



Priced per Tube

Model No.	Mfg. No.	Dia."	Wt. lbs.	Price /Each
TTU866	NI99332E	3/32	10	384.00
TTU867	NI9918E	1/8	10	384.00
TTU868	NI9932E	5/32	10	384.00
TTU869	NI99316E	3/16	10	384.00

TTU870



TTU879



TTU878

WELDCOTE 56CF

Model No.	Mfg. No.	Description	Specifications	Solidus	Liquidus	Brazing Range	Price /Each
TTU879	56CF132X1T0C	1/32" x 1 T.O.	AWS A5.8	1145°F	1205°F	1205-14006°F	P.O.A.
TTU880	56CF132X5T0C	1/32" x 5 T.O.	Bag-7	618°C	652°C	652-760°C	P.O.A.
TTU881	56CF364X1T0C	3/64" x 1 T.O.					P.O.A.
TTU882	56CF116X1T0C	1/16" x 1 T.O.					P.O.A.
TTU883	56CF116X5T0C	1/16" x 5 T.O.					P.O.A.
TTU884	56CF332X1T0C	3/32" x 1 T.O.					P.O.A.
TTU885	56CF332X5T0C	3/32" x 5 T.O.					P.O.A.
TTU886	56FCF116X18L4	Flux-Coated 1/16" x 18" x 4 oz. Tube					P.O.A.
TTU887	56FCF332X18L4	Flux-Coated 3/32" x 18" x 4 oz. Tube					P.O.A.

ALLOYS

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 soldering materials with poor solderability, stainless steel application
- **Rosin Core:** For electrical application
- **Tin/Antimony 95/5:** Useful for applications where moderately elevated temperatures is a factor. It has a high electrical conductivity and high fluidity, recommended where lead contamination must be avoided; not recommended for use on brass or HVAC connections

CAUTION: Lead-bearing solders are not to be used in potable water systems

Priced per Spool

Model No.	Mfg. No.	Description	Specifications	Solidus	Liquidus	Price /Each
40% TIN/60% LEAD SOLID						
TTU888	4060116X1SP	1/16" x 1# Spool	ASTM-B32, Sn-40A	362°F	460°F	39.30
TTU889	4060332X1SP	3/32" x 1# Spool		183°C	238°C	37.10
TTU890	406018X1SP	1/8" x 1# Spool				35.70
50% TIN/50% LEAD SOLID						
TTU891	5050116X1SP	1/16" x 1# Spool	ASTM-B32, Sn-50	362°F	420°F	45.80
TTU892	5050332X1SP	3/32" x 1# Spool		183°C	215°C	43.20
TTU893	505018X1SP	1/8" x 1# Spool				41.80
50% TIN/50% LEAD ACID CORE						
TTU894	5050AC116X1SP	1/16" x 1# Spool	ASTM-B32, Sn-50	362°F	420°F	46.10
TTU895	5050AC332X1SP	3/32" x 1# Spool		183°C	215°C	43.90
TTU896	5050AC18X1SP	1/8" x 1# Spool				41.80
TTU897	5050AC18X5SP	1/8" x 5# Spool				208.00



TTU891

weldcote
metals

Priced per Spool

Model No.	Mfg. No.	Description	Specifications	Solidus	Liquidus	Price /Each
50% TIN/50% LEAD ROSIN CORE						
TTU898	5050RC116X1SP	1/16" x 1# Spool	ASTM-B32, Sn-50	362°F	420°F	46.10
TTU899	5050RC332X1SP	3/32" x 1# Spool		183°C	215°C	43.90
TTU900	5050RC18X1SP	1/8" x 1# Spool				41.80
TTU901	5050RC18X5SP	1/8" x 5# Spool				208.00
95% TIN/5% ANTIMONY SOLID						
TTU902	955116X1SP	1/16" x 1# Spool	ASTM-B32, Sb-5	450°F	464°F	75.30
TTU903	955332X1SP	3/32" x 1# Spool		232°C	240°C	73.00
TTU904	95518X1SP	1/8" x 1# Spool				71.00

36" CUT LENGTH TIG RODS – POINT OF PURCHASE PACKAGED ALLOYS

- Convenient small package is ideal for maintenance and repair job
- MSDS are packaged in each tube
- 1-lb. tube



TTU932

weldcote
metals

Priced per Tube

Model No.	Mfg. No.	Diameter"	Wt. lbs.	Price /Each
308L – STAINLESS STEEL				
TTU921	308L116X36T1P	1/16	1	15.20
TTU922	308L332X36T1P	3/32	1	14.60
TTU923	308L18X36T1P	1/8	1	14.40
309L – STAINLESS STEEL				
TTU924	309L116X36T1P	1/16	1	17.70
TTU925	309L332X36T1P	3/32	1	17.10
TTU926	309L18X36T1P	1/8	1	16.90
316L – STAINLESS STEEL				
TTU927	316L116X36T1P	1/16	1	18.00
TTU928	316L332X36T1P	3/32	1	17.30
TTU929	316L18X36T1P	1/8	1	17.10
4043 – ALUMINUM				
TTU930	4043116X36T1P	1/16	1	15.60
TTU931	4043332X36T1P	3/32	1	14.80
TTU932	404318X36T1P	1/8	1	14.60
5356 – ALUMINUM				
TTU933	5356116X36T1P	1/16	1	15.80
TTU934	5356332X36T1P	3/32	1	14.90
TTU935	535618X36T1P	1/8	1	14.80
ER70S-2 – TRIPLE DEOXIDIZED STEEL				
TTU936	ER70S2116X36T1P	1/16	1	11.10
TTU937	ER70S2332X36T1P	3/32	1	10.90
TTU938	ER70S218X36T1P	1/8	1	10.90



TTU922



TTU938



TTU949

Priced per Tube

Model No.	Mfg. No.	Diameter"	Wt. lbs.	Price /Each
LOW FUMING BRONZE - BARE				
TTU942	LF8116X36T1P	1/16	1	19.90
TTU943	LF8332X36T1P	3/32	1	19.70
TTU944	LF818X36T1P	1/8	1	19.50
LOW FUMING BRONZE – FLUX-COATED				
TTU945	LF8FC332X36T1P	3/32	1	19.70
TTU946	LF8FC18X36T1P	1/8	1	19.50
R45 – MILD STEEL				
TTU947	R45116X36T1P	1/16	1	8.57
TTU948	R45332X36T1P	3/32	1	8.47
TTU949	R4518X36T1P	1/8	1	8.41
R60 – HIGH TENSILE MILD STEEL				
TTU950	R60116X36T1P	1/16	1	9.62
TTU951	R60332X36T1P	3/32	1	9.46
TTU952	R6018X36T1P	1/8	1	9.41
SIB – SILICON BRONZE				
TTU953	SIB116X36T1P	1/16	1	25.30
TTU954	SIB332X36T1P	3/32	1	25.10
TTU955	SIB18X36T1P	1/8	1	25.10

WHITE PASTE BRAZING FLUX

- For use with silver brazing alloys on all metal other than aluminum, magnesium or titanium
- Effective to 1600°F
- Meets AMS 3410, AWS A5.31-92, Type FB3A, Fed Spec. 0-F-499, Type B



Model No.	Mfg. No.	Size	Price /Each
TTU906	WPFLUX14JAR	1/4 lb.	9.03
TTU907	WPFLUX12JAR	1/2 lb.	11.30
TTU908	WPFLUX1JAR	1 lb.	13.50
TTU909*	WPFLUX6OZ	6 oz.	10.70
TTU910	WPFLUX5JAR	5 lb.	60.50

*Comes with brush cap



TTU908

GENERAL PURPOSE LIQUID SOLDERING FLUX

- Water-based, inorganic-acid flux formulated for virtually all metals other than aluminum, magnesium or titanium
- Contains Zinc Chloride, Ammonium Chloride, and Hydrochloric Acid, makes this flux active at room temperature where it begins to clean metals and remove oxides
- Pre-cleaning is not necessary under most conditions



Model No.	Mfg. No.	Size	Price /Each
TTU915	LIQUIDFLUX4OZ	4 oz.	9.46
TTU916	LIQUIDFLUX16OZ	16 oz.	18.20
TTU917	LIQUIDFLUX1GL	1 Gallon	73.40



TTU915

BLACK PASTE BRAZING FLUX

- 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. 0-F-499D, Type B



Model No.	Mfg. No.	Size	Price /Each
TTU911	BPFLUX12JAR	1/2 lb.	14.60
TTU912	BPFLUX1JAR	1 lb.	17.60
TTU913	BPFLUX5JAR	5 lb.	82.20



TTU911

GENERAL PURPOSE PASTE SOLDERING FLUX

- Excellent flux for joining copper to copper, and copper to brass
- Not recommended for electrical or electronic applications
- Effective to 700°F
- Meets Fed. Spec. 0-F 506C, Type 1, Form A and MIL-S-6872A



Model No.	Mfg. No.	Size	Price /Each
TTU918	PASTEFLUX4OZ	4 oz.	8.94
TTU919	PASTEFLUX16OZ	16 oz.	13.10



TTU919

WHITE ANTIBORAX 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
- Meets MIL-F-16136B, Types A and B, AWS 5.31-91, Type FB3J



Model No.	Mfg. No.	Size	Price /Each
TTU914	WPWDFLUX1JAR	1 lb.	14.40



TTU914

CAST IRON FLUX

- 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



Model No.	Mfg. No.	Size	Price /Each
TTU920	CASTIRONFLUX1JR	1 lb.	22.70



TTU920

ACID/FLUX BRUSHES

- Perfect brushes for applying liquid or paste flux



Model No.	Mfg. No.	Width"	Trim Length"	Overall Length"	Price /Each
BY189	74059	1/4	11/16	6	0.19
BY190	74060	3/8	7/8	6 1/8	0.19
BY191	74061	7/16	7/8	6 1/8	0.19
BY192	74062	9/16	7/8	6 1/8	0.24

AL-BRAZE E.C. ALUMINUM BRAZING FLUX

- 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 A5.31 Type FB1A



Model No.	Mfg. No.	Size	Price /Each
841-1137	ECDF1/2	8 oz.	14.10



METAL WORKING MARKERS

VALVE ACTION® PAINT MARKERS



- Fast drying, lead-free paint marker, ideal for all surfaces
- Weather and fade resistant
- Replaceable fibre tip ensures full use of the marker
- Marking range -50° to 150°F
- Also available in fluorescent colours



Priced per Marker

Model No.	Colour	Price /Each
PA418	White	4.39
PA419	Yellow	4.39
PA420	Red	4.39
PA421	Blue	4.39
PA422	Green	4.39
PA431	Black	4.39
PA424	Replacement Tips (Pkg. of 12)	8.91

PRO-LINE® FINE LINE MARKERS



- High strength, lightweight barrel for industrial use
- Ideal for metal, suitable for wood, glass, plastic and rubber
- Xylene-free
- Self-storing cap with integrated pocket clip
- Ergonomic design for comfortable extended use



Priced per Marker

Model No.	Colour	Price /Each
PC461	White	4.88
PC462	Yellow	4.88
PC463	Black	4.88

THERMOMELT® HEAT STIK TEMPERATURE INDICATORS

ACCURATE SURFACE TEMPERATURE MEASUREMENT STICKS

- Industry's longest lasting 5" 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
- Meets ANSI/ASME guidelines



Priced per Heat Stik

Model No.	Mfg. No.	Temperature °F/°C	Price /Each
HK860	86517	200/93	18.50
434-7260	86562	250/121	18.50
HK887	86625	300/149	18.50
434-7410	86697	350/177	18.50

SOLID PAINT MARKERS FOR COLD SURFACES

B® PAINTSTIK®
The Original ALL Purpose Cold Surface Marker -50° to 150°F



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, icy and rusty surfaces.

Priced per Paintstik

Model No.	Colour	Price /Each
PA298	White	1.66
PA309	Yellow	1.71
PA320	Black	1.77

B-L® BLUE PAINTSTIK® -50° TO 150°F

Makes permanent marks that bleed through painted surfaces. Available in blue only. 12 dozen/case.

Priced per Paintstik

Model No.	Colour	Price /Each
PA356	Blue	5.85

PRO-LINE® HP PAINT MARKERS



- High performance paint marker has unsurpassed writing capabilities on oily, soapy and wet surfaces
- Excellent on most metals, coatings, plastics, glass, ceramics and other non-porous materials
- Low in halogenated compounds and sulphur allowing use in stainless steel and other corrosion sensitive applications



Priced per Marker

Model No.	Colour	Price /Each
PE507	White	4.39
PE508	Yellow	4.39
PE509	Red	4.39
PE510	Black	4.39

BALL PAINT MARKER®

-50° TO 150°F

Produce 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.



Priced per Bottle

Model No.	Colour	Price /Each
PA339	White	9.36
PA340	Yellow	9.36

QUIK STIK™ TWIST-UP PAINT MARKERS

- All purpose paint marker for marking metal, wood, glass, plastic, cardboard and more
- Fast drying paint is fade and weather resistant
- 20% more marks than other brands
- Easy-to-use twist-up holder with self-storing cap keeps hands and clothing clean
- Available in four bright colours: White, yellow, red and black
- 72 per case



Priced per Marker

Model No.	Colour	Price /Each
PB937	White	8.75
PB938	Yellow	8.75
PB939	Red	8.75
PB940	Black	8.75

LUMBER CRAYONS

-50° TO 150°F

- Weather and fade-resistant lead-free marking
- Use on cardboard, ceramics, concrete, lumber (rough or smooth), metal, plastics, rubber, shipping room, storage containers



Priced per Crayon

Model No.	Colour	Price /Each
ECONOMICAL WAX BASED #200		
PA371	Black	1.44
PA367	White	1.44
PA368	Yellow	1.44

TRADES-MARKER® ALL PURPOSE MARKERS

RETRACTABLE GREASE PENCILS 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 five assorted colour refills
- Refills come six per package
- Two dozen per case



Priced per Marker

Model No.	Mfg. No.	Colour	Price/Each
HOLDER W/S REFILLS			
434-8980	96000	-	13.30
REFILLS, 6/PKG.			
434-9915	96009	Orange	7.59
434-8985	96042	White	7.59
434-9910	96043	Yellow	7.59
434-8995	96044	Black	7.59
434-9920	96045	Red	7.59

See pages 1443-1445 for full line of markers

METAL WORKING FLUIDS & EQUIPMENT

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° SPRAYERS

- Hand sprayer with 36" lead tube for gallon container



388-1165

388-1170

388-1175

Model No.	Mfg. No.	Description	Size	Price /Each
TTT437	007088	Weld-Kleen® 350°	13.64-oz. Aerosol	13.50
388-1170	007089	Weld-Kleen® 350°	1 Quart	18.40
388-1175	007090	Weld-Kleen® 350°	1 Gallon	30.70
388-1185	007091	Weld-Kleen® 350°	5 Gallons	150.00
388-1180	007092	Weld-Kleen® 350°	55-Gallon Drum	1206.00
388-1165	007030	Weld-Kleen® H-D	20-oz. Aerosol	13.90
388-1155	007093	Sprayer for Weld-Kleen® 350°	--	8.51

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%



Model No.	Mfg. No.	Description	Size	Price /Each
388-1015	007040	Lube-Matic® Liquid	5 oz.	13.10
388-1010	007060	Lube-Matic® Lube Pads	6/Pkg.	16.40
388-1190	007061	Lube-Matic® Wire Kleener® Pads	6/Pkg.	14.80

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 or dip



388-1145

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

Model No.	Mfg. No.	Description	Size	Price /Each
388-1150	007022	Nozzle-Kleen® #2	16-oz. Aerosol	10.70
388-1145	007020	Nozzle-Kleen® H-D	16-oz. Aerosol	13.50

SOAPSTONE HOLDERS



- Durable marking tools for holding fragile marking materials like soapstone and chalk
- Soapstone features highly visible white marking stick cut from natural stone which adheres to metal, stone, concrete and fabrics
- Pocket clip
- Sold with one soapstone installed

ROUND HOLDERS

- Aluminum adjustable holder for 1/4" x 5" soapstone or chalk

FLAT HOLDERS

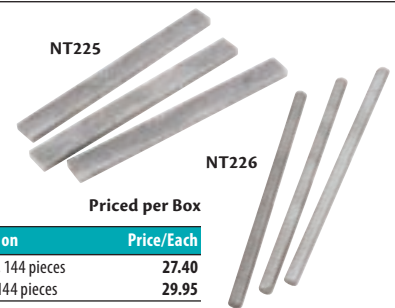
- Steel adjustable holder for 1/4" x 5" flat soapstone or chalk
- Locking nut soapstone length adjustment



Model No.	Description	Price/Each
NT638	Round Holder	3.45
NT639	Flat Holder	3.05

SOAPSTONES

- White soapstone
- Sold in box quantity of 144

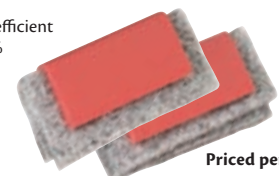


Model No.	Description	Price/Each
NT226	Round Soapstone, 144 pieces	27.40
NT225	Flat Soapstone, 144 pieces	29.95

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



Model No.	Qty/Pkg.	Price/Each
720-1000-KIT	6	9.31
720-1010-KIT	24	37.20

METAL WORKING FLUIDS & EQUIPMENT



DEFENSE ANTI-FREEZE & PUMP LUBRICANTS

- 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) except for pre-mixed formula, 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.

DYNAFLUX
QUALITY PRODUCTS

Model No.	Mfg. No.	Size	Price /Each
881-1355	DF927-PM	1 Gallon, Pre-Mixed	31.70
881-1350	DF929-4x1	1 Gallon	49.80
881-1365	DF929-5	5-Gallon Pail	235.00
881-1370	DF929-55	55-Gallon Drum	2085.00



881-1355



881-1350

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

DYNAFLUX
QUALITY PRODUCTS

Model No.	Mfg. No.	Description	Size	Price /Each
877-1125	DF309-16	Spray Galv	13-oz. Net Wt. Aerosol	12.30
877-1130	DF306-6x1	Cold Galv	1 Quart	109.00
877-1120	DF306-2x1	Cold Galv	1 Gallon	425.00



877-1120



877-1125

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

MAGNAFLUX®

SKL-SP2 PENETRANTS

- 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
- Should be used at temperatures between 40°F-125°F



SKK-S SOLVENT CLEANERS

- Non-chlorinated cleaner/remover
- Used as a pre-cleaner, a post cleaner and a penetrant remover
- Recommended general purpose
- Meets major requirements for special alloy and nuclear applications

Model No.	Mfg. No.	Size	Price /Each
NP703	01-5750-78	16-oz. Aerosol	19.40

SKD-S2 SOLVENT DEVELOPERS

- 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

Model No.	Mfg. No.	Size	Price /Each
NP702	01-5352-78	16-oz. Aerosol	23.50

ARDROX®

9D1B NON-AQUEOUS DEVELOPERS

- 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 PENETRANTS

- 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
- Used with non-aqueous developers or aqueous developers
- May be applied by aerosol, brushing, tank immersion, conventional, electrostatic or spraying

9PR50 CLEANERS/REMOVERS

- 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



874-1150

Model No.	Mfg. No.	Size	Price /Each
9D1B NON-AQUEOUS DEVELOPERS			
874-1150	9D1B-16	16-oz. Aerosol	33.10
906 PENETRANTS			
874-1080	906-16	16-oz. Aerosol	35.80
9PR50 CLEANERS/REMOVERS			
874-1180	9PR50-16	16-oz. Aerosol	28.00

METAL WORKING FLUIDS & EQUIPMENT

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



868-1000



Model No.	Mfg. No.	Description	Size	Price/Each
868-1000	SFB-1	Type B	1 lb	80.20

LIQUID GASFLUX®, TYPE "W"

- Liquid Gasflux® consists of a specially compounded liquid-type flux that is automatically introduced into the fuel gas
- Manufactured under rigid test requirements to guarantee its highest quality and performance
- Recommended for both manual and automatic brazing applications and works with all fuel gases
- Standard liquid flux for most all silver and bronze brazing
- Suitable with almost all applications for the brazing of copper, brass, steel, stainless steel, cast iron and carbide
- Conforms to AWS/ANSI A5.31, American Welding Society "Specification for Brazing Fluxes" and falls under flux type FB3-K



870-1092

Model No.	Mfg. No.	Size	Price /Each
870-1092	GF-1	1 Gallon	60.80
870-1096	GF-5	5-Gallon Pail	280.00
870-1100	GF-55	53-Gallon Drum	2718.00

ACID/FLUX BRUSHES

- Perfect brushes for applying liquid or paste flux



Model No.	Mfg. No.	Width"	Trim Length"	Overall Length"	Price /Each
BY189	74059	1/4	11/16	6	0.19
BY190	74060	3/8	7/8	6 1/8	0.19
BY191	74061	7/16	7/8	6 1/8	0.19
BY192	74062	9/16	7/8	6 1/8	0.24

ULTRA BRIGHT ALUMINUM CLEANERS

- 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



NP597



NP596



Model No.	Mfg. No.	Size	Price /Each
NP597	DF781-12x1	1 Quart	12.20
NP596	DF781-4x1	1 Gallon	32.80
877-1190	DF781-55	55-Gallon Drum	1197.00

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



Model No.	Mfg. No.	Size	Price /Each
720-1071	DF731-16	16-fl. oz. Jar	8.51



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



Model No.	Mfg. No.	Size	Price /Each
876-1005	DF390-16	16-oz. Net Wt. Aerosol	7.60
876-1000	DF390-4x1	1 Gallon	30.80
876-1020	DF390-5	5-Gallon Pail	157.00
876-1025	DF390-55	55-Gallon Drum	1595.00



876-1005

BLUE LAYOUT FLUIDS

- 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



Model No.	Mfg. No.	Size	Price /Each
881-1100	DF304-16	11.5-oz. Net Wt. Aerosol	16.40





BIO-RUST NEUTRAL PH RUST REMOVERS

- Removes rust and other metallic particles
- VOC free, solvent free, non-flammable, pH neutral solution biodegradable
- Not controlled under WHMIS
- Non-corrosive rust remover
- High workload - can remove 1.5 kg (3.3 lbs.) of iron oxide per 20 L
- For use with iron and mild steel
- Deeply rusted parts may require longer soaking time
- After application of Bio-Rust, rinse parts in water to remove loosened contaminants
- After removing rust, dip pack into fresh bath or Bio-Rust to provide short term corrosion protection
- It is recommended to degrease part before using Bio-Rust
- Bio-Rust is designed for immersion applications only
- Immerse parts in Bio-Rust at room temperature and let react for at least 30 minutes



Model No.	Mfg. No.	Size Litres	Gallons	Price /Each
AD441	53-G-247	20	5.2	347.95
AD442	53-G-248	208	55	3105.00

LPS 3[®] HEAVY-DUTY INHIBITORS

- Protects up to two years
- Stops rust and corrosion
- Provides non-sling lubrication
- Non-flammable propellant
- Self-healing, waxy film
- Provides anti-seize coating
- Safe to use on rubber, fabric, plastics and paints
- Meets or exceeds these specs: Boeing BMS-3 23F Type II, MIL-C-0083933A, para.3.2-3.16, MIL-C-16173D Grade 2 Class I, DMS 2150, Airbus TN A. 007.10138 Type I Grade 2
- Accepted for use in Canadian food processing facilities



Model No.	Mfg. No.	Size	Price /Each
AA808	C00316	11 oz.	23.50
AB559	C00322	20-oz. Trigger	30.90
AB558	C03128	1 gal.	110.00
AB556	C00305	5 gal.	461.00
AB557	C00355	55 gal.	4549.00

COLD GALVANIZING COMPOUND

- 93% pure zinc coating provides maximum corrosion resistance and excellent adhesion and durability on galvanized metal
- Use to touch-up/repair galvanized ducts, storage tanks, fences, gutters, etc.
- VOC Compliant
- Finish: Gloss
- Max Operating Temperature: 200°F
- Series: Industrial Choice 1600



RUST-OLEUM

Model No.	Mfg. No.	Size	Price /Each
KP448	1685830	14 oz.	9.97

EVAPO-RUST™ RUST REMOVERS

- Removes rust quickly without scrubbing
- Dipping process
- Non-toxic, non-corrosive, non-flammable
- VOC free
- Water-soluble, biodegradable, safe on skin
- Contains no acids, bases or solvents
- Will not harm unrusted metals



Model No.	Mfg. No.	Size	Price /Each
AD049	ER1	1 L	10.80
AD050	ER4	3.78 L	32.10
AD051	ER20	18.9 L	155.00
AD052	ER205	205 L	1355.00

ZINC-RICH GALVANIZING COMPOUNDS

- Fast-drying, high-solids, high performance, epoxy-based coating
- Provides maximum protection to steel exposed to severe corrosive environments
- Fuses zinc to the metal substrate to protect against corrosion; equal to or better than hot-dipped galvanizing
- 97%-pure zinc dust
- May be topcoated with conventional primers or finish coats
- For fences, gutters, bridges, structural steel, wrought iron, farm equipment; ideal as a maintenance spray for highways, food plants, power plants, refineries or damaged galvanized surfaces



Model No.	Mfg. No.	Size	Price /Each
AA029	C00740000	14 oz.	10.40

COLD GALVANISED CORROSION INHIBITORS

- 95% zinc-rich galvanized coating
- Commonly used as a flash rust preventative on welded areas
- Works like a hot-dip on ferrous metals indoors and out
- Three-year protection
- Withstands water temperature up to 212°F (100°C) and continuous dry heat up to 750°F (400°C)
- Flexible coating will not yellow, chalk, crack or peel
- Electrochemically protect bare metal
- Meets or exceeds these specs: MIL-P-46105 Weld Through Primer, Passes Preece Test for Hot-Dip Galvanizing



Model No.	Mfg. No.	Size	Price /Each
AA807	C00516	14-oz.	19.60
AB552	C05128	1 gal.	410.00

EXTEND® RUST TREATMENTS

- Goes on white and converts rust to a durable, black, metal-protective coating in 10 minutes
- Wirebrush parts and apply with brush or spray
- Surface rust must be present
- Use as a primer or finish coat
- Resists temperatures to 250°F intermittent, 200°F continuous
- Approved by the American Bureau of Shipping



Model No.	Mfg. No.	Size	Price /Each
AA632	30539	10.5 oz. aerosol	13.30
AA633	75430	1 qt. bottle	46.90
AA634	75448	1 gal. bottle	162.00
AC110	75465	5 gal. pail	709.00

MAXI-COAT RUST INHIBITOR

- Heavy-duty coating that provides long-term protection for metal parts, equipment, and machinery
- Forms a protective, waxy film which seals out moisture, air, acid, and other corrosive elements
- Great for protecting parts in storage
- Container Type: Aerosol



Model No.	Mfg. No.	Size	Price /Each
AA599	51211	16 oz.	15.10

BRIGHT COAT COLD GALVANIZED CORROSION INHIBITORS

- Shiny zinc coating
- Prevents rust and corrosion on all metals
- Restores hot dip galvanizing
- Dries to touch in 15 to 30 minutes
- Repairs rusted, galvanized and welded surfaces
- Electrochemically protects bare metal
- Heat resistant, flexible coating
- Will not yellow, chalk, crack or peel



Model No.	Mfg. No.	Size	Price /Each
AB485	C05916	13 oz.	16.60

METAL WORKING FLUIDS & EQUIPMENT

SILVER GALVANIZING COMPOUNDS

- Sacrificial coating that inhibits corrosion on ferrous metals
- Excellent touch-up for repair of galvanized substrates
- Produces a dry coating with the bright finish of hot-dip galvanizing
- Recommended dry film thickness of 1.5 to 3.0 mils VOC-compliant
- Dries to touch in 30 minutes
- May be recoated after 2-16 hours, or after 36 hours
- For food plants, automotive plants, refineries, nuclear facilities, power plants and transmission towers; fences, gutters, bridges, structural steel, wrought iron, farm equipment galvanized surfaces; highway maintenance and marine applications



Model No.	Mfg. No.	Size	Price /Each
AA185	C00739000	14 oz.	16.30

E-WELD NOZZLE ANTI-SPATTER

- Maximum Operating Temperature: 1832°F (1000°C)
- Ceramic anti-spatter that protects welding nozzles
- Provides unrivaled protection of welding nozzles in manual, semi-automated and fully-automated MIG welding applications
- Reduces downtime by extending nozzle life
- Protects welding nozzles for 8 hours
- At least 125 uses with applicator



Model No.	Mfg. No.	Size	Description	Price /Each
AF017	53F512	400 ml	-	40.70
VV928	53L121	-	Applicator	19.00
VV929	53F912	-	Aerosol & Applicator Kit	48.95

WELDER'S STAINLESS STEEL PROTECTIVE COATING

- Provides maximum corrosion resistance on metal, chrome, ceramic and copper surfaces
- Formulated with 100% Type 316L stainless steel pigment
- Dries quickly to a satin sheen
- Hardens overnight and cures in just a few days
- Use to cover discoloration in weld areas
- For exhaust and steam pipes, mufflers, radiators, production equipment, engines, furnaces, plumbing fixtures, chemical processing equipment



Model No.	Mfg. No.	Size	Price /Each
AA027	C00738000	12 oz.	9.36

DRY WELD SPATTER PROTECTANTS

- Prevents spatter from sticking to metal surfaces during welding
- Easily removed by brushing or wiping
- Does not contain silicone
- Surface may be painted after use
- For all types of maintenance and production welding, construction, body shops



Model No.	Mfg. No.	Size	Price /Each
AC303	C00541000	16 oz.	7.18

ANTI-SPATTER

- Safe, water-based formula
- Excellent spatter protection
- Non-toxic
- Non-flammable
- Does not contain suspect carcinogens such as methylene chloride
- Does not contain silicone
- Paint compatible
- Accepted for use in Canadian food processing facilities



Model No.	Mfg. No.	Size	Price /Each
AA816	C02116	13 oz.	9.32

CATALOGUE PRICING

The prices shown in this catalogue are for "REFERENCE AND BUDGET PURPOSES ONLY" as of July 2016, and should be used exclusively as a guideline.

SPECIAL ORDERS

This catalogue represents only a portion of the products that are available to you. If you can't find what you need, please call us!

E-WELD WELD SPATTER RELEASE EMULSIONS

- Effectively protects work pieces and welding equipment (such as torches, robots and jigs) eliminating costly spatter removal work
- Best for general purpose welding
- Contains temporary corrosion inhibitors
- Prevents weld spatter from sticking
- Ultrafine spray for complete coverage
- Will not harm painted surfaces
- Can be used on all weldable metals
- Green colour for a better view on work piece



Model No.	Mfg. No.	Description	Metric	Imperial	Price /Each
AA903	53-F 002	Aerosol	500 ml	16.9 fl.oz.	11.20
AC300	53-F 203	Trigger Spray	500 ml	16.9 fl.oz.	13.10
AA474	53-F 206	Liquid	5 L	1.3 gal	100.95
AA475	53-F 207	Liquid	20 L	5.2 gal	355.45
AC301	53-F 208	Liquid	208 L	55 gal	1338.35

E-WELD 3 WELD SPATTER RELEASE SOLUTIONS

- Unique, high performing anti-spatter solution that protects work pieces from adherence of high energy spatter and eliminates costly spatter removal operations
- Can also be used to clean and degrease surfaces prior to welding
- Formulated to prevent spatter adhesion for high temperature welding applications such as: stainless steel welding, multiple pass welding, thin sheet welding and welding pre-heated work pieces
- For MIG and Arc welding applications, as well as plasma cutting
- Water base formulation - biodegradable, non-flammable, odourless
- Compatible with aluminum, steel and stainless steel
- VOC free, solvent free and silicone free
- Contains corrosion inhibitors for short term corrosion protection
- Excellent paint adhesion properties - no special cleaning required for post welding coating operations



Model No.	Mfg. No.	Description	Metric	Imperial	Price /Each
AA506	53-F 253	Trigger Spray	500 ml	16.9 fl.oz.	14.75
AA507	53-F 256	Liquid	5 L	1.3 gal	114.55
AA508	53-F 257	Liquid	20 L	5.2 gal	389.75
AC309	53-F 258	Liquid	208 L	55 gal	2141.35

OFFICE PRODUCTS

INSTRUMENTS, SCALES & ELECTRICAL

SHIPPING & PACKAGING

TOOLS & EQUIPMENT

WELDING & METALWORKING

SAFETY EQUIPMENT & SUPPLIES

JANITORIAL & MAINTENANCE

MATERIAL HANDLING & STORAGE

METAL WORKING FLUIDS & EQUIPMENT



CLEAR INSULATING VARNISHES

- Thoroughly penetrates old and new materials
- Air-dries faster than most insulating aerosols (10-15 min)
- Tack-free in 60 minutes
- Provides high adhesion, high arc resistance and non-tracking properties
- For use as an insulating varnish in Class F applications, as well as a finish coat
- Resists abrasion and wear
- Contains no chlorinated solvents



Model No.	Mfg. No.	Size	Price /Each
AA178	C0060000	15.25 oz.	9.31

RED INSULATING VARNISHES

- Penetrates thoroughly and forms a tough, flexible film
- High arc resistance and non-tracking properties
- Resists oil, water, acids and alkalis
- Excellent adhesion
- Oil resistant per ASTM-D-115-55



Model No.	Mfg. No.	Size	Price /Each
AA179	C00601000	15.25 oz.	9.31

BLUE LAYOUT DYES

- The economical choice for most layout projects
- VOC-compliant
- Fast-drying, non-flaking, non-etching, won't peel
- Heat resistant, non-corrosive
- Adheres to metal or glass
- For pattern-making, tool and die making, machining and maintenance mechanicals



Model No.	Mfg. No.	Size	Price /Each
AA180	C00603000	12 oz.	9.02

LAYOUT DYE REMOVERS

- Removes layout fluids quickly and efficiently
- Removes light oils, greases, lacquer and other markings on metal or glass
- Leaves no residue
- No chlorinated solvents
- For tool and die making and production departments



Model No.	Mfg. No.	Size	Price /Each
AA181	C00606000	12.75 oz.	8.51

A-9 ALUMINUM CUTTING FLUIDS

- Designed for aluminum, non-ferrous metals
- Forms an effective extreme pressure boundary lubricant between tool and work surface
- Leaves a surface, which requires only ordinary cleaning

RELTON



Model No.	Size	Price /Each
AA149	4 oz.	3.80

RAPID TAP™ CUTTING FLUIDS

- Effective on tough-to-drill metals and alloys such as beryllium, molybdenum, stainless steel and stellite
- Makes tapping, reaming, drilling and threading operations easier, faster and more accurate
- Not recommended for use with aluminum and its alloys

RELTON



Model No.	Size	Price /Each
AA160	4 oz.	5.45

COOLCUT™

- Extends cutting tool life
- Suitable for all ferrous and non-ferrous metals
- Produces a better finish
- Solvent-free, no chlorine
- For drilling, sawing, milling, turning, reaming, broaching



METAL CUTTING LIQUID

Model No.	Mfg. No.	Size	Price /Each
AA468	53-B-003	350 ml	12.20
AA469	53-B-006	4 L	96.90
AA470	53-B-007	20 L	360.30
AB748	53-B-008	208 L	2539.10

METAL CUTTING STICKS

Model No.	Mfg. No.	Size	Price /Each
AA471	53-B-013	300 g	16.85

METAL CUTTING SPRAYS

Model No.	Mfg. No.	Size	Price /Each
AA467	53-B-002	350 ml	22.25



AA468



AA471



AA467

OPTION 1® CUTTING FLUIDS

- Effective in all machining operations on all metals except those that are water reactive
- Water-based
- Biodegradable
- No oil
- No chlorine - no sulfur, no toxic chemicals

RELTON



Model No.	Size	Price /Each
AA156	4 oz.	3.86

SF 7900™ CERAMIC SHIELD FOR WELDING

- Ceramic dry film protective coating for MIG/MAG welding processes
- Protects contact tips and welding nozzles by preventing adhesion of welding spatter
- Once applied the coating dries by solvent evaporation within 5 to 10 seconds at room temperature (Thicker films will need longer drying time)
- Ceramic, silicone-free protective coating, easy to apply
- Protects contact tips, welding nozzles and jigs, eliminating cost for cleaning equipment
- Reduces running costs for consumables by up to 40%
- Prevents adhesion of welding spatter for many hours with just one application
- Colour: White

LOCTITE



Model No.	Mfg. No.	Size	Price /Each
AD492	1616692	9.5 oz.	35.70

METAL WORKING FLUIDS & EQUIPMENT

TAPMATIC® EDGE CREME

- Excellent for vertical applications
- Biodegradable
- Can be applied to cutting tools before tapping or reaming
- For use when drilling, tapping blind holes, forming, bending, pre-coating fasteners and lubricating rubber seals
- Does not contain any hazardous chemicals
- Safe on all metals



Model No.	Mfg. No.	Size	Price /Each
AA923	C43100	11 oz.	29.90

STAINLESSCUT™ EXTREME PRESSURE CUTTING LUBRICANTS

- Prolongs tool life in stainless and other tough alloys
- Produces a better finish
- Safe and pleasant to use



Model No.	Description	Size	Price /Each
AA509	Aerosol	400 ml	24.95
AA510	Squeeze bottle	350 ml	15.50
AA511	Liquid	4 L	119.35

CIMTAP® II LIQUID TAPPING COMPOUNDS

- Water-soluble, formulated for blind holds, deep vertical holes and high production operations requiring quick application
- For ferrous and non-ferrous metals



Model No.	Size	Price/Each
AB792	16-oz. Bottle	12.40
AB789	4-L Jug	51.00

TAPMATIC® #1 GOLD CUTTING FLUIDS

- Great for steel and aluminum
- Excellent for low speed, high pressure applications
- Minimizes torque increases
- No chlorinated paraffins, water, solvents or inactive fillers
- Aerosol provides a pinpoint stream with foaming action
- Safe on all metals
- Accepted for use in Canadian food processing facilities



Model No.	Mfg. No.	Size	Price /Each
AA775	C40312	11-oz. Aerosol	19.90
AA776	C40320	16 oz.	20.40
AB565	C40330	1 gal.	112.00
AB563	C40340	5 gal.	456.00

TAPMATIC® TRICUT CUTTING FLUIDS

- Excellent for hard to machine metals
- Not recommended for aluminum
- Provides, smooth, accurate cutting action
- Flows directly to cutting edge
- Extends tool life
- Reduces friction
- Suitable for high and low speed applications
- Non-corrosive to steel



Model No.	Mfg. No.	Size	Price /Each
AA779	C05316	16 oz.	27.20
AB578	C05328	1 gal.	189.00

TAPMATIC® EDGE LUBE

- White, solid waxy bar
- Excellent for belt, wheel and disc grinding or sawing applications
- Eliminates heat build-up and belt loading
- No hazardous chemicals
- Extends grinding wheel life
- Low toxicity
- Safe on all metals



Model No.	Mfg. No.	Size	Price /Each
AA922	C43200	13 oz.	27.60

TAPMATIC® AQUACUT CUTTING FLUIDS

- Water-based formula
- Excellent in applications where cooling of the tool is desired
- Does not contain sulfur, chlorinated solvents, chlorine or oils
- Safe on all metals, except magnesium
- Corrosion inhibitors prevent flash rusting
- Provides fine finishes
- Cinnamon scent



Model No.	Mfg. No.	Size	Price /Each
AA778	C01216	16 oz.	16.80
AB574	C01228	1 gal.	67.60
AB572	C01205	5 gal.	354.00

TAPMATIC® NATURAL CUTTING FLUIDS

- Non-toxic and non-hazardous
- Biodegradable
- Does not irritate the skin, eyes or respiratory tract
- Does not contain sulfur, chlorinated solvents, chlorine water, mineral oil or inactive fillers
- Great for steel and aluminum
- High performance lubricating ability eliminates galling and seizing
- Safe on all metals



Model No.	Mfg. No.	Size	Price /Each
AA777	C44220	16 oz.	18.70
AB577	C44230	1 gal.	111.00





MACHINE TOOL COOLANT EQUIPMENT

"Flood Type" machine tool coolant units are designed for use with virtually any machine tool operational need. Engineered so that the flow of coolant can be regulated to desired amount or completely shut off without harmful effects to the motor.

METAL WORKING FLUID TANK & PUMP KITS

- Ideal for retrofitting machinery with old or non-existing system
- 5-gallon tank ideal for water soluble or light cutting oils
- 1/15 HP, 115 V pump generates 7.5 PSI
- **Includes:** Tank, pump, chip collector basket, 6' plastic hose, flexible nozzle and brass control valve



Model No. DB945 Price/Each \$565.00

5-GALLON COOLANT TANKS

- For use on single-spindle drill presses, bench mills, tool grinders, single-spindle tapping machines, cut-off saws, small lathes using water soluble or light cutting oil
- Dimensions: 10 15/16" L x 16 9/16" W x 8" H
- Weight: 5 lbs.
- **Includes:** 5-gallon polyethylene tank, metal chip collector basket, baffle, 6' plastic hose, plastic flex nozzle and brass control valve
- Pump not included - see chart below



Model No. DA343 Price/Each \$300.00

Little **GIANT**
PUMP COMPANY

PUMPS FOR COOLANT TANKS

Model* No.	HP	Volts	PSI	Power Cord'	Wt. lbs.	Price /Each	For Tank Model No.	Water Soluble Oil 50 SSU, G.P.H.					Cutting Oil 100 SSU, G.P.H.					Cutting Oil 300 SSU, G.P.H.				
								1'	3'	6'	12'	Shut Off'	1'	3'	6'	12'	Shut Off'	1'	3'	6'	12'	Shut Off'
5-GALLON TANKS																						
DA329	1/15	115	7.5	10	8.3	291.00	DA343	127	123	113	89	22.4	89	86	79	62	16.8	70	65	60	47	15.7
DA330	1/12	115	10	10	10.1	380.00	DA343	134	129	119	100	24.3	95	89	81	68	18.3	75	71	64	54	17.5






*All pumps UL listed, CSA certified.









THE LOC-LINE® SYSTEMS

- Loc-Line®'s unique ball and socket design is fully hand adjustable in both position and length
- Bending does not decrease the inside diameter and it will not kink or fatigue like copper tubing
- Unlike metal hoses, Loc-Line® will not damage machine tool cutters if contact occurs
- Loc-Line® is electrically non-conductive
- It is ideal for use as an EDM flushing hose





































1/4" SYSTEM - 1/4" INSIDE DIAMETER


























Model No.	Mfg. No.	Description	Price/Each
AA230	40413	 1/4" Hose kit, 13" length with fittings 2 - segments, 5 3/4" long 1/4", 1/8", 1/16" nozzles, 1/4" and 1/8" male NPT connectors	18.60
AA287	40452	 1/4" Flared tubing replacement pack 8 - segments, 5 3/4" long 1 - 1" flare nozzle Includes 4 each of: 3/8" Flare nut adapters, 1/8" Round nozzles, 1/4" Round nozzles	68.50
AA288	41474	 1/4" 90° Nozzle kit 1 each: 1/16", 1/8", 1/4" and 1/4" Spray bar nozzles	15.80
AA289	41475	 1/4" Extended element kit with element clamps Includes 4 each of: 1/4" Extended elements, 1/4" Element clamps	30.50
AA418	41479	 1/4" Circle flow nozzle kit Assembled with 15 side flow nozzles 1/4" and 1 end cap 1/4"	42.00

Model No.	Mfg. No.	Description	Price/Each
AA290	41401	 1/4" Segment pack 2 - segments, 5 3/4" long	13.20
AA291	49420	Bulk 25 ft., 55 segments	296.00
AA292	49421	1/4" 50 foot coil	592.00
AA293	41476	 1/4" Extended elements Pack of 4	21.10
AA294	49445	Pack of 20	84.00
AA295	41477	 1/4" Element clamps Pack of 4 (w/screws)	15.80
AA296	49446	Pack of 20 (w/screws)	59.30
AA297	41402	 1/16" Round nozzle Pack of 4	9.34
AA298	49422	Pack of 50	92.40
AA273	41403	 1/8" Round nozzle Pack of 4	9.26
AA299	49423	Pack of 50	92.40
AA274	41404	 1/4" Round nozzle Pack of 4	9.26
AA300	49424	Pack of 50	92.40
AA301	41470	 1/16" 90° Nozzle Pack of 4	13.10
AA302	49439	Pack of 20	51.70
AA303	41471	 1/8" 90° Nozzle Pack of 4	13.10
AA304	49440	Pack of 20	51.70

METAL WORKING FLUIDS & EQUIPMENT

1/4" SYSTEM - 1/4" INSIDE DIAMETER (CONT'D)

Model No.	Mfg. No.	Description	Price/Each
AA305	41472	 1/4" 90° Nozzle Pack of 4	13.10
AA306	49441	 Pack of 20	51.70
AA279	41473	 1/4" 90° Spray bar nozzle Pack of 2	14.30
AA307	49442	 Pack of 20	99.90
AA277	41407	 1" Flare nozzle Pack of 2	14.00
AA308	49427	 Pack of 20	99.90
AA275	41405	 1/8" NPT Connector Pack of 4	9.26
AA309	49425	 Pack of 50	92.40
AA310	41417	 1/8" BSPT* Connector Pack of 4	9.34
AA311	49437	 Pack of 50 * British Standard Pipe Thread	92.40
AA276	41406	 1/4" NPT Connector Pack of 4	9.26
AA312	49426	 Pack of 50	92.40
AA313	41418	 1/4" BSPT* Connector Pack of 4	9.34
AA314	49438	 Pack of 50 * British Standard Pipe Thread	92.40
AA278	41408	 1/4" Y fitting Pack of 2	14.30
AA315	49428	 Pack of 20	99.90
AA316	41409	 1/4" Double socket Pack of 4	10.40
AA317	49429	 Pack of 20	41.20
AA318	41411	 1/4" Socket to 1/8" FNPT Pack of 4	11.80
AA319	49431	 Pack of 20	47.00
AA320	41412	 3/8" SAE Flare nut adapter Pack of 4	14.30
AA321	49432	 Pack of 20 • 5/8" - 18 Thread	55.40
AA322	41414	 1/4" SAE Flare nut adapter Pack of 4	14.30
AA323	49434	 Pack of 20 • 7/16" - 20 Thread	55.40
AA324	41415	 1/4" Elbow fitting Pack of 2	13.10
AA325	49435	 Pack of 20	102.00
AA326	41416	 1/4" T fitting Pack of 2	15.80
AA327	49436	 Pack of 20	122.00
AA328	41478	 1/4" Side flow nozzle Pack of 4	15.80
AA329	49443	 Pack of 20	58.10
AA330	41480	 1/4" End cap Pack of 4	9.34
AA331	49447	 Pack of 20	37.00
AA332	41481	 1/4" Swivel nozzle 40 Pack of 2	21.10
AA333	49449	 Pack of 20 • 0.040 Hole diameter	168.00

Model No.	Mfg. No.	Description	Price/Each
AA334	41482	 1/4" Swivel nozzle 60 Pack of 2	21.10
AA335	49450	 Pack of 20 • 0.060 Hole diameter	168.00
AC407	41488	 2 1/2" Swivel nozzle 75 Pack of 2	22.10
AC374	49455	 Pack of 20 • 0.075 Hole diameter	178.00
AC418	41489	 1" Straight flow nozzle Pack of 2	14.30
AC381	49456	 Pack of 20	99.90
AA269	21192	 1/4" Male NPT valve* Pack of 2	23.50
AA338	29452	 Pack of 10	105.00
AA339	21193	 1/4" Female NPT valve* Pack of 2	23.70
AA340	29453	 Pack of 10	105.00
AA270	21194	 1/4" In-line valve* Pack of 2	23.50
AA341	29454	 Pack of 10	105.00
AA336	21191	 In-line check valve Pack of 2	23.70
AA337	29451	 Pack of 10	105.00
AC413	41483	 1/4" Flat slot 40 nozzle Pack of 4	15.10
AC394	49451	 Pack of 20 • 0.040 Slot height	60.00
AC414	41484	 1/4" Flat slot 60 nozzle Pack of 4	15.10
AC395	49452	 Pack of 20 • 0.060 Hole diameter	60.00
AC415	41485	 1/4" Flat 5 hole nozzle Pack of 4	15.10
AC396	49453	 Pack of 20 • 0.060 Slot height	60.00
AC416	41486	 1/4" Flat 7 hole nozzle Pack of 4	15.10
AC397	49454	 Pack of 20 • 0.040 Hole diameter	60.00
AC417	41487	 1/4" Flat nozzle assortment pack Includes one each of: Flat slot 40 nozzle Flat slot 60 nozzle Flat 5 hole nozzle Flat 7 hole nozzle	15.10
AA342	78001	 1/4" Hose assembly pliers One 1/4" pliers	24.70
AC398	78003	 1/4" and 1/2" pliers set	44.80



















*1/4" VALVE SPECIFICATIONS:




















- Full 1/4" inside diameter
- Maximum working pressures:
1/4" hose: 30 PSI
1/4" In-line valve: 30 PSI
1/4" Male and female NPT valves: 100 PSI
- **Body and stern material:** Acetal Copolymer
- **Stern seal:** Nitrile (Buna-N)
- 1/4 turn shut off (1/4" hose limits most applications to 30 PSI)

METAL WORKING FLUIDS & EQUIPMENT






1/2" SYSTEM - 1/2" INSIDE DIAMETER



Model No.	Mfg. No.	Description	Price/Each
AA231	50813	 1/2" Hose kit 13" length with fittings: 2 segments, 5 1/2" long 1/4", 3/8", 1/2" nozzles 3/8" and 1/2" male NPT connectors	21.10
AA343	51832	 1/2" 90° Nozzle kit 1 each: 1/4", 3/8", 1/2" and spray bar nozzles	17.80
AA344	51835	 1/2" Extended element kit with element clamps Includes 4 each of 1/2" extended elements 1/2" element clamps	36.90
AA419	51837	 1/2" Circle flow nozzle kit Assembled with 15 side flow nozzles 1/2" and 1 end cap 1/2"	47.30
AA345	51801	 1/2" Segment pack 2 - Segments, 5 1/2" long	15.20
AA346	59860	Bulk 25 ft., 59 Segments	350.00
AA347	59861	1/2" 50 Foot Coil	699.00
AA348	51833	 1/2" Extended element Pack of 4	23.70
AA349	59883	Pack of 20	94.50
AA350	51834	 1/2" Element clamp Pack of 4 (w/screws)	18.30
AA351	59884	Pack of 20 (w/screws)	68.40
AA284	51806	 1/4" Round nozzle for 1/2" Pack of 4	10.70
AA352	59866	Pack of 50	106.00
AA280	51802	 3/8" Round nozzle Pack of 4	10.70
AA353	59862	Pack of 50	106.00
AA281	51803	 1/2" Round nozzle Pack of 4	10.70
AA354	59863	Pack of 50	106.00
AA355	51828	 1/4" 90° nozzle Pack of 4	14.90
AA356	59878	Pack of 20	59.30
AA357	51829	 3/8" 90° nozzle Pack of 4	14.90
AA358	59879	Pack of 20	59.30
AA359	51830	 1/2" 90° nozzle Pack of 4	14.90
AA360	59880	Pack of 20	59.30
AA361	51831	 1/2" 90° Spray bar nozzle Pack of 2	16.00
AA362	51881	Pack of 20	110.00
AA363	51807	 1 1/4" Flare nozzle Pack of 2	16.00
AA364	51867	Pack of 20	110.00
AA365	51809	 2 1/2" Flare nozzle Pack of 2	18.30
AA366	59871	Pack of 20	121.00
AA282	51804	 3/8" NPT Connector Pack of 4	10.70
AA367	59864	Pack of 50	106.00
AA368	51826	 3/8" BSPT* Connector Pack of 4	10.70
AA369	59876	Pack of 50 * British Standard Pipe Thread	106.00

Model No.	Mfg. No.	Description	Price/Each
AA283	51805	 1/2" NPT Connector Pack of 4	10.70
AA370	59865	Pack of 50	106.00
AA371	51827	 1/2" BSPT* Connector Pack of 4	10.70
AA372	59877	Pack of 50 * British Standard Pipe Thread	106.00
AA285	51808	 1/2" Y Fitting Pack of 2	16.00
AA373	59868	Pack of 20	110.00
AA374	51822	 1/2" to 1/4" Y reducer Pack of 2	16.00
AA375	59870	Pack of 20	110.00
AA376	51821	 1/2" to 1/4" Adaptor Pack of 2	11.70
AA377	59869	Pack of 20	99.90
AA378	51811	 1/2" Double socket Pack of 4	11.80
AA379	59872	Pack of 20	47.00
AA380	51823	 3/8" SAE Flare nut adaptor Pack of 4	14.70
AA381	59873	Pack of 20 • 5/8" - 18 Thread	57.60
AA382	51824	 1/2" Elbow fitting Pack of 4	14.90
AA383	59874	Pack of 20	116.00
AA384	51825	 1/2" T fitting Pack of 2	17.60
AA385	59875	Pack of 20	137.00
AA386	51836	 1/2" Side flow nozzle Pack of 4	17.80
AA387	59889	Pack of 20	64.70
AA388	51838	 1/2" End cap Pack of 4	10.70
AA389	59885	Pack of 20	42.10
AC406	51845	 1/2" Swivel nozzle 75 for 1/2" Pack of 2	23.30
AC373	59895	Pack of 20 • 0.075 Hole diameter	187.00
AA390	32091	 1/2" In-line check valve Pack of 2	28.90
AA391	39851	Pack of 10	129.00
AA271	32092	 1/2" Male NPT valve* Pack of 2	28.90
AA392	39852	Pack of 10	129.00
AA393	32093	 1/2" Female NPT valve* Pack of 2	28.90
AA394	39853	Pack of 10	129.00
AA272	32094	 1/2" In-line valve* Pack of 2	28.90
AA395	39854	Pack of 10	129.00
AA396	78002	 1/2" Hose assembly pliers One 1/2" pliers	24.70
AC398	78003	1/4" and 1/2" pliers set	44.80
AC408	51840	 1/2" Flat slot 80 nozzle Pack of 4	16.70
AC389	59890	Pack of 20 • 0.080 Slot height	67.00
AC409	51841	 1/2" Flat slot 125 nozzle Pack of 4	16.70
AC390	59891	Pack of 20 • 0.125 Slot height	67.00

METAL WORKING FLUIDS & EQUIPMENT

1/2" SYSTEM - 1/2" INSIDE DIAMETER (CONT'D)







Model No.	Mfg. No.	Description	Price/Each
AC410	51842		1/2" Flat 5 hole nozzle
AC391	59892		Pack of 4 Pack of 20 • 0.125 Hole diameter
AC411	51843		1/2" Flat 7 hole nozzle
AC392	59893		Pack of 4 Pack of 20 • 0.080 Hole diameter
AC412	51844		1/2" Flat nozzle assortment
			Includes one each of:
			Flat slot 80 nozzle
			Flat slot 125 nozzle Flat 5 hole nozzle Flat 7 hole nozzle







Model No.	Mfg. No.	Description	Price/Each
AC426	51895		1/2" Fixed mount
AC383	59896		Pack of 2 Pack of 20 • Mounts with 1/4" bolt, not included
AC403	51846		1/2" Magnetic base
			Pack of 1 • 60 # holding force

*1/2" VALVE SPECIFICATIONS:

- Full 1/2" inside diameter
- Maximum working pressures:
1/2" hose: 20 PSI
1/2" In-line valve: 20 PSI
1/2" Male and female NPT valves: 100 PSI
- **Body and stern material:** Acetal Copolymer
- **Stern seal:** Nitrile (Buna-N)
- 1/4 turn shut off (1/2" hose limits most applications to 20 PSI)

3/4" SYSTEM - 3/4" INSIDE DIAMETER






Model No.	Mfg. No.	Description	Price/Each
AA232	60513		3/4" Hose kit
			14" length with fittings
			2 - segments, 5 3/4" long 5/8" and 3/4" nozzles 3/4" male NPT connector
AA397	61501		3/4" Segment Pack
AA398	69540		2 - segments, 5 3/4" long
AA399	69541		Bulk 25 ft., 54 Segments 3/4" 50 foot Coil
AA400	61503		5/8" Round nozzle
AA401	69543		Pack of 4 Pack of 50
AA402	61502		3/4" Round nozzle
AA403	69542		Pack of 4 Pack of 50
AA404	61507		3" Flare nozzle
AA405	69547		Pack of 2 Pack of 20
AA406	61505		3/4" NPT connector
AA407	69545		Pack of 4 Pack of 50







Model No.	Mfg. No.	Description	Price/Each
AA408	61509		3/4" BSPT* connector
AA409	69549		Pack of 4 Pack of 50 * British Standard Pipe Thread
AA410	61511		3/4" Y fitting
AA411	69551		Pack of 2 Pack of 20
AA412	61512		3/4" to 1/2" Y reducer
AA413	69552		Pack of 2 Pack of 20
AA414	61508		3/4" to 1/2" adapter
AA415	69548		Pack of 2 Pack of 20
AA416	61514		3/4" Double socket
AA417	69554		Pack of 4 Pack of 20
AC400	78004		3/4" Hose assembly pliers
			Pack of 1

Shields & Modular Manifolds Kits - Also Available

VACUUM HOSES

The Loc-Line® 2 1/2" Vacuum hose is designed to be added to an existing central vacuum system to extract smoke, dust, fumes and particles at the source. It is easy to position within a work area and can be mounted to 3" thin walled PVC drain pipe, 3" sheet metal duct, or a portable shop vacuum.

Model No.	Mfg. No.	Description	Price/Each
AC401	81201		Vacuum segment packs
AC399	81301AS		9 elements 2.5" I.D. Anti-static, 9 elements (1 foot segment)
AC393	81202		18 elements 2.5" I.D.
AC388	81302AS		Anti-static, 18 elements (2 - one foot segments)
AC370	89220		180 elements 2.5" I.D.
AC369	89320AS		Anti-static, 180 elements (20 - one foot segments)
AC422	81203		4.5" Round nozzle
AC419	81303AS		Pack of 1
AC378	89223		Anti-static, pack of 1
AC375	89223AS		Pack of 10 Anti-static, pack of 10
AC423	81204		6" x 3.5" Rectangular nozzle
AC420	81304AS		Pack of 1
AC379	89224		Anti-static, pack of 1
AC376	89324AS		Pack of 10 Anti-static, pack of 10

Model No.	Mfg. No.	Description	Price/Each
AC424	81205		Tapered oval nozzle
AC421	81305AS		Pack of 1
AC380	89225		Anti-static, pack of 1
AC377	89325AS		Pack of 10 Anti-static, pack of 10
AC425	81206		3" PCV adapter
AC384	89226		Pack of 1 Pack of 10 * Not available in "anti-static"
AC428	81207		3" Sheet metal duct adapter
AC427	81307AS		Pack of 1
AC385	89227		Anti-static, pack of 1
AC382	89327AS		Pack of 10 Anti-static, pack of 10
AC404	81208		2.5" Slide valve
AC402	81308AS		Pack of 1
AC372	89228		Anti-static, pack of 1
AC371	89328AS		Pack of 10 Anti-static, pack of 10
AC429	81209		Shop vacuum hose adapter
AC386	89229		with mounting tab Pack of 1 Pack of 10
AC430	81210		Shop vacuum adapter
AC387	89230		Pack of 1 Pack of 10

Shields & Modular Manifolds Kits - Also Available