

LENCO WELDING ACCESSORIES LIMITED



Since 1954



“ONE STOP FOR ALL YOUR WELDING NEEDS!”

Catalogue Contents



MW

Full Index on page 293

Maxweld Accessories 1

Section 200 Gas Welding Equipment

Goss Equipment.....	5	Cylinders.....	38
Cutting / Welding Tips.....	18	Hotspotter, Quick Connects & Flash Arrestors.....	39
Pressure Gauges.....	31	O-Clamps.....	40
Tip Cleaners.....	33	Gasaver.....	44
Spark Lighters.....	34	Genstar Technologies Equipment.....	46
Cylinder Brackets.....	36	Balloon Inflators.....	73
Welding Hose.....	37	Burning Bars.....	75

Section 300 Arc Welding Equipment

Lenco Electrode Holders.....	81	Tweco Welding Accessories.....	86
Lenco Cable Connectors.....	82	NLC (Lenco) Welding Accessories.....	87
Triple X Welding Grip Electrode Holders.....	83	Arc Gouging Torches / Carbons.....	101
Magnetic Ground Clamps.....	84	Welding Cable.....	102
Bernard Welding Accessories.....	85		

Section 400 Plasma Welding Equipment

Motor Guard Filters.....	104	Flange Wizard Plasma Cutting Guide.....	105
--------------------------	-----	---	-----

Section 500 Inert Gas Equipment

Contactors.....	108	Tungsten Electrodes.....	151
Dinse Tig Adaptors.....	112	Maxweld Tig Torches and Accessories.....	155
WeldTec Tig Torches and Accessories.....	114	Tig Spot Gun.....	166
Tungsten Grinders.....	145	Water Coolers.....	167

Section 600 Filler Metals and Fluxes

Aladdin Brazing Soldering and Fluxes.....	170	Filler Metals.....	180
Rod Guard Cannisters.....	179		

Section 700 Resistance Equipment

Resistance Welders/ Dent Pullers.....	181
---------------------------------------	-----

Section 800 Related Welding Items

Tempil Temperature Indicators.....	183	Pipe-Pro Cutting Guides.....	199
Weld-Aid Anti Spatter.....	185	Contour Pipe Marker Tools.....	200
Brushes.....	189	Paint Markers.....	211
Stainless Steel Cleaner.....	190	Cutting Fluid.....	219
Flange Wizard Pipe Marking Tools.....	192		

Section 900 Safety and Medical Equipment

Welders Clothing.....	221	Welding Helmets.....	238
Fibre-Metal Safety.....	223	Knee Pads.....	243
Filter Plate Faceshield Replacements.....	237	Welding Blankets.....	244

Section 1000 Tools and Hardware

Weld Positioners.....	245	Pelican Flashlights.....	284
Turning Rolls.....	251	Ullman Inspection Mirrors.....	285
Cutting / Beveling Machines.....	253	Power Cat Fume Exhaust.....	287
Chipping Hammers.....	254	Robvon Backing Rings.....	288
GAL Welding Gauges.....	256	Empire Levels.....	290
Rod Ovens.....	277	Soapstone and Holders.....	292
Vise Grip Tools.....	279		

200

300

400

500

600

700

800

900

1000

Lenco Welding Accessories Limited

P.O. Box 1027, 3775 Del Duca Drive
Windsor, Ontario CANADA
N9A 6P4

Ph. 1-800-265-5678 • Fax 1-800-668-3626

Sales@LencoCanada.com

www.LencoCanada.com

*Items and descriptions in this catalogue
are subject to change without notice.*

©2014 Lenco Welding Accessories Limited
All Rights Reserved

No page or part of any page in this catalogue may be reproduced
in any form without written permission of copyright owner shown above.

Fibre Metal Style Cable Connectors



Part No.	Description
FM-40	Cable Connector - Complete Set
FM-40M	Cable Connector - Male Half
FM-40F	Cable Connector - Female Half

Alerco Style Ground Clamps



Part No.	Description
MWG-200A	Alerco Style Ground Clamp, 200 amp
MWG-300A	Alerco Style Ground Clamp, 300 amp
MWG-500A	Alerco Style Ground Clamp, 500 amp

Economy Steel Ground Clamps



Part No.	Description
MWG-300E	Ground Clamp, 300 amp
MWG-500E	Ground Clamp, 500 amp

Shortstub Electrode Holders



Part No.	Description
MW-400S	400 amp Shortstub Electrode Holder
MWK-400S	Replacement Head for MW-400S
MW-600S	600 amp Shortstub Electrode Holder

Welding Gauges



Automatic Weld Size Gauge

For accurate calibration of Butt and Fillet type weld.

- Stainless steel
- Standard only
- Vinyl case included



Bridge Cam Gauge

Measures angle of preparation, depth of undercut, depth of pitting, fillet weld throat size, fillet weld leg length, mis-alignment.

- Stainless steel
- Standard and Metric
- Vinyl case included



Fillet Weld Gauge

Measures fillet throat size and fillet leg length.

- 7 piece set 1/8" to 1"
- Slotted design for ease of use
- Stainless steel
- Standard & metric
- Vinyl case included

Part No.	Description
MW-AWS	Automatic Weld Size Gauge
MW-BCG	Bridge Cam Gauge
MW-FWG	Fillet Weld Gauge
MW-HLS	Single Purpose Hi-Lo Gauge
MW-HLM	Multi Purpose Hi-Lo Gauge



Single Purpose Hi-Lo Gauge

Quickly check the internal alignment and rootweld space.

- Stainless steel
- Aluminum sleeve
- Standard only
- Vinyl case included



Multi Purpose Hi-Lo Gauge

Measure internal misalignment, pipe wall thickness, fillet weld size, height of butt weld.

- Stainless steel
- Standard and metric
- Plastic storage box included

Tip Nuts



Part No.	Description
A-080.1	Tip Nut Suitable for use with Airco
H-082.1	Tip Nut Suitable for use with Harris
P-080	Tip Nut Suitable for use with Purox
P-081	Tip Nut Suitable for use with Purox
S-081	Tip Nut Suitable for use with Smith
V-080	Tip Nut Suitable for use with Victor
V-081	Tip Nut Suitable for use with Victor

Copper Cable Ferrule

- For use in cable connectors, ground clamps & more.
- Keep copper cable strands secure.



Part No.	Description
MW-CF1020	Copper Ferrule

Whip Cables



MW-WHIP Includes
 MW-400S Electrode Holder
 LC-1040 Connector
 10' #2 Flex Cable

MW-WHIPGC20 Includes
 10' 2/0 Flex Cable
 LC-40M Male Connector
 MWG-500A Ground Clamp

Part No.	Description
MW-WHIP	Whip Cable Assembly
MW-WHIPGC20	Whip Ground Cable (not shown)

We will custom make your cable, call for details and quotes.

Chipping Hammer



Part No.	Description
MW-12	Chisel and Point Chipping Hammer

Nozzle Dip



Part No.	Description
MW87096	Nozzle Dip 16 oz.

Mig Pliers



Part No.	Description
MW-MP	Mig Pliers

Flow Tube Assembly



Part No.	Description
MW-FT	Replacement Flow Tube Assembly

Welders Kit



Part No.	Description
MW-KIT	Welders Kit (Includes ADF, Bag and all items shown)

Scratch Brushes



Part No.	Description
MW-LHB	Long Handle Brush, 3 x 19
MW-SHB	Shoe Handle Brush, 4 x 16

Spark Lighters



Part No.	Description
MW-SFL	Single Flint Lighter
MW-TFL	Triple Flint Lighter
MW-SFR	Single Flint Renewals - 5 per pack
MW-TFR	Triple Flint Renewals - 4 per pack

Soapstone Holders



Part No.	Description
MW-SSH	Soapstone Holder w/ Flat Soapstone
1041	Flat Soapstone - per gross

Mig Nozzle Cleaning Tool



Part No.	Description
MW-MNC	Mig Nozzle Cleaner

Tip Cleaners



Part No.	Description
MW-7549	Standard Tip Cleaners

Maxweld Cutting Tips - See pages 18-29

Maxweld Tig Torches and Accessories - See Pages 155-165

Maxweld Mig Replacement Parts

**Other parts available
contact our order desk.**

Parts Suitable for Bernard

- MW1589 CONTACT TIP LONG .035"
- MW1590 CONTACT TIP LONG .045"
- MW1591 CONTACT TIP LONG 1/16"
- MW1593 CONTACT TIP LONG 3/32"
- MW1594 CONTACT TIP LONG 7/64"
- MW241 BRASS NOZZLE
- MW243 .030-.035" CONTACT TIP
- MW256 NOZZLE INSULATOR
- MW4235 GAS DIFFUSER
- Mw4280 TAPERED CONTACT TIP 1/16"
- MW4281 TAPERED CONTACT TIP .035"
- MW4282 TAPERED CONTACT TIP .045"
- MW4295 3/8" TAPERED BRASS NOZZLE
- MW43115 LINER 15' .035-.045"
- MW43115T 15' WIRE CONDUIT .035-.045"
- MW43215 15' WIRE CONDUIT 1/16"
- MW4323R INSULATOR
- MW4335 GAS DIFFUSER
- MW4391 NOZZLES
- MW4392 TAPERED BRASS NOZZLE 1/2"
- MW4393 COPPER NOZZLE 5/8"
- MW4394 TAPERED COPPER NOZZLE 1/2"
- MW44115 LINER 15' .035-.045"
- MW44125 LINER 25' .035-.045"
- MW44215 LINER 15' .045-.062"
- MW44215-100 LINER 100' .045-.062"
- MW44215T 15' WIRE CONDUIT .045-.062"
- MW44225 LINER 25' .045-.062"
- MW4423R INSULATOR
- MW44315 15' WIRE CONDUIT 5/64"
- MW4435 GAS DIFFUSER
- MW4491 3/4" BRASS NOZZLE
- MW4492 9/16" TAPERED BRASS NOZZLE
- MW4591 COPPER NOZZLE 3/4"
- MW4592 COPPER NOZZLE 9/16"
- MW4635 GAS DIFFUSER
- MW4780 INSULATOR HEX NUT
- MW4790 CONDUCTOR TUBE
- MW5662 TRIGGER
- MW7488 CONTACT TIP .030"
- MW7489 CONTACT TIP .035"
- MW7490 CONTACT TIP .045"
- MW7491 CONTACT TIP 1/16"
- MW7492 CONTACT TIP 5/64"
- MW7493 CONTACT TIP 3/32"
- MW7494 CONTACT TIP 7/64"
- MW7497 CONTACT TIP .023"
- MW7498 CONTACT TIP .052"

Parts Suitable for Binzel

- MW140.0008 CONTACT TIP M6 .023
- MW140.0169 CONTACT TIP M6 .035"
- MW140.0217 CONTACT TIP CHR. ZIRC .035"
- MW140.0313 CONTACT TIP M8 .040"
- MW140.0442 CONTACT TIP .045
- MW140.0445 CONTACT TIP CHR ZIRC .045"
- MW140.0533 CONTACT TIP M8 .052"
- MW140.0587 CONTACT TIP M8 .062"
- MW142.0003 CONTACT TIP HOLDER M6, 24A
- MW142.0020 CONTACT TIP HOLDER M8, 36A
- MW142.0022 CONTACT TIP HOLDER M8 501W
- MW145.0075 NOZZLE 1/2" CONICAL
- MW145.0080 NOZZLE, CONICAL 24A
- MW145.0089 ROBOT NOZZLE, CONICAL
- MW145.0132 NOZZLE, CONICAL SMALL 501W

Parts Suitable for ESAB

- MW17983 TIP ADAPTOR FOR 999452
- MW19N18ZR 1/8" SUB ARC TIP
- MW19N964ZR SUB ARC TIP 9/64" CUCRZR

Parts Suitable for Miller

- MW000-067 .030 CONTACT TIP
- MW000-068 .035 CONTACT TIP

- MW000-069 .045 CONTACT TIP
- MW087-299 .023-.025 CONTACT TIP
- MW135424 CONTACT TIP .047 ALUMINUM
- MW135425 CONTACT TIP .062 ALUMINUM
- MW135430 CONTACT TIP .035 ALUMINUM
- MW169715 NOZZLE 1/2" FLUSH
- MW169716 TIP ADAPTOR
- MW169724 NOZZLE 1/2", 1/8" RECESSED
- MW169725 NOZZLE 5/8", 1/8" RECESSED
- MW169726 5/8" NOZZLE, FLUSH
- MW169728 TIP ADAPTOR
- MW169729 NOZZLE ADAPTOR

Parts Suitable for Tregaskiss

- MW401-4-38 STANDARD NOZZLE 3/8"
- MW401-4-50 STANDARD NOZZLE 1/2"
- MW401-4-62 STANDARD NOZZLE 5/8"
- MW401-4-75 STANDARD NOZZLE 3/4"
- MW401-5-50 1/2" HD NOZZLE 1/4" RECESS TIP
- MW401-5-62 5/8" HD NOZZLE 1/4" RECESS TIP
- MW401-5-75 3/4" HD NOZZLE 1/4" RECESS TIP
- MW401-6-62 HD NOZZLE 5/8"
- MW401-6-75 HD NOZZLE 3/4"
- MW401-7-62 HD NOZZLE 5/8" 1/4 RECESS
- MW401-7-87 NOZZLE 7/8. 1/4" TIP RECESS BR
- MW402-3 NOZZLE RETAINER
- MW402-5 H.D. SHOCK WASHER
- MW403-30 CONTACT TIP .030
- MW403-35 CONTACT TIP .035
- MW403-45 CONTACT TIP .045
- MW403-52 CONTACT TIP .052
- MW403-116 CONTACT TIP 1/16"
- MW403-1-30 HD CONTACT TIP .030"
- MW403-1-35 HD CONTACT TIP .035"
- MW403-1-40 HD CONTACT TIP .040"
- MW403-1-45 HD CONTACT TIP .045"
- MW403-1-52 HD CONTACT TIP .052"
- MW403-1-116 HD CONTACT TIP 1/16"
- MW403-1-564 HD CONTACT TIP 5/64"
- MW403-1-332 HD CONTACT TIP 3/32"
- MW403-2-30 TAPERED TIP .030"
- MW403-2-35 TAPERED TIP .035"
- MW403-2-45 TAPERED TIP .045"
- MW403-2-52 TAPERED TIP .052"
- MW403-3-116 HD TAPERED TIP 1/16"
- MW403-3-35 HD TAPERED TIP .035"
- MW403-3-45 HD TAPERED TIP .045"
- MW404-1 HD TIP GAS DIFFUSER
- MW404-3 CONTACT TIP HOLDER
- MW405-60 GOOSENECK 400A 60"
- MW411-1 SWITCH
- MW411-2 TRIGGER SWITCH ASSY
- MW412-1 LEAD SWITCH
- MW415-116-15 LINER 15' .045-1/16"
- MW415-116-25 LINER 25' .045-1/16"
- MW415-332-15 LINER 15' 3/32"
- MW415-35-15 LINER 15' .035

Parts Suitable for Tweco

- MW11-23 CONTACT TIP .023"
- MW11-30 CONTACT TIP .030"
- MW11-35 CONTACT TIP .035"
- MW11-40 CONTACT TIP .040"
- MW11-45 CONTACT TIP .045"
- MW11T-23 TAPERED CONTACT TIP .023"
- MW11T-35 TAPERED CONTACT TIP .035"
- MW14-116 CONTACT TIP 1/16"
- MW14-30 CONTACT TIP .030"
- MW14-35 CONTACT TIP .035"
- MW14-45 CONTACT TIP .045"
- MW14-52 CONTACT TIP .052"
- MW14H-116 CONTACT TIP 1/16"
- MW14H-35 CONTACT TIP .035"
- MW14H-40 CONTACT TIP .040"
- MW14H-45 CONTACT TIP .045"

- MW14H-52 CONTACT TIP .052"
- MW14H-564 CONTACT TIP 5/64"
- MW14T-35 TAPERED CONTACT TIP .035"
- MW14T-45 TAPERED CONTACT TIP .045"
- MW15H-116 CONTACT TIP 1/16"
- MW15H-332 CONTACT TIP 3/32"
- MW15H-45 CONTACT TIP .045"
- MW15HFC-116 CONTACT TIP 1/16"
- MW16S-35 CONTACT TIP .035"
- MW21-50 NOZZLE 1/2"
- MW21-50F NOZZLE 1/2"
- MW21-62 NOZZLE 5/8"
- MW22-37SS NOZZLE 3/8"
- MW22-50 NOZZLE 1/2"
- MW22-62 NOZZLE 5/8"
- MW23-50 NOZZLE 1/2"
- MW23-50F NOZZLE 1/2"
- MW23-62 NOZZLE 5/8"
- MW23T-37 TAPERED NOZZLE 3/8"
- MW23T-37F TAPERED NOZZLE 3/8"
- MW24A-50 ADJUSTABLE NOZZLE 1/2"
- MW24A-62 ADJUSTABLE NOZZLE 5/8"
- MW24AH-62 HEAVY DUTY NOZZLE 5/8"
- MW24CT-50S NOZZLE 1/2"
- MW24CT-62F NOZZLE 5/8"
- MW24CT-62S NOZZLE 5/8"
- MW24CT-75S NOZZLE 3/4"
- MW25CT-62 NOZZLE 5/8"
- MW32 INSULATOR
- MW34A INSULATOR
- MW34CT INSULATOR
- MW35-50 GAS DIFFUSER
- MW35CT GAS DIFFUSER
- MW42-3035-15 15' CONDUIT - .030-.035"
- MW42N-354515 15' CONDUIT - .035-3/64" ALUMINUM
- MW44-116-15 15' WIRE CONDUIT 1/16"
- MW44-116-25 25' WIRE CONDUIT 1/16"
- MW44-3545-15 15' WIRE CONDUIT .035-.045"
- MW44N-354515 15' CONDUIT - .035-3/64" ALUMINUM
- MW45-116-15 15' WIRE CONDUIT 1/16"
- MW45-3545-15 15' WIRE CONDUIT .035-.045"
- MW52 GAS DIFFUSER
- MW52FN GAS DIFFUSER
- MW54A GAS DIFFUSER
- MW55H GAS DIFFUSER
- MW62A-45 CONDUCTOR TUBE 45 DEGREE
- MW62A-60 CONDUCTOR TUBE 60 DEGREE
- MW63-45 CONDUCTOR TUBE 45 DEGREE
- MW63-60 CONDUCTOR TUBE 60 DEGREE
- MW63-80 CONDUCTOR TUBE 60 DEGREE
- MW64A-60 CONDUCTOR TUBE 60 DEGREE
- Mw92 TRIGGER SWITCH ASSEMBLY





AIR-ACETYLENE EQUIPMENT
 "SCREW-IN STYLE"

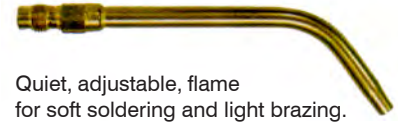
Feather Flame® Kits and Tips



These kits include our most economically priced air-acetylene tips. Their design makes them inexpensive while still producing excellent flame characteristics.

KA-1H

Kits include UL listed regulator and hose.



Quiet, adjustable, flame for soft soldering and light brazing.

Part No.	Tip No.	Reg. Ftg.	Part No.	Flame Dia.	Soft Solder
KA-1H	BA-3	"B" Cylinder	BA-1	1/16"	1/16"-1/8"
KA-2H	BA-3	"MC" Cylinder	BA-2	1/8"	1/8"-1/4"
KA-31*	BA-2, BA-3, BA-4	"B" Cylinder	BA-3	3/16"	1/4"-1/2"
KA-32*	BA-2, BA-3, BA-4	"MC" Cylinder	BA-4	1/4"	1/2"-1"
KA-37H*	BA-4	"B" Cylinder	BA-5	5/16"	1"-1 1/2"
KA-38H*	BA-4	"MC" Cylinder	BA-6	7/16"	2"-4"

Contents: HA3-12 hose, regulator, AA-1 handle, MP-1 lighter and MA-2 wrench.

* These kits do not include lighter or key wrench

TARGET® Flame Kits and Tips



Kits feature the screw-in style Target tips which are known for their durability and very high flame temperature at an economical price.

KA-3H

Kits include UL listed regulator and hose.



Very hot adjustable flame for fast soldering and brazing.

Part No.	Tip No.	Reg. Ftg.	Part No.	Flame Dia.	Soft Solder
KA-3H	BA-10A	"B" Cylinder	BA-9A	1/4"	Up to 1"
KA-4H	BA-10A	"MC" Cylinder	BA-10A	3/8"	Up to 2 1/2"
KA-7H	BA-9A, BA-12A	"B" Cylinder	BA-12A	1/2"	Up to 4"
KA-8H	BA-9A, BA-12A	"MC" Cylinder			

Contents: HA3-12 hose, regulator, AA-1 handle, MP-1 lighter and MA-2 wrench.

Goss torches, regulators and accessories are known for having the highest quality, value and durability in the industry.

Experience

Since 1940 Goss Inc. has been serving industry throughout the country and abroad with a full range of flame tools and accessories. Our reputation for quality, high performance products, excellent service and efficient distribution has made Goss a manufacturer that customers can depend on.

Goss Products

Goss offers a wide variety of torches and accessories to fit any contractor's need. Our high quality Oxy-Fuel, Air-Acetylene, Air-Propane, Air-Propylene (MAP-Pro) and Nitrogen equipment is individually tested and engineered for performance. A unique feature to Goss Air-Acetylene and Air-Propane tips is their one of a kind flame adjustability. We also provide high quality replacement cutting, welding, and heating tips for popular torches.

Quality & Durability

In an independent 3rd party torch test reported by Plumbing & Mechanical Magazine, Goss torches and equipment were compared to other leading torches on the market. They concluded that, "The entire GOSS line proved to be the most indestructible."





AIR-ACETYLENE EQUIPMENT
"SNAP-IN STYLE"

TARGET® Kits and Tips



Kits feature the very hot, compact, adjustable Target Tips for professional soldering and brazing applications. Kits also include a quick disconnect handle, UL listed regulator, hose and accessories.

KX-3B

Part No.	Tip No.	Regulator Ftg.
KX-3B	GA-3, GA-11	"B" Cylinder
KX-4B	GA-5, GA-14	"B" Cylinder
KX-5B	GA-5	"B" Cylinder
KX-5MC	GA-5	"MC" Cylinder
KX-6MC	GA-3, GA-8	"MC" Cylinder
KX-7B	GA-8	"B" Cylinder

Kit contents: HA3-12 hose, GG-4 Torch, Tip(s) and Regulator



TARGET® Tips

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

Part No.	Flame Dia.	Soft Solder	Silver Solder
GA-3	1/4"	1/4"-1"	1/8"-1/2"
GA-5	5/16"	3/4"-1 1/2"	1/4"-3/4"
GA-8	3/8"	1"-2 1/2"	1/2"-1"
GA-11	7/16"	1 1/2"-3 1/4"	3/4"-1 1/2"
GA-14	1/2"	2"-4"	1"-2"
GA-32	3/4"	3"-6"	1 1/2"-4"

EZE-LITE™ Instant Ignition Kits and Tips



Kits feature EZE-Lite push button spark ignition tips with swirl action flame. Also featured is the quick disconnect handle, durable regulator and hose.

KX-10B

Part No.	Tip No.	Regulator Ftg.
KX-10B	GA-5L	"B" Cylinder
KX-10MC	GA-5L	"MC" Cylinder
KX-15B	GA-8L	"B" Cylinder
KX-15MC	GA-8L	"MC" Cylinder

Kit contents: HA3-12 hose, GG-4 Torch, Tip(s) and Regulator



EZE-Lite™ Tips

- Tip ignites with the push of a button.
- Interchangeable with other quick disconnect style tips.
- Removable / cleanable filter and orifice.
- Tips fit GG-4 handle.

Part No.	Flame Dia.	Soft Solder	Silver Solder
GA-3L	1/4"	Up to 1/2"	Up to 1/2"
GA-5L	5/16"	Up to 1 1/2"	Up to 3/4"
GA-8L	3/8"	Up to 2"	Up to 1"
GA-14L	1/2"	Up to 4"	Up to 2"



AIR-ACETYLENE EQUIPMENT

Torch Handles

ACET-O-LITE® (screw-in)

AA-1 has the adjustment valve in the front for single hand operation, the AA-3 has the valve in the rear for fingertip control. Needle valve design enables very fine flame adjustments. These torches will keep your tips burning efficiently in drafts, winds, and adverse conditions. Both torches are made with quality brass, have very durable handles and use standard 3/8-24 LH "A" size hose fittings.

Goss Acet-O-Lite torches work with all "BA" style tips listed on page 5.

AA-1



AA-3



TARGET TORCH® (snap-in)

This handle has a quick disconnect fitting to rapidly change tips. Comfortable grooved handle is made of very durable materials. Uses 3/8-24LH "A" hose fittings.

The Target Torch handle will work with all "GA" style tips listed on page 6.

GG-4

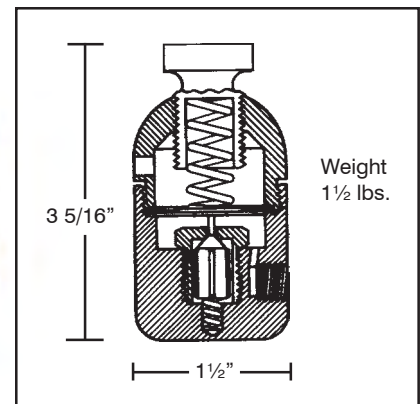


Acetylene Regulators

These UL Listed regulators, manufactured of solid brass, are made for rugged use. They have a specially designed conical seat and a neoprene diaphragm. The inlets have filters to prevent dirt from entering the regulator.

EA-1G B cyl. connection
"A" hose fitting 3/8-24 L.H.

EA-2G MC cyl. connection
"A" hose fitting 3/8-24 L.H.





AIR-ACETYLENE EQUIPMENT

Acetylene Hose

ACET-O-LITE®

Hose assemblies are made of quality 7/16" OD x 3/16" ID single ply fabric reinforced Grade R hose. It has a 200 PSI working pressure.



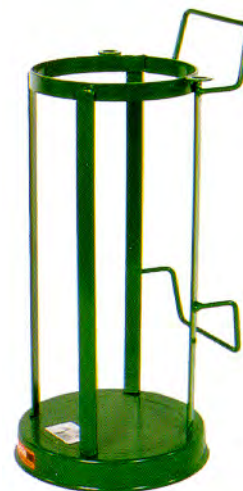
Part No.	Description
HA3-6	Hose 6 feet long with "A" connections
HA3-12	Hose 12 feet long with "A" connections
HA3-25	Hose 25 feet long with "A" connections

Acetylene Stands

Heavy Duty Steel Stand with Hose Rack, Support Base and Handle

C-800
for MC size acetylene cylinders

C-850
for B size acetylene cylinders



Soldering Irons

These irons are ideal for soldering light gauge sheet metal. The DA-1 has a pyramid copper point and the DA-2 has a chisel copper point.

Use with either model AA-1 or AA-3 torch handle.



DA-1

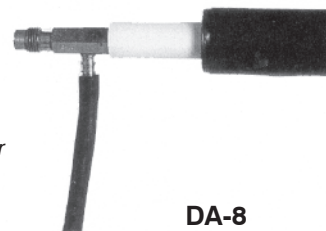


DA-2

Halide Leak Detector

A sensitive leak detector for refrigerant gas. The flame, when adjusted, will quickly change colour as the 24 inch search hose passes a leak.

For use with models AA-1 or AA-3 torches.



DA-8

SPLIT-FIRE TIPS

SCREW-IN



BA-TT



BA-GT

SCREW-IN design for the AA-1 or AA-3 handles. Dual flames for even distribution of heat.

SNAP-IN



GA-TT



GA-GT

SNAP-IN design used with GG-4 handle. Dual feather flame design for several applications.



AIR-PROPANE EQUIPMENT

"SCREW-IN STYLE"

Propane Kits with Pencil and Brush Tips



Kits contain a complete selection of high quality soldering and heating equipment.

KP-102

Kit No.	Tip No.
KP-102	BP-2
KP-105	BP-5



• Quiet, Adjustable Flame.

Tip No.	Flame	Diameter	Soft Solder	BTU's @ 40 psi
BP-1	Pencil	5/8"	to 1/2"	6,000
BP-2	Pencil	1"	to 1 1/2"	11,000
BP-3	Brush	7/8"	to 2"	14,000
BP-4	Brush	1 1/8"	to 3"	43,000
BP-5	Brush	1 3/4"	to 4"	57,000
BP-6	Brush	2 1/8"	to 5"	300,000

Kits include: AP-1 handle, EP-70G regulator, MP-1 lighter and HEF-10 hose and tip listed.

TARGET® Propane Kits and Tips



Kits feature the very hot, compact Target Tips. Kits also include a handle, UL listed regulator and accessories.

KP-115

Kit No.	Tip No.
KP-115	BP-15PM
KP-117	BP-17PM



• Hot Compact Flame.

• Economical Screw-In Design.

Tip No.	Flame Diameter	Soft Solder	Silver Solder
BP-13PM	7/16"	to 1"	1/2"
BP-15PM	1/2"	to 1 1/2"	5/8"
BP-17PM	3/4"	to 4"	2"

Kits include: AP-1 handle, EP-70G regulator, MP-1 lighter and HEF-10 hose and tip listed.

Torch Handle

Comfortable handle design reduces operator fatigue. Up front valve offers single handed operation.

This handle accepts all screw-in tips shown on this page.

Uses HEF hose on page 15. 9/16 L.H., "B" hose fitting.

AP-1





AIR-PROPANE EQUIPMENT

"SNAP-IN STYLE"

TARGET® Propane Kits and Tips



Kits feature the very hot, compact Target Tips for professional soldering and brazing applications. Kits also include a quick disconnect handle, UL listed regulator and accessories. Choose from a wide selection of kits.

Kits include: GH-4 handle, HEF-12 hose, EP-70G regulator and torch tip(s).

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



Kit No.	Tip No.
KLP-2	GT-3, GT-5
KLP-4	GT-4
KLP-4L*	GT-4L

*Pictured above

Tip No.	Flame Diameter	Soft Solder	Silver Solder
GT-3	7/16"	Up to 1"	Up to 1/2"
GT-4	1/2"	Up to 1 1/2"	Up to 5/8"
GT-4L	1/2"	Up to 1 1/2"	Up to 3/4"
GT-5	3/4"	Up to 2 1/2"	Up to 1 1/4"

Torch Handle

Ribbed handle provides positive grip. Precision machined needle valve allows greater range of flame control. Utilizes quick disconnect for fast tip change over.

For use with tips shown above.

Uses HEF hose on page 15. 9/16-L.H., "B" hose fitting.

GH-4



Heavy Duty Hand Torch for Disposable Cylinders

GP-360R

Features:

- Hot turbine flame.
- Heavy duty brass regulator.
- Used with either propane or Mapp® gas.
- Stainless steel tip ends.

360° Swivel Tip Rotates to any position for hard to reach areas.

GP-360 Torch Accessories

EP-20BR
Regulator for disposable cylinder with (B) hose outlet connection.



Cylinder not included.



TORCHHOLDER



MP-100

KEEPS TORCH AND TANK UPRIGHT

PROTECTS HANDS FROM HOT SOLDER

PORTABLE AND SAFE STAND

Heat Barrier



G-9000

Goss Heat-Barrier™ is a non-toxic, freeze tolerant material. Ideal for HVAC, plumbing, welding and industrial. Protects against heat from flame, mig or tig torches.

- Reusable
- Use to protect valves and many other components from heat damage
- Molds like clay
- No drips, no mess



AIR-PROPANE / MAPP® EQUIPMENT

Hand Torches for Disposable Cylinders

This torch is designed for durability at an economical price. It has the quality features that you would expect in a Goss torch.

Features:

- Used only with propane gas.
- Economical and practical for light duty jobs.
- Flame control valve gives precise adjustments.
- Solid brass construction.
- More durable than most torches of this type.
- No plastic or anodized aluminum parts.

**GP-6
Economy Torch**
Propane Only



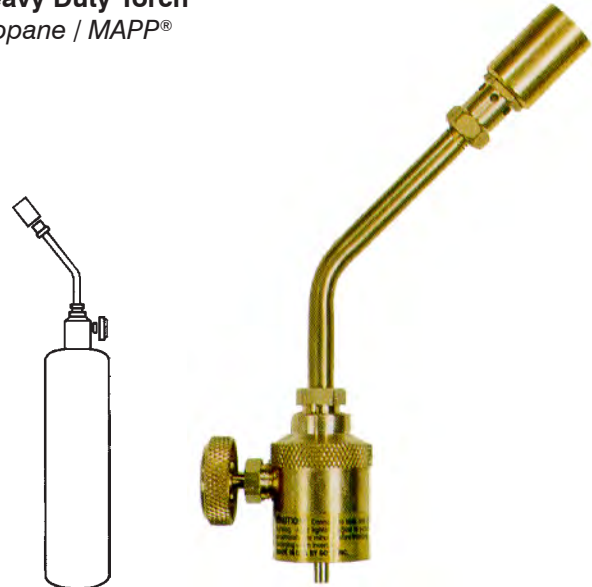
From Goss, “the innovators of the hand torch”, comes the dependable GP-9 Torch. Made of the finest brass materials, this torch has soft soldering capabilities and is a popular choice for plumbing, heating, electrical and many other uses.

FEATURES:

- A tip that can be used with propane or Mapp gas without changing the orifice.
- Easily adjusted to three different flames without changing tip ends.
- Attractively packaged for pegboard display.
- Torch can be used in any position after tip end has preheated.

Cylinder not included.

**GP-9
Heavy Duty Torch**
Propane / MAPP®



GOSS also offers a full line of roofing torches.

Call our order desk to request more information.





AIR-PROPANE EQUIPMENT

ProFlame® Torch Kits



Heavy duty kits designed for rugged use anywhere large volumes of heat are required. KP-201MA shown.

Kits

KP-201: Includes AP-25 torch, EP-80G regulator, HEF-10 hose and MP-1 lighter.

KP-201M: Same as above with BP-66 piezoelectric ignitor tip.

KP-201A: Includes AP-25 torch, IP-2 flow adaptor, HEF-10 hose and MP-1 lighter.

KP-201MA: Same as above with BP-66 piezoelectric ignitor tip.

Regulators and flow adaptors are UL listed.

CAUTION

This equipment is an unvented device not designed for use indoors and **must not** be used in an enclosed area. **Do not** leave equipment operating unattended.

Follow operating instructions included with this equipment. Use in accordance with all Federal, Provincial and local regulations.

ProFlame® Torches

This equipment can be used for weed burning, drying, heating, melting and other applications requiring large volumes of outdoor heat. Each uses vapour propane fuel and has a durable handle with rear on/off control valve.

They are used by contractors and farmers as well as road, railway and industrial maintenance crews.

See regulators and hoses on page 15.

Torches With Steel Burner

AP-6



Has two grips for easy handling.

AP-10A



Propane or Natural Gas

AP-25

AP-25M Includes BP-66 Piezoelectric Ignitor Tip

AP-25N For Natural Gas



Torch With Cast Iron Burner

AP-14



Blue-Jet Torch

Torch With Compressed Air Nozzle

AP-27



Propane burner with a separate air nozzle that blows debris and moisture from area to be repaired. Ideal for road work where cracks have to be cleaned out and dried.

Torch contains two separate valves to control heat and compressed air. Clean and dry in one easy step.

Torch No.	Total Length (inches)	Weight (lbs.)	Approx. BTUs MAX	Approx. Gas Usage at 70 psi (lb./hr.)	Tip	Tip Diameter (inches)
AP-6/AP-10A	38½	3¼	500,000	20	BP-6TE	3
AP-14	27	5½	500,000	20	BP-10	2 3/8
AP-25	31	1¾	500,000	20	BP-6TE	2 1/8
AP-27	38	7	500,000	20	BP-6TE	2 1/8



AIR-PROPANE EQUIPMENT

READY-FLAME Combination Torches For Roofing, Heating and Heat Shrinking

AP-54

Designed for continuous or intermittent use. At the squeeze of a lever, operator can go from pilot flame to full-brush flame as needed. Has adjustable pilot valve.

AP-99








Has same quality construction and versatile features as all Ready-Flame Torches but without pilot valve and lever flame control.

Match tips and extensions below for your needs. Or see complete kits.



Tip Ends for Extensions

Engineered to provide a variety of heat and flame characteristics when combined with the handles and extensions on this page.

Tip	Diameter (inches)	Approx. BTUs at 40 psi	Type Flame
BP-2TE 	1	11,000	Pencil*
BP-3TE 	7/8	14,000	Brush*
BP-4TE 	1 1/8	43,000	Brush*
BP-5TE 	1 3/8	57,000	Brush*
BP-6TE 	2 1/8	300,000	Brush**
BP-66  <i>Piezoelectric ignitor tip.</i>	2 1/8	300,000	Brush**
BP-8TE 	3	300,000	Brush**

* For propane or Mapp® gas.

** For propane or natural gas.

Brass Extensions for Torches



Screws onto AP-54 or AP-99. See torch stand MP-10.

Extension	Description (inches)
EX-4B	4" Bent
EX-12B	12" Bent
EX-12S	12" Straight
EX-18B	18" Bent
EX-18S	18" Straight
EX-18DB	18" Double Head Bent
EX-18DS	18" Double Head Straight
EX-30B	30" Bent

Heat Shrink Tip

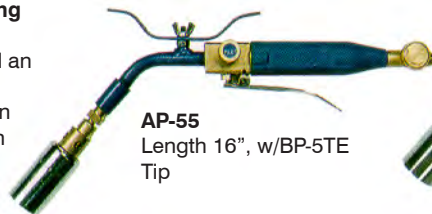
Screws onto both AP-54 or AP-99 torch. This tip has a short, wide soft flame used for heat shrinking plastics.



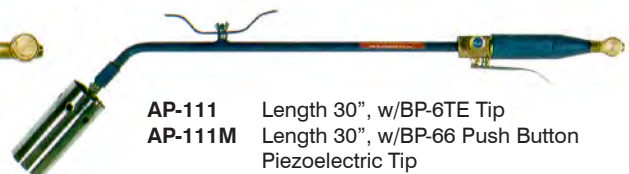
Assembled Steel Extension Torches

Used for applications requiring large volumes of heat.

Each has a steel extension and an adjustable pilot valve. At the squeeze of a lever, operator can go from pilot flame to full-brush flame.



AP-55
Length 16", w/BP-5TE Tip



AP-111
AP-111M Length 30", w/BP-6TE Tip
Length 30", w/BP-66 Push Button Piezoelectric Tip

Steel Extension Kits

Kit No. KP-155H

Contents: AP-55 torch, MP-1 lighter, HEF-20 Hose, EP-80G regulator.

Kit No. KP-318M-H

Contents: AP-111M piezo ignition torch, HEF-25 hose, EP-80G regulator.

Kit No. KP-318-H

Contents: AP-111 torch, MP-1 lighter, HEF-25 hose, EP-80G regulator.





AIR-PROPANE EQUIPMENT

Outdoor Furnaces

FP-540



Floor Furnace*

A well-constructed lead melting furnace with brush flame burner.

BTUs	Approx. 43,200
Gas Usage	Approx. 2lb./hr
Height	8 inches
Weight	8 lb
Diameter	8 1/2 inches

* For Propane Only

- Used For:**
- Lead Melting
 - Outdoor Cooker
 - Clam Bakes
 - Corn Roast
 - Deep Frying
- Use furnaces with EP-70G or EP-80G regulator

CAUTION

This equipment is an unvented device not designed for use indoors and **must not** be used in an enclosed area.

Do not leave equipment operating unattended.

Follow operating instructions included with this equipment.

Use in accordance with all Federal, Provincial and local regulations.

FP-5000



Utility Furnace*

A lead melting furnace with soft flame burner used by utility companies.

BTUs	Approx. 43,200
Gas Usage	Approx. 2 lb/hr
Height	10 inches
Weight	9 3/4 lb
Diameter	8 1/2 inches

Wind Shields

(For All Furnaces Above)



FP-S1
Straight wind shield.
Diameter: 7 5/8 inches



FP-S2
Spun wind shield.
Diameter: 9 1/8 inches

Lead Pot and Ladle

MP-3

7 inch diameter cast iron lead pot. Holds 50 lb of lead.



MP-5

3 inch diameter cast iron ladle.



Soldering Irons

Features:

- Adjustable pencil point flame
- Durable steel construction
- Replaceable copper ends
- Removable stand



- DP-9** Complete soldering iron with small pyramid copper
- DP-9A** Small pyramid copper only - 3/4 inch diameter
- DP-10** Complete soldering iron with small chisel copper
- DP-10A** Small chisel copper only - 3/4 inch diameter
- DP-11** Complete soldering iron with large pyramid copper
- DP-11A** Large pyramid copper only - 1 1/4 inch diameter
- DP-12** Complete soldering iron with large chisel copper
- DP-12A** Large chisel copper only - 1 1/4 inch diameter



Kit KP-25

- Kit includes:
- DP-11 soldering iron
 - DP-9A copper tip
 - HEF-10 LP hose
 - EP-80G regulator
 - MP-1 lighter



AIR-PROPANE EQUIPMENT

Hose

Vapour Propane Gas Hose



Quality flexible hose utilizes the standard 9/16 - 18 LH hose fittings.

Working Pressure: 350 PSI
Outside Diameter: 9/16"
Inside Diameter: 1/4"

Part No.	Length (ft.)
HEF-6	6
HEF-10	10
HEF-12	12
HEF-20	20
HEF-35	35
HEF-50	50

Not for use with Natural Gas

Propane Regulators

High Pressure
 Use only with vapour withdrawal cylinders.



EP-70G

All brass regulators used with propane torches and furnaces.

Adjustable pressure from 5 to 60 PSI. UL Listed with POL inlet spud and nut, 1/4" NPT openings and 9/16 - 18 LH hose outlet.

EP-70G
 Has 0 to 60 PSI outlet pressure gauge for propane gas.

EP-80G
 Has 0 to 70 PSI outlet pressure without gauge for propane gas.

XP-234
 Regulator with dust cap and heavy duty inlet nut for propane gas.

Low Pressure
 For vapour withdrawal cylinders.



This regulator has approx. 6-7 oz. or 11" water column outlet pressure and is for applications requiring low gas pressure. UL Listed with 1/4" NPT inlet and 3/8" NPT outlet. **Do not use with any Goss LP torch or furnace equipment.**

- EP-60-0 Body only, no fittings
- EP-60-1 POL inlet, 3/8" flare outlet
- EP-60-2 POL inlet, 1/4" flare outlet
- EP-60-3 POL inlet, LH hose outlet
- EP-60-4 T-Block inlet, 3/8" flare outlet
- EP-60-5 POL inlet less outlet

Low Pressure with OPD Tank Connection
 For vapour withdrawal cylinders.



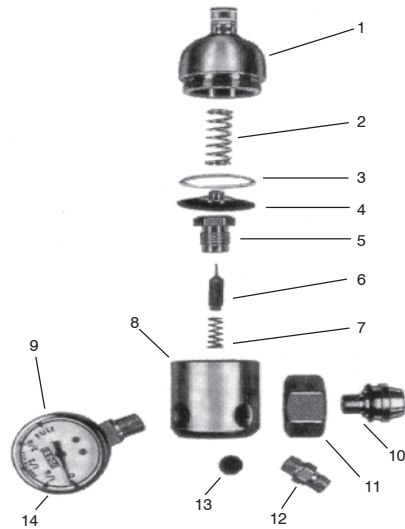
Same features as the EP-60 regulators except it utilizes an OPD cylinder connection.

- EP-90-0 Body only, no fittings
- EP-90-1 Type 1 inlet, 3/8" flare outlet
- EP-90-2 Type 1 inlet, 1/4" flare outlet
- EP-90-3 Type 1 inlet, LH hose outlet
- EP-90-5 Type 1 inlet, less outlet



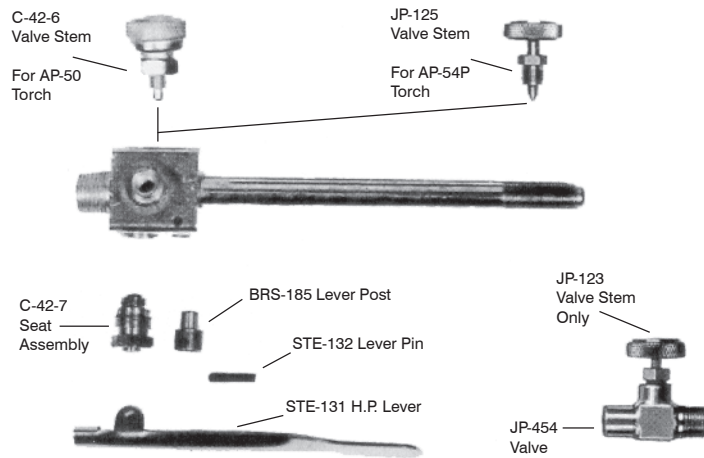
PARTS LIST

EA-G & EP-G Regulators



AP Torches

AP-50 / AP-54P



Regulators	EA-1G Acet.	EA-2G Acet.	EA-3G Acet.	EA-4G Acet.	EP-7G	EP-8G
					EP-70G	EP-80G
1. Bonnet Assembly	BRS-688	BRS-688	BRS-688	BRS-688	BRS-688	BRS-688
2. Range Spring	STE-143	STE-143	STE-143	STE-143	STE-286	STE-144
3. Diaphragm Gasket	PLA-104	PLA-104	PLA-104	PLA-104	PLA-104	PLA-104
4. Diaphragm Assembly	RUB-116	RUB-116	RUB-116	RUB-116	RUB-116	RUB-116
5. Seat Nut	BRS-282	BRS-282	BRS-282	BRS-282	BRS-282	BRS-282
6. Seat	BRS-411	BRS-411	BRS-411	BRS-411	BRS-411	BRS-411
7. Seat Spring	STE-170	STE-170	STE-170	STE-170	STE-170	STE-170
8. Body	BRS-273A	BRS-273	BRS-273A	BRS-273	BRS-194 BRS-194L	BRS-682 BRS-628L
9. Gauge	MA-80-16	MA-80-16	N/A	N/A	MP-700 MP-673	N/A
10. Inlet Stem	BRS-359	BRS-361	BRS-359	BRS-361	BRS-343 BRS-355	BRS-343 BRS-355
11. Inlet Nut	BRS-357	BRS-360	BRS-357	BRS-360	BRS-353	BRS-353
12. Outlets	BRS-382	BRS-382	BRS-382	BRS-382	BRS-328 BRS-331	BRS-328 BRS-331
13. Filter	STE-172	STE-172	STE-172	STE-172	STE-172 STE-322	STE-172 STE-322
14. Gauge Crystal	GC-3				GC-7	

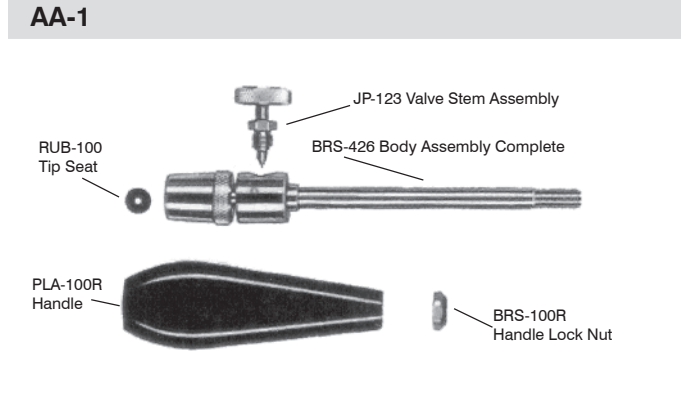
Tip orifices

Tip	Orifice	Tip	Orifice	Tip	Orifice
BA-1	BRS-140	BP-2TE	BRS-123	GA-8	BRS-126
BA-2	BRS-142	BP-3TE	BRS-126	GA-11	BRS-881
BA-3	BRS-147	BP-4TE	BRS-128	GA-14	BRS-526
BA-4	BRS-150	BP-5TE	BRS-129	GA-32	BRS-517
BA-5	BRS-153	BP-6TE	BRS-520L	GA-36	BRS-453
BA-6	BRS-156	BP-8TE	BRS-520L	GA-38	BRS-454
BA-9A	BRS-464	BP-13PM	BRS-303	GA-40	BRS-455
BA-10A	BRS-126	BP-15PM	BRS-464	GA-3	BRS-303
BA-12A	BRS-526	BP-17PM	BRS-881	GT-4	BRS-123
BA-20	BRS-726	BP-66	BRS-732	GT-4L	BRS-123
BA-25	BRS-727	GA-3	BRS-464	GT-5	BRS-881
BA-30	BRS-728	GA-5	BRS-123	GP-360R, GP-360L	BRS-480

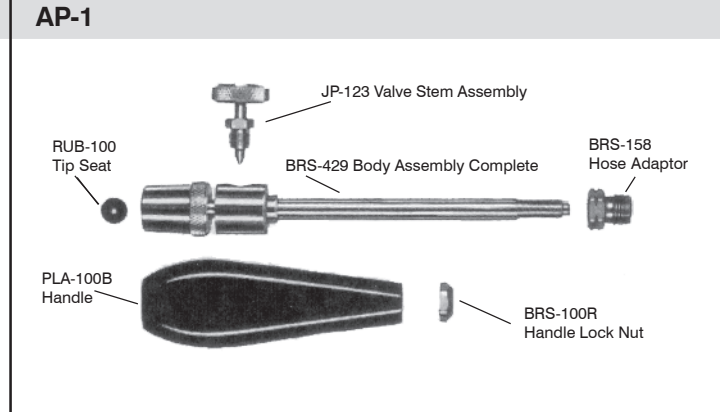


PARTS LIST

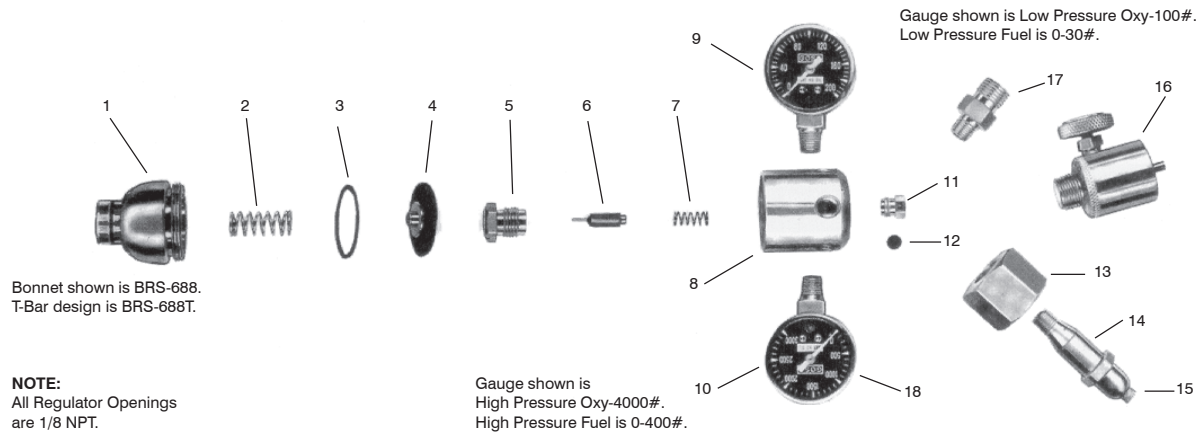
AA Torches



AP Torches



E-25 Regulators











Regulators	EA-25-C EA-25-CA Fuel	EA-25-B EA-25-BA Fuel	EA-25-DA EA-25-D Fuel	EA-25-M EA-25-MA Fuel	EA-25 EA-25-A Fuel	EO-25 EO-25-A Oxygen
1. Bonnet Assembly	BRS-688T	BRS-688T	BRS-688T	BRS-688T	BRS-688T	BRS-688T
2. Range Spring	STE-143	STE-143	STE-143	STE-143	STE-143	STE-144
3. Diaphragm Gasket	PLA-104	PLA-104	PLA-104	PLA-104	PLA-104	PLA-104
4. Diaphragm Assembly	RUB-116	RUB-116	RUB-116	RUB-116	RUB-116	RUB-116
5. Seat Nut	BRS-282	BRS-282	BRS-282	BRS-282	BRS-282	BRS-282-0
6. Seat	BRS-411	BRS-411	BRS-411	BRS-411	BRS-411	BRS-411
7. Seat Spring	STE-170	STE-170	STE-170	STE-170	STE-170	STE-170
8. Body	BRS-566	BRS-566	BRS-567	BRS-566	BRS-566	BRS-296
9. Gauge	Low Pressure 1 1/2" dia./ 2" dia. STE-146	STE-146	STE-146	STE-146	STE-146	STE-148
	High Pressure 1 1/2" dia./ 2" dia. STE-145	STE-331	STE-331	STE-331	STE-331	STE-357
10. Gauge	Low Pressure 1 1/2" dia./ 2" dia. STE-145	STE-145	STE-145	STE-145	STE-145	STE-147
	High Pressure 1 1/2" dia./ 2" dia. STE-332	STE-332	STE-332	STE-332	STE-332	STE-334
11. Safety Assembly	N/A	N/A	N/A	N/A	N/A	BRS-414
12. Rupture Disc	N/A	N/A	N/A	N/A	N/A	BRS-291
13. Inlet Stem	BRS-349	BRS-357	BRS-360	BRS-360	BRS-352	BRS-346
14. Stem	BRS-345	BRS-359	BRS-361	BRS-361	BRS-343	BRS-344
15. Filter	STE-172	STE-172	STE-172	STE-172	STE-172	STE-367
16. Inlet Valve	N/A	N/A	N/A	N/A	N/A	N/A
17. Outlet	3/8"-24 A Size	BRS-382	BRS-382	BRS-382	BRS-382	BRS-381
	9/16"-18 B Size	BRS-328	BRS-328	BRS-328	BRS-328	BRS-329
18. Gauge Crystal	1 1/2" dia.	GC-10				
	2" dia.	GC-7				





AIRCO/CONCOA Style REPLACEMENT TIPS











Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
A-FH	MWA-FH		138	MW138	
MFG NO.	SIZE	HIGH SPEED MAPP-OXYGEN CUTTING	MFG NO.	SIZE	GENERAL ACETYLENE-OXYGEN CUTTING
0816-2368	68	 <p>Two piece tip for hand or machine cutting. Fits 4700 machine torch. Stinger 345 substitute.</p>	854-3899	00	 <p>Light preheat. For hand and machine cutting. Fine contour cutting of plate. Fits Airco 3790, 4690, 4700, 4800, 5700 5800, 1100, 3000, 9000, 9500 torches.</p>
0816-2365	65		854-3800	0	
0816-2360	60		854-3801	1	
0816-2356	56		854-3802	2	
0816-2354	54		854-3803	3	
0816-2352	52		854-3804	4	
0816-2349	49		854-3806	6	
0816-2344	44		854-3808	8	
0816-2338	38				
A-FS	MWA-FS			144	
MFG NO.	SIZE	CUTTING TIP MAPP-OXYGEN	MFG NO.	SIZE	GENERAL ACETYLENE-OXYGEN CUTTING
0816-0072	72	 <p>Two piece tip, standard speed. Stinger 245 substitute.</p>	854-4499	00	 <p>Medium preheat. For hand or machine cutting. Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches.</p>
0816-0068	68		854-4400	0	
0816-0065	65		854-4401	1	
0816-0060	60		854-4402	2	
0816-0056	56		854-4403	3	
0816-0054	54		854-4404	4	
0816-0052	52		854-4405	5	
0816-0049	49		854-4406	6	
0816-0044	44		854-4407	7	
0816-0038	38		854-4408	8	
			854-4409	9	
			854-4410	10	
N/A	MWA-SP			164	
MFG NO.	SIZE	CUTTING TIP MAPP-OXYGEN	MFG NO.	SIZE	GENERAL ACETYLENE-OXYGEN CUTTING
0856-0068	68	 <p>Standard speed one piece cutting tip.</p>	854-6499	00	 <p>Very heavy preheat. For general cutting. Also for use in cutting cast iron and stainless steel. Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches.</p>
0856-0065	65		854-6400	0	
0856-0060	60		854-6401	1	
0856-0056	56		854-6402	2	
0856-0054	54		854-6403	3	
0856-0052	52		854-6404	4	
0856-0049	49		854-6405	5	
0856-0044	44		854-6406	6	
0856-0038	38		854-6407	7	
			854-6408	8	
			854-6409	9	
		854-6410	10		
124	N/A		183	MW183	
MFG NO.	SIZE	GENERAL ACETYLENE-OXYGEN CUTTING	MFG NO.	SIZE	GOUGING ACETYLENE-OXYGEN
854-2499	00	 <p>Light preheat. For clean surfaces, straight line and shape cutting. Fits Airco 3790, 4690, 4700, 4800, 5700 5800, 1100, 3000, 9000, 9500 torches.</p>	854-8306	6	 <p>Medium preheat for grooving, gouging and removing welds. Fits Airco 3700, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches.</p>
854-2400	0		854-8308	8	
854-2401	1		854-8310	10	
854-2402	2		854-8312	12	
854-2403	3				



**AIRCO/CONCOA Style
REPLACEMENT TIPS**



Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
N/A	MW195	<p>BEVEL CUTTING ACETYLENE-OXYGEN</p>  <p>Medium preheat. One side milled flat. For machine cutting 45° bevel with torch in perpendicular position or for hand cutting rivet heads. Fits Airco 3700,4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches.</p>	263	MW263	<p>GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS</p>  <p>Two piece tip for hand cutting. Medium preheat. Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000,9000,9500, 2900 torches. Stinger 275 substitute.</p>
MFG NO. 854-9501 854-9502 854-9503 854-9504 854-9505	SIZE 1 2 3 4 5		MFG NO. 813-2630 813-2631 813-2632 813-2633 813-2635 813-2637 813-2640	SIZE 0 1 2 3 5 7 10	
N/A	MW209F	<p>GENERAL CUTTING PROPANE -OXYGEN</p>  <p>Two piece tip for hand cutting. Fast preheat. Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches.</p>	275	N/A	<p>GENERAL CUTTING PROPANE OR - OXYGEN NATURAL GAS</p>  <p>Stinger style - two piece design. Hand or machine cutting.</p>
MFG NO.	SIZE 1 2 3 4 5 6 7 8 10		MFG NO. 813-2752 813-2753 813-2754	SIZE 2 3 4	
261	MW261	<p>GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS</p>  <p>Two piece tip for hand cutting. Heavy preheat. Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500, 2900 torches.</p>	98	N/A	<p>LONG FLAME ACETYLENE OR-OXYGEN MAPP GAS</p>  <p>For general welding and brazing. 3/8-20 thread. • Sizes not for use with Mapp gas.</p>
MFG NO. 813-2610 813-2611 813-2612 813-2613 813-2614 813-2615 813-2617 813-2618 813-2619	SIZE 00 0 1 2 3 4 5 6 7 8 10		MFG NO. 811-9820 811-9800 811-9801 811-9802 811-9803 811-9804 811-9805 811-9806 811-9807 811-9808	SIZE 00• 0• 1 2 3 4 5 6 7 8	
91	N/A	<p>LONG FLAME ACETYLENE OR-OXYGEN MAPP GAS</p>  <p>For medium and light welding and brazing. Fits Airco 300 and 400 series torches with mixer. • Sizes not for use with Mapp gas. 1/4-32 thread.</p>	919	N/A	<p>LONG FLAME ACETYLENE OR-OXYGEN MAPP GAS</p>  <p>Complete tip and mixer for light welding and brazing. Fits Airco 300 and 400 series torches.</p>
MFG NO. 810-9112 810-9111 810-9101 810-9102 810-9103 810-9104 810-9105	SIZE 00• 0• 1 2 3 4 5		MFG NO. 810-9191 810-9192	SIZE 1 2	




AIR PRODUCTS Style
REPLACEMENT PARTS



Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
121	MW121	<p>GENERAL ACETYLENE-OXYGEN CUTTING</p>  <p>Medium preheat. For hand or machine cutting. Fits Air Products 1100, 5200, 5300 torches. 7/16-20 thread.</p>	221	MW2290	<p>HEATING PROPANE OR-OXYGEN TIP NATURAL GAS</p>  <p>Tips have 1/2-25 threads.</p>
MFG NO. 4-121000 D-121001 5-121002 T-121003 H-121004 9-121005 Y-121006	SIZE 0 1 2 3 4 5 6		MFG NO. 6-4612 X-4613 N-4614 F-4615	SIZE 2 3 4 5	
231	N/A	<p>GENERAL PROPANE-OXYGEN CUTTING</p>  <p>Heavy preheat. Two piece tip for both hand and machine cutting. Fits Air Products 2200, 2300, 2400, 6200, 6300, 6500 torches.</p>	<p>Tips not shown in this catalogue may be available. Call or email with your tip needs. 1-800-265-5678 Sales@LencoCanada.com</p>		
MFG NO. 5-231001 T-231002	SIZE 1 2				









DOCKSON Style
REPLACEMENT TIPS

Goss No.	Maxweld No.	Product Information
C-6	N/A	
MFG NO. C6-0 C6-1 C6-2 C6-3 C6-4 C6-5	SIZE 0 1 2 3 4 5	<p>GENERAL ACETYLENE-OXYGEN CUTTING</p>  <p>Medium preheat, for general cutting operations.</p>



**HARRIS Style
REPLACEMENT TIPS**







Goss No.	Maxweld No.	Product Information		Goss No.	Maxweld No.	Product Information	
221	MW2290	HEATING TIP PROPANE OR -OXYGEN NATURAL GAS		6290-N	N/A	GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS	
MFG NO. 1800130 1800140 1800150 1800160 1800170	SIZE 1 2 3 4 5			1500990 1501000 1501010	SIZE 0 1 2 3 4		
		1/2-25 thread.				Light preheat, for general cutting. Two piece. Fits Harris 42-3, 49AF, 49F, 62-3, 85 torches.	
6290	MW6290	GENERAL CUTTING ACETYLENE-OXYGEN		6290-NFF	MW6290NFF	GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS	
MFG NO. 1500810 1500820 1500830 1500840 1500850 1500860 1500870	SIZE 000 00 0 1 2 3 4 5 6			1501020 1501030 1501040 1501050 1501060 1501070	SIZE 00 0 1 2 3 4 5 6		
		Medium preheat, general hand cutting. Fits Harris 42-3, 62-3, 72, 72A, 73, 73A 63-2, 85 torches.				Heavy preheat, general cutting. Two piece. Fits Harris 42-3, 49AF, 49F, 62-3, 63-2, 85 torches.	
6290-G	MW6290G	GOUGING ACETYLENE-OXYGEN		6290-NH	MW6290NH	HEAVY CUTTING PROPANE OR -OXYGEN NATURAL GAS	
MFG NO. 1500910 1500920 1500930	SIZE 1 2 3			1501120 1501130 1501140 1501190	SIZE 5 6 7 8		
		Fits Harris 42-3, 62-3, 72, 72A, 73, 73A, 85 torches.				For heavy cutting of plate. Two piece. Fits Harris 42-3, 49AF, 49F, 62-3, 85 torches.	
6290-GG	MW6290GG	GOUGING PROPANE OR -OXYGEN NATURAL GAS		6290-NX	MW6290NX	GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS	
MFG NO. 1500940 1500950 1900960	SIZE 1 2 3			1501200 1501210 1501220 1501230 1501240 1501250 1501260 1501270 1501280	SIZE 000 00 0 1 2 3 4 5 6		
		Fits Harris 42-3, 49AF, 49F, 62-3, 85 torches.				Medium preheat. For general cutting use. Fits Harris 42-3, 49AF, 49F, 62-3, 85 torches.	





**HARRIS Style
REPLACEMENT TIPS**



Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
6290-VVC	MW6290VVC	<p>HIGH SPEED PROPANE OR -OXYGEN NATURAL GAS</p>  <p>High speed tips, for use in machine cutting. Fits Harris 98-2 and 98-3 machine torches.</p>	23A90	MW23A90	<p>WELDING ACETYLENE-OXYGEN</p>  <p>Tip end only. For general welding. Fits Harris 18-3, 43-2, 63-2, 85 torches with mixer. 23/64-26 thread.</p>
<p>MFG NO.</p> <p>1501310 5/0</p> <p>1501320 4/0</p> <p>1501330 000</p> <p>1501340 00</p> <p>1501350 0</p> <p>1501360 0 1/2</p> <p>1501370 1</p> <p>1501380 1 1/2</p> <p>1501390 2</p> <p>1501400 2 1/2</p> <p>1501410 3</p> <p>1501420 4</p> <p>1501430 5</p>	<p>SIZE</p>		<p>MFG NO.</p> <p>1600840 0</p> <p>1600850 1</p> <p>1600860 2</p> <p>1600870 3</p> <p>1600880 4</p> <p>1600890 5</p> <p>1600900 6</p> <p>1600910 7</p> <p>1600920 8</p> <p>1600930 9</p> <p>1600940 10</p>	<p>SIZE</p>	
1390	N/A	<p>GENERAL WELDING ACETYLENE-OXYGEN</p>  <p>General welding, screw in type tip end only. 3/8-24 thread. For heating tip see MF-116.</p>	5090	N/A	<p>WELDING ACETYLENE-OXYGEN</p>  <p>Fits Harris 15-3, 16, 50-5 torches with mixer. 5/16-27 thread.</p>
<p>MFG NO.</p> <p>1600060 4</p> <p>1600070 5</p> <p>1600080 6</p> <p>1600090 7</p> <p>1600100 8</p> <p>1600140 9</p> <p>1600150 10</p>	<p>SIZE</p>		<p>MFG NO.</p> <p>1601690 0</p> <p>1601700 1</p> <p>1601710 2</p> <p>1601730 3</p> <p>1601740 4</p> <p>1601760 5</p> <p>1601780 6</p> <p>1601800 7</p>	<p>SIZE</p>	

Model 62











Model 42



Model 142




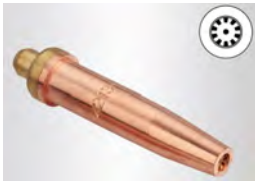
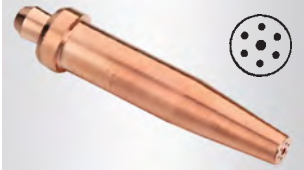
GOSS  **OXWELD/ESAB/L-TEC/LINDE Style**  **REPLACEMENT TIPS**

Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
N/A	MWO-FS	<p>GENERAL MAPP OR FG-2-OXYGEN</p>  <p>Two piece standard speed. Fits CW-23, C-31, C-32, C-66, C-77 hand torches.</p>	INTERNAL		<p>INTERNAL</p>  <p>General cutting, medium preheat, propane, natural gas, butane-oxygen. Fits CW-23, C-31, C-32, C-66, C-77 hand torches, C-39, C-58, C-67 machine torches.</p>
MFG NO. 0816-0772 0816-0768 0816-0765 0816-0760 0816-0756 0816-0754 0816-0752	SIZE 72 68 65 60 56 54 52		1534	MW1534	
1502	MW1502	<p>GENERAL CUTTING ACETYLENE-OXYGEN</p>  <p>Medium preheat. For hand or machine cutting. Fits CW-32, C-31, C-23, C-66, C-77 hand torches, C-37, C-39, C-58 machine torches.</p>	EXTERNAL		<p>EXTERNAL</p>  <ul style="list-style-type: none"> • Other externals for Mapp/FG-2 available on request. • See complete tips for Mapp/FG-2 listed in this section.
MFG NO. 08Z69 08Z67 15Z17 15Z18 15Z19 15Z20 15Z21	SIZE 2 3 (1/4") 4 (1/2") 6 (1 1/2") 8 (4") 10 (8") 12 (12")		14Z38 14Z39 14Z77	MW14Z39	
1511	MW1511	<p>GOUGING ACETYLENE-OXYGEN</p>  <p>For gouging, grooving plate edges for welding, removing defects from castings, pad washing. Medium preheat, tip has wear skid. Fits C-31, C-32, C-66, C-77, CW-23 hand torches.</p>	INTERNAL		<p>INTERNAL</p>  <p>Hi-speed cutting, medium preheat, propane, natural gas, butane-oxygen. Fits CW-39, C-58, C-67 machine torches.</p>
MFG NO. 15X14 15X15 15X16	SIZE 13 19 25		1535	MW1535	
N/A	MW1515	<p>GENERAL CUTTING PROPANE OR NATURAL GAS</p>  <p>One piece tip for hand or machine cutting. Fits C-31, CW-23, C-32, C-66, C-77 hand torches, C-39, C-58, C-67 machine torches.</p>	EXTERNAL		<p>EXTERNAL</p>  <ul style="list-style-type: none"> • Other externals for Mapp/FG-2 available on request. • See complete tips for Mapp/FG-2 listed in this section.
MFG NO. 08Z88 08Z89	SIZE 10 (8") 12 (12") 8 6 4 3		N/A	MW1566	
				INTERNAL	
				EXTERNAL	
				MW639322	
				EXTERNAL	






**PUROX/ESAB Style
REPLACEMENT TIPS**



Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
P-FS	MWP-FS		4207	MW4207	
MFG NO. 0816-0965 0816-0960 0816-0956 0816-0949	SIZE 65 60 56 49	GENERAL CUTTING MAPP OR FG-2-OXYGEN 	MFG NO. 16K67 16K35	SIZE 13 19	GOUGING ACETYLENE-OXYGEN 
		Two piece standard speed. Fits CW-200, CW-202, Type E, CW-300 torches.			Grooving and gouging. Fits CW-200, CW-202, Type E, CW-300 torches.
4202	MW4202		4213-14	MW4213-14	
MFG NO. 16K07 16K08 16K09 16K10 16K11 16K12 16K13 16K14	SIZE 2 (1/8") 3 (1/4") 4 (1/2") 5 (1 1/2") 7 (4") 9 (6") 11(10 ") 13 (12")	GENERAL CUTTING ACETYLENE-OXYGEN 	MFG NO. 16L02 16L03 16L04 16L05 16L06 16L07	SIZE 3 4 6 8 10 12	GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS 
		Medium preheat for general cutting. Fits CW-200, CW-202, Type E torches, C-205 machine torch, CW-300 torches.			Complete tip, medium preheat. Fits CW-200, CW-202, Type E torches. For Mapp or FG-2 see style P-FS. Fits CW-300 torches.
4203	MW4203				
MFG NO. 16K15 16K16 16K17 16K18	SIZE 4 5 7 9	GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS 			
		One piece general and scrap cutting. Fits CW-200, CW-202, Type E, CW-300 torches.			






**REGO/REXARC Style
REPLACEMENT TIPS**

KX6	N/A	
MFG NO. KX6-68 KX66-62 KX66-56 KX6-53 KX6-51 KX6-46 KX6-42	SIZE 68 62 56 53 51 46 42	GENERAL CUTTING ACETYLENE-OXYGEN   68  62-30 Medium preheat for hand cutting. Fits KXA, SXA, CWP 9000, 7000, 18000, 8720, 6808, 6912, 6916 torches.



**SMITH Style
REPLACEMENT TIPS**



Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
MC-12	MWMC12		MW-200	N/A	
MFG. NO. MC12-00 MC12-0 MC12-1 MC12-2 MC12-3 MC12-4	SIZE 00 0 1 2 3 4	GENERAL ACETYLENE-OXYGEN CUTTING  Medium duty hand cutting. Fits cutting assemblies Pipeliner MC505, MC509, Airliner AC305, AC309.	MFG. NO. MW-203 MW-205	SIZE 3 5	WELDING ACETYLENE-OXYGEN  With nut. General medium duty welding. Fits torch MW5.
SC-12	MWSC12		SW-200	N/A	
MFG. NO. SC12-000 SC12-00 SC12-0 SC12-1 SC12-2 SC12-3 SC12-4 SC12-5 SC12-6 SC12-7	SIZE 000 00 0 1 2 3 4 5 6 7	GENERAL ACETYLENE-OXYGEN CUTTING  For hand or machine cutting. Fits Silver Star (000-5), Pipeliner MC409 (000-4). Cutting torches Tuf-Tony, Silver Star (000-7). Machine torches SC770, SC771, SC780A, SC781A, SC782A (000-7).	MFG. NO. SW203 SW205	SIZE 3 5	WELDING ACETYLENE-OXYGEN  With nut, for general and heavy welding and brazing. Fits torches SW1A, SW2.
SC-50	MWSC50				
MFG. NO. SC50-00 SC50-0 SC50-1 SC50-2 SC50-3 SC50-4 SC50-5 SC50-6 SC50-7 SC50-8 SC50-9	SIZE 00 0 1 2 3 4 5 6 7 8 9	GENERAL PROPANE OR -OXYGEN CUTTING NATURAL GAS  Two piece heavy preheat tip for hand & machine cutting. Fits torches Silver Star, Pipe Welders Special (00-5) Tuf-Tony (00-9). Fits machine torches SC770, SC771 (0-6), SC780A, SC781A, SC782A (00-9).			


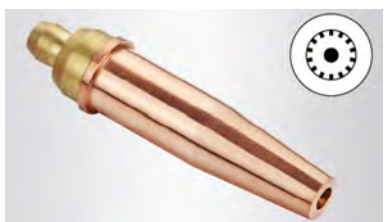






Repair Parts for most major brands of torches and regulators are available at Lenco. Call our order desk to inquire. 1-800-265-5678





**VICTOR Style
REPLACEMENT TIPS**











Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
GPN	MWGPN		MTHN	N/A	
MFG NO. 000-GPN 00-GPN 0-GPN 1-GPN 2-GPN 3-GPN 4-GPN 5-GPN 6-GPN 7-GPN 8-GPN	SIZE 000 00 0 1 2 3 4 5 6 7 8	GENERAL PROPANE OR -OXYGEN CUTTING NATURAL GAS 	MFG NO. 00-MTHN 0-MTHN 1-MTHN 2-MTHN 3-MTHN 4-MTHN 5-MTHN	SIZE 00 0 1 2 3 4 5	HI-SPEED PROPANE OR -OXYGEN NATURAL GAS 
		Medium preheat for hand and machine cutting. Fits 2450, CA 1060, CAN 1060, ST, SST, STN, 1400C, machine torches.			Machine cutting, two piece. Fits machine torches.
N/A	MWGPM		1-101	MW1-101	
MFG NO. 00-GPM 0-GPM 1-GPM 2-GPM 3-GPM 4-GPM 5-GPM	SIZE 00 0 1 2 3 4 5	GENERAL MAPP -OXYGEN CUTTING 	MFG NO. 000-1-101 00-1-101 0-1-101 1-1-101 2-1-101 3-1-101 4-1-101 5-1-101 6-1-101 7-1-101 8-1-101	SIZE 000 00 0 1 2 3 4 5 6 7 8	GENERAL ACETYLENE-OXYGEN CUTTING 
		Medium preheat for hand and machine cutting. Fits 2450, CA 1060, CAN 1060, ST, SST, STN, 1400C, machine torches.			Medium preheat for hand and machine cutting. Fits 2460, CA 1060, ST, SST, 1400C, machine torches.
GPP	MWGPP		1-108	MW1-108	
MFG NO. 0-GPP 1-GPP 2-GPP 3-GPP 4-GPP 5-GPP	SIZE 0 1 2 3 4 5	GENERAL PROPYLENE-OXYGEN CUTTING 	MFG NO. 1-1-108 2-1-108 3-1-108 4-1-108	SIZE 1 2 3 4	BOILER TIP ACETYLENE-OXYGEN 
		Hand or machine cutting. Fits 2450, CA 1060, ST, SST, 1400C, machine torches.			For boiler tube removal. Fits 2460, CA 1060, ST, SST, 1400C torches.
HPN	N/A		1-110	N/A	
MFG NO. 1-HPN 2-HPN 3-HPN 4-HPN 5-HPN 6-HPN	SIZE 1 2 3 4 5 6	SCRAP PROPANE OR -OXYGEN CUTTING NATURAL GAS 	MFG NO. 1-1-110	SIZE 1	DRAG TYPE ACETYLENE-OXYGEN 
		Scrap cutting, bevelling and piercing. Fits 2450, CA 1060, CAN 1060, ST, SST, STN, 1400C machine torches.			Light preheat for plate cutting. Fits 2460, CA 1060, ST, SST, 1400C, machine torches.



**VICTOR Style
REPLACEMENT TIPS**









Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information
1-112	N/A	RIVET CUTTING ACETYLENE-OXYGEN  Hand cutting for bulkhead rivets. Fits 2460, CA 1060, ST, SST, 1400C torches.	3-GPP	N/A	GENERAL CUTTING PROPYLENE-OXYGEN  General purpose hand and machine cutting. Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 torches.
MFG NO. 00-1-112 0-1-112 1-1-112 2-1-112 3-1-112 4-1-112	SIZE 00 0 1 2 3 4		MFG NO. 0-3-GPP 1-3-GPP 2-3-GPP 3-3-GPP 4-3-GPP 5-3-GPP	SIZE 0 1 2 3 4 5	
1-116	N/A	MULTI-PURPOSE CUTTING ACETYLENE-OXYGEN  Deseaming, gouging, removing welds, rivet washing, scarfing. Fits 2460, CA 1060, ST, SST, 1400C, machine torches.	3-101	MW3-101	GENERAL CUTTING ACETYLENE-OXYGEN  Medium preheat hand cutting. Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 torches.
MFG NO. 2-1-116 4-1-116	SIZE 2 4		MFG NO. 000-3-101 00-3-101 0-3-101 1-3-101 2-3-101 3-3-101 4-3-101 5-3-101 6-3-101	SIZE 000 00 0 1 2 3 4 5 6	
1-118	MW1-118	GOUGING ACETYLENE-OXYGEN  Sizes 0, 2, 4 Gouging, scarfing and deseaming. Fits 2460, CA 1060, ST, SST, 1400C torches.	5-101	N/A	GENERAL CUTTING ACETYLENE-OXYGEN  Medium preheat hand cutting tip. Fits CA 1250 attachment.
MFG NO. 0-1-118 2-1-118 4-1-118 6-1-118 8-1-118	SIZE 0 2 4 6 8		MFG NO. 0-5-101 1-5-101 2-5-101	SIZE 0 1 2	
3-GPN	MW3-GPN	GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS  Two piece medium preheat series 3 tip. Fits CA 1260, CA 1350, C 1450, CA 2060, CST 800, C1400 torches.	5-200	N/A	GENERAL CUTTING PROPANE OR -OXYGEN NATURAL GAS  Two piece series 5 tip. Fits CA 1250 attachment.
MFG NO. 00-3-GPN 0-3-GPN 1-3-GPN 2-3-GPN 3-3-GPN 4-3-GPN 5-3-GPN	SIZE 00 0 1 2 3 4 5		MFG NO. 0-5-200 1-5-200 2-5-200	SIZE 0 1 2	



**VICTOR Style
REPLACEMENT TIPS**



Goss No.	Maxweld No.	Product Information	Goss No.	Maxweld No.	Product Information				
MFA	N/A	<p>HEATING ACETYLENE PROPYLENE -OXYGEN MAPP</p>  <p>Multiflame nozzle, for preheating and straightening. • Use HD 310C torch with 3/8 hose, manifold if acetylene withdrawal rate exceeds 1/7 cylinder content per hour. Fits 300 series torches.</p>	W-1	N/A	<p>WELDING ACETYLENE-OXYGEN</p>  <p>Complete nozzle (nozzle nut included). Long cone flame general welding and brazing. Fits 100 series torches.</p>				
<p>MFG NO. 8-MFA 10-MFA 12-MFA 15-MFA</p> <p>SIZE 8 10 12• 15•</p>	<p>MFG NO. 000-W-1 00-W-1 0-W-1 1-W-1 2-W-1 3-W-1 4-W-1 5-W-1 6-W-1 7-W-1</p> <p>SIZE 000 00 0 1 2 3 4 5 6 7</p>		W	N/A		<p>WELDING ACETYLENE-OXYGEN</p>  <p>Complete nozzle (nozzle nut included). General welding and preheating. Fits 300 series torches.</p>	W-J	N/A	<p>WELDING ACETYLENE-OXYGEN</p>  <p>Complete nozzle (nozzle nut included). Tip for general light welding and brazing. Fits J series torches.</p>
W	N/A	<p>WELDING ACETYLENE-OXYGEN</p>  <p>Complete nozzle (nozzle nut included). General welding and preheating. Fits 300 series torches.</p>	W-J	N/A	<p>WELDING ACETYLENE-OXYGEN</p>  <p>Complete nozzle (nozzle nut included). Tip for general light welding and brazing. Fits J series torches.</p>				
<p>MFG NO. 000-W 00-W 0-W 1-W 2-W 3-W 4-W 5-W 6-W 7-W 8-W</p> <p>SIZE 000 00 0 1 2 3 4 5 6 7 8</p>	<p>MFG NO. 000-W-J 00-W-J 0-W-J 1-W-J 2-W-J 3-W-J 4-W-J 5-W-J 6-W-J 7-W-J</p> <p>SIZE 000 00 0 1 2 3 4 5 6 7</p>								

**For a great selection of Victor
style torches, welding and cutting
attachments and regulators,
please see
Genstar Technologies
beginning on page 46.**



REPLACEMENT TIP NUTS

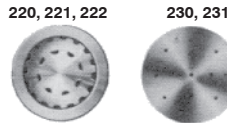


MFG. TORCH AND TIP STYLES		TIP NUT STOCK NO.	LENCO NO.
AIRCO	3700, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500	831-2259	A-080.1
AIR PRODUCTS	(Threaded)	229-U-360000	K-007
AIR PRODUCTS	(Conical)	229-8-360656	A-080.1
HARRIS	6290 Tips	6259B	H-082.1
OXWELD	CW-23, C-31, C-32, C-66, C-77, C-37, C-39, C-58, C-67	33A56	P-080
PUROX	CW-200, CW-202, E	802	P-081
SMITH	SC Tips	G900-41A	S-081
VICTOR	CA 1260, CA 1350, C 1450, CA 2060, CST 800, C 1400 (3 series tips)	0309-0003	V-081
VICTOR	2450, CA 1060, CAN 1060, ST, SST, STN, 1400C, MT, MTN (1 series tips)	0309-0018	V-080

HEATING TIPS - CONNECTORS

HEATING TIPS

CONNECTORS



FOR USE WITH	PART NO.	TIP SIZES	THREAD SIZE
LP OR NATURAL GAS	220	2-3	7/16-20
	221	1-2-3-4-5	1/2-25
ACETYLENE GAS	230	1-2-3	7/16-20
	231	1-2-3	1/2-25

PART NO.	THREAD Female x Female
G-226	7/16-20 x 7/16-20
G-228	3/8-20 x 7/16-20

HEATING TIP CHART FOR 220 & 221 STYLE TIPS

SIZE	OXYGEN PRESSURE (PSIG)	OXYGEN FLOW (CFH)	PROPANE PRESSURE (PSIG)	PROPANE FLOW (CFH)	APPROX. HEAT OUTPUT (BTU/HR)
1	10-25	160-320	4-12	40-80	100,000-200,000
2	15-45	220-520	7-20	55-125	140,000-330,000
3	25-65	340-900	8-25	80-230	215,000-550,000
4	50-110	640-1300	10-30	160-320	400,000-800,000
5	60-130	700-1600	13-40	180-400	450,000-1,000,000

NOTE: 1. Use 3/8" hose with all tips. 2. No. 4 and No. 5 tips may require increased pressures if hose length is over 25 feet.

HEATING TIP CHART FOR 230 & 231 STYLE TIPS

SIZE	ACETYLENE PSIG	APPROXIMATE CFH	APPROX. HEAT OUTPUT (BTU/HR)
1	3-6	13-23	19,000-33,000
2	5-9	25-45	36,000-66,000
3	10-14	60-140	88,500-200,500

WARNING: At no time should the withdrawal rate of an individual acetylene cylinder exceed 1/7 of the cylinder content per hour. If additional flow capacity is required use an acetylene manifold system of sufficient size to supply the necessary volume.





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

All charts and information contained in this catalogue are intended only as an approximate guide. The type and condition of equipment, length of hose, regulator pressure settings, operator skill, etc. will affect performance of any tip.

WELDING TIP CHART

TIP SIZE	DRILL SIZE	OXYGEN PRESSURE P.S.I.		ACETYLENE PRESSURE P.S.I.		ACETYLENE CONSUMPTION CFH*		METAL THICKNESS
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
000	75	1/2	2	1/2	2	1/2	3	Up To 1/32"
00	70	1	2	1	2	1	4	1/64"-3/64"
0	65	1	3	1	3	2	6	1/32"-5/64"
1	60	1	4	1	4	4	8	3/64"-3/32"
2	56	2	5	2	5	7	13	1/16"-1/8"
3	53	3	7	3	7	8	36	1/8"-3/16"
4	49	4	10	4	10	10	41	3/16"-1/4"
5	43	5	12	5	15	15	59	1/4"-1/2"
6	36	6	14	6	15	55	127	1/2"-3/4"
7	30	7	16	7	15	78	152	3/4"-1 1/4"
8	29	9	19	8	15	81	160	1 1/4"-2"
9	28	10	20	9	15	90	166	2"-2 1/2"
10	27	11	22	10	15	100	169	2 1/2"-3"
11	26	13	24	11	15	106	175	3"-3 1/2"
12	25	14	28	12	15	111	211	3 1/2"-4"

Gas consumption data is merely for rough estimating purposes. It will vary greatly on the material being welded and the particular skill level of the operator.

Pressures are approximate for hose length up to 25 ft. Increase for longer hose lengths about 1 psi per 25 feet.

*Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Maxweld PRESSURE GAUGES

2"
Brass or Steel
Painted Case
Single Scale



2 1/2"
Brass or Steel
Painted Case
Single Scale



1 1/2"
1/8" NPT Backport
Brass Case
0-4000 PSI



2"
1/4" NPT Bottom
Port
Brass Case
0-50 CFH PSI
Dual Scale



Gauges are manufactured to strict quality standards and provide accuracy & reliability for use in O.E.M. and replacement applications.

You have the option of solid brass case or painted steel case.

High Pressure Gauges, 1000 PSI and above, have a "blow out" back design for safety.

Selection Chart On Next Page

PRESSURE GAUGES SELECTION CHART

MAXWELD Gauges - Brass Case - Single Scale

1½"	
MW-041	4,000 PSI 1/8" NPT Backport

2"	
MW-002	30 PSI RL
MW-005	100 PSI
MW-006	200 PSI
MW-007	400 PSI
MW-010	4,000 PSI
MW-017	0-50 CFH
MW-GL2	Repl. Lens

2½"	
MW-022	30 PSI RL
MW-026	200 PSI
MW-027	400 PSI
MW-030	4,000 PSI
MW-GL25	Repl. Lens

Add "S" to end of part number for painted steel case gauges.

U.S. Gauges / Ametek - Brass Case - Single Scale

1½"	
US-032	30 PSI
US-035	100 PSI
US-036	200 PSI
US-037	400 PSI
US-039	3,000 PSI
US-040	4,000 PSI
US-042	30 PSI RL
Z-019	Repl. Lens

2"	
US-001	15 PSI
US-002	30 PSI RL
US-003	30 PSI
US-004	60 PSI
US-005	100 PSI
US-006	200 PSI
US-007	400 PSI
US-008	600 PSI
US-009	3,000 PSI
US-010	4,000 PSI
US-011	1,000 PSI
US-012	1,500 PSI
Z-033	Repl. Lens

2½"	
US-013	1000 PSI
US-014	1500 PSI
US-021	15 PSI
US-022	30 PSI RL
US-023	30 PSI
US-024	60 PSI
US-025	100 PSI
US-026	200 PSI
US-027	400 PSI
US-028	600 PSI
US-029	3,000 PSI
US-030	4,000 PSI
Z-034	Repl. Lens

Western Enterprises Gauges - Dual Scale (additional gauge styles available - call our order desk)

1½" 1/8" NPT	
WE-G15-30RLW	30 PSI RL
WE-G15-150W	150 PSI
WE-G15-400W	400 PSI
WE-G15-4000W	4,000 PSI
WE-G15-F60W	60 SCFH
WE-G18-4000W*	4,000 PSI
*Back Mount	

2" ¼" NPT	
WE-G2-30RLW	30 PSI RL
WE-G2-60W	60 PSI
WE-G2-100W	100 PSI
WE-G2-600W	600 PSI
WE-G2-1000W	1,000 PSI
WE-G2-3000W	3,000 PSI
WE-G2-6000W	6,000 PSI
WE-G2-F60W	60 SCFH

2" 1/8" NPT	
WE-G28-400W	400 PSI
WE-G28-3000W	3000 PSI
WE-G28-6000W	6000 PSI
WE-G28-F35W	35 SCFH

2½" ¼" NPT	
WE-G25-30RLW	30 PSI RL
WE-G25-100W	100 PSI
WE-G25-200W	200 PSI
WE-G25-400W	400 PSI
WE-G25-2000W	2,000 PSI
WE-G25-4000W	4,000 PSI
WE-G25-6000W	6,000 PSI

**MEDICAL GAUGES ALSO AVAILABLE
CALL OUR ORDER DESK TO INQUIRE.**



TIP CLEANER KITS

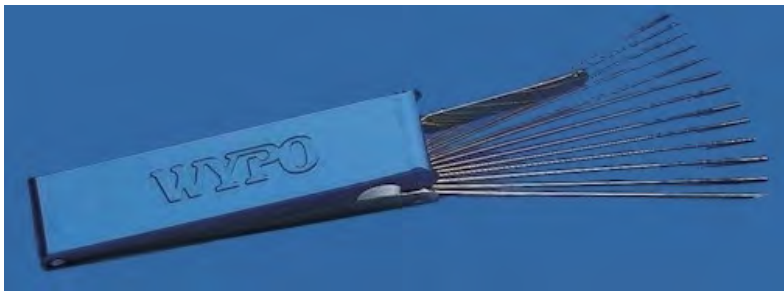
WYPO Tip Cleaners are made in the USA, and proven to be the world's finest tip cleaners. Our complete in-house operation, using highly skilled craftsmen, gives you the highest quality product available today. Primarily designed for the cleaning of welding and cutting tips, they also can be used to clean sprinkler and shower heads, gas range burners and desoldering tools, and to allow for precision small hole deburring.



WS-7549 STANDARD

FEATURES:

- Precision manufactured with controlled accurate pressure from high quality stainless steel.
- Uniform ridges wipe and polish the critical orifice wall.
- Tapered ends allow smooth easy entry without scratching.
- Smooth leader pilot guides the cleaner into the tip, preventing damage to the tip port.



WK-7549 KING

- Tangle-free closed loops.
- Four sets to choose from (Standard, Master, Jumbo and King) each guaranteed to be a complete set.
- Attractive aluminum case with a contained spool assembly that snaps out for easy addition of cleaners, or spline brush.



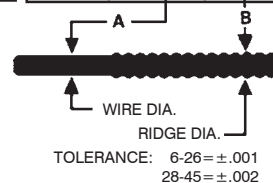
WJ-4830 JUMBO



WM-7530 MASTER

AVAILABLE WYPO TIP CLEANERS

WYPO GAGE	WIRE DIA. (DEC.) A	RIDGE DIA. (DEC.) B	CLEANS HOLE		
			DIAMETER (INCH)	DRILL SIZE	
MASTER SET STANDARD & KING SETS	6	.014	.016	.018-.020	77-76
	7	.018	.020	.021-.022	75-74
	8	.021	.023	.024-.026	73-71
	10	.024	.026	.028-.031	70-68
	12	.028	.030	.032-.035	67-65
	14	.032	.034	.036-.038	64-62
	15	.035	.038	.039-.040	61-60
	16	.037	.040	.041-.042	59-58
	17	.039	.042	.043-.046	57
	18	.042	.044	.046-.051	56
MASTER SET JUMBO SET	22	.048	.050	.052-.055	55-54
	24	.055	.057	.060-.064	53-52
	26	.062	.065	.067-.073	51-49
	28	.069	.075	.076-.078	48-47
	30	.074	.080	.081-.082	46-45
	32	.078	.085	.086-.089	44-43
	34	.085	.092	.094-.096	42-41
	37	.090	.096	.100-.102	39-38
	39	.095	.102	.104-.106	37-36
	42	.102	.108	.110-.113	35-33
44	.108	.114	.116-.120	32-31	
45	.120	.126	.128+	30+	



The World's Finest Tip Cleaner



SHURLITE LIGHTERS and FLINTS

SINGLE FLINT LIGHTER

This lighter features the largest hood and round file in the industry, with a patented assembly. Used by more welders than any other, its enduring popularity is merited by dependable performance, ease of operation, light weight, and low cost.



Part No.	Description
3001	Single Flint Lighter 6/40 thread
3001X	Single Flint Renewals

POINT OF PURCHASE CARDS

Part No.	Description
3011	Single Flint Lighter
3011X	Single Flint Renewals - 5 per Card
3021X	Single Flint Renewals - 10 per Card

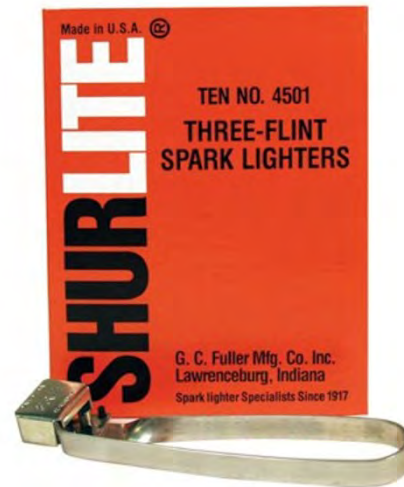
THREE FLINT LIGHTER

Value well worth the price is built into this superb welders' lighter by the rugged frame, three large flints, long lasting round file and bright plated finish. It will supply a profusion of hot sparks for dependable ignition under all working conditions.

Part No.	Description
4501	Three Flint Lighter

POINT OF PURCHASE CARDS

Part No.	Description
5011	Three Flint Lighter
5021	Three Flint Lighter w/ 4 Renewals
5003X	Three Flint Renewals - 1 per Card
5012X	Three Flint Renewals - 4 per Card



SHOOT-A-LITE LIGHTER



SAFE! SURE! STRONG!

POINT OF PURCHASE CARDS

Part No.	Description
730	Shoot-A-Lite Lighter w/ 5 Renewals
732X	Shoot-A-Lite Flint Renewals - 10 per Card

SAFETY GAS LIGHTER

The Practical Lighter for Welding and Cutting Torches



SHURLITE LIGHTERS and FLINTS

SINGLE FLINT RENEWALS

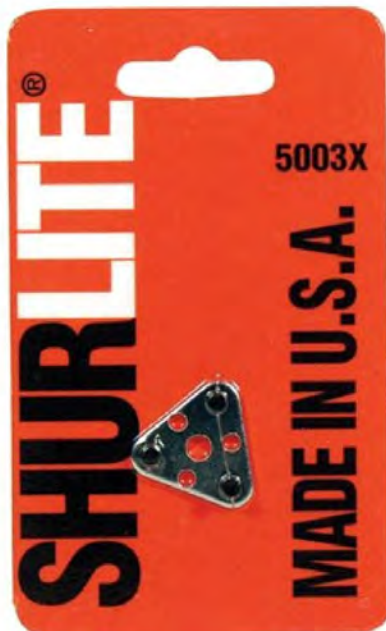


Part No.	Description
3011X	5 Flints per Card
3021X	10 Flints per Card

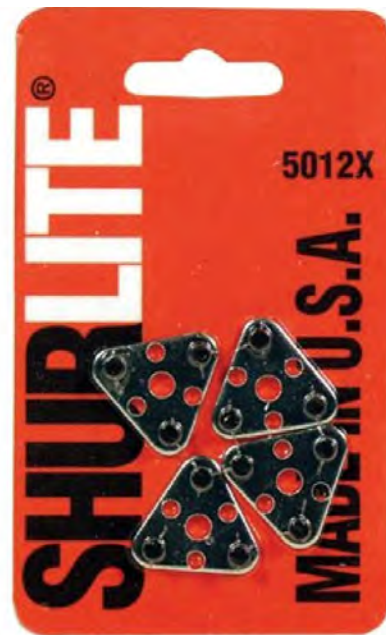


Part No.	Description
3001X	5 Flints in Holder
	40 Holders per Box (200 Flints)

THREE FLINT RENEWALS



Part No.	Description
5003X	1 per Card



Part No.	Description
5012X	4 per Card

4B'S BRACKET

“FOR ALL YOUR TANK NEEDS”

SAFETY - STORING - TRANSPORTING

4B's CYLINDER HOLDERS

The 4B's cylinder holders will hold your tanks safely in place. The rubber gasket, on the inside of the holder, eliminates all concern of friction and noise.

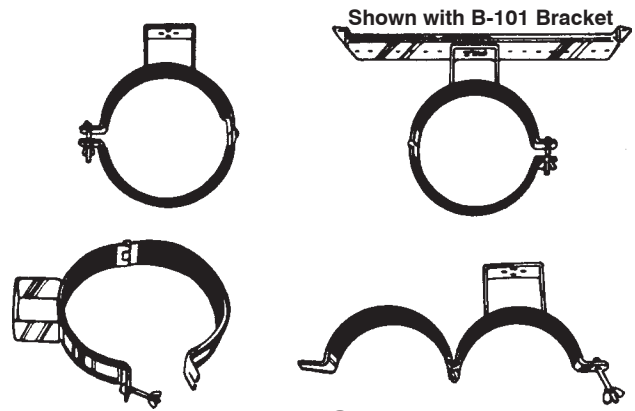
Just a few turns with your fingers tightens or loosens the wing nut, which holds the tank firmly in place, or lets the bolt swing out of your way.

The yoke is welded to the cylinder holder and is fastened to the bracket with two 3/4" long 5/16" bolts, lock washers and nuts.

The holder is hinged and swings back giving you access to the tank much quicker and easier than chains and makeshift methods.

Ideal for installing filter - driers, liquid receivers, mufflers, accumulators, oil separators, acetylene hydraulic flash arrestors.

Quick and easy to install - strong enough to support connecting pipes and valves. Makes it easy to remove and replace.



4B's BRACKET

The 4B's bracket can be placed either vertical or horizontal for securing tank holders. Holds 1 to 3 tank holders, with 2 extenders it will extend to 4 feet of securing area.

Brackets may be used consecutively to accommodate any number of cylinders.



B-101



B-102



B-101 and B-102 Shown Together

Size Chart

TH-104	3-7/8"-4-3/8"	TH-106	6-1/2"-7-1/4"	TH-109	9"-9-3/4"	TH-116	15-1/2"-16-1/4"
TH-140	4-1/2"-5-1/4"	TH-107	7-1/4"-8"	TH-110	10"-10-3/4"	B-101	19"
TH-145	5-1/4"-5-3/4"	TH-108	8"-8-3/4"	TH-112	12"-13"	B-102	17-3/4"
TH-105	5-3/4"-6-3/8"	TH-185	8-1/2"-9"	TH-114	14-1/2"-15-1/4"		

Welding Hose

- ★ **Lightweight and flexible**
- ★ **Kink resistant**
- ★ **Brighter, cleaner colours**
- ★ **Clean smooth tube**
- ★ **MVP cover, operating temperature -40°F to +212°F**



Twin Welding Hose - Smooth Cover

I.D.	O.D.	No. of Spirals	Working Pressure	Weight per 100'
3/16"	7/16"	2	250psi	15 lbs
1/4"	17/32"	2	200psi	21 lbs
5/16"	19/32"	2	200psi	25 lbs
3/8"	21/32"	2	200psi	27 lbs

Single Line Hose - Green and Black



I.D.	O.D.	Colour	Weight per 100'	Feet per Reel
1/4"	17/32"	Green	10 lbs	800'
3/16"	7/16"	Black	9 lbs	800'
1/4"	17/32"	Black	10 lbs	800'
5/16"	21/32"	Black	12 lbs	600'



Green and black hose available with 5/8"-18 fittings (green - LHM or RHM; black RHM) in lengths of 10', 16', 25', 31', 50', 56', 75', 81', 100' and 106'. (No fittings on full reels).

Grade R For acetylene only, and where cover must resist abrasion, weather and ozone.

Grade RM For acetylene only, and where an oil and flame resistant cover is required.

Grade T For use with all fuel gases, and where an oil and flame resistant cover is required.

High Pressure Gas Cylinders



Oxygen Cylinders		Medical Cylinders		Acetylene Cylinders		Aluminum Helium Cylinders	
Part No.	Description	Part No.	Description	Part No.	Description	Part No.	Description
OX-20	20 cu. ft.	M-E	Medical "E"	LMC-10 "MC"	10 cu.ft.	PY-5801-1	8 cu. ft.
OX-40	40 cu. ft.			B-4	"B" 40 cu.ft.	PY-5802-1	14 cu. ft.
OX-55	55 cu. ft.			AC-75	75 cu.ft.	PY-5803-1	24 cu. ft.
OX-80	80 cu. ft.			AC-100	100 cu.ft.	PY-5804-1	55 cu. ft.
OX-110	110 cu. ft.			AC-145	145 cu.ft.	PY-5806-1	125 cu. ft.
OX-125	125 cu. ft.					PY-5807-1	27 cu. ft.
Oxygen Cylinders Have CGA 540 Valves Installed		Medical Cylinders Have CGA 870 Post Valves Installed		<p>"MC" Cylinders Have CGA 200 Valves Installed, "B" Cylinders Have CGA520 Valves Installed, All Other Acetylene Cylinders Have CGA 510 Valves Installed.</p> <p>LMC-10 and B-4 Cylinders Are Not Equipped With Protective Cap</p>		Helium Cylinders Have CGA 580 Valves Installed	
CO₂ Cylinders						Aluminum Cylinders Are Also Available For Oxygen, Please Call For Information	
Part No.	Description						
BO-100	5 lb						
HO-104	10 lb						
JO-104	15 lb						
KO-104	20 lb						
CO ₂ Cylinders Have CGA 320 Valves Installed							

- Industrial cylinders are light weight, plate drawn.
- Medical cylinders have 1/2"-14 N.G.T. internal thread connections.
- Industrial cylinders have 3/4"-14 N.G.T. internal thread connections.
- BO-100 cylinder has 1/2"-14 N.G.T. internal thread connections.
- Other CO₂ cylinders have 3/4"-14 N.G.T. internal thread connections.
- Cylinder specifications available on request.



hotspotter™

- Burn Weeds
- Tar Sealing
- Melt Ice
- Thaw Pipes
- Repair Asphalt
- Peel Paint
- Heat Water
- Burn Stumps
- Burn Trash
- 101 Uses
- Delivers 500,000 BTU
- No smoke, no fumes
- Durable 10 ft. neoprene hose
- Accurate brass flow control shut-off valve
- Brass propane tank adaptor
- Spark ignitor
- 31" Heavy duty handle
- One year warranty

No Regulator Required

Model

WB-101 Heavy Duty , durable cast iron and steel nozzle

WB-102 Medium Duty, welded tube nozzle

Western's Quick Connects provide fast, reliable and positive connections and quick disconnection for torches, hoses and regulators. All models are colour-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.

- 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
- UL Listed
- 200 psig maximum operating pressure

Oxygen/Fuel Gas

- WE-QDB10 Torch to Hose
- WE-QDB20 Hose to Hose
- WE-QDB30 Regulator to Hose

Oxygen/Fuel Gas with Flash Arrestor

- WE-QDF10 Torch to Hose
- WE-QDF30 Regulator to Hose

Inert Gas (Blue)

- WE-QDB33 Regulator to Hose
- WE-QDB34 Hose to Machine (B size 5/8-18 inert 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.

- Maximum operating pressures are 15 PSIG for acetylene, 22 PSIG for other fuel gases, and 125 PSIG for oxygen
- Rated capacity - 40 SCFH with a 5 PSIG pressure drop
- Reusable, manual resetting not required
- UL listed and 100% tested

FLASHBACK ARRESTORS

- WE-FA-10 Torch Style Set
- WE-FA-30 Regulator Style Set



Individual parts also available for both Quick Connects and Flash Arrestors.



O-Clamps

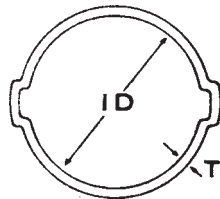
Efficient Clamping in Seconds!

APPLICATIONS: O-Clamps are ideally suited for maintenance and O.E.M. applications. Rubber hose, plastic tubing, plastic pipe, coaxial, and other electrical cable, rope, etc. are all readily clamped. Uses on air, fluid, gas and steam lines are unlimited. O-Clamps serve as ideal holding devices.

RUGGED SIMPLICITY: One piece design offers positive clamping action without damage to hose. No dangerous projections. No parts to break. No complicated tools to use. Two ear design assures adequate closure allowance and allows for variation in hose size.



**2-Ear Clamps
Zinc Plated**



SAVE MONEY & TIME: O-Clamps are durable. Their initial cost is low. They require no special tools for application or removal. A single squeeze on each ear with ordinary pincers applies the clamp - in seconds - offering substantial savings in labour and down time.

GREAT HOLDING POWER: Closing the ears builds strength into the clamp which works against the pressure in the hose line. Under certified test, a single 7/8" O-Clamp remained secure at 12,800 PSI at which point the hose burst. Hence O-Clamps offer a large safety factor even at high pressures. Inquiries on particular pressure applications are invited.

SIZE SELECTION: Twenty-five standard sizes assure a clamp for most applications. Select nominal clamp size equal to the O.D. to be clamped. Where there is no such nominal size, select the next larger clamp size.

**1-Ear Clamps
Zinc Plated**

Part No.	Nominal Size Inches	Minimum Clamping Dia. (inches)	Actual Clamp I.D. (inches)	Thickness Inches	Width Inches
LE-00	5/32"	.13	.17	.025	.140
LE-01	3/16"	.15	.21	.028	.197
LE-02	1/4"	.20	.29	.028	.236
LE-03	5/16"	.28	.36	.039	.276
LE-04	7/16"	.35	.44	.039	.276
LE-05	1/2"	.43	.52	.039	.276
LE-06	9/16"	.51	.60	.043	.295
LE-07	5/8"	.59	.72	.047	.315
LE-08	3/4"	.67	.80	.047	.335
LE-09	7/8"	.79	.92	.059	.354
LE-10	15/16"	.87	1.00	.059	.394
LE-11	1"	.91	1.07	.059	.394
LE-12	1 1/16"	.98	1.12	.059	.394
LE-13	1 1/8"	1.06	1.23	.059	.394
LE-14	1 3/16"	1.10	1.24	.059	.394
LE-15	1 5/16"	1.22	1.35	.059	.394
LE-16	1 7/16"	1.34	1.47	.059	.394
LE-17	1 1/2"	1.45	1.59	.059	.394
LE-18	1 5/8"	1.57	1.70	.059	.394
LE-19	1 3/4"	1.69	1.82	.059	.394

Part No.	Nominal Size Inches	Minimum Clamping Dia. (inches)	Actual Clamp I.D. (inches)
SE-03A	3/8"	.35	.37
SE-04	7/16"	.38	.44
SE-05	1/2"	.45	.52
SE-06	9/16"	.49	.57
SE-07	5/8"	.54	.62
SE-08	3/4"	.67	.78
SE-09	7/8"	.78	.89
SE-10	15/16"	.84	.95
SE-11	1"	.89	1.01
SE-12	1 1/16"	.95	1.06



Stainless steel O-Clamps available in both 1-ear and 2-ear. Add "SS" to the end of the part number.

Pincers



Part No. LE-1098
Standard Jaw Pincers



Part No. LE-1099
Side Jaw Pincers
This dual purpose, side jaw design allows clamps to be applied or removed in confined areas with pincers held parallel to the hose. Also used like standard pincers.





Kits

KIT CONTENTS
Pocket Kit

Part No. SK-1098

- Plastic kit box contains:
- 15 - 1/2" Zinc Plated 2-Ear Clamps
 - 15 - 9/16" Zinc Plated 2-Ear Clamps
 - 15 - 5/8" Zinc Plated 2-Ear Clamps
 - 15 - 3/4" Zinc Plated 2-Ear Clamps
 - 5 - 1/4" Stainless Steel Hose Menders
 - 5 - 5/16" Stainless Steel Hose Menders
 - 1 - LE-1098 Standard Jaw Pincers



Mender/Clamp Kit

Part No. MC-1098

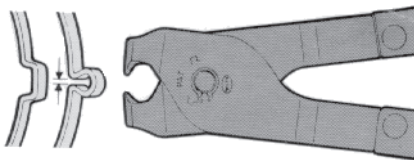
- Plastic kit box contains:
- 50 - 7/16" Zinc Plated 2-Ear Clamps
 - 50 - 1/2" Zinc Plated 2-Ear Clamps
 - 50 - 9/16" Zinc Plated 2-Ear Clamps
 - 50 - 5/8" Zinc Plated 2-Ear Clamps
 - 25 - 3/4" Zinc Plated 2-Ear Clamps
 - 25 - 7/8" Zinc Plated 2-Ear Clamps
 - 5 - 1/4" Stainless Steel Hose Menders
 - 5 - 5/16" Stainless Steel Hose Menders
 - 5 - 3/8" Stainless Steel Hose Menders
 - 5 - 1/2" Stainless Steel Hose Menders
 - 1 - LE-1098 Standard Jaw Pincers

Welding Kit

Part No. WK-82

- Plastic kit box contains:
- 40 - 9/16" Zinc Plated 2-Ear Clamps
 - 10 - 1/2" Zinc Plated 2-Ear Clamps
 - 6 - #7 Oxy. 'B' Size RH Brass Nuts
 - 6 - #8 Acet. 'B' Size LH Brass Nuts
 - 6 - 'B' Size 1/4" Brass Nipples
 - 2 - 'B' Size 3/16" Brass Nipples
 - 2 - 3/16" Brass Hose Menders
 - 4 - 1/4" Brass Hose Menders
 - 4 - Oval Brass Dual Braces
 - 1 - LE-1098 Standard Jaw Pincers

INSTALLATION:



When installing Oetiker 2-Ear Clamps, close first ear, then the second. Once the second ear is closed, the first one will open slightly, simply squeeze again. Each ear should not be squeezed more than twice.

An incorrectly made installation may impair the best connection. A clamp installed too tightly can collapse or deform the parts to be connected or can cut the material to be clamped causing leakage. If clamp ears can be closed all the way, the clamp size selected is probably too big and the next smaller size clamp should be used.

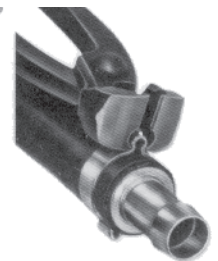
HOW TO INSTALL:



Position clamp on hose as illustrated.

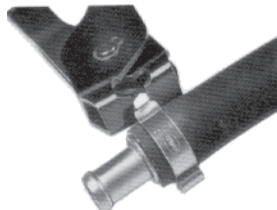


Give each ear a firm squeeze with your OETIKER Pincers.



Where access is difficult, use OETIKER's Side Jaw Pincers Part No. LE-1099

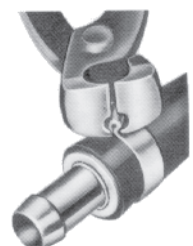
HOW TO REMOVE:



Grip the outer edge of the ear firmly and cut through it with either pincers.



Cut the ear by taking several small bites of its base with either pincers.



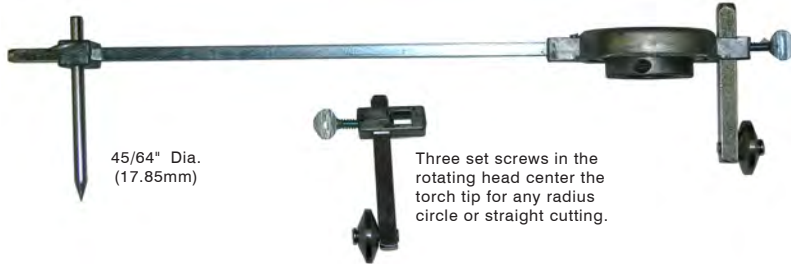
Then grip the ear firmly and twist it off.



QUALITY WELDING ACCESSORIES

Universal Circle Burner

- Cut circles or straight lines with any oxy-fuel cutting torch
- Equipped with two wheels and centering pin



45/64" Dia.
(17.85mm)

Three set screws in the rotating head center the torch tip for any radius circle or straight cutting.

This handy little tool is ideal for shop or maintenance department that must occasionally cut circles or straight lines, but where expensive equipment is not practical.

MODEL
CBM-2030



MAGNETIC HOLDING BASE for CB-20 or CB-30 Circle Burner

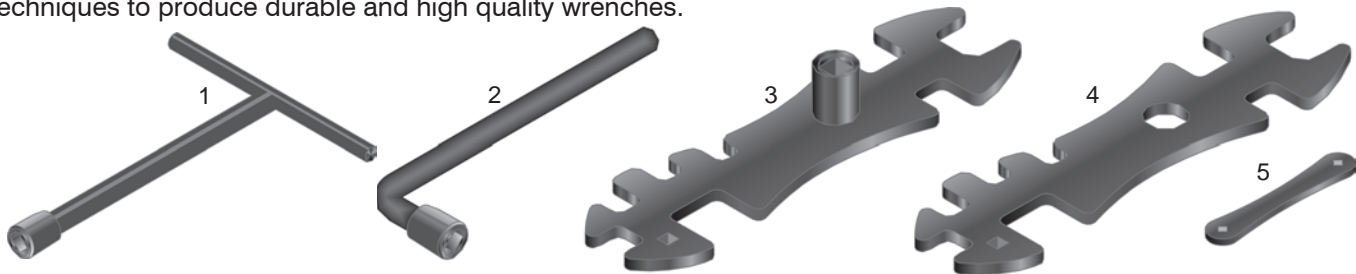
Magnet with 16 lbs.(7.3kg) direct pull holds centering pin in place, frees your hands and allows you to focus your attention on the torch. (Caution: Should not be used when cutting any circle with less than a 6" radius.)

SPECIFICATIONS

Part No.	Model No.	Description	Maximum Diameter Circle	Minimum Diameter Circle
L03010	CB-20	Lenco Circle Burner	18" (457mm)	3½" (88.9mm)
L03020	CB-30	Lenco Circle Burner	30" (762mm)	3½" (88.9mm)
L03011	CB-20M	Lenco Circle Burner w/Magnetic Base	18" (457mm)	3½" (88.9mm)
L03021	CB-30M	Lenco Circle Burner w/Magnetic Base	30" (762mm)	3½" (88.9mm)
L03030	CBM-2030	Magnetic Base Only for CB-20 or CB-30		

Cylinder Wrenches

LENCO Cylinder Wrenches are manufactured from special alloys using the latest production techniques to produce durable and high quality wrenches.



Item No.	Part No.	Model No.	Description
1.	L09720	250	1/4" POL T-Handle: Linde 290 type for Praxair type acetylene cylinders.
2.	L09730	10	3/8" Commercial L-Handle: key for 3/8"(9.5mm) commercial cylinders.
3.	L09710	1013	MODEL D-1013: For regulators, torches, commercial acetylene cylinders.
4.	L09715	1013P	MODEL D-1013L: For Praxair dealers, has 3/8"(9.5mm) socket omitted.
5.	L09735	5	B-MC Wrench: For B size acetylene cylinders.

Orange Teflon Tape

STOP

Leakage at Pipe Threads

with



- Seals all metal and plastic threaded joints
- Effective at temperatures from -400° F to +600° F (-240° C to 316° C)
- Pure Teflon, high density, non-corrosive, non-flammable, clean and easy to use
- Premium quality thread sealing tape
- Joints disassemble easily even after years of service
- Impervious to most fluids and gases
- Meets the physical properties of MIL-T-27730A
- Recommended for oxygen systems

Distinctively Coloured For Your Protection

T-Tape is coloured orange to prevent substitution or use of inferior tape by error or intent. *There is a difference!*

Part No.	Description
224	1/4" x 260" .63cm x 6.6m
225	1/2" x 260" 1.27cm x 6.6m
226	1/2" x 540" 1.27cm x 13.72m
226B	1/2" x 1296" 1.27cm x 32.94m
227	3/4" x 540" 1.91cm x 13.72m
228	1" x 540" 2.54cm x 13.72m

MECO TYPE "N" MIDGET TORCH

We are very proud to offer a complete set of five Jewelled Orifice Tips to be used with the Type "N" Midget Torch.

These tips, which are internally equipped with Jewelled Orifices of extremely small size, are ideal for jewellery work and other minute applications where just a "hair of a flame" is desired.

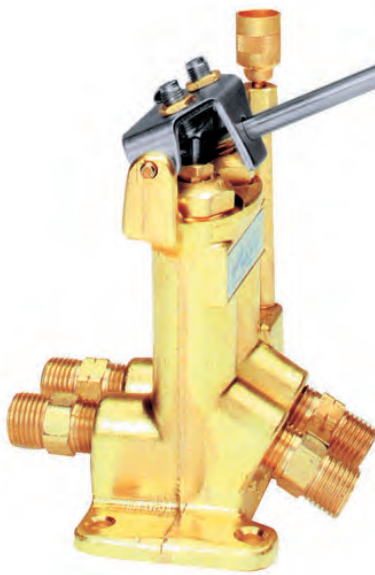


Part No.	Description	Orifice Size	Gas Pressure	
			Oxygen	Acetylene
ME-3000	No. 00 "N" Tip	.003" Jewelled	1 PSI	1 PSI
ME-3001	No. 0 "N" Tip	.006" Jewelled	2 PSI	2 PSI
ME-3002	No. 1 "N" Tip	.011" Jewelled	3 PSI	3 PSI
ME-3003	No. 2 "N" Tip	.020" Jewelled	3 PSI	3 PSI
ME-3004	No. 3 "N" Tip	.029" Jewelled	3 PSI	3 PSI
ME-0404	Type "N" Midget Torch			

Due to the low pressures used on oxygen as well as acetylene, LENCO can supply oxygen regulators with 60 PSI low pressure gauges, in lieu of 100 or 200 PSI, for easy reading. Please specify when ordering.

Weldit®

GASAVER



Cut oxygen and acetylene consumption 25% to 30%. The savings in gas and time spent igniting torches, as opposed to conventional spark lighters, pays for the gasaver in a very short period.

- Saves gas
- Saves ignition time
- No need to readjust flame
- Quick flame extinguishing
- Economical
- Can be easily fastened to workbench
- Pays for itself in time and gas savings



The photo above shows that when the torch is hung in place, the flame is automatically extinguished and the gas is stopped. To relight, remove torch from lever rod and pass over the pilot light which instantly ignites to its pre-determined flame.

W-100 MAPP GASAVER

The original Weldit gasaver method is now available for MAPP and oxygen use. Standard Model "E" Gasaver with the W-1922 MAPP pilot assembly.

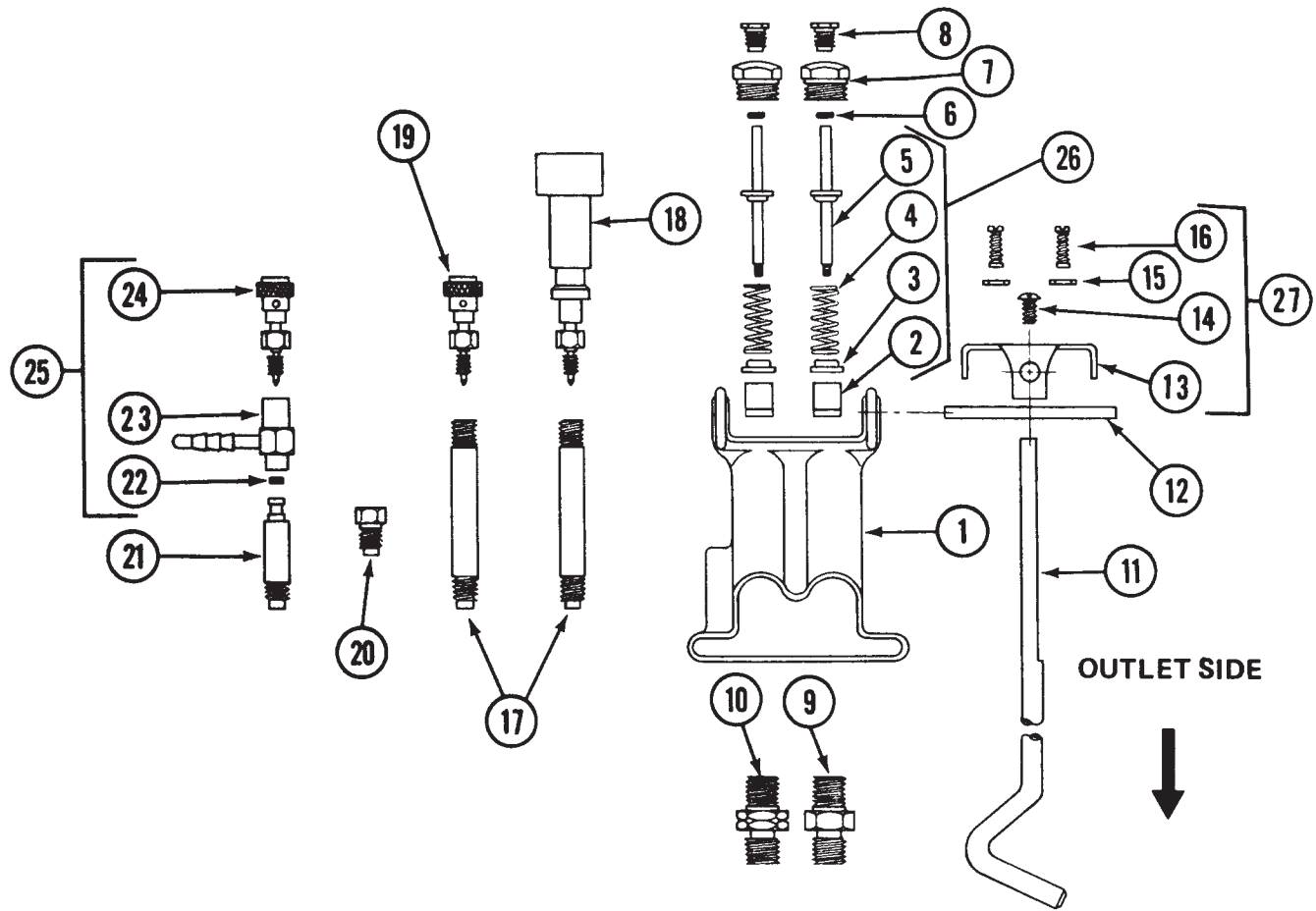
W-101 MODEL "E" GASAVER

For general use on all types of acetylene and oxygen operations. Gasavers can be installed in any convenient location - on the line between the regulators and torch - the closer to the torch, the greater the savings in oxygen and acetylene.

W-103 MODEL "ELP" GASAVER

Equipped with separate fuel inlet for use with low pressure fuel gas with injector type torches.

GASAVER PARTS LIST



Ref.	Part No.	Description	Ref.	Part No.	Description
1	W-9303	Body	14	W-7730	Lever Rod Lock Screw
2	W-8446-1	Seat (2)	15	W-7887	Adjusting Screw Lock Nut (2)
3	W-9328	Lower Saddle Spring Button (2)	16	W-7736	Adjusting Screw (2)
4	W-7809	Spring (2)	17	W-6056	Pilot Light Tube for W-100, W-101, W-104
5	W-1542-1	Rod Assembly (2)	18	W-1740-1	Pilot Light Assembly for W-100
6	LP-112	"O" Ring (2)	19	W-1507	Pilot Light Assembly for W-101
7	W-6183	Plunger Rod Bushing (2)	20	W-9324	Lava for 1507 Pilot
8	W-6045	Packing Nut (2)	21	W-6232	Plug for W-102
9	103-0024	Oxygen Inlet/Outlet (2 required) W-100, W-101, W-102, W-104	22	W-6702	Pilot Base for W-103
	103-0128	Water Inlet/Outlet (2 required) W-102 (not shown)	23	W-7738	Set Screw for W-103
10	103-0025	Gas Inlet/Outlet (2 required) W-100, W-101, W-103, W-104	24	W-1506	Pilot Adaptor for W-103
	103-0127	Inert Inlet/Outlet (2 required) W-102 (not shown)	25	W-1508	Pilot Light for W-103, W-104
11	W-9286	Lever	25	W-1533	Pilot Light Assembly for W-103 (includes Ref. No. 22,23,24)
12	W-9315	Pinion Rod	26	W-1566-1	Plunger Assembly (includes Ref. No. 2, 3, 4, 5)
13	W-8805-10	Saddle	27	W-10005	Saddle Assembly (includes Ref. No. 13, 14, 15, 16)

GOLD SERIES OUTFITS

Gas Welding & Cutting Apparatus

JOBBER 1120 & 1120FA

Medium Duty Outfits in Deluxe Tool Bag for General Purposes

- Can weld up to 1/4" and cut up to 1/2"
- Ideal for home, farm, construction, and industrial maintenance facilities
- With optional tips, can weld up to 1 1/4" and cut up to 6"
- Regulators come with Steel Gauge Guards
- 20' T-grade twin hoses
- 1120 is equipped with 24-CV7PR Torch End Check Valves
- 1120FA is equipped with FA7TPR Flashback Arrestors, which include built-in check valves



1120

Model Number	Dimension/Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	Heating Nozzle	Welding Nozzles	T-Grade Twin Hoses	Goggles	Striker	Tip Cleaner	Check Valves
												Flashback Arrestors
1120	21" x 19" x 9" 20.6 lbs.	142T	142C	152X-80G (OXY.) 152Y-15G (ACET.)	172C-0	172H-6	172W-0,2,4	HW23-T020	9-WG6G	25-300	25-120	24-CV7PR
1120FA												FA7TPR

JOBBER II 1121 & 1121FA

Medium Duty Outfits in Deluxe Tool Bag for General Purposes

- Can weld up to 5/64" and cut up to 1/2"
- Ideal for home, farm, construction, and industrial maintenance facilities
- With optional tips, can weld up to 1 1/4" and cut up to 6" Regulators come with Steel Gauge Guards
- 20' T-grade twin hoses
- 1121 is equipped with 24-CV7PR Torch End Check Valves
- 1121FA is equipped with FA7TPR Flashback Arrestors, which include built-in check valves
- Victor® Performer® equivalent



1121

Model Number*	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	Welding Nozzle	T-Grade Twin Hoses	Goggles	Striker	Tip Cleaner	Check Valves
											Flashback Arrestors
1121	21" x 19" x 9" 19.8 lbs.	142T	142C	152X-80G (OXY.) 152Y-15G (ACET.)	172C-0	172W-0	HW23-T020	9-WG6G	25-300	25-120	24-CV7PR
1121FA											FA7TPR

Acetylene Regulator Inlet Connection supplied is standard CGA 510. Inlet connection CGA 300 is also available; to order, simply add "-3" to the outfit model number. For example: 1120-3 or 1120FA-3; 1121-3 or 1121FA-3.

Victor® and Performer® are a registered trademarks of Victor Equipment Co., which is not associated with Genstar Technologies Co., Inc.

GOLD SERIES OUTFITS

IRON HORSE 1138 & 1138FA

Medium / Heavy Duty Outfits in Deluxe Tool Bag for General Purposes

- Can cut up to 3/4"
- Ideal for industrial and commercial applications
- With optional tips, can weld up to 3" and cut up to 6" Regulators come with Steel Gauge Guards
- 20' T-grade twin hoses
- 1138 is equipped with 24-CV7PR Torch End Check Valves
- 1138FA is equipped with FA7TPR Flashback Arrestors which include built-in check valves
- Victor® Contender® equivalent



Model Number*	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	Heating Nozzle	T-Grade Twin Hoses	Goggles	Striker	Tip Cleaner	Check Valves	
											Flashback Arrestors	
1138	21"x19"x9" 23.3 lbs.	143T	143CA	B53X-125G (OXY.) B53Y-15G (ACET.)	173C-1	173H-6	HW24-T020	9-WG6G	25-300	25-120	24-CV7PR	
1138FA											FA7TPR	

Acetylene Regulator Inlet Connection supplied is standard CGA 510. Inlet Connection CGA 300 is also available; to order, simply add "-3" to the outfit model number. For example: 1138-3 or 1138FA-3.

IRON HORSE II 1221

Medium / Heavy Duty Outfits in Deluxe Tool Bag for General Purposes

- Can weld up to 1/4" and cut up to 1/2"
- Ideal for ship building, construction, petroleum, and chemical industries
- With optional tips, can weld up to 1-1/4" and cut up to 6"
- Regulators come with Steel Gauge Guards
- 20' T-grade twin hoses
- 1221 is equipped with 24-CV7PR Torch End Check Valves
- Victor® Super Range® II equivalent



Model Number*	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	T-Grade Twin Hoses	Goggles	Striker	Tip Cleaner	Check Valves
1221	21"x19"x9" 21.5 lbs.	142T	142C	B53X-125G (OXY.) B53Y-15G (ACET.)	172C-0	HW24-T020	9-WG6G	25-300	25-120	24-CV7PR

Acetylene Regulator Inlet Connection supplied is standard CGA 510. Inlet Connection CGA 300 is also available; to order, simply add "-3" to the outfit model number. For example: 1221-3

GOLD SERIES OUTFITS

Gas Welding & Cutting Apparatus

COMMANDER 1130 & 1130FA

Heavy Duty Outfits in Deluxe Tool Bag for Industrial & Commercial Applications

- Can weld up to 1/2" and cut up to 3/4"
- Ideal for industrial and commercial applications
- With optional tips, can weld up to 3" and cut up to 8"
- Regulators come with Steel Gauge Guards
- 25' T-grade twin hoses
- 1130 is equipped with 24-CV7PR Torch End Check Valves
- 1130FA is equipped with FA7TPR Flashback Arrestors, which include built-in check valves
- Victor® Journeyman® equivalent



1130

Model Number*	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	Heating Nozzle	Welding Nozzles	T-Grade Twin Hoses	Goggles	Striker	Tip Cleaner	Check Valves
												Flashback Arrestors
1130	23"x22"x11" 29 lbs.	143T	143CA	153X-125G (OXY.) 153Y-15G (ACET.)	173C-1	173H-8	173W-1,3,5	HW24-T025	9-WG6G	25-300	25-120	24-CV7PR
1130FA												FA7TPR

COMMANDER II 1131 & 1131FA

Heavy Duty Outfits in Deluxe Tool Bag for Industrial & Commercial Applications

- Can weld up to 1/8" and cut up to 3/4"
- Ideal for industrial and commercial applications
- With optional tips, can weld up to 3" and cut up to 8"
- Regulators come with Steel Gauge Guards
- 20' T-grade twin hoses
- 1131 is equipped with 24-CV7PR Torch End Check Valve
- 1131FA is equipped with FA7TPR Flashback Arrestors, which include built-in check valves
- Victor® Journeyman® II equivalent



1131

Model Number*	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	Welding Nozzle	T-Grade Twin Hoses	Goggles	Striker	Tip Cleaner	Check Valves
											Flashback Arrestors
1131	23"x22"x11" 29 lbs.	143T	143CA	153X-125G (OXY.) 153Y-15G (ACET.)	173C-1	173W-2	HW24-T020	9-WG6G	25-300	25-120	24-CV7PR
1131FA											FA7TPR

Acetylene Regulator Inlet Connection supplied is standard CGA 510. Inlet Connection CGA 300 is also available; to order, simply add "-3" to the outfit model number. For example: 1130-3 or 1130FA-3; 1131-3 or 1131FA-3.

Victor® & Journeyman® are registered trademarks of Victor Equipment Co., which is not associated with Genstar Technologies Co., Inc.

GOLD SERIES OUTFITS

EXCALIBUR 4121 & 4121FA

Medium Duty Outfits in Deluxe Tool Bag for All Trades

- Can weld up to 1/8" and cut up to 1"
- Ideal for ship building, construction, petroleum, and chemical industries
- With optional tips, can weld up to 1/2" and cut up to 5"
- 20' T-grade twin hoses
- 4121 is equipped with 24-CV7PR Torch End Check Valves
- 4121FA is equipped with FA7TPR Flashback Arrestors, which include built-in check valves
- Harris® Steelworker® Classic equivalent



4121

Model Number*	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	Welding Elbow	Mixer	T-Grade Twin Hoses	Goggles	Striker	Check Valves
											Flashback Arrestors
4121	21"x19"x9" 19 lbs.	442T	442C	452X-80 (OXY.) 452Y-15 (ACET.)	472C-1	472W-5	472M	HW23-T020	9-WG6G	25-300	24-CV7PR
4121FA											FA7TPR

THE BOSS 4131 & 4131FA

Heavy Duty Outfits in Deluxe Tool Bag for Industrial & General Purposes

- Can weld up to 1/8" and cut up to 1"
- Designed for all trades. Features a complete package of apparatus and accessories for general purpose and industrial use
- With optional tips, can weld up to 1" and cut up to 6"
- 20' T-grade twin hoses
- 4131 is equipped with 24-CV7PR Torch End Check Valves
- 4131FA is equipped with FA7TPR Flashback Arrestors, which include built-in check valves
- Harris® Pipeliner® Classic equivalent



4131

Model Number*	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators	Cutting Tip	Welding Elbow	Mixer	T-Grade Twin Hoses	Goggles	Striker	Check Valves
											Flashback Arrestors
4131	23"x22"x11" 22.5 lbs.	443T	443C	453X-175 (OXY.) 453Y-15 (ACET.)	472C-1	472W-5	473M	HW24-T020	9-WG6G	25-300	24-CV7PR
4131FA											FA7TPR

Acetylene Regulator Inlet Connection supplied is standard CGA 510. Inlet connection CGA 300 is also available; to order, simply add "-3" to the outfit model number. For example: 4121-3 or 4121FA-3.

Harris® Steelworker® & Pipeliner are registered trademarks of Lincoln Equipment Co., which is not associated with Genstar Technologies Co., Inc.

GOLD SERIES OUTFITS

Gas Welding & Cutting Apparatus

TOTE A TORCH 12-PT, 12-PTC & 12-PTCSP

Portable Outfit for Repair & Maintenance

- Can weld up to 3/16" and cut up to 1/2". With optional larger tips and sufficient acetylene and oxygen supply,
- Tote-A-Torch can weld up to 1-1/4" and cut up to 6"
- A light to medium duty portable outfit that is extremely popular for general maintenance work, metal sculpture, automotive repair, air conditioning, refrigeration, etc. The carrier is made of tough, lightweight polypropylene and is designed to carry one "MC" acetylene cylinder, one "R" (20 cu. ft.) oxygen cylinder, and apparatus
- Featured with this outfit are rear entry regulators for better balance on the small cylinders. The acetylene regulator has an "MC" (CGA 200) inlet connection and the oxygen regulator has the standard CGA 540 connection
- Torch handle is equipped with 24-CV7PR torch end check valves
- Regulators come with rubber gauge guards
- 12-PTCSP is the 12-PTC outfit with Anti-Theft skin package
- 3/16" x 12.5' T-grade twin hoses
- The outfit is available with or without cylinders. See chart below
- The rugged molded plastic carrier (CRT10) is also available separately
- Victor® Portable Torch equivalent



12-PTCSP



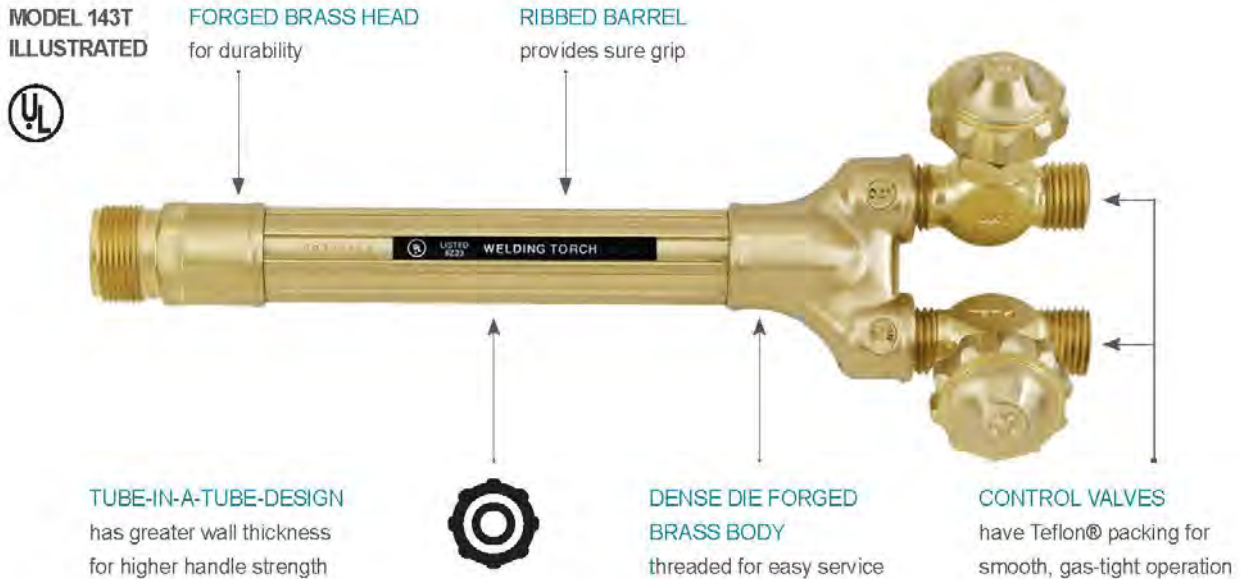
12-PTC

Model Number	Dimension / Weight	Torch Handle	Cutting Attachment	Regulators Oxygen / Acetylene	Cutting Tip	Welding Nozzle	Twin Hoses	Goggles	Striker	Plastic Carrier	Cylinders Oxygen / Acetylene
12-PT	24.5"x11"x11" 13.4 lbs.	142T	142C	210X-80G / 210Y-15G	172C-0	172W-1	HW23-T012	9-WG6G	25-300	CRT10	N/A
12-PTC	24.5"x11"x11" 36 lbs.										CY20-540 / CY10-MC
12-PTCSP	24.5"x11"x11" 36.4 lbs.										

Victor® is a registered trademark of Victor Equipment Co., which is not associated with Genstar Technologies Co., Inc.

TORCH HANDLES

Gas Welding & Cutting Apparatus



GENTEC® Torch Handles are available in light, medium, and heavy duty models. Torch handles are machined from high-quality forged brass. Threaded construction facilitates easy repairs and services.

- 140T, 141T, 142T and 143T Series feature Tube-in-a-Tube design within each torch handle
- 342T Series features Gas Saver On/Off Lever, which is designed for immediate On/Off control of the oxygen and fuel gases for precise gas control. The pilot adjustment allows for maintaining a small pilot flame for immediate acceleration of the flame on the brazing tip. 342T-Y is used with Acetylene/MAPP® and 342T-F is used with other fuel gases
- 442T and 443T both feature 2 tubes within each torch handle

Model Number	Welding Range	Weight / Length	Victor® Equivalent	Uses Cutting Attachment	Uses Welding Nozzle	Uses Heating Nozzle
140T	1-1/4"	8-1/2 oz. 6"	J-28	141C	171W, 871W, 881W G17-VMA-1 GMTW, GMTT GMTR, G17-FT G13-8VM, G17	171H 171HN
141T	1-1/4"	13.3 oz. 7-3/4"	J-100C	141C	171W, 871W, 881W G17-VMA-1 GMTW, GMTT GMTR, G17-FT G13-8VM, G17	171H 171HN
141TA						
142T	1-1/4"	13.4 oz. 7-3/4"	100C	142C	172W 172WRTE 872W	172H 172HN 872H
143T	3"	1 lb. 2 oz. 8-1/2"	315C	143CA 143ACA 143SCA	173W 173WRTE 173WRTE 873W 883W	173H 173HN 175HN 873H
143TL		1 lb. 5 oz. 11"	310C			
143TLH		1 lb. 12 oz. 11"	HD310C			

Victor® is a registered trademark of Victor Equipment Co., MAPP® is a registered trademark of BOC Group Inc., Teflon® is a registered trademark of E.I. DuPont de Nemours & Co. These companies are not associated with Genstar Technologies Co., Inc.

TORCH HANDLES



140T Light Duty
("A" size hose fitting)



141T Light Duty
141TA Light Duty
("A" size hose fitting)



142T Medium Duty



143T Heavy Duty



143TL Heavy Duty



143TLH Extra Heavy Duty

Pilot Flame Function Torch



342T-Y Light Duty



342T-F Light Duty

Model Number	Welding Range	Weight / Length	Uses Cutting Attachment	Uses Welding Nozzle	Uses Heating Nozzle
342T-Y	1/2"	0.7 lb. 6-5/8"	141C	171W, 871W, 881W G17-VMA-1 GMTW, GMTT GMTR, G17-FT G13-8VM	171H
342T-F	1/2"	0.7 lb. 7-3/4"	141C	G17 881W	171HN

Note: When using heating nozzles and cutting attachment, the Pilot Flame Function should not be used. Available with torch and check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)



442T Medium Duty



443T Heavy Duty

Model Number	Welding Range	Weight / Length	Harris® Equivalent	Uses Cutting Attachment	Uses Welding Elbow / Mixer	Uses Heating Nozzle
442T	1/2"	13.5 oz. 7-3/4"	85	442C	472W / 472M	472H-2
443T	1/2"	1.4 lbs. 9-1/2"	43-2	443C	472W / 473M	472H-2

Harris® is a registered trademarks of Lincoln Electric Co., which is not associated with Genstar Technologies Co., Inc.

CUTTING ATTACHMENTS

Gas Welding & Cutting Apparatus

MODEL 143ACA
ILLUSTRATED



STAINLESS STEEL
TUBES
for strength & long life

STAINLESS STEEL
OXYGEN LEVER
for durability

FORGED BRASS HEAD
for durability



SPIRAL MIXER
gives optimum mix
of fuel & oxygen

BRASS COUPLING NUT
AND DOUBLE O-RING SEAL
gives quick, hand tight, & leak-free operation



GENTEC® Cutting Attachments are made from high quality die-forged brass and stainless steel components. They are available in light, medium, and heavy duty models. Featuring drop-in tube mixer design, 141C, 142C, 143CA, 143ACA and 143SCA can be used with acetylene, propane, MAPP®, propylene, fuel gas, and natural gas (2 PSIG & above), 442C and 443C, both featuring a flat seat tip design and an in-head mixer, have three tubes in a triangular arrangement.

Model Number	Cutting Range	Head Angle	Weight / Length	Victor® Equivalent	Uses Torch Handle	Uses Cutting Tip
141C	3"	90°	13.8 oz. 8-1/4"	CA1260	140T, 141T 141TA, 342T	172C, 172CN 172CP, 172CG
142C	6"	90°	14 oz. 8-1/4"	CA1350	142T	172C, 172CN 172CP, 172CG
143CA	8"	90°	1 lb. 14 oz. 10-5/8"	CA2460	143T, 143TL 143TLH	173C, 173CN, 173CP 173CM, 173CG, 173CGN
143ACA		75°		CA2461		
143SCA		180°		CA2462		

CUTTING ATTACHMENTS



141C Light Duty



142C Medium Duty



143CA Heavy Duty



143ACA Heavy Duty



143SCA Heavy Duty

Model Number	Cutting Range	Head Angle	Weight / Length	Harris® Equivalent	Uses Torch Handle	Uses Cutting Tip
442C	5"	90°	1.5 lbs. 9-1/2"	72-3	442T	472C 472CN
443C	6"	90°	1.5 lbs. 9-1/2"	73-3	443T	472C 472CN



442C Medium Duty

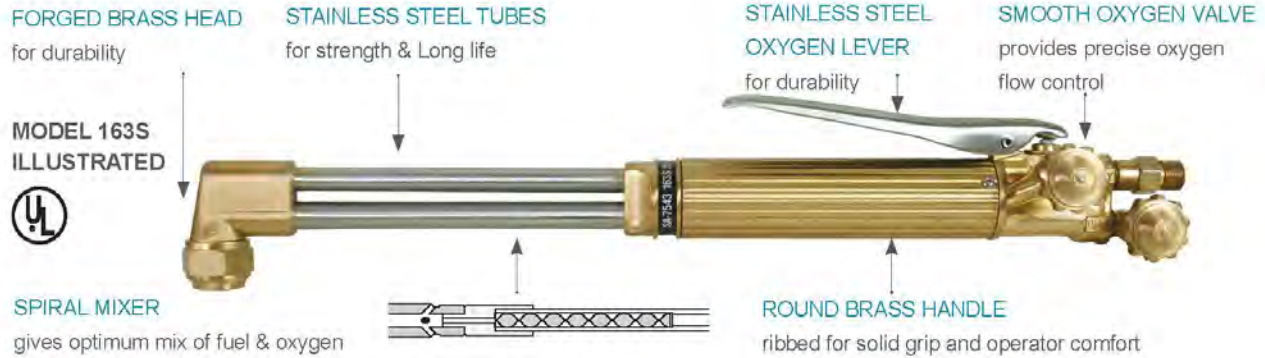


443C Heavy Duty

Harris® is a registered trademark of Lincoln Electric Co., which is not associated with Genstar Technologies Co., Inc.

HAND CUTTING TORCHES

Gas Welding & Cutting Apparatus



GENTEC® Hand Cutting Torches are machined from high-quality forged brass and stainless steel components. 161S and 163 Series feature drop-in tube mixer design. 162 Series has a triangular tube arrangement and an in-head mixer. 263 and 363S series have inline tube arrangements and can be used with any type of fuel gas, such as acetylene, propane, natural gas, propylene, and MAPP® (2 PSIG and above). 463 Series has a triangular tube arrangement, in-head mixer, and models available for oxy-acetylene and oxy-propane cutting operations. Its balanced design and rugged construction are ideal for medium/heavy duty cutting and scraping operations.

161 Series



161S-17 Medium Duty

Model Number	Cutting Range	Head Angle	Weight / Length	Victor® Equivalent	Uses Cutting Tip
161S-17	6"	90°	1 lb. 10 oz. / 17"	CST800C	172C, 172CN, 172CP, 172CG

Note: Available with torch end check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)

162 Series



162L-21 Medium Duty

Model Number	Cutting Range	Head Angle	Weight / Length	Victor® Equivalent	Uses Cutting Tip
162S-17	6"	90°	2.15 lbs. / 17"	SST900C	173C, 173CN, 173CP, 173CM, 173CG, 173CGN
162L-21	6"	90°	2.25 lbs. / 21"	ST900C	

Note: Available with torch end check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)

163 Series



163L-21 Heavy Duty

Model Number	Cutting Range	Head Angle	Weight / Length	Victor® Equivalent	Uses Cutting Tip
163S-17	14"	90°	3 lbs. / 17"	SST1600C (SST2600)	173C, 173CN, 173CP, 173CM, 173CG, 173CGN
163L-21			3.3 lbs. / 21"	ST1600C (ST2600)	
163L-27			3.7 lbs. / 27"	ST1610C (ST2610)	
163L-36			4.3 lbs. / 36"	ST1630C (ST2630)	
163L-48			5 lbs. / 48"	ST1650C (ST2650)	
163AL-21	14"	75°	3.4 lbs. / 21"	ST1601C (ST2601)	
163AL-27			3.8 lbs. / 27"	ST1611C (ST2611)	
163AL-36			4.3 lbs. / 36"	ST1631C (ST2631)	
163AL-48			5 lbs. / 48"	ST1651C (ST2651)	
163SL-21	14"	180°	3.5 lbs. / 21"	ST1602C (ST2602)	
163SL-27			3.8 lbs. / 27"	ST1612C	
163SL-36			4.3 lbs. / 36"	ST1632C (ST2632)	
163SL-48			5 lbs. / 48"	ST1652C (ST2652)	

MAPP® is a registered trademark of BOC Group, Inc., Victor® is a registered trademark of Victor Equipment Co. These companies are not associated with Genstar Technologies Co., Inc.

Note: Available with torch end check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)

HAND CUTTING TORCHES

263 Series



263S-18 Medium Duty

Model Number	Cutting Range	Weight / Length	Uses Cutting Tip
263S-18	12"	2 Lbs. 18"	672C, 673C AIRCO® STYLE CUTTING TIPS
263L-21	12"	2 Lbs. 4 oz. 21"	

Note: Available with torch end check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)

363 Series



363S-18 Heavy Duty

Model Number	Cutting Range	Weight / Length	Uses Cutting Tip
363S-18	14"	2 lbs. 7 oz. 18"	672C, 673C AIRCO® STYLE CUTTING TIPS

Note: Available with torch end check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)

463 Series for Oxy-Acetylene Only



463E-18 Medium / Heavy Duty



463EL-21 Medium / Heavy Duty

Model Number	Cutting Range	Head Angle	Weight / Length	Harris® Equivalent	Uses Cutting Tip
463AE-18	12"	70°	3 lbs. / 18"	62-5AE	472C
463AEL-21			3.1 lbs. / 21"	62-5AEL (21")	
463AEL-36			4.1 lbs. / 36"	62-5AEL (36")	
463E-18	12"	90°	3 lbs. / 18"	62-5E	472C
463EL-21			3.6 lbs. / 21"	62-5EL (21")	
463EL-36			4.1 lbs. / 36"	62-5EL (36")	
463SE-18	12"	180°	3 lbs. / 18"	N/A	472C
463SEL-21			3.1 lbs. / 21"		
463SEL-36			4 lbs. / 36"		

Note: 48" and 72" are available for special order. Available with torch end check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)

463 Series for Oxy-Fuel Gases Only



463FL-36 Medium / Heavy Duty

Model Number	Cutting Range	Head Angle	Weight / Length	Harris® Equivalent	Uses Cutting Tip
463AF-18	12"	70°	3.3 lbs. / 18"	62-5AF	472CN
463AFL-21			3.4 lbs. / 21"	62-5AFL (21")	
463AFL-36			4 lbs. / 36"	62-5AFL (36")	
463F-18	12"	90°	3.3 lbs. / 18"	62-5F	472CN
463FL-21			3.4 lbs. / 21"	62-5FL (21")	
463FL-36			4 lbs. / 36"	62-5FL (36")	
463SF-18	12"	180°	3 lbs. / 18"	62-5BF	472CN
463SFL-21			3.3 lbs. / 21"	62-5BFL (21")	
463SFL-36			4.2 lbs. / 36"	62-5BFL (36")	

Note: 48" and 72" are available for special order. Available with torch end check valves (add "-CV" to model number) or flashback arrestors (add "-FA" to model number)

Airco® is a registered trademark of Airco Welding Products Div. of BOC Group, Inc., Harris® is a registered trademark of Lincoln Electric Co. These companies are not associated with Genstar Technologies Co., Inc.

MACHINE CUTTING TORCHES

Gas Welding & Cutting Apparatus

GENTEC® Machine Cutting Torches are designed to handle all applications of machine cutting. They are available in two-hose and three-hose versions. They can be used with various fuel gases, such as Acetylene, Propane, Natural Gas, Propylene, and MAPP®.

- High quality die-forged brass
- Stainless Steel Tubes for strength and durability
- Standard 1-3/8" diameter barrel
- Four-position rack adjustment with 90° intervals
- 32 pitch rack
- Equipped with a pair of reverse flow check valves (Model 24-CV7TPR) on inlet connections for operational safety
- Two-hose version is available in MC200 models. Three-hose version is available in MC100 and MC300 models
- Compatible with Victor® Style cutting tips



For Acetylene and Other Pressurized Gases For All Fuel Gases Except Acetylene

Series	Model Number	Cutting Range	Barrel Length	Racking Length	Uses Cutting Tip
MC100	MC105A	10"	5-1/2"	N/A	173C
	MC105AR		5-1/2"	4-1/2"	
MC200	MC205A	8"	5-1/2"	N/A	173CN
	MC210A		10"	N/A	173CHP
	MC210AR		10"	7"	
MC300	MC310A	12"	10"	N/A	173CHN
	MC310AR		10"	7"	173CP
	MC318A		18"	N/A	
	MC318AR		18"	15"	

Series	Model Number	Cutting Range	Barrel Length	Racking Length	Uses Cutting Tip
MC100	MC105F	10"	5-1/2"	N/A	173C
	MC105FR		5-1/2"	4-1/2"	
MC200	MC205F	8"	5-1/2"	N/A	173CN
	MC210F		10"	N/A	173CHP
	MC210FR		10"	7"	173CHN
MC300	MC310F	12"	10"	N/A	173CP
	MC310FR		10"	7"	
	MC318F		18"	N/A	
	MC318FR		18"	15"	

Replacement Racks with Installation Screws Heating Tips

Model Number	Length
MT100-16	4-1/2"
MT200-16	7"
MT300-16	15"

■ Oxy-Acetylene



173MFTA-10
173MFTA-12

■ Oxy-Fuel



173MFTN-10
173MFTN-12

Adjustable Head (0-90°)



MC-BCHA

Preheat Attachment for MC-HT-BCHA

■ For Adjustable Head



MC-HT-BCHA

Machine Torch Holder



Z1102

MAPP® is a registered trademark of BOC Group, Inc., Victor® is a registered trademark of Victor Equipment Co. These companies are not associated with Genstar Technologies Co., Inc.

WELDING NOZZLES

Oxy-Acetylene & Oxy-Hydrogen Welding Nozzles

- Red copper tip ends
- Ideal for soldering, brazing, heating, hardfacing, etc.
- 171W, 172W, and 173W use one-piece elbow tips
- Victor® compatible

Nozzle Series	Victor® Equivalent	Sizes Available	Fits Torch Handles	Type
171W	W-J	000-6	140T, 141T 141TA, 342T-Y 10CM (000-0)	1 PIECE
172W	W-1		142T	
173W	W		143T 143TL 143TLH	



Welding Elbows & Mixers of 171W, 172W & 173W

Elbow Series	Victor® Equivalent	Sizes Available	Mixer Model Number	Victor® Equivalent	Fits Torch Handles	Nozzle Series
871W		000-4	871M	4-UM-J	140T, 141T 141TA, 342T-Y 10CM (000-0)	171W
		5, 6	871M-7	7-UM-J		
872W	ET	000-2	872M	4-UM-1	142T	172W
	ET-1	3, 4		7-UM-1		
872W	ET	000-2	873M	2-UM	143T 143TL 143TLH	173W
873W	ET	3, 4	873M-4	4-UM		
		5, 6	873M-6	6-UM		



Oxy-Acetylene Welding Elbows & Mixers

- Red copper tip ends
- Ideal for soldering, brazing, heating, hardfacing, etc.
- Harris® compatible

Elbow Series	Harris® Equivalent	Sizes Available	Mixer Model Number	Harris® Equivalent	Fits Torch Handle
472W	23A90	0-8	472M	D-85	442T
			473M	E-43	443T



Harris® is a registered trademark of The Lincoln Electric Co., Victor® is a registered trademark of Victor Equipment Co. These companies are not associated with Genstar Technologies Co., Inc.

HEATING NOZZLES

Gas Welding & Cutting Apparatus

Oxy-Acetylene & Oxy-Hydrogen Heating Nozzles

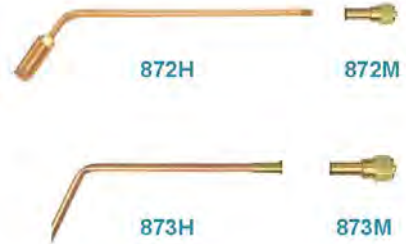
- Ideal for preheating, straightening, etc.
- 173H-12 and 173H-15 are also used for propylene based fuel gases and MAPP®
- G17-VMA-1 is designed for heating in confined areas
- Victor® compatible

Nozzle Series	Victor® Equivalent	Sizes Available	Fits Torch Handles
G17-VMA-1	VMA-1-15	1	140T, 141T, 141TA, 342T-Y
171H	MFA-J	2, 4, 6	140T, 141T, 342T-Y
172H	MFA-1	2, 4, 6, 8	142T
173H	MFA	4, 6, 8, 10, 12, 15	143T, 143TL, 143TLH



Heating Elbows & Mixers of 171H, 172H & 173H

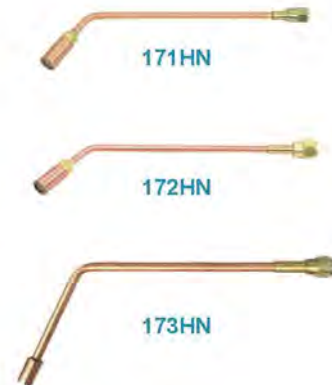
Elbow Series	Sizes Available	Mixer Model Number	Nozzle Series	Fits Torch Handles
871H	2, 4, 6	871M-7	171H	140T, 141T, 141TA, 342T-Y
872H	2, 4, 6	872M	172H	142T
	8	873M-7		
873H	4, 6, 8, 10, 12, 15	873M-10	173H	143T, 143TL, 143TLH



Oxy-Propane, Oxy-Propylene & Oxy-Natural Gas Heating Nozzles

- Ideal for preheating, straightening, etc.
- Heavy swaged copper tip with recessed face

Nozzle Series	Victor® Equivalent	Sizes Available	Fits Torch Handles
171HN	MFN-J	6, 8	140T, 141T, 141TA, 342T-Y
172HN	MFN-1	6, 8	142T
173HN	MFN	8, 10, 12, 15, 20	143T, 143TL, 143TLH



Victor® is a registered trademark of Victor Equipment Co., which is not associated with Genstar Technologies Co., Inc.

HEATING NOZZLES

Oxy-Acetylene Heating Elbows & Mixers

- Ideal for preheating & straightening
- Harris® compatible



Model Number	Harris® Equivalent	Size Available	Mixer Model Number	Harris® Equivalent	Fits Torch Handles
472H-2	J-63-2	2	472M	D-85	442T
			473M	E-43	443T

175HN Fuel Gas (Except Acetylene) Heating Nozzles

- Use with any fuel gas except acetylene
- Components of 175HN series are available
- Replaceable red copper heating tips for longer service
- Threaded elbows provide the extension of these nozzles
- Ideal for pre-heating, straightening, etc.
- Victor® type 55 compatible



Nozzle Series	Victor® Equivalent	Sizes Available	Fits Torch Handles	Total Length
175HN	TYPE 55	10, 15, 20	143T 143TL 143TLH	28"

Heating Elbows



Model Number	Length	Angle	Fits Torch Handles
875HEL-14	14"	65°	143T 143TL 143TLH
875HEL-26	26"	65°	
875HEL-28	28"	180°	

Heating Head & Mixer



Head Series	Sizes Available	Mixer Model Number
875HRB	10, 15, 20	876M

Victor® is a registered trademark of Victor Equipment Co., Harris® is a registered trademark of The Lincoln Electric Co. These companies are not associated with Genstar Technologies Co., Inc.

190 SERIES

Light Duty Single Stage Regulators

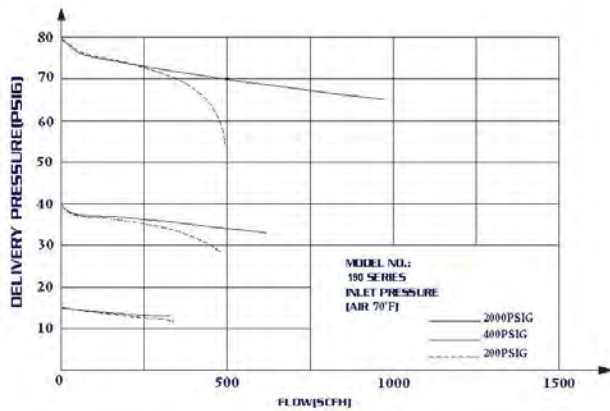
Gas Welding & Cutting Apparatus

With a lightweight, compact, and single-stage design, they are ideal for light to medium duty gas welding, cutting, and heating applications.

- Body is machined from class "A" brass
- Chrome-plated housing cap
- Internal pressure relief valve
- Sintered bronze inlet filter
- Stem-type seat assembly for more reliable seating
- 2" gauges for easy reading
- 1-1/4" diaphragm
- Weight: 2 lbs 1 oz
- UL listed



190



Model Number	Gas Service	Maximum Inlet Pressure (PSI)	Maximum Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
190F-80	L.P. GAS	400	4-80	2", 400PSI	2", 100PSI	CGA510	9/16" - 18LH(M)
190X-80	OXYGEN	3000	4-80	2", 4000PSI	2", 100PSI	CGA540	9/16" - 18RH(M)
190Y-15	ACETYLENE	400	2-15	2", 4000PSI	2", 30PSI, RL	CGA510	9/16" - 18LH(M)
190Y-15-3						CGA300	
190Y-15-5						CGA520	
190IN-80	INERT GAS (Ar, He, N ₂)	3000	4-80	2", 4000PSI	2", 100PSI	CGA580	5/8" - 18RH(F)
190IN-175			5-175	2", 4000PSI	2", 300PSI		5/8" - 18RH(F)
190IN-175-F			5-175	2", 4000PSI	2", 300PSI		1/4" SAE FLARE
190C-175	CARBON DIOXIDE	3000	5-175	2", 4000PSI	2", 300PSI	CGA320	5/8" - 18RH(F)
190C-175-F							1/4" SAE FLARE
190H-80	HYDROGEN METHANE	3000	4-80	2", 4000PSI	2", 100PSI	CGA350	9/16" - 18LH(M)

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf / cm², 1 scfh = 0.0283 m³/h = 0.472 LPM

210 & 210Y1 SERIES

Light Duty Single Stage Regulators

Featuring a compact rear entry design to meet the demands of special installation, these regulators are best for light to medium duty gas welding, cutting and heating applications, such as industrial maintenance, farm and shop repair, hobby, crafts and home care.

- Rear entry inlet construction
- Body is machined from class "A" brass
- Chrome-plated housing cap
- Internal pressure relief valve
- Sintered bronze inlet filter
- Stem-type seat assembly for more reliable seating
- Plastic adjustment knob for smooth "easy touch" pressure setting
- 2" gauges for easy reading. 210 Series has two gauges and 210Y1 Series has one gauge (inlet gauge) only
- 1-1/4" diaphragm
- Rubber gauge protectors are color coded: green for Oxygen (GP20X) and red for Acetylene (GP20Y)
- Weight: 210 Series: 2 lbs 3 oz
- 210Y1 Series: 1 lb 14 oz
- UL Listed



210



210Y1

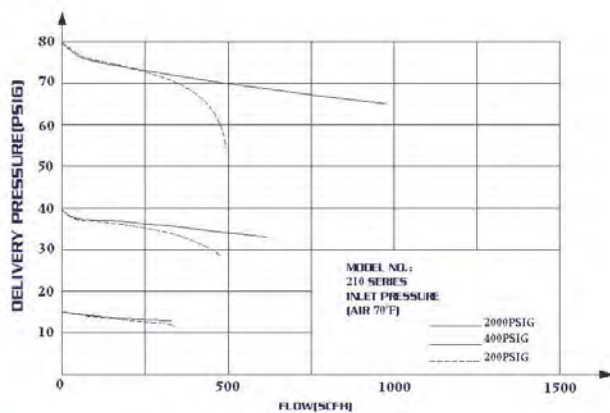
Gauge Guard Models



210X-80G



210Y-15G



Model Number	Gas Service	Maximum Inlet Pressure (PSI)	Maximum Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
210F-80	PROPANE	400	4-80	2", 400PSI	2", 100PSI	CGA510 REAR	9/16" - 18LH(M)
210X-80	OXYGEN	3000	4-80	2", 4000PSI	2", 100PSI	CGA540 REAR	9/16" - 18RH(M)
210X-80-A							3/8" - 24RH(M)
210Y-15	ACETYLENE	400	2-15	2", 400PSI	2", 30PSI, RL	CGA200 "MC" REAR	9/16" - 18LH(M)
210Y-15-5							9/16" - 18LH(M)
210Y-15-A							3/8" - 24LH(M)
210Y-15-510							9/16" - 18LH(M)
210Y-15-510-A							3/8" - 24LH(M)
210Y-15-3							9/16" - 18LH(M)
210Y-15-3-A							3/8" - 24LH(M)
210Y1-15-B	ACETYLENE	400	2-15	2", 400PSI	NONE	CGA520 REAR	9/16" - 18LH(M)
210Y1-15-M							3/8" - 24LH(M)

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf / cm², 1 scfh = 0.0283 m³/h = 0.472 LPM

152 SERIES

Medium Duty Single Stage Regulators

Gas Welding & Cutting Apparatus

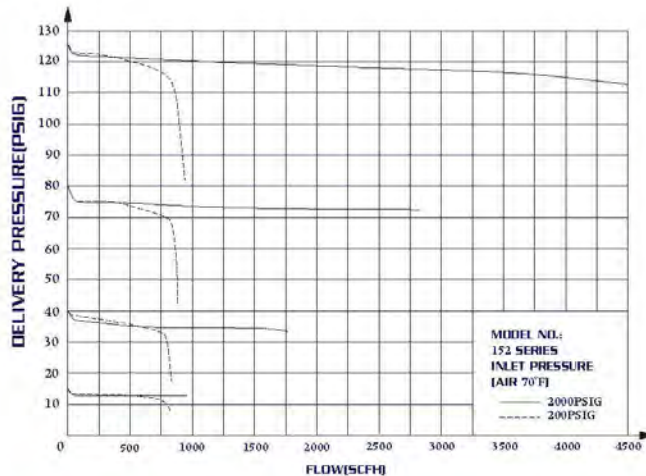
152 Series Regulators

Designed for medium duty gas welding, cutting, and heating applications. These regulators are ideal for industrial applications, farm repairs and laboratory testing, etc.

- Forged brass body and housing cap
- Delrin-cap bushing for smooth adjustments
- Self re-seating external pressure relief valve on oxygen, inert gas, and air models
- Sintered bronze inlet filter
- Stem-type seat assembly for more reliable performance
- 2" gauges for easy reading
- 2" diaphragm
- Steel Gauge Protectors are color coded: green for Oxygen (GP21X) and red for Acetylene (GP21Y)
- Weight: 2 lbs 11 oz
- UL Listed



152



Gauge Guard Models



152X-80G
152X-125G



152Y-15G
152Y-15-3G
152Y-15-5G

Model Number	Gas Service	Maximum Inlet Pressure (PSI)	Maximum Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
152F-80	L.P. GAS	400	4-80	2", 400PSI	2", 100PSI	CGA510	9/16" - 18LH(M)
152X-80	OXYGEN	3000	4-80	2", 4000PSI	2", 100PSI	CGA540	9/16" - 18RH(M)
152X-125	OXYGEN	3000	5-125	2", 4000PSI	2", 200PSI	CGA350	9/16" - 18RH(M)
152Y-15	ACETYLENE	400	2-15	2", 400PSI	2", 30PSI, RL	CGA510	9/16" - 18LH(M)
152Y-15-3						CGA300	
152Y-15-5						CGA520	
152IN-125	INERT GAS (Ar, He, N ₂)	3000	5-125	2", 4000PSI	2", 200PSI	CGA580	5/8" - 18RH(F)
152Q-15	AIR	3000	2-15	2", 4000PSI	2", 30PSI	CGA346	5/8" - 18RH(M)
152Q-125			5-125		2", 200PSI		
152H-15	HYDROGEN METHANE	3000	2-15	2", 4000PSI	2", 30PSI	CGA350	9/16" - 18LH(M)
152H-40		3000	2-40	2", 4000PSI	2", 60PSI	CGA350	9/16" - 18LH(M)
152H-125		3000	5-125	2", 4000PSI	2", 200PSI	CGA350	9/16" - 18LH(M)

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf/cm², 1 scfh = 0.0283 m³/h = 0.472 LPM

452 SERIES

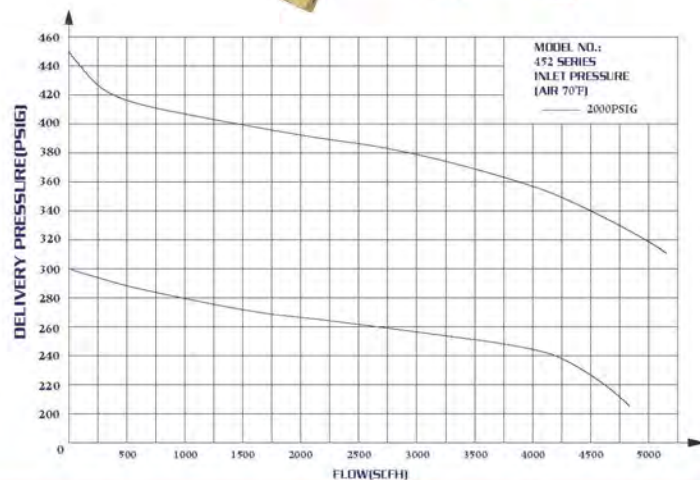
Medium to Heavy Duty Single Stage Regulators

452 Series Regulators

Designed for medium to heavy duty gas welding, cutting, and heating applications, 452 Series is a Harris® style regulator with a 2-3/4" diaphragm and a Victor® style seat mechanism.



- 2" gauges for easy reading
- Stem-type seat assembly for more reliable performance
- Forged brass body
- Chrome-plated housing cap for fuel gas and oxygen models
- Self re-seating external pressure relief valve on oxygen, inert gas, CO2 and nitrogen models
- Sintered bronze inlet filter
- Weight: 3 lbs
- UL listed



Model Number	Gas Service	Maximum Inlet Pressure (PSI)	Maximum Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
452F-40	L.P. GAS	400	2-40	2", 400PSI	2", 60PSI	CGA510	9/16" - 18LH(M)
452F-125			5-125		2", 200PSI		
452X-80	OXYGEN	3000	4-80	2", 4000PSI	2", 100PSI	CGA540	9/16" - 18RH(M)
452X-175			5-175		2", 300PSI		
452Y-15	ACETYLENE	400	2-15	2", 400PSI	2", 30PSI, RL	CGA510	9/16" - 18LH(M)
452Y-15-3					CGA300		
452Y-15-5					CGA520		
452C-175	CARBON DIOXIDE	3000	5-175	2", 4000PSI	2", 300PSI	CGA320	5/8" - 18RH(F)
452C-175-F			5-175		2", 300PSI		1/4" SAE FLARE
452C-300			20-300		2", 400PSI		5/8" - 18RH(F)
452C-300-F			20-300		2", 400PSI		1/4" SAE FLARE
452IN-80	INERT GASES (Ar, He) NITROGEN	3000	4-80	2", 4000PSI	2", 100PSI	CGA580	5/8" - 18RH(F)
452IN-175			5-175		2", 300PSI		5/8" - 18RH(F)
452IN-175-F			5-175		2", 300PSI		1/4" SAE FLARE
452IN-300			20-300		2", 400PSI		5/8" - 18RH(F)
452IN-300-F			20-300		2", 400PSI		1/4" SAE FLARE
452IN-450			30-450		2", 600PSI		5/8" - 18RH(F)
452IN-450-F			30-450		2", 600PSI		1/4" SAE FLARE
452IN-175-F-680			INERT GASES (Ar, He) NITROGEN		5500		5-175
452IN-450-F-680	30-450	2", 600PSI					

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf/cm2, 1 scfh = 0.0283 m3/h = 0.472 LPM

Harris® is a registered trademark of The Lincoln Electric Co., Victor® is a registered trademark of Victor Equipment Co. These companies are not associated with Genstar Technologies Co., Inc.

453 SERIES

Medium to Heavy Duty Single Stage Regulators

Gas Welding & Cutting Apparatus

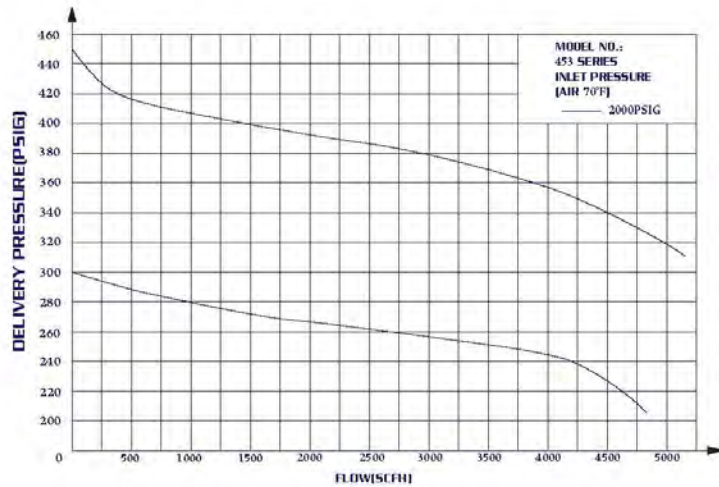
453 Series Single Stage Regulators

Designed for medium to heavy duty gas welding, cutting and heating applications, these single-stage regulators provide top performance in a wide variety of industrial and laboratory applications.

- Steel Gauge Protectors are color coded: green for Oxygen
- (GP32X) and red for Acetylene (GP32Y)
- Self re-seating external pressure relief valve on oxygen models
- Conforms to CGA E-4 standard for gas pressure regulators
- Stem-type seat assembly for more reliable performance
- Forged brass body
- 2-1/2" gauges for easy reading
- 2-3/4" diaphragm
- Weight: 3 lbs 8 oz



453



Gauge Guard Models



453X-175G



453Y-15G
453Y-15-3G

Model Number	Gas Service	Maximum Inlet Pressure (PSI)	Maximum Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
453X-175	OXYGEN	3000	5-175	2-1/2", 4000PSI	2-1/2", 300PSI	CGA540	9-16" - 18RH(M)
453Y-15	ACETYLENE	400	2-15	2-1/2", 400PSI	2-1/2", 30PSI, RL	CGA510	9-16" - 18LH(M)
453Y-15-3						CGA300	

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf / cm², 1 scfh = 0.0283 m³/h = 0.472 LPM

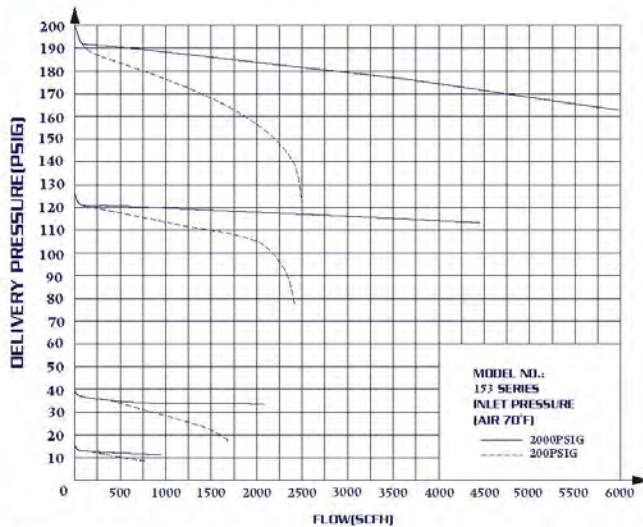
153 SERIES

Heavy Duty Single Stage Regulators

153 Series Single Stage Regulators

Designed for heavy duty gas welding, cutting, and heating applications. These regulators are ideal to use for steel fabrication, ship building, metallurgical and chemical industries.

- 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
- Forged brass body and housing cap
- Self re-seating external pressure relief valve on oxygen, inert gas, air, CO₂, and hydrogen models
- Sintered bronze inlet filter
- Steel Gauge Protectors are color-coded: green for Oxygen (GP32X) and red for Acetylene (GP32Y) Models
- Weight: 4 lbs 13 oz
- UL listed



Gauge Guard Models



153X-125G



153Y-15G
153Y-15-3G

Model Number	Gas Service	Maximum Inlet Pressure (PSI)	Maximum Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
153F-125	L.P. GAS	400	5-125	2-1/2", 400PSI	2-1/2", 200PSI	CGA510	9/16" - 18LH(M)
153X-125	OXYGEN	3000	5-125	2-1/2", 4000PSI	2-1/2", 200PSI	CGA540	9/16" - 18RH(M)
153X-250			10-250		2-1/2", 400PSI		
153Y-15	ACETYLENE	400	2-15	2-1/2", 400PSI	2-1/2", 30PSI, RL	CGA510	9/16" - 18LH(M)
153Y-15-3					CGA300		
153IN-125	INERT GAS (Ar, He, N ₂)	3000	5-125	2-1/2", 4000PSI	2-1/2", 200PSI	CGA580	5/8" - 18RH(F)
153IN-250			10-250		2-1/2", 400PSI		5/8" - 18RH(F)
153IN-250-F			10-250		2-1/2", 400PSI		1/4" SAE FLARE
153Q-125	AIR	3000	5-125	2-1/2", 4000PSI	2-1/2", 200PSI	CGA590	5/8" - 18RH(F)
153Q-200			10-200		2-1/2", 400PSI	CGA346	9/16" - 18RH(M)
153C-125	CARBON DIOXIDE	3000	5-125	2-1/2", 4000PSI	2-1/2", 200PSI	CGA320	5/8" - 18RH(F)
153C-200			10-200		2-1/2", 400PSI		
153H-125	HYDROGEN METHANE	3000	5-125	2-1/2", 4000PSI	2-1/2", 200PSI	CGA350	9/16" - 18LH(M)
153H-200			10-200		2-1/2", 400PSI		

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf/cm², 1 scfh = 0.0283 m³/h = 0.472 LPM

190 SERIES

Light Duty Flow Gauge Regulators

Gas Welding & Cutting Apparatus

190AR1 Series Flow Gauge Regulators

Model 190AR1 Series Flow Gauge Regulators are designed for light duty MIG applications to provide accurate regulation of gas flow, and reliable performance in commercial, industrial and laboratory applications.

- 2" flow gauge for easy reading
- Body machined from class "A" brass
- Chrome-plated housing cap
- Internal pressure relief design
- Sintered bronze inlet filter
- Plastic adjustment knob for smooth "easy touch" flow settings
- 0 - 50 SCFH argon (Ar) flow
- Weight: 1 lb 15 oz
- UL listed



190AR1

Model Number	Gas Service	Flow Capacity (SCFH)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
190AR1-50	ARGON, AR/CO ₂ MIX	0-50	NONE	2", 50SCFH	CGA580	5/8" - 18RHF, .032 ORIFICE
190AR1-50-B						3/16" BARB, .032 ORIFICE
190AR1-50-P						5/32" PUSH-IN-TUBE, .032 ORIFICE

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf / cm², 1 scfh = 0.0283 m³/h = 0.472 LPM

190 Series Flow Gauge Regulators

Model 190 Series "MIG METER" Flow Gauge Regulators are designed for MIG & TIG applications to provide accurate regulation of gas flow. They are ideal for commercial, industrial and laboratory applications.

- 2" gauges for easy reading
- Forged brass body and housing cap
- Chrome plated housing cap
- Internal pressure relief design
- Accurate measurement of gas flow up to 50 SCFH
- Choice of inlet connections for argon (CGA 580) or carbon dioxide (CGA 320)
- Plastic adjustment knob for smooth "easy touch" flow settings
- Weight: 2 lbs 3 oz
- UL listed



190AR

Model Number	Gas Service	Flow Capacity (SCFH)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
190AR-50	ARGON, AR/CO ₂ MIX	0-50	2", 4000PSI	2", 50SCFH	CGA580	5/8" - 18RHF, .032 ORIFICE
190AR-50-B						3/16" BARB, .032 ORIFICE
190AR-50-P						5/32" PUSH-IN-TUBE, .032 ORIFICE
190CD-45	CARBON DIOXIDE	0-45	2", 4000PSI	2", 50SCFH	CGA320	5/8" - 18RHF, .032 ORIFICE

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf / cm², 1 scfh = 0.0283 m³/h = 0.472 LPM



Gas Welding & Cutting Apparatus

152 SERIES

Medium Duty Flow Gauge Regulators

152 Series Flow Gauge Regulators

Model 152 Series Flow Gauge Regulators are designed for MIG & TIG applications to provide accurate regulation of gas flow. They also provide reliable performance in commercial, industrial and laboratory applications.

- Accurate measurement of gas flow up to 100 SCFH
- Body and housing cap are machined from class "A" brass
- External pressure relief valve
- Lightweight, rugged construction
- Sintered bronze inlet filter
- Stem type seat assembly for more reliable performance
- Weight: 2 lbs 15 oz

**152CD**

Model Number	Gas Service	Flow Capacity (SCFH)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection
152AR-100	ARGON, AR/CO ₂ MIX	0-100	2", 4000PSI	2", 100SCFH	CGA580	5/8" - 18RHF, .032 ORIFICE
152CD-100	CARBON DIOXIDE	0-100	2", 4000PSI	2", 100SCFH	CGA320	5/8" - 18RHF, .032 ORIFICE

1 psi = 0.00689 MPa = 6.895 kPa = 0.06895 bar = 0.07 kgf / cm², 1 scfh = 0.0283 m³/h = 0.472 LPM

220, 227 & 229 SERIES

Compact Pre-Set Gas Regulators

Gas Welding & Cutting Apparatus

220 Flow Regulators "PACER"

Model 220 "PACER" Flow Regulators are designed for light duty MIG applications where compact size and preset delivery flow are desirable. Piston-type mechanism provides reliable performance.

- "Piston" type cylinder pressure indicator
- 30 SCFH preset argon flow
- Integral CGA 580 inlet with sintered bronze inlet filter
- Weight: 9.7 oz

**220-50**

Model Number	Gas Service	Maximum Delivery Pressure (PSI)	Inlet Gauge	Outlet Gauge	Inlet Connection	Outlet Connection	Equivalent
220-50	ARGON, AR/CO ₂ MIX	50	PISTON INDICATOR	NONE	CGA580	3/16" BARB, .032 ORIFICE	F.R.O.G.

191 & 791AR-60 SERIES

Medium Duty & Economical Light Duty Flowmeter Regulators

191 Series Flowmeter Regulators

Model 191 Series Flowmeter Regulators are designed for MIG & TIG applications to provide accurate regulation of gas flow. They are also ideal for commercial, industrial and laboratory applications.

- Combination of regulator and flowmeter as one compact unit
- Regulator is preset at 50PSIG
- Piston-type construction
- Body machined from class "A" brass
- Internal pressure relief valve
- Polycarbonate flow tube and hood are impact resistant for maximum durability and service life
- Calibrated for argon, CO₂, helium, nitrogen, air, and 75% argon / 25% CO₂ mixed gases
- Backpressure compensated to ensure accurate readings when line restrictions are present
- Sintered bronze inlet filter
- Comes with 5/8"-18RH Female fitting (with the attached Adaptor) and 9/16"-18RH
- Male fitting (without adaptor)
- Weight: 1 lbs. 10 oz
- Conforms to CGA E-4 Standard for Gas Pressure Regulators



191

Model Number	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
191AR-60	ARGON, AR/CO ₂ MIX	50	1-1/2", 4000PSI	60	CGA580	5/8" - 18RH(F)/9/16"-18RH(M)
191HE-150	HELIUM			150	CGA580	
191CD-60	CARBON DIOXIDE			60*	CGA320	
191NR-70	NITROGEN			70	CGA580	
191QR-70	AIR			70	CGA590	

*Maximum Actual Flow 30SCFH with Continuous Cold Carbon Dioxide

791AR-60 Flowmeter Regulator

791AR-60 Economical Flowmeter Regulator is designed for Light Duty MIG & TIG applications.

- Compact lightweight construction
- Piston-type construction
- Forged Brass Body
- Calibrated for argon, and 75% argon / 25% CO₂ mixed gases
- Backpressure compensated to ensure accurate readings
- Sintered bronze inlet filter
- Compact Inlet Gauge



791AR

Model Number	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
791AR-60	ARGON, AR/CO ₂ MIX	50	1-1/2", 4000PSI	60	CGA580	5/8" - 18RH(F)

195 & 195T SERIES

Heavy Duty Flowmeter Regulators

Gas Welding & Cutting Apparatus

195 & 195T Heavy Duty "MIG MASTER" Flowmeter Regulators

Model 195 Series "MIG MASTER" Flowmeter Regulators are designed for MIG & TIG applications to provide accurate regulation of gas flow. They are also ideal for commercial, industrial, and laboratory applications.

- Regulator is preset at 50PSIG
- 195 Series has single-stage construction and 195T Series has two-stage construction
- Polycarbonate flow tube and hood are impact resistant for maximum durability and service life
- Calibrated for argon, helium, carbon dioxide and 75% argon / 25% CO₂ mixed gases
- 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
- Chrome-plated housing cap of regulator
- Internal pressure relief design
- Sintered bronze inlet filter
- Weight: 2 lbs 15 oz
- UL Listed



Model Number	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
195AR-60	ARGON	50	2", 4000PSI	60	CGA580	5/8" - 18RH(F)
195AR-60-680			2", 6000PSI		CGA680	
195HE-150	HELIUM		2", 4000PSI	150	CGA580	
195HE-150-680			2", 6000PSI		CGA680	
195CD-60	CARBON DIOXIDE		2", 4000PSI	60*	CGA320	
195TAR-60	ARGON		50	2", 4000PSI	60	
195THE-150	HELIUM	150			CGA580	
195TCD-60	CARBON DIOXIDE	60*			CGA320	

*Maximum Actual Flow 30SCFH with Continuous Cold CO₂

196 DUAL & 195FM SERIES

Dual Flowmeter Regulators & Flowmeters

Gas Welding & Cutting Apparatus

196 Series Dual Flowmeter Regulators

Model 196 Series Flowmeter Regulators are designed for MIG & TIG applications to provide accurate regulation of gas flow. They are also ideal for commercial industrial and laboratory applications.

- Regulator is preset at 50PSIG
- Body machined from class "A" brass
- Single-stage construction
- Monitoring two separate gas flow settings at the same time
- 2" gauge and two 195FM flowmeters
- Polycarbonate flow tube and hood are impact resistant for maximum durability and service life
- Calibrated for argon, helium and 75% argon / 25% CO₂ mixed gases
- Flowmeter is backpressure compensated to ensure accurate readings when line restrictions are present
- Sintered bronze inlet filter
- Weight: 4 lbs 10 oz
- Conforms to CGA E-4 Standard for Gas Pressure Regulators



196

Model Number	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
196AR-60	ARGON, AR/CO ₂ MIX	50	2", 4000PSI	60	CGA580	5/8" - 18RH(F)
196HE-150	HELIUM			150		

195FM Series Flowmeters

Model 195FM Series Flowmeters are designed for accurate regulation of gas flow.

- Maximum inlet pressure 50PSI
- Body machined from class "A" brass
- Polycarbonate flow tube and hood are impact resistant for maximum durability and service life
- Backpressure compensated design ensures accurate readings when line restrictions are present
- Calibrated for argon, CO₂ and 75% argon / 25% CO₂ mixed gases at 50 PSI inlet pressure
- Easy to "fine-tune" flow settings with adjustable brass knob
- Weight: 1 lb 2 oz
- UL Listed



195FM

Model Number	Gas Service	Maximum Inlet Preset (PSI)	Flowmeter Range (SCFH)	Inlet Connection	Outlet Connection
195FM	ARGON, AR/CO ₂ MIX	50	0-60	1/4" NPT(M)	5/8" - 18RH(F)
195FM-5				5/8"-18RH(M)	
195FM-9				9/16"-18RH(F)	
195FM-7				7/8"-14RH(F)	

Gas Welding & Cutting Apparatus

198CD-60 & 199CD-60

Electrically Heated & Radiator Flowmeter Regulators

198CD-60 Electrically Heated Flowmeter Regulator for CO₂

Model 198CD-60 Electrically-Heated Flowmeter Regulator for CO₂ is designed for applications requiring high gas flow rates, up to 60 SCFH without freezing.

- Regulator is preset at 50 PSI
- Thermostatically-controlled built-in electric heater keeps the CO₂ warm and provides continuous duty cycle without freezing
- 110VAC / 190W heater is standard
- Voltage output will vary in some locations.
- Please specify your voltage requirements when ordering
- Flowmeter is backpressure compensated to ensure accurate reading when line restrictions are present
- Forged brass body and housing cap
- Sintered bronze inlet filter
- Weight: 4 lbs 11 oz

**198CD-60**

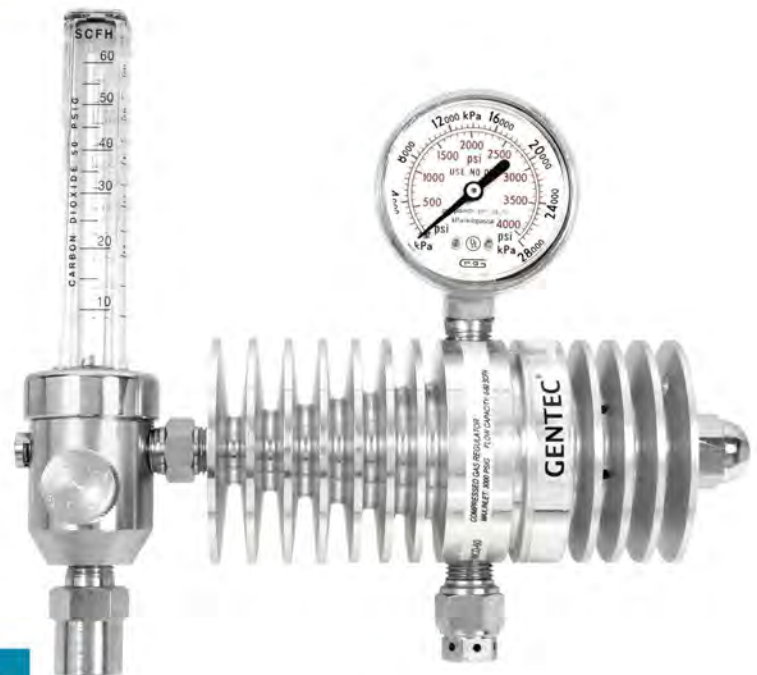
Model Number	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
198CD-60	CARBON DIOXIDE	50	2", 4000PSI	60	CGA320	5/8" - 18RH(F)

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

199CD-60 Radiator Flowmeter Regulator for CO₂

Model 199CD-60 Radiator-Type Regulator / Flowmeter for CO₂ is designed for applications requiring high gas flow rates, up to 60 SCFH without freezing.

- Flowmeter is backpressure compensated to ensure accurate reading when line restrictions are present
- Regulator is preset to deliver 50 PSI into the flowmeter which is calibrated to operate at 50 PSI
- Anodized aluminum body
- Sintered bronze inlet filter
- Weight: 4 lbs

**199CD-60**

Model Number	Gas Service	Outlet Pressure Preset (PSI)	Inlet Gauge	Flowmeter (SCFH)	Inlet Connection	Outlet Connection
199CD-60	CARBON DIOXIDE	50	2", 4000PSI	60	CGA320	5/8" - 18RH(F)

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



BALLOON INFLATORS



Depend on Western rental inflators to take tough duty and abuse in stride.



Improved tilt valve design
Guaranteed not to leak !

R125 Economy Rental Inflator

Your basic economy rental inflator. Features horizontal one-piece construction, tilt valve and handtight cylinder connection. No gauge. No tie hook. A tough simple inflator for simple duty !

R125

FAST, HANDTIGHT SEAL !

SAFETY FIRST ! Never allow children or unqualified people to operate balloon inflating equipment.



Easy to read contents gauge

Replaceable rubber tilt valve

Handtight seal NO WRENCH REQUIRED

Compact one piece design

R125G

R125G

Economy Rental Inflator with Gauge
Ideal for rentals that require a cylinder contents gauge. The R125G is our most economical handtight gauge inflator. A great value !

SAFETY FIRST ! Never allow anyone to inhale helium from filling equipment or balloons. Inhaling gases will cause serious injury.

RPB-6HG



RPB-6 Series Economy Tilt Valve Inflators

Our most popular latex inflators feature a piston design with rubber tilt valve for fast inflation of latex and mylar balloons. All models include new tie hook design for use with tie discs for fast efficient sealing of latex balloons.

- RPB-6H Handtight Model
- RPB-6HG Handtight with Contents Gauge

RPB-5HG



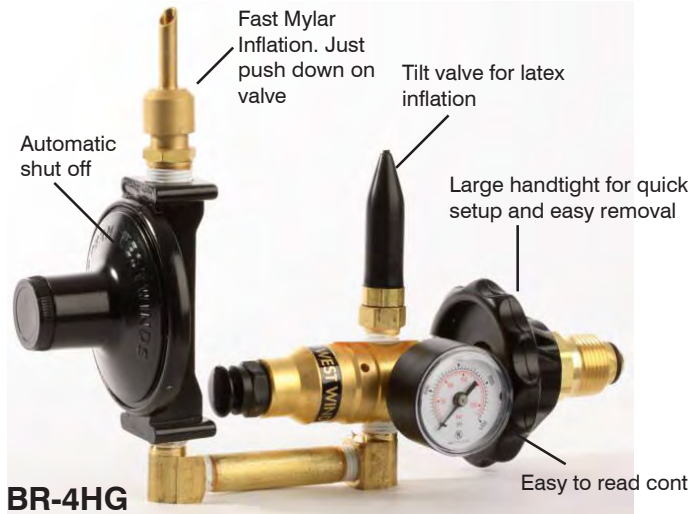
RPB-5 Series Deluxe Tilt Valve Inflators

High performance diaphragm inflators feature leak free design and provides for stable delivery pressure regardless of tank pressure. Lasts four times longer than ordinary piston inflators. Includes tie hook.

- RPB-5H Handtight Model
- RPB-5HG Handtight with Contents Gauge

REALLY! Western Diaphragm Type Inflators Are So Advanced, They...

- are easily adjusted to increase outlet pressures to 125 PSI.
- are all equipped with an internal safety relief device.
- all include filters to protect against contaminant and dirt damage
- last four times longer than piston type inflators.
- cost only a few dollars more than the ordinary piston type inflators.



BR-4HG

Automatic Mylar / Latex Inflator

This compact, dual purpose inflator gives you (1) mylar inflating with automatic shut off, and (2) tilt valve inflating of latex balloons. No setting up for one or the other. Automatic shut off prevents wasteful mylar balloon bursts. Comes with handtight cylinder connection, contents gauge and tie hook.

RPB-62HGV Automatic Mylar / Latex Inflator - Vertical Style

Compact design provides for close fit to helium cylinder. Unit can be used to fill mylar balloons upside down or in upward position. Complete with handtight connection, contents gauge and tie hook.



BR-4HG Automatic Mylar / Latex Inflator
RPB-62HGV Vertical Auto Mylar / Latex

Save 40% of your helium

B4GHT-06

60/40 Helium Air Mixer Inflators

Mixing air with helium increases the amount of balloons that can be inflated from a helium cylinder. Ideal for give-away balloons at special events. Includes hand tight connection and cylinder contents gauge.

- Saves 40% of helium cost.
- Durable Brass Push Down Valve.

B4GHT-06 60/40 Helim Air Mixer Inflator



B4GHT-06

Replacement Valve and Tip Attachments

SAFETY FIRST ! Balloon inflator repairs should be performed by trained personnel only.

Valves

- A. RPB-5-1V 1/4" Male NPT tilt valve
- B. RPB-5-2V 1/4" Male NPT tilt valve with mylar tip
- C. RPB-5-1FV Replacement mylar tip for tilt valve
- D. RPB-5-1P 1/4" Male NPT push valve* (* accepts all tip attachments)

Tips

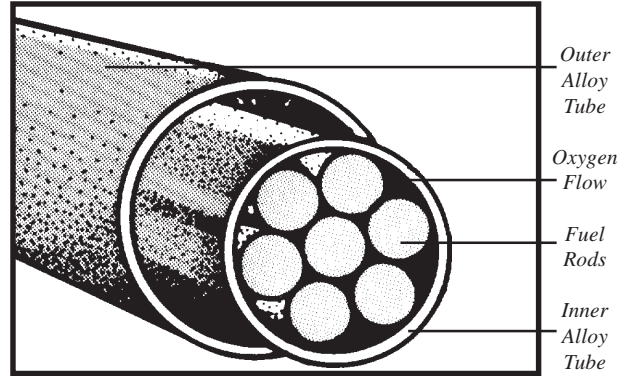
- E. RPB-5-1F Mylar balloon tip attachment
- F. RPB-5-1L Latex balloon tip attachment
- G. RPB-5-1N Needle tip for valved, plugged latex balloons
- H. RPB-5-1X Helium/Air mixer attachment (60% helium/40% air)
- I. RPB-5-1Z Adjustable helium/air mixer



Oxylance Burning Bars

The **Oxylance Burning Bar** is a 10' 6" consumable thermal pipe designed to economically cut, sever or burn holes through all types of ferrous and non-ferrous metals and materials more efficiently and cleaner than any conventional bar on the market today. It effectively cuts through all types of metals and materials such as copper, slag, steel, cast steel, cast iron, concrete and refractories. The distinguishing feature of the **Oxylance Burning Bar** is the double wall construction with a core of mild steel rods. This unique structure allows oxygen to flow freely around and also through the intercore, giving the following advantages over competitive bars in the same price class:

- 25% more work accomplished per bar.
- Lasts 20% longer than conventional bars.
- Outer wall acts as a shroud, greatly reducing spread of flame and slash-back on operator.
- Uses less oxygen than conventional bars.



10' 6" Standard Burning Bar (Thermic Torch)

SIZE / PART #		.675" O.D. 3/8" pipe / 11/16" tube (Weight 10 lbs ea.)	OXYGEN FLOW
.675" X 3/8"	CALDO-11/16	.675" X 10'6" Plain End	90 psi 30 cfm 150 psi 45 cfm Burn Time 4.5 Min.
	BBQC-675	.675" X 10'6" Quick Connect	
	BBTC-675	.675" X 10'6" Threaded on Holder End (3/8" npt)	
	67B1050F	.675" X 10'6" Threaded Both Ends with 3/8" pipe collar	

SIZE / PART #		.625" O.D. 5/8" tube (Weight 9 lbs ea.)	OXYGEN FLOW
.625" X 10'6"	62B1050A	.625" X 10'6" Plain End	90 psi 25 cfm 150 psi 40 cfm Burn Time 4.5 Min.
	62B1050C	.625" X 10'6" Quick Connect	
	.625" Burning Bars not available with threads		

SIZE / PART #		.540" O.D. / 1/4" pipe (Weight 6.5 lbs.)	OXYGEN FLOW
.540" X 10'6"	BBPE-540	.540" X 10'6" Plain End	90 psi 20 cfm 150 psi 30 cfm Burn Time 4.5 Min.
	54B1050C	.540" X 10'6" Quick Connect	
	54B1050D	.540" X 10'6" Threaded on Holder End (1/4" npt)	
	54B1050F	.540" X 10'6" Threaded Both Ends with 1/4" pipe collar	

Special Order Large Diameter 10' 6" Burning Bars

1.05" O.D. tube or 3/4" pipe (Weight 25 lbs ea.)		OXYGEN FLOW	
SIZE / PART #	DESCRIPTION		
1.05" X 10'6"	10B1050A	1.05" X 10'6" Plain End	90 psi 80 cfm 150 psi 95 cfm Burn Time 4.5 Min.
	10B1050C	1.05" X 10'6" Quick Connect	

.922" O.D. tube (Weight 18 lbs ea.)		OXYGEN FLOW	
SIZE / PART #	DESCRIPTION		
.922" X 10'6"	92B1050A	.922" X 10'6" Plain End	90 psi 70 cfm 150 psi 85 cfm Burn Time 4.5 Min.
	92B1050C	.922" X 10'6" Quick Connect	

.840" O.D. tube or 1/2" pipe (Weight 16 lbs ea.)		OXYGEN FLOW	
SIZE / PART #	DESCRIPTION		
.840" X 10'6"	84B1050A	.840" X 10'6" Plain End	90 psi 60 cfm 150 psi 75 cfm Burn Time 4.5 Min.
	84B1050C	.840" X 10'6" Quick Connect	

Burning Bar General Information

GENERIC TERMS: EXOTHERMIC TORCH- THERMIC TORCH - MAG ROD - MAG BAR - LANCE BAR - LANCE ROD - THERMIC LANCE

The OxyLance Burning Bar and Sure Cut rods are self consuming cutting tools used in a wide variety of industries for cutting most ferrous and nonferrous metals, refractory and concrete. Benefits over conventional cutting methods are faster cutting speeds and the ability to cut thick sections as well as rusty or corroded materials.

WHAT IS THE DIFFERENCE BETWEEN OXY-FUEL AND EXOTHERMIC CUTTING?

The Oxy-Fuel cutting torch uses a preheat flame to elevate the temperature of the material to be cut to 1500 to 1900 degrees F. When the steel becomes cherry red a high pressure jet of oxygen is directed at the pre-heated metal. The result is the metal is rapidly oxidized or it burns. This process works on material that will oxidize. If it will not rust it can not be readily cut with an oxy-fuel system.

The Exothermic process also utilizes oxidation. However; the exothermic process uses alloys in the material in the burning bar as the fuel and produces temperatures of 7200 degrees F. A Burning Bar consists of an outer steel tube filled with special alloy wire. The exothermic reaction (Oxidation) occurs when the tip of the rod is heated to its kindling temperature (2800 f) and pure oxygen is introduced through the bar. The chemical reaction will continue until the bar is consumed or the oxygen flow is turned off. The only gas required for this cutting operation is pure oxygen. Cutting steel with an exothermic torch requires no preheat or cleaning.

WHAT SIZES ARE AVAILABLE?

OxyLance manufactures a variety of Burning Bars, Sure Cut Rods and Underwater Cutting Rods. 10'6" Burning Bars are available in Pipe and Tube sizes from .540" O.D. up to 1.05" O.D. The smaller Sure Cut rods are available in Tube sizes of 1/4" and 3/8" O.D. in lengths of 24", 36" and 48 inches. All tubing is measured by outside diameter and pipe is measured by nominal inside diameter. OxyLance identifies both pipe and tubing by the outside diameter in order to identify the proper holder required for a particular size burning bar.

WHAT IS THE MOST IMPORTANT PART OF THE EQUIPMENT?

Other than proper fire proof clothing and eye protection, the most important part of the system is the Oxygen Supply, Oxygen Hose and Regulator. For most applications involving the large Burning Bars OxyLance recommends 1/2" hose and a High Flow Regulator with a 1/2" port on the output side. This eliminates the possibility of flow restriction and ensures proper volume of oxygen to the Burning Bar.

WHAT IS THE MOST CRITICAL PART OF THE PROCESS?

The exothermic process relies on **OXYGEN VOLUME** and **PRESSURE**. Without proper volume of oxygen the cutting process will not work and creates hazards to the operator. Minimum and maximum volumes and pressures are listed with each size Burning Bar. You **MUST** supply the minimum volume and pressure for safe efficient operation. For all of the large burning bars you **CAN NOT** operate them with a single liquid oxygen tank. Please refer to the section on oxygen for proper set up information if liquid Dewars are to be used.

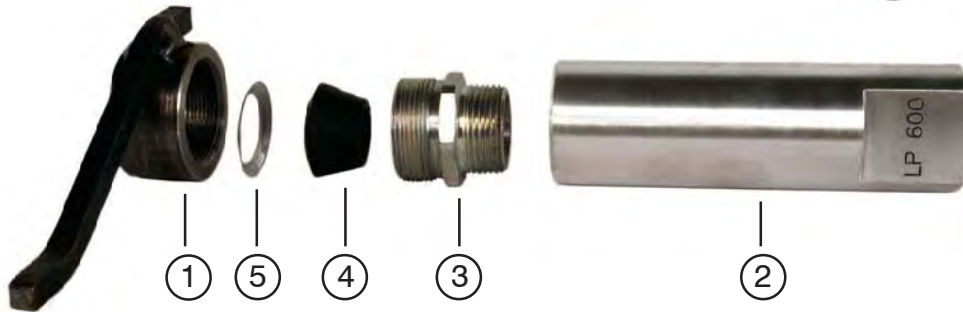
APPLICATIONS

STEEL MILLS / FOUNDRIES	POWER PLANTS / REFINERIES	EMERGENCY / RESCUE
Cleaning up metal spills	Removing Boiler Tubes	Train derailments
Opening Tap Holes	Remove / Replace Precipitators	Breeching Operations
Repairing Slag Pots	Removing frozen pins	Cutting Burglar Bars
Cutting Refractory	Repair Large Rollers	Open doors w/ hardened deadbolts
Cutting Skulls,	Gouging cracks in thick material	Cutting collapsed structures
Cutting Slag	Cut / Pierce Concrete	Cutting Guardrails
Processing Scrap	Cut Laminated material Used by Farm	Medic teams
Ferrous and Non Ferrous Smelters	Cut steel underwater	Military / Police

Lance Pipe (Burning Bar) Holders



Shown with optional V-05 Valve
Standard holder includes Ball Valve



LP 540 FOR .540" O.D. Tube (1/4" Pipe)

PART #	DESCRIPTION
LP540S	.540" O.D. LP Holder w/ LAP3-10 Shield
LP540BS	.540" O.D. LP Holder w/ Ball Valve
LP540FGS	.540" O.D. LP Holder w/ Ball Valve / Thermal Shutoff
LP540VS	.540" O.D. LP Holder w/ V-05 Valve
LP540FVS	.540" O.D. LP Holder w/ V-05 Valve / Thermal Shutoff

REPAIR PARTS

PART #	DESCRIPTION
LPSHN-1	Steel End Cap w/ Wrench Handle
LP540-2	Aluminum 540 Body
LP5-3	CGB 395 Gland
LP5-4	# 95 Rubber Grommet
LP351-5	#351 Sealing Ring

LP 675 FOR .675" AND .625" O.D. Tube

PART #	DESCRIPTION
LP675S	.675" O.D. LP Holder w/ LAP3-10 Shield
LP675BS	.675" O.D. LP Holder w/ Ball Valve
LP675FGS*	.675" O.D. LP Holder w/ Ball Valve / Thermal Shutoff
LP675VS	.675" O.D. LP Holder w/ V-05 Valve
LP675FVS	.675" O.D. LP Holder w/ V-05 Valve / Thermal Shutoff

REPAIR PARTS

PART #	DESCRIPTION
LPSHN-1	Steel End Cap w/ Wrench Handle
LP600-2	Aluminum 600 Body
LP6-3	CGB 396 Gland
LP6-4	# 96 Rubber Grommet
LP351-5	# 351 Sealing Ring

LP 840 FOR .840" O.D. Tube (1/2" PIPE)

PART #	DESCRIPTION
LP840S	.840" O.D. LP Holder w/ LAP3-10 Shield
LP840BS	.840" O.D. LP Holder w/ Ball Valve
LP840FGS	.840" O.D. LP Holder w/ Ball Valve / Thermal Shutoff
LP840VS	.840" O.D. LP Holder w/ V-05 Valve
LP840FVS	.840" O.D. LP Holder w/ V-05 Valve / Thermal Shutoff

REPAIR PARTS

PART #	DESCRIPTION
LPSHN-1	Steel End Cap w/ Wrench Handle
LP840-2	Aluminum 840 Body
LP8-3	CGB 397 Gland
LP8-4	# 97 Rubber Grommet
LP351-5	# 351 Sealing Ring
LP413-5	# 413 Sealing Ring

* Standard holder (formerly CA940)

SURE CUT System



The OxyLance Sure Cut system will cut virtually any metal, both ferrous and non-ferrous, and is faster than conventional oxy-acetylene cutting or carbon arc gouging. The Sure Cut exothermic cutting rods don't require preheating or cleaning of the material prior to cutting. It is easy to use and is cost effective for most applications.

PART #	DESCRIPTION
JRSC2024S	Tool Box Kit with standard holder - WITH RODS
JRSC2024S-REG	Tool Box Kit with high flow regulator - WITH RODS (Pictured Above)
JRSC2000S	Standard Sure Cut standard holder - NO RODS
JRSC2000S-REG	Standard Sure Cut holder with high flow regulator - NO RODS

JRSC2024S INCLUDES
Holder
25' X 5/16" Oxygen Hose
25' X #4 Power Lead
25' X #4 Ground Lead w / Striker Plate
1/4" and 3/8" Collet
12 ea. 1/4" X 24" Sure Cut Rods
12 ea. 3/8" X 24" Sure Cut Rods
26" Tool Box

JRSC2000S INCLUDES
Holder
25' X 5/16" Oxygen Hose
25' X #4 Power Lead
25' X #4 Ground Lead w / Striker Plate
1/4" and 3/8" Collet
NO RODS
NO RODS
19" Carry Case

JRSC2024S-REG AND JRSC2000S-REG COMES WITH HIGH FLOW REGULATOR

JRSC2000 Holder Parts and Accessories



ITEM #	PART #	DESCRIPTION
1	JRSC200-RL31	Handle assembly
2	JRSC2000-2	Collet Nut
3	JRSC187-3	Collet for 3/16" (.1875" O.D.) Sure Cut rod's
3	JRSC250-3	Collet for 1/4" (.250" O.D.) Sure Cut rod's
3	JRSC375-3	Collet for 3/8" (.375" O.D.) Sure Cut rod's
4	JRSC2000-4	Collet Grommet (seals collet bolt to collet)
5	JRSC2000-5	Collet Bolt (1/4" npt male X Collet seat)
6	JRSC2000-6	Curved Hand Shield
7	JRSC2000-7	Rubber insulator grommet for shield
	JRSC2000-8	Flash arrestor screen (not pictured, behind collet bolt)
	JRSC2000-9	Flash arrestor O-Ring seal (not pictured, behind collet bolt)
8	JRSC2000-10	Power Block
9	FTHAW-142	3/8" NPT X CGA "B" fitting (For custom holder with no power block)
	HL41X25	25' Oxygen hose (5/16" ID)
	JRSC2000-13	25 Welding Lead
	JRSC2000-14	Welding lead lug
	JRSC2000-15	Alligator Clamp
	JRSC2000-16	Copper Striker Plate
	JRSC6-32SCREW	Shield Screw (not shown in drawing)
	JRSC6-32TEENUT	Shield Tee Nut (not shown in drawing)
	JRSC200-G4000	Repair parts kit for Oxygen Valve
	JRSCBE43HP	Collet Bolt Extension
	PART #	CARRY CASE / TOOL BOX
	JRTB1	Black Plastic Carrying Case (small)
	JRTB2	26" Dura Bull Tool Box (pictured on previous page)
	JRTB3	Large Pelican Case # 1650 with locking handle and wheels
	JRCENJ900	Igniter Pack

SURE CUT Cutting Rods

1/4" O.D.

PART #	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
C1424	1/4" X 24" Sure Cut Rod (bare)	3 to 5 cfm / 1 Minute	7 lbs	14 lbs
C1436	1/4" X 36" Sure Cut Rod (bare)	3 to 5 cfm / 1.5 Minutes	11 lbs	22 lbs
C1448	1/4" X 48" Sure Cut Rod (bare)	3 to 5 cfm / 2 Minutes	14 lbs	28 lbs

1/4" O.D. QUICK CONNECT

	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
25B24QC	1/4" X 24" Sure Cut Rod (bare)	3 to 5 cfm / 1 Minute	7 lbs	14 lbs
25B36QC	1/4" X 36" Sure Cut Rod (bare)	3 to 5 cfm / 1.5 Minutes	11 lbs	22 lbs
25B48QC	1/4" X 48" Sure Cut Rod (bare)	3 to 5 cfm / 2 Minutes	14 lbs	28 lbs

3/8" O.D.

	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
C3824	3/8" X 24" Sure Cut Rod (bare)	5 to 8 cfm / 1 Minute	11 lbs	22 lbs
C3836	3/8" X 36" Sure Cut Rod (bare)	5 to 8 cfm / 1.5 Minutes	17 lbs	34 lbs
C3848	3/8" X 48" Sure Cut Rod (bare)	5 to 8 cfm / 2 Minutes	22 lbs	44 lbs

3/8" O.D. QUICK CONNECT

	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
37B24QC	3/8" X 24" Quick Connect Sure Cut Rod (bare)	5 to 8 cfm / 1 Minute	11 lbs	22 lbs
37B36QC	3/8" X 36" Quick Connect Sure Cut Rod (bare)	5 to 8 cfm / 1.5 Minutes	17 lbs	34 lbs
37B48QC	3/8" X 48" Quick Connect Sure Cut Rod (bare)	5 to 8 cfm / 2 Minutes	22 lbs	44 lbs

SURE CUT INSULATED RODS

Insulated Rods are only necessary when a continuous arc process is used.

1/4" O.D.

PART #	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
25B24I	1/4" X 24" Sure Cut Insulated Rod (coated)	3 to 5 cfm / 1 Minute	8 lbs	16 lbs
25B36I	1/4" X 36" Sure Cut Insulated Rod (coated)	3 to 5 cfm / 1.5 Minutes	13 lbs	26 lbs
25B48I	1/4" X 48" Sure Cut Insulated Rod (coated)	3 to 5 cfm / 2 Minutes	16 lbs	32 lbs

1/4" O.D. QUICK CONNECT

	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
25B24QCI	1/4" X 24" Sure Cut Rod (bare)	3 to 5 cfm / 1 Minute	7 lbs	14 lbs
25B36QCI	1/4" X 36" Sure Cut Rod (bare)	3 to 5 cfm / 1.5 Minutes	11 lbs	22 lbs
25B48QCI	1/4" X 48" Sure Cut Rod (bare)	3 to 5 cfm / 2 Minutes	14 lbs	28 lbs

3/8" O.D.

	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
37B24I	3/8" X 24" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 1 Minute	13 lbs	26 lbs
37B36I	3/8" X 36" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 1.5 Minutes	19 lbs	38 lbs
37B48I	3/8" X 48" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 2 Minutes	24 lbs	48 lbs

3/8" O.D. QUICK CONNECT

	DESCRIPTION	WEIGHT		
		O2 FLOW / BURN TIME	25 pc box	50 pc box
37B24QCI	3/8" X 24" Quick Connect Insulated Rod (coated)	5 to 8 cfm / 1 Minute	13 lbs	26 lbs
37B36QCI	3/8" X 36" Quick Connect Insulated Rod (coated)	5 to 8 cfm / 1.5 Minutes	19 lbs	38 lbs
37B48QCI	3/8" X 48" Quick Connect Insulated Rod (coated)	5 to 8 cfm / 2 Minutes	24 lbs	48 lbs



The Original Lenco Shortstub Holder



L-400



L-600

Mechanical Pressure locks in the electrode. A quarter turn of the handle locks the jaws tightly on the electrode. Maximum mechanical pressure holds the electrode securely and insures cool running up to amp capacity. Turn back the handle to release the electrode stubs. The cable attaches to the brass body with large oval point screws, providing excellent conductivity. Head insulators are molded from a high impact / high temperature fiberglass compound. The handles are molded from a flame retardant and excellent heat and impact resistant nylon material. Guard ring covers handle screw and must be kept in place.

L-400 and L-600 have largest brass body of any shortstub holder on the market.



L-400S

L-400

Amp Capacity: 400
 Cable Capacity: 3/0 (70 mm)
 Electrode Capacity: Up to 1/4" (6.4 mm)
 Weight: 20 oz. (575 grams)
 Brass Body has two oval point screws to hold cable secure.

L-600

Amp Capacity: 600
 Cable Capacity: 3/0 to 4/0
 Electrode Capacity: Up to 5/16" (7.9 mm)
 Weight: 29 oz. (825 grams)
 Brass Body has two oval point screws to hold cable secure.

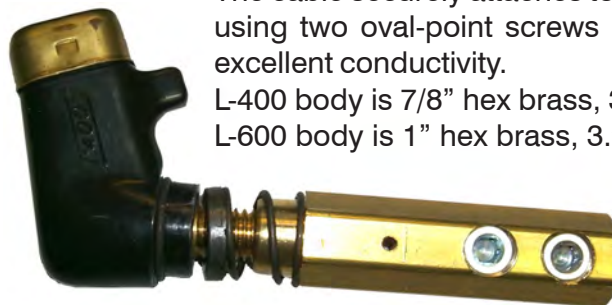
L-400S

Amp Capacity: 400
 Cable Capacity: 3/0 (70 mm)
 Electrode Capacity: Up to 1/4" (6.4 mm)
 Weight: 17 oz. (490 grams)
 Brass Body has one oval point screw to hold cable secure. All parts are interchangeable with Bernard® shortstub holders.



The entire Head Assembly of these holders can be removed and replaced in seconds.

Part No.	Description
LK-400	Renewable Head for L-400, L-400S
LK-600	Renewable Head for L-600



The cable securely attaches to the body using two oval-point screws providing excellent conductivity. L-400 body is 7/8" hex brass, 3.6" long. L-600 body is 1" hex brass, 3.9" long.



The Original Lenco Cable Connectors



The advanced design of Lenco cable connectors offer many advantages over older styles. Metal parts are precision machined from specially shaped brass extrusion. Cam action design of male half connector pulls the two halves tightly together. Connector covers are molded from a special heat and cold resistant material.



Colored covers make it easy to locate the connectors for field use. Also identify cable leads easily for contractors and field erectors.

Available in **Black, Red, Blue, Green, Yellow, Pink and Orange.**

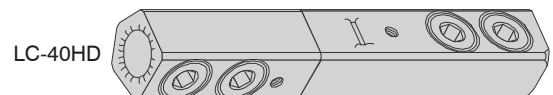
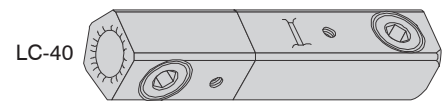
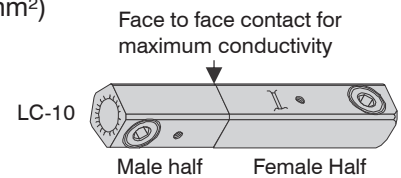
Custom imprinting available on a minimum orders of just 300 covers. Call for details.

Model	Cable Connection	Capacity	Cable Capacity
LC-10	Single Oval-Point Screw	250	No. 4 thru No. 1/0 (25-50mm ²)
LC-40	Single Oval-Point Screw	350	No. 1/0 thru No. 2/0 (50-70mm ²)
LC-40HD	Double Oval-Point Screw	500	No. 3/0 thru No. 4/0 (70-95mm ²)

T-Connectors



Part No.	Description
L05900	LTC-40, 2 Female, 1 Male - Black
L05901	LTC-40, 2 Female, 1 Male - Red
L05910	LTC-40-2M, 1 Female, 2 Male - Black
L05911	LTC-40-2M, 1 Female, 2 Male - Red



Triple X Welding Grip



Triple X Welding Grip Handle

A revolutionary welding handle featuring superior impact resistance, excellent wear properties and a comfortable, form-fitting grip. Compared to traditional plastic handles, the Triple X Welding Grip is manufactured using a combination of polyurethane and glass. Polyurethane is a unique material that offers the elasticity of rubber with the durability of metal.

Triple X Welding Grip Head Cover

The Triple X Head Cover is designed to fit any handle on the market today. Made from durable, heat-resistant silicon that will protect the head and increase the life of the electrode tip. Our Head Covers are available in Black, Yellow, and Fluorescent Orange.

Part No.	Description
X-GRIP-BK	Handle Only - Black
X-GRIP-R	Handle Only - Red
X-GRIP-BL	Handle Only - Blue
X-GRIP-O	Handle Only - Orange
X-GRIP-Y	Handle Only - Yellow
X-HC-BK	Head Cover Only - Black
X-HC-O	Head Cover Only - Orange
X-HC-Y	Head Cover Only - Yellow

Complete 400 Amp Electrode Holders	
X-400-BK	with Black X Grip Handle
X-400-R	with Red X Grip Handle
X-400-BL	with Blue X Grip Handle
X-400-O	with Orange X Grip Handle
X-400-Y	with Yellow X Grip Handle
X-400HC-BK	with Black Handle and Head Cover
X-400HC-O	with Orange Handle and Head Cover
X-400HC-Y	with Yellow Handle and Head Cover



- Designed in Canada
- Made in Canada (Handles and head covers)
- Exceptional durability
- Extreme heat resistance
- Extraordinarily comfortable grip
- Available in 5 colours



FOR BETTER GROUNDS WITHOUT CLAMPS, SPRINGS OR SWITCHES

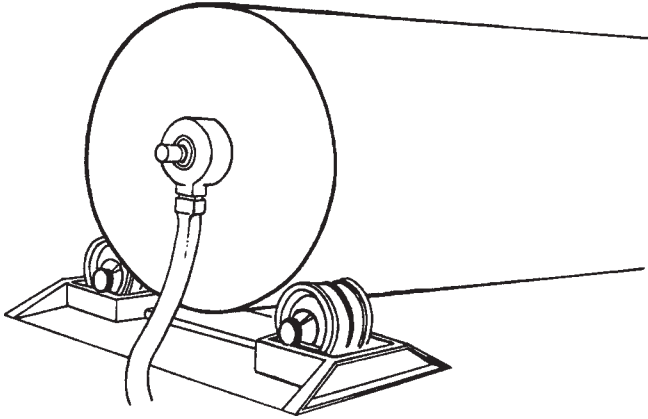
MAGNETRODE

Lifetime MAGNETIC Grounds for Rotary or Manual Arc Welding

Heavy shop use has proved that MAGNETRODE actually improves weld quality while reducing weld costs. Here's how:

- MAGNETRODE stabilizes the arc...
- Reduces spatter (and cuts down clean-up time); cuts rod spatter loss 10% or more...
- Reduces magnetic blow...
- Increases penetration and density of weld, also improving root fusion...
- Operates on lower current, makes less demand on generator or transformer...
- Reduces heat and crystallization in parent metal, improves annealing around weld, cuts and rod stub waste.

Rugged, simple MAGNETRODE is easily attached and detached. Holds in any position and is ideal for welding in tough spots - inverted, uphand or downhand.



No cable twist on roll work with the rotary MAGNETRODE; a real trouble-saver as well as the perfect grounding contact. Simple design and lifetime magnet assure extra long service life.

MAGNETRODE FOR ROTARY WELDING



Model 900

Up to 400 amps. Easily attaches to ground cable using Lenco Lugs on cable. Holds where ever you put it on your work. For higher amperage two may be used, one on each end of work.



Model 1500

Up to 1000 amps. Includes terminal handle for attaching two 4/0 ground cables. Easily attaches to cable using Lenco Lugs on cable.



Model 2000

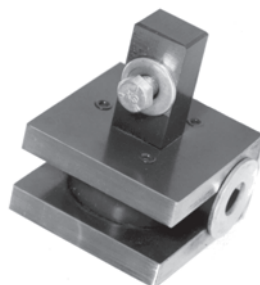
Up to 1500 amps. Includes terminal handle for attaching three 4/0 ground cables. Easily attaches to cable using Lenco Lugs on cable.

MAGNETRODE FOR MANUAL WELDING



Model 200

Up to 200 amps. Shop model for light duty welding with three contact areas totalling six square inches. Easily attaches to cable using Lenco Lugs on cable.



Model 700

Up to 400 amps. Rugged industrial unit for heavy surface, with four contact sides totalling 10.5 square inches. Easily attaches to cable using Lenco Lugs on cable.

Selection Chart

Part No.	Description	Amps
MT900	Magnetic Rotary Ground Clamp	400
MT1500	Magnetic Rotary Ground Clamp	1000
MT2000	Magnetic Rotary Ground Clamp	1500
MT200	Stationary Magnetic Ground Clamp	200
MT700	Stationary Magnetic Ground Clamp	400



Bernard Electrode holder

Electrodes can be used to within one inch of the high heat, high impact head compared with the normal three inches of the electrode that is leftover when using a typical tong-type holder.

Bernard Shortstub greatly improves productivity because it is designed for quick, easy installation of electrodes and it is built to last with a proven high impact, high heat replaceable head.

Bernard Shortstub models provide long life because the replaceable head can be ordered separately and installed quickly, eliminating total replacement.

Over 2,000 pounds of gripping pressure enables the electrode to be bent to a desired shape for access to difficult welds.

Specifications					
Capacity	Electrode	Weight	Length	Cable Connection	Cable Socket
400 Amps at 60% duty cycle	1/16" - 1/4" (1.6 mm - 6.4 mm)	17 oz. (481g)	8-3/4" (22cm)	Model "B" large ball point screw connection	19/32" (1.5cm)

Part No.	Description
B40B	400 Amp Electrode Holder
BK40	Replacement Head



Bernard Hammer On Lugs



- Simple as driving a nail to attach
- No soldering, no bolting, no set screws, no crimping tools required
- Twice as heavy as most crimp-type connectors
- Same conductivity as the cable they connect

Part No.	Description
BL33	#2-#1 Cable, 33/64" Stud Hole
BL22	1/0-2/0 Cable, 17/32" Stud Hole
BL11	3/0-4/0 Cable, 21/32" Stud Hole

Bernard Cable Connectors

- Heavy-duty ball-point set screw cable connection
- Fully insulated covers for maximum safety
- Interchangeable with most popular models
- Connector locking screw designed for longer life and superior electrical connection



Part No.	Type	Cable Size	
B1BC	Set	4, 2, 1	35-50mm ²
B1BC-F	Female		
B1BC-M	Male		
B2BC	Set	1/0, 2/0, 3/0	50-70mm ²
B2BC-F	Female		
B2BC-M	Male		
B4BC	Set	3/0, 4/0	70-95mm ²
B4BC-F	Female		
B4BC-M	Male		

Tweco® Cable Connectors

Tweco MPC connectors provide a positive cam action which optimizes interface between connector halves. The connectors are equipped with heat and oil resistant covers. The MPC connectors are furnished with zinc plated cover and ball-point cable screws. They are interchangeable with older Tweco MBP Connectors. The Whip Cable Connector is used when down sizing cable to an electrode holder. It is a No. 2 male connector with cable hole sized to fit 4, 2, 1 or 1/0 cable. The 2-1-MPC will fit any No. 2 or No. 4 female connector.



Interchangability Chart			
Bernard®	Tweco®	Lenco®	Jackson®
1BC	MPC/1 MBP	LC 10	UB-1-BP
2BC	2 MPC/2 MBP	LC 40	UD-3-BP
4BC	4 MPC/4 MBP	LC 40 HD	UB-4-BP

Part No.	Tweco No.	Description	Cable Connection	Cable Capacity	Standard Package
V1-MPC	9425-1100	Complete Connection	Single Ball-Point	4, 2, 1	1 ea. Male/Female
V1-MPC-1	9425-1110	Male Half	Single Ball-Point	4, 2, 1	Pkg. 2 ea. Male
V1-MPC-2	9425-1120	Female Half	Single Ball-Point	4, 2, 1	Pkg. 2 ea. Female
V2-MPC	9425-1200	Complete Connection	Single Ball-Point	1/0, 2/0, 3/0	1 ea. Male/Female
V2-MPC-MC	9425-1201	Complete Connection	Single Ball-Point	1/0, 2/0, 3/0	1 ea. Male/Female
V2-MPC-1	9425-1210	Male Half	Single Ball-Point	1/0, 2/0, 3/0	Pkg. 2 ea. Male
V2-MPC-1-MC	9425-1211	Male Half	Single Ball-Point	1/0, 2/0, 3/0	Pkg. 2 ea. Male
V2-MPC-2	9425-1220	Female Half	Single Ball-Point	1/0, 2/0, 3/0	Pkg. 2 ea. Female
V2-MPC-2-MC	9425-1221	Female Half	Single Ball-Point	1/0, 2/0, 3/0	Pkg. 2 ea. Female
V4-MPC	9425-1400	Complete Connection	Double Ball-Point	3/0 or 4/0	1 ea. Male/Female
V4-MPC-MC	9425-1401	Complete Connection	Double Ball-Point	3/0 or 4/0	1 ea. Male/Female
V4-MPC-1	9425-1410	Male Half	Double Ball-Point	3/0 or 4/0	Pkg. 2 ea. Male
V4-MPC-1-MC	9425-1411	Male Half	Double Ball-Point	3/0 or 4/0	Pkg. 2 ea. Male
V4-MPC-2	9425-1420	Female Half	Double Ball-Point	3/0 or 4/0	Pkg. 2 ea. Female
V4-MPC-2-MC	9425-1422	Female Half	Double Ball-Point	3/0 or 4/0	Pkg. 2 ea. Female
V2-1-MPC	9425-1140	Whip Connection	Single Ball-Point	4, 2, 1, 1/0	Pkg. 2 ea.

TWECO TONG® Electrode Holders

TWECOTONG electrode holders feature reversible top and bottom Insulators. Efficient 6-position jaw patterns and fully insulated, protected springs. Ball-point cable connection is also featured.



Part No.	Tweco No.	Amperage	Body	Electrode	Cable Conn	Length
A-532	9110-1101	200	Copper Alloy	thru 5/32" (4.0 mm)	Ball-Point thru 2/0	8-1/2" (216 mm)
A-316	9110-1102	250	Copper Alloy	thru 3/16" (4.8 mm)	Ball-Point thru 2/0	9-1/4" (235 mm)
A-732	9110-1103	300	Copper Alloy	thru 7/32" (5.6 mm)	Ball-Point thru 2/0	10" (254 mm)

QUALITY ELECTRODE HOLDERS

"AF"/"HT" Series

LENCO electrode holders are designed to fit comfortably in the welder's hand. Each design allows the Lenco electrode holder to fit a welder's hand like a glove and provide superior electrode control.

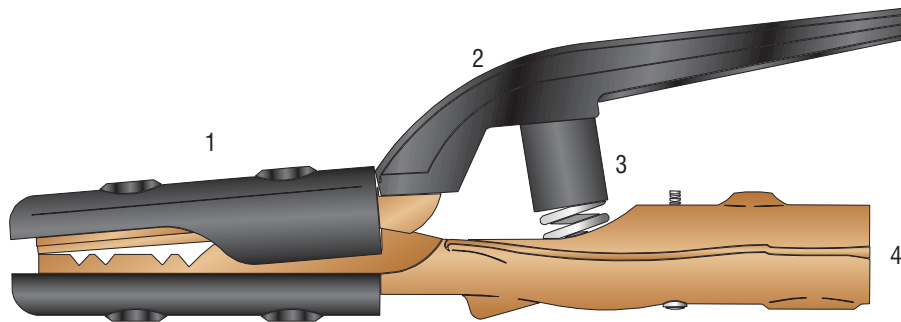
ROHS Compliant

Choosing The Right Size...

ELECTRODE HOLDER

The choice of an electrode holder that will be lightweight, run cool, and at the least cost can be determined first by the maximum rod used and second, by the maximum amperage setting used. Lenco holder numbers indicate the amperage capacity. For example, an AF-2 holder has a maximum amperage capacity of 250 amps. Match the holder to the rod and amperage used for greatest efficiency.

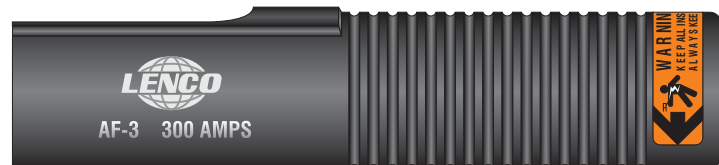
LENCO "AF"/"HT" Series Electrode Holders Offer All These Features



1. Lenco's durable tip insulators are molded from a high impact/high temperature fiberglass compound.
2. The upper lever is fully insulated. The low profile "AF" Series design fits your hand comfortably while the "HT" Series allows greater hand clearance.
3. Lenco's powerful spring holds the electrode securely in place and prevents electrode slippage. The spring is protected by a Lexan cup insulator.
4. Lenco's specially designed oval-point screw makes it easy to install our holder on a cable. Just strip off the appropriate length of cable insulation and insert it into the holder body, then tighten down the large oval-point screw with an allen wrench. This makes an excellent connection. As a safety precaution, the handle retention screw is upset to prevent removal.

Material Construction

AF/HT-2, 25, 3, 35 and 50 holder handles are molded from a durable glass filled nylon material with excellent heat and impact resistance.



LENCO electrode holders (upper and lower tongs) are made from a high copper alloy for maximum conductivity and strength. The top and bottom tip insulators are a molded fiberglass compound and will withstand intensive heat and impact. Parts for all models are replaceable. The oval-point screw cable connection is standard on all models.



Light, Medium, and Heavy Duty Models



	Model	Part No.	Amp Capacity	Cable Capacity	Electrodes Up To	Length	Weight
Light Duty	AF-2	L01020	200-250	1/0 (50mm ²)	5/32" (3.97mm)	8¼" (210mm)	12 oz. (345g)
Medium Duty	AF-25	L01030	250-300	2/0 (70mm ²)	3/16" (4.75mm)	8½" (216mm)	16 oz. (450g)
	AF-3	L01040	300-350	2/0 (70mm ²)	1/4" (6.35mm)	10" (254mm)	21 oz. (600g)
Heavy Duty	AF-35	L01050	350-400	3/0 (70mm ²)	1/4" (6.35mm)	10" (254mm)	24 oz. (680g)
	AF-50	L01060	450-500	4/0 (95mm ²)	3/8" (9.53mm)	10½" (267mm)	31 oz. (880g)
Light Duty	HT-2	L01320	200-250	1/0 (50mm ²)	5/32" (3.97mm)	9" (229mm)	13 oz. (360g)
Medium Duty	HT-25	L01330	250-300	2/0 (70mm ²)	3/16" (4.75mm)	9¾" (248mm)	19 oz. (540g)
	HT-3	L01340	300-350	2/0 (70mm ²)	1/4" (6.35mm)	10½" (267mm)	23 oz. (650g)
Heavy Duty	HT-35	L01350	350-400	3/0 (70mm ²)	1/4" (6.35mm)	10½" (267mm)	24 oz. (680g)
	HT-50	L01360	450-500	4/0 (95mm ²)	3/8" (9.53mm)	10½" (267mm)	31 oz. (880g)

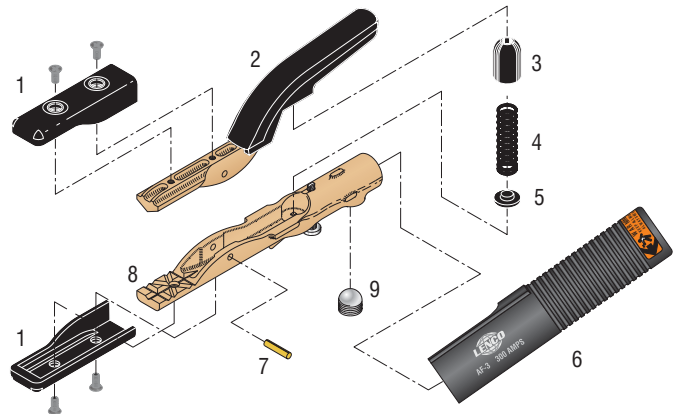
Holders may be custom imprinted with company name.

Holder Replacement Parts

Replacement parts for all Lenco electrode holders are available and easily installed. Select the parts you need from the illustration. Part names are shown below and the part number is under the holder number in the same column.

ELECTRODE HOLDER

1. Tip Insulator w/Screws
2. Upper Body Tong, Insulated
3. Spring Cup Insulator
4. Spring Set (with items 3 & 5)
5. Spring Flat Insulator
6. Molded Handle
7. Hinge Pin
8. Lower Body Tong
9. Oval-Point Screw



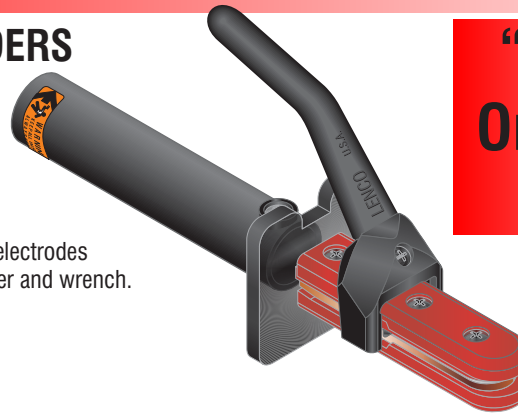
"AF"/"HT" - Series

Item No.	Description	Electrode Holder Model and Item Code No.									
		AF-2	HT-2	AF-25	HT-25	AF-3	HT-3	AF-35	HT-35	AF-50	HT-50
1	Tip Insulator, w/Screw	L01325	L01325	L01325	L01325	L01335	L01335	L01335	L01335	L01335	L01335
2	Upper Body Tong	L01021	L01321	L01031	L01331	L01051	L01341	L01051	L01341	L01051	L01341
3	Spring Cup Insulator	L01027	L01071	L01071	L01337	L01071	L01337	L01071	L01337	L01071	L01337
4	Spring Set, w/Insulators (Lexan Cup & Flat Insulator)	L01026	L01324	L01034	L01334	L01054	L01334	L01054	L01334	L01069	L01364
5	Spring Flat Insulator			L01070	L01070	L01070	L01070	L01070	L01070	L01070	L01070
6	Molded Handle	L01023	L01323	L01033	L01333	L01042	L01343	L01053	L01353	L01066	L01363
7	Hinge Pin	L01214	L01214	L01214	L01214	L01223	L01223	L01223	L01223	L01223	L01223
8	Lower Body Tong	L01022	L01022	L01032	L01032	L01041	L01041	L01052	L01052	L01062	L01062
9	Oval-Point Screw	L01025	L01025	L01025	L01025	L01225	L01225	L01068	L01068	L01068	L01068
	Tip Insulator Screws, doz.	L01065	L01065	L01065	L01065	L01065	L01065	L01065	L01065	L01065	L01065

FULLY INSULATED DURO HOLDERS

DEPENDABLE ELECTRODE HOLDERS

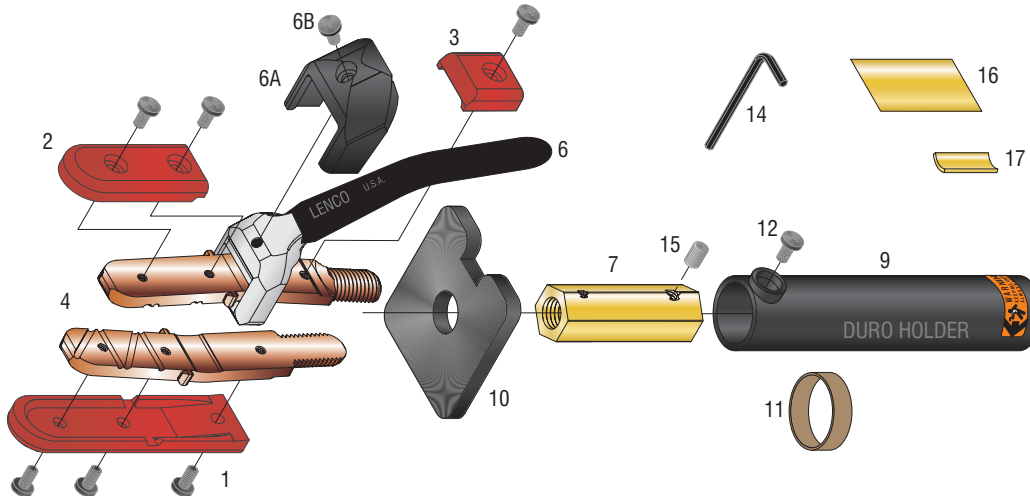
Duro has produced dependable and efficient holders since 1932. They are lightweight and perfectly balanced to make working less awkward no matter where the weld must be made. The jaws are made with a unique internal tension design which is extremely durable. The positive energy saving grip of the jaws holds large or small electrodes equally well. All parts are easily replaced using a screwdriver and wrench. Check these features:



“This is the Original Duro Product.”

- Unique internal tension design lasts longer
- Positive grip jaws hold small or large electrodes
- Easily replace parts quickly using only screwdriver and wrench
- No coil spring to lose its tension
- Safe, square guard protects hands from heat; prevents rolling and grounding when set down
- Screw-in type jaws replaced with only a wrench
- Cool operating and cool handling

	Model	Part No.	Amp Capacity	Cable Capacity	Electrodes Up To	Length	Weight
Light Duty	250-I	L016250	250	1/0 (50mm ²)	3/16" (4.75mm)	9-1/2" (241mm)	13 oz. (360g)
Medium Duty	300-I	L016300	300	2/0 (70mm ²)	1/4" (6.3mm)	11-5/8" (295mm)	20 oz. (570g)
Heavy Duty	400-I	L016400	400	3/0 (70mm ²)	5/16" (7.9mm)	12-1/4" (311mm)	24 oz. (677g)
	600-I	L016600	600	4/0 (95mm ²)	3/8" (9.5mm)	13-1/4" (337mm)	36 oz. (1kg)



DESCRIPTION	ITEM NO.	#250-I	#300-I	#400-I	#600-I
Bottom Jaw Insulator	1	L016251	L016301	L016401	L016401
Top Jaw Insulator - Large	2	L016252	L016302	L016402	L016402
Top Jaw Insulator - Small	3	L016253	L016303	L016403	L016403
Jaws - Plain (upper & lower)	4	L016254	L016304	L016404	L016404
Jaws with Insulators		L016255	L016305	L016405	L016405
Trigger - Plain	6	L016256	L016256	L016256	L016256
Trigger Insulator Cover	6A	L016256A	L016256A	L016256A	L016256A
Trigger Insulator Screw - 6 pcs	6B	L016256B-6	L016256B-6	L016256B-6	L016256B-6
Brass Core w/Hardware Kit	7	L016257	L016307	L016407	L016607
Trigger with Insulator		L016258	L016258	L016258	L016258
Handle	9	L016259	L016309	L016409	L016609
Guard	10	L0162510	L016310	L016410	L016410
Rubber Insulator for Handle Screw	11	N/A	L016311	L016311	L016311
Handle Screw	12	L0162512	L016312	L016312	L016312
Screw for Jaw Insulation - 6 pcs		L016256B-6	L016256B-6	L016413-6	L016413-6
Screw for Jaw Insulation - 100 pcs		L016256B-100	L016256B-100	L016413-100	L016413-100
Allen Wrench	14	L0162514	L0162514	L0162514	L016614
Set Screw for Core Requires 2 for 400 & 600	15	L0162515	L0162515	L0162515	L016615
Brass Foil	16	L0162516	L0162516	L0162516	L0162516
Curved Brass Piece	17	L0162517	L0162517	L0162517	L0162517



"Twister" and Isolator Electrode Holder



The LT-250/400 design minimizes exposed screws, internal metal parts or any current carrying members in the holder for added user safety.



	Model	Part No.	Amp Capacity	Cable Capacity	Electrodes Up To	Length	Weight
Medium Duty	LT-250	L01420	250	2/0 (70mm ²)	3/16" (4.75mm)	8" (203mm)	11 oz. (310g)
	RHA-250*	L01430	250	—	3/16" (4.75mm)	3-1/2" (89mm)	5.4 oz. (153g)
Heavy Duty	LT-400	L01410	400	3/0 (70mm ²)	1/4" (6.35mm)	8-15/16" (227mm)	22 oz. (624g)
	RHA-400*	L01400	400	—	1/4" (6.35mm)	4-1/8" (105mm)	9 oz. (255g)

*MODEL RHA-250/400 Replaceable Head Only

Holders may be custom imprinted with company name.

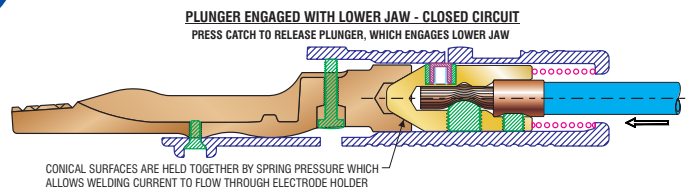
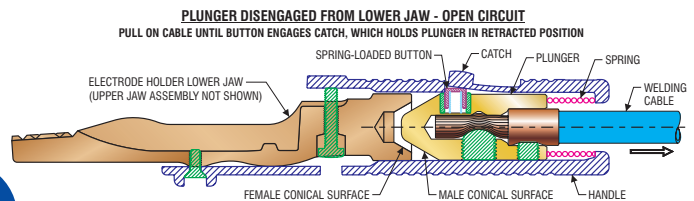
LT-250/400 Holder Replacement Parts



Item No.	Description	LT-250 Part No.	LT-400 Part No.
1.	Head Insulator	L01422	L01472
2.	Head Insulator Screw	L01485	L01485
3.	Head Member	L01427	L01477
4.	Spring Cup	L01425	L01284
5.	Spring Coil	L01426	L01286

Item No.	Description	LT-250 Part No.	LT-400 Part No.
6.	Handle	L01424	L01474
7.	Pressure Pin	L01423	L01481
8.	Brass Body w/Screws	L01432	L01482
9.	Pressure Pin Screw	L01485	L01485
10.	Oval-Point Screw (2)	L01025 (1)	L01025 (2)

Isolator Holders



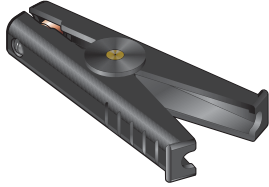
Model	Part No.	Description
IS-25	L01525	AF Style Isolator w/cable
ISH-25	L01555	HT Style Isolator w/cable

- FEATURES**
- Electrode holder with locking mechanism
 - Helps protect user from OCV
 - Safely reinsert electrode and position into tight, difficult areas
 - Available in AF or HT style holders, designed for 250 amps using 3/16" electrode maximum
 - Complete with 12' of No. 2 cable & LC-1040 male connector or optional *Dinse* Style connector.

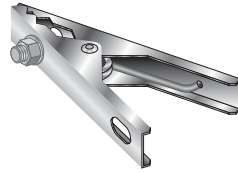
GROUND CLAMPS

A good ground connection is just as important in a welding circuit as the holder and the cables. A good ground clamp reduces energy costs, extends cable life, helps produce consistent welds and allows ground location to be easily changed.

Economy Ground Clamps



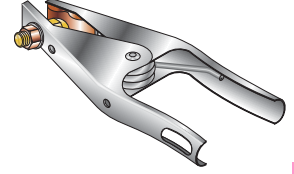
MG-180



EG-200



EG-300



EG-500

The **Model MG-180** is a molded non-conductive ground clamp with copper jaws.

The **Model EG-200** ground clamp is ideal for light duty welding. May be used for other light duty applications.

The **Model EG-300** ground clamp is ideal for the farm welder or for light shop work.

The **Model EG-500** is excellent for field erection or where clamping to bar stock, piping or various shapes of metal is necessary. The pure copper braided shunt allows both high copper alloy jaws to carry welding current. A rugged, all steel body protects the heavy duty spring.

Model	Part No.	Amp Capacity	Type of Cable Connection	Weight	Jaw Opening
MG-180	L02180	180	Bolt and Nut with Support	6.7 oz. (193g)	2" (51mm)
EG-200	L02000	200	Bolt and Nut with Support	6 oz. (170g)	1½" (38.1mm)
EG-300	L02040	300	Bolt and Nut with Support	11 oz. (310g)	2" (51mm)
EG-500	L02050	500	Bolt and Nut with Support	22 oz. (620g)	2" (51mm)
—	L02055	Replacement Contact Stud w/Nut - EG-500		—	—
—	L02056	Replacement Double Hump Jaw w/Nut - EG-500		—	—

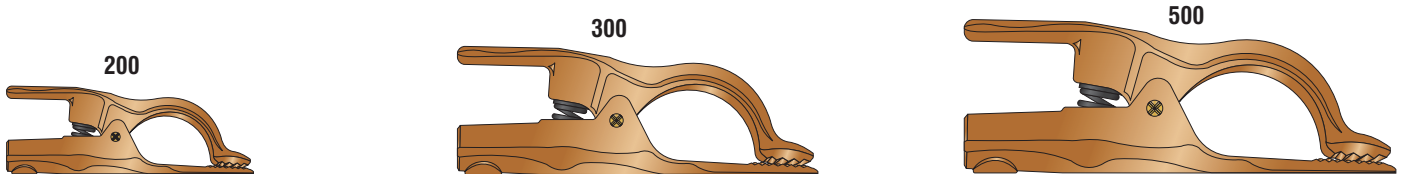
Quality • High Copper Alloy • Insulated Spring

- Lenco ground clamps have the largest contact area with the work of any clamp on the market. Serrated upper and lower jaws insure maximum bite to the work. A good ground clamp helps assure proper voltage for maximum weld results with all rods.

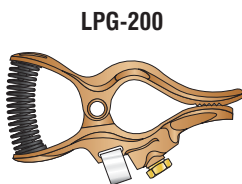
- Both upper and lower jaws of all three models are made from a high copper alloy assuring excellent current carrying ability. No steel jaws are used. A good ground connection assures better welds.

- A tough, brass hinge pin is durable and allows both jaws to carry current. The enclosed heavy duty spring assures a powerful bite on the work. The insulation on top and bottom provides extended spring life.

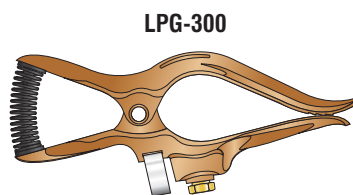
- All six of the Lenco ground clamps have the oval-point screw cable connection which is easy to install. No shim stock or pressure plate is needed.



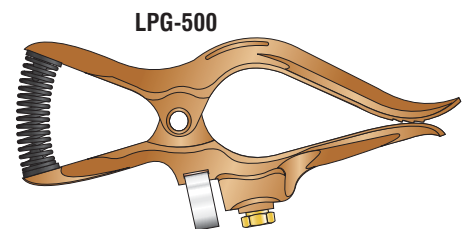
Model	Part No.	Amp Capacity	Cable Capacity	Type of Cable Connection	Weight	Jaw Opening
200	L02010	200	No.4 thru No.1/0(25-50mm ²)	Mechanical Oval-Point Screw	13 oz. (370g)	1" (25.4mm)
300	L02020	300	No.1/0 thru No.2/0(50-70mm ²)	Mechanical Oval-Point Screw	26 oz. (740g)	1½" (38.1mm)
500	L02030	500	No.3/0 thru No.4/0(70-95mm ²)	Mechanical Oval-Point Screw	35 oz. (995g)	1½" (38.1mm)



LPG-200



LPG-300



LPG-500

Model	Part No.	Amp Capacity	Cable Capacity	Type of Cable Connection	Weight	Jaw Opening
LPG-200	L02011	200	No. 4 thru No. 1/0(25-50mm ²)	Mechanical Oval-Point Screw	13 oz. (370g)	1" (25.4mm)
LPG-300	L02021	300	No.1/0 thru No.2/0(50-70mm ²)	Mechanical Oval-Point Screw	25 oz. (709g)	1½" (38.1mm)
LPG-500	L02031	500	No.3/0 thru No.4/0(70-95mm ²)	Mechanical Oval-Point Screw	38 oz. (11kg)	2" (51mm)

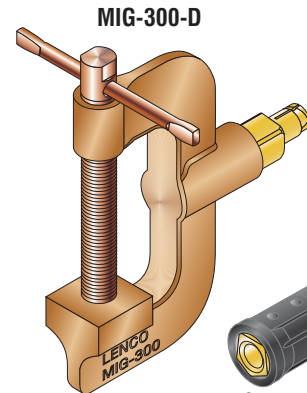
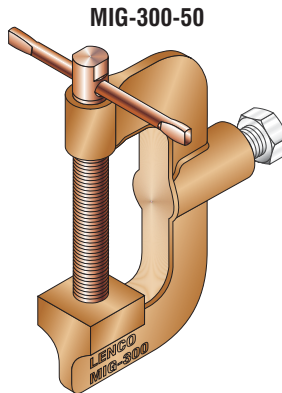
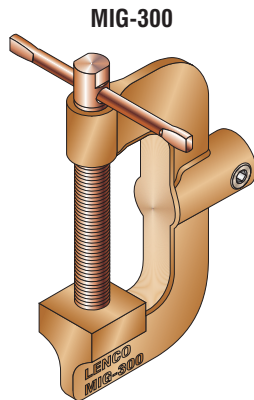


GROUND CLAMPS

LENCO's **MIG-300/MIG-600** ground clamps are designed especially for the MIG welding process. Their powerful bite allows for low resistance ground connections. They have a full two-inch opening and a copper coated steel pressure screw. The copper coated steel "T" handle makes it easy to apply maximum pressure.

MIG-300 Ground Clamps

- *Designed Especially for MIG Welding • Reduce Voltage Drop*

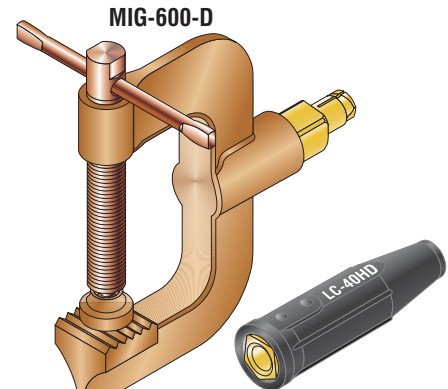
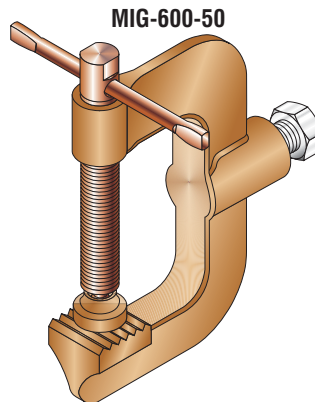
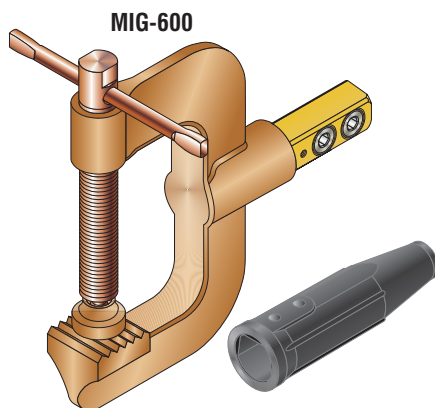


Comes with LC-40 Female

Model	Part No.	Amp Capacity	Cable Capacity	Type of Cable Connection	Weight	Jaw Opening	Throat Depth
MIG-300	L02075	300	No. 1/0 thru No. 2/0 (50-70mm ²)	Single Oval-Point Screw	1.5 lbs. (648.5g)	2" (51mm)	1-3/4" (44mm)
MIG-300-50	L02077	300	No. 1/0 thru No. 2/0 (50-70mm ²)	1/2 - 13	1.5 lbs. (648.5g)	2" (51mm)	1-3/4" (44mm)
MIG-300-D	L02082	300	No. 1/0 thru No. 2/0 (50-70mm ²)	Detachable Cable Connection	2 lbs. (932.7g)	2" (51mm)	1-3/4" (44mm)

MIG-600 Ground Clamps

- *Designed Especially for MIG Welding • Reduce Voltage Drop*

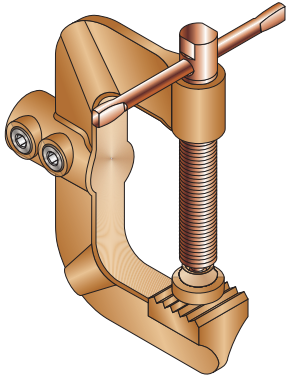


Comes with LC-40HD Female

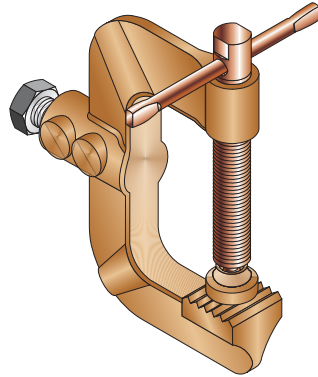
Model	Part No.	Amp Capacity	Cable Capacity	Type of Cable Connection	Weight	Jaw Opening	Throat Depth
MIG-600	L02070	600	No.3/0 thru No. 4/0 (70-95mm ²)	Two Oval-Point Screws	3.5 lbs. (1.6kg)	2" (51mm)	2-1/8" (54mm)
MIG-600-50	L02071	600	No.3/0 thru No. 4/0 (70-95mm ²)	1/2 - 13	3.5 lbs. (1.6kg)	2" (51mm)	2-1/8" (54mm)
MIG-600-D	L02081	600	No.3/0 thru No. 4/0 (70-95mm ²)	Detachable Cable Connection	3.9 lbs. (1.8kg)	2" (51mm)	2-1/8" (54mm)

HEAVY DUTY GROUND CLAMPS

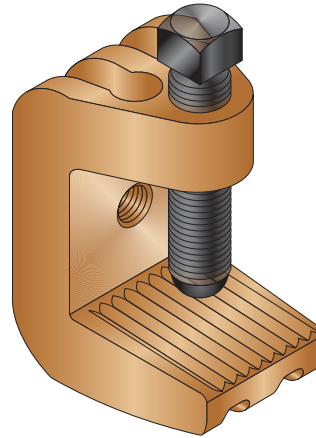
Model "G"/G-1500 Ground Clamps



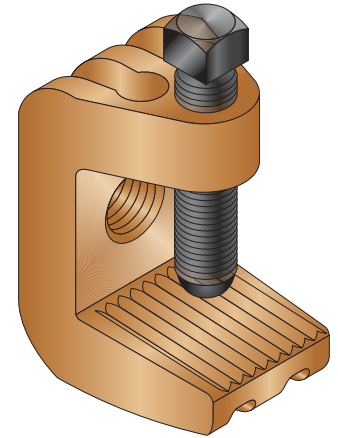
Model "G"



Model G-50



Model G-1500-34



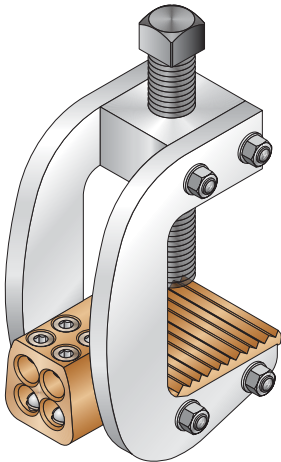
Model G-1500-138

• Reduce Voltage Drop

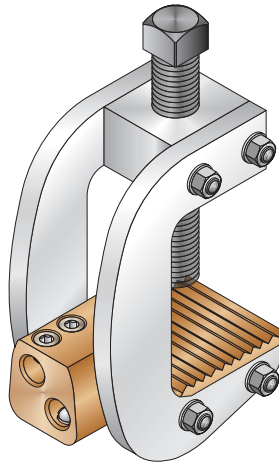
Apply up to 2,000 lbs. (907kg) pressure with the heavy duty pressure screw. The "G" and G-1500 are cast out of a heavy alloy material designed for high amperage applications. The design maximizes surface contact area which provides cool and efficient operation. The G-1500 can also be used with Lenco's R-4C & LRG Series Rotary Grounds (see pages 10-11).

Model	Part No.	Amp Capacity	Type of Connection	Weight	Jaw Opening	Throat Depth	Cable Capacity
G	L02060	600	Two Oval-Point Screws	70.4 oz.(2kg)	3-3/8" (85.7mm)	3-1/8" (79mm)	No.3/0 thru No.4/0(70-95mm ²)
G-50	L02061	600	1/2 - 13 Screw	70.4 oz.(2kg)	3-3/8" (85.7mm)	3-1/8" (79mm)	No.3/0 thru No.4/0(70-95mm ²)
G-1500-34	L02230	1500	3/4 - 10 F. Thread	9.5 lbs.(4.3kg)	3" (76.2mm)	3" (76.2mm)	N/A
G-1500-138	L02240	2000	1-3/8 - 6 F. Thread	9.5 lbs.(4.3kg)	3" (76.2mm)	3" (76.2mm)	N/A

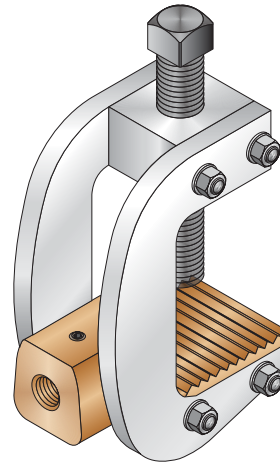
Model RBG1500 Ground Clamps - Totally Rebuildable



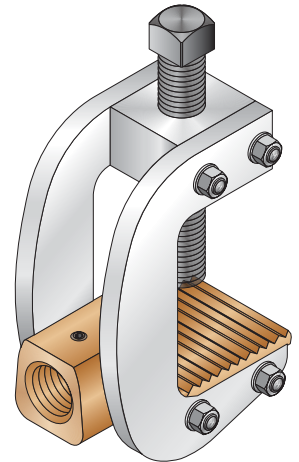
RBG1500-4/40



RBG1500-2/250



RBG1500-34



RBG1500-138

- Heavy Duty fits large diameter pipe & thick plate up to 4-1/2"
- Strong steel frame that will not spread open

- Heavy copper base for efficient current transfer
- Special larger jaw opening available on request

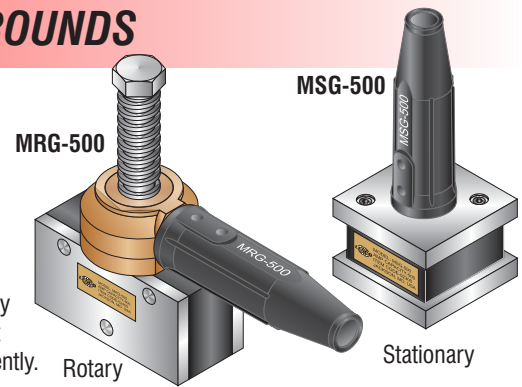
Model	Part No.	Amp Capacity	Type of Connection	Weight	Jaw Opening	Throat Depth	Cable Capacity
RBG1500-4/40	L02620	1500	8 Oval-Point Screws	13.2 lbs.(6.0kg)	4 1/2" (114.3mm)	3" (76.2mm)	4 ea. - 4/0 cables
RBG1500-2/250	L02630	1500	4 Oval-Point Screws	13.6 lbs.(6.2kg)	4 1/2" (114.3mm)	3" (76.2mm)	2 ea. - 250MCM
RBG1500-34	L02610	1500	3/4 - 10 F. Thread	13.8 lbs.(6.3kg)	4 1/2" (114.3mm)	3" (76.2mm)	N/A
RBG1500-138	L02600	2000	1-3/8 - 6 F. Thread	13.2 lbs.(6.0kg)	4 1/2" (114.3mm)	3" (76.2mm)	N/A



MAGNETIC and ROTARY GROUNDS

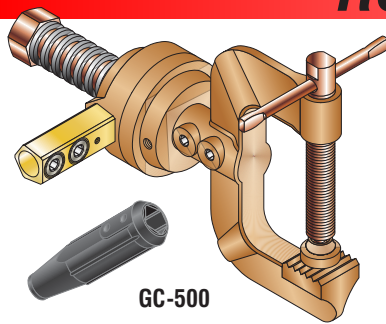
LENCO's magnetic grounds offer convenience, efficiency and quality. Both the **MRG-500** and **MSG-500** are designed to ensure greater efficiency with less overheating due to fewer junctions. Each allows the operator to keep the ground close to the work area improving the weld quality, decreasing the weld time and increasing operator production output. Lenco magnetic grounds are designed for up to 4/0 cable for maximum current carrying capacity. (for use on ferrous materials only)

The **MRG-500** is designed to be used for any rotary type welding work where cable can become twisted. The **MRG-500** covers 12 square inches giving good stability with approximately 4 inches of actual current carrying contact. The **MSG-500** also has 12 square inches of contact surface, 3 square inches per side, which can be mounted in any position and still perform efficiently.

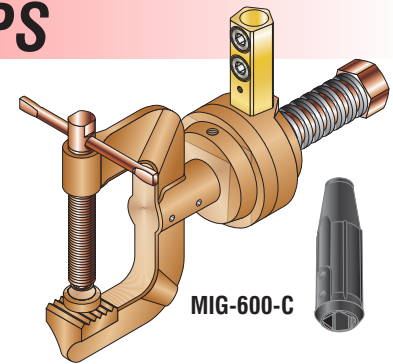


Model	Part No.	Amp Capacity	Type of Cable Connection	Weight	Cable Capacity
MRG-500	L02400	500	Double Oval-Point Screw with Cover	9 lbs. (4.0kg)	No. 3/0 thru No. 4/0 (70-95mm ²)
MSG-500	L02300	500	Double Oval-Point Screw with Cover	4 lbs. (1.8kg)	No. 3/0 thru No. 4/0 (70-95mm ²)

ROTARY GROUND CLAMPS



The two Lenco rotary devices shown here, the **GC-500** and the **MIG-600-C**, are combinations of Lenco products to provide rotating grounds. Both use the **Model "C"** rotary clamp. Both are designed to make it easy to attach the rotating portion to the work. The units come completely assembled, ready to attach to the work. They are field proven and do an excellent job.

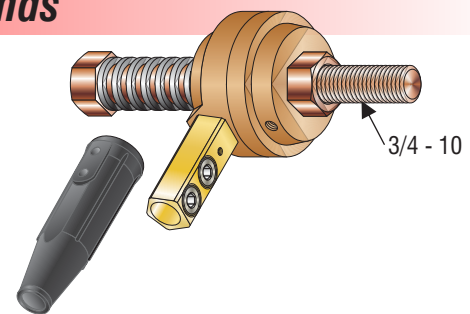


Model	Part Code No.	Amp Capacity	Cable Fitting Thread	Type of Cable Connection	Weight	Jaw Opening	Throat Depth	Cable Capacity
GC-500	L02120	500	1/2 - 13	2 Oval-Point Screws, with Cover	8 lbs. (3.6kg)	3-3/8" (85.7mm)	2-1/2" (64mm)	No.3/0 thru 4/0(70-95mm ²)
—	L02121	500	1/2 - 13	Replacement C clamp for GC-500				
MIG-600-C	L02130	500	1/2 - 13	2 Oval-Point Screws, with Cover	7 lbs. (3.2kg)	2" (51mm)	2-1/8" (54mm)	No.3/0 thru 4/0(70-95mm ²)
—	L02132	500	1/2 - 13	Replacement C clamp for MIG-600-C				
—	L05345			Insulating Cover (Black) Standard Cable Fitting				

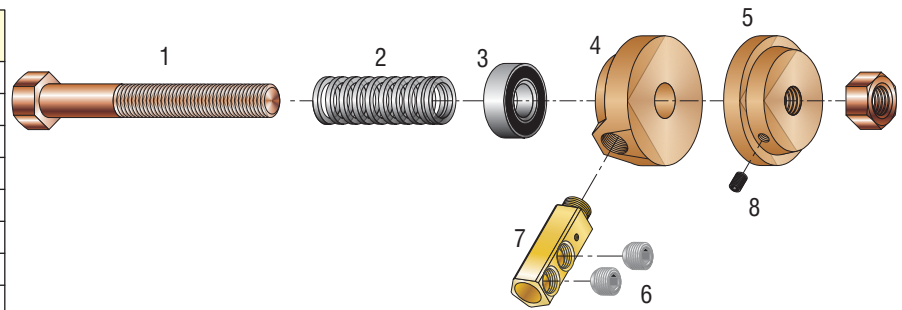
Model "C" Rotary Grounds

The **MODEL "C"** rotary clamp bolts the stationary contact plate directly to the work. The movable contact plate revolves like a "ferris wheel action" and the spring keeps tension on the two faces. Current flow is between machined faces. Cables will not bind. The Model "C" can also be installed on the end for rotary work.

Model	Part No.	Amp Capacity	Type of Cable Connection	Weight	Cable Capacity
C	L02080	500	Double Oval-Point Screws	3.5 lbs. (1.6kg)	No. 3/0 thru 4/0 (70-95mm ²)
—	L05345		Insulating Cover (Black) Standard Cable Fitting		



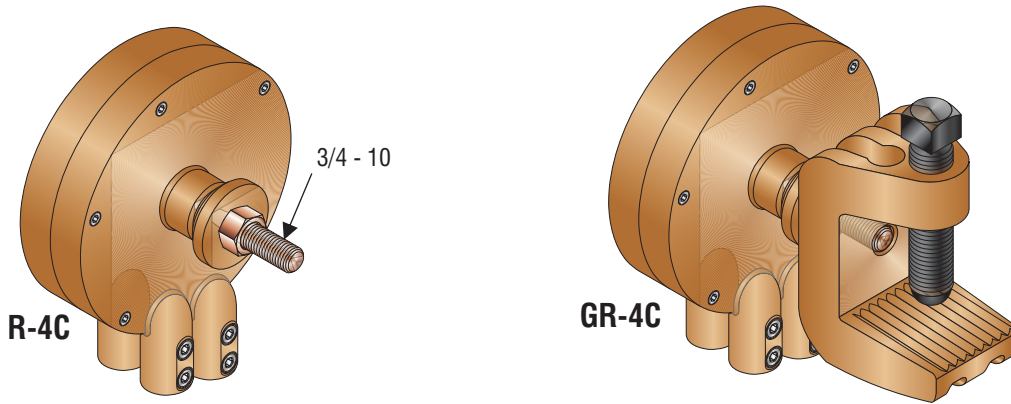
No.	Part No.	Item Description
1.	L02283	Mounting Bolt w/Nut [3/4 - 10 x 6" (152mm)]
2.	L02284	Pressure Spring
3.	L02286	Bearing-Thrust
4.	L02282	Movable Contact Plate
5.	L02281	Stationary Contact Plate
6.	L01068	Oval-Point Screw (2)
7.	L02085	Cable Fitting (1/2 - 13)
8.	L02285	Set Screw (5/16 - 18)



ROTARY GROUND CLAMPS

LENCO rotary grounds stop the twisting of welding cables where the work rotates.

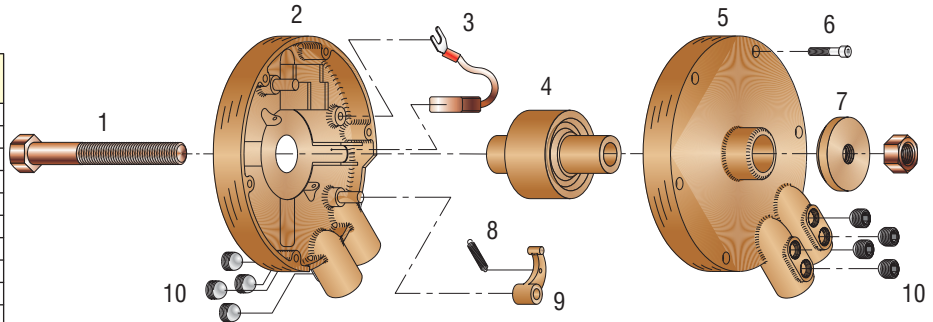
Model "R-4C-"/"GR-4C" Rotary Grounds



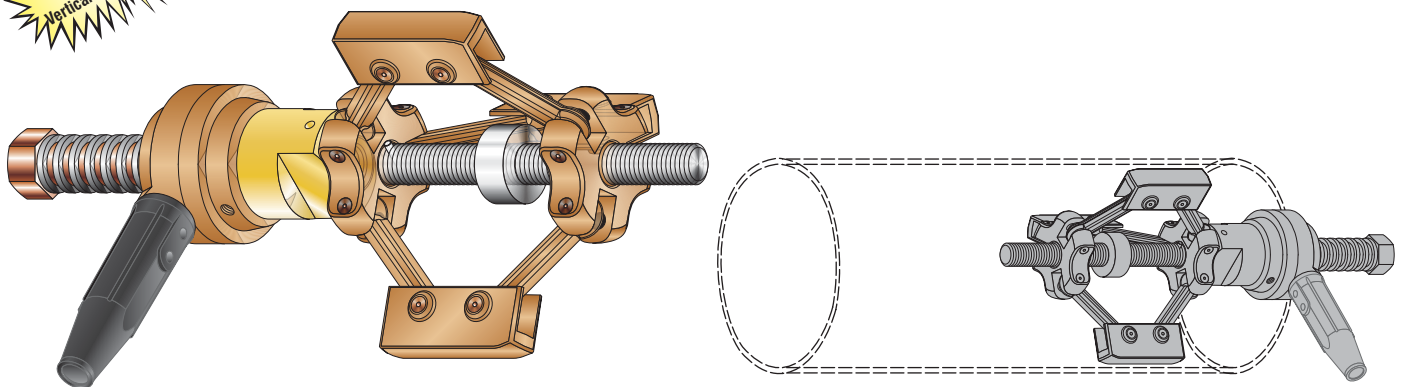
Model	Part No.	Amp Capacity	Type of Cable Connection	Weight	Jaw Opening	Throat Depth	Cable Capacity
R-4C	L02200	1500	(4) Double Oval-Point Screw Connection	23 lbs. (10.4kg)	—	—	No. 3/0 thru 4/0 (70-95mm ²)
GR-4C	L02220	1500	(4) Double Oval-Point Screw Connection	33 lbs. (15.4kg)	3" (76.2mm)	3" (76.2mm)	No. 3/0 thru 4/0 (70-95mm ²)

MODEL "R-4C" REPLACEMENT PARTS LIST

Item No.	Part No.	Description
1.	L02108	Mounting Bolt w/Nut [3/4 - 10 x 7 1/2" (190mm)]
2.	L02101	Clamp Housing, Threaded
3.	L02104	Brushes (4)
4.	L02103	Rotor
5.	L02102	Clamp Housing, Counterbored
6.	L02107	Cap Screw (5)
7.	L02109	Contact Plate
8.	L02106	Brush Finger Spring (4)
9.	L02105	Brush Finger (4)
10.	L01068	Oval-Point Screw (8)



PRG -48ID/816ID Rotating Internal Pipe Ground Clamps

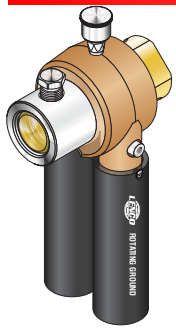


The Lenco PRG-48ID and PRG-816ID Ground Clamps are designed for vertical or horizontal positions of manual, semi-automatic or fully automatic welding applications. The PRG series has three pads which, when positioned, make direct contact with the inside of the pipe being welded or cut - eliminating the need for additional mounting brackets or threaded assemblies. The PRG Series Ground Clamps utilize the reliable "C" rotary ground that incorporates both a stationary and movable contact plate that rotates 360°. The spring keeps tension on the two faces and is easily adjustable for various applications. By tightening or loosening the flange, the PRG grounds are easily installed or removed.

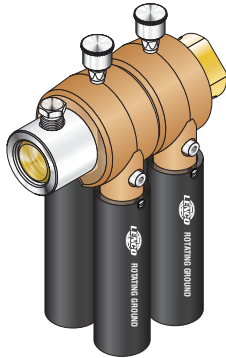
Model	Part No.	Amp Capacity	Description	Type of Cable Connection	Weight	Cable Capacity
PRG-48ID	L02700	500	Pipe Rotating Ground; 4 1/2"-8" I.D. Pipe	Double Oval-Point Screws	10.5 lbs. (4.77kg)	No. 3/0 thru No. 4/0 (70-95mm ²)
PRG816ID	L02710	500	Pipe Rotating Ground; 8"-16" I.D. Pipe	Double Oval-Point Screws	14 lbs. (6.36kg)	No. 3/0 thru No. 4/0 (70-95mm ²)



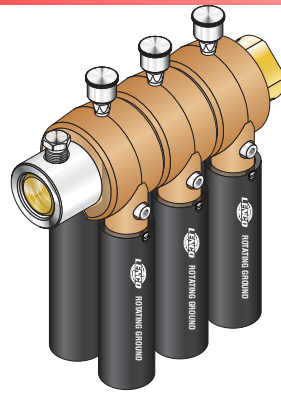
Model LRG-240/LRG-440/LRG-640 Rotating Grounds



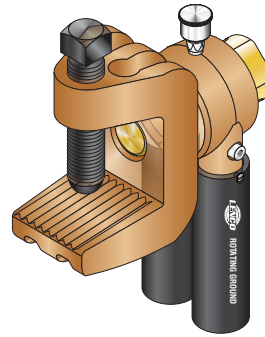
LRG-240



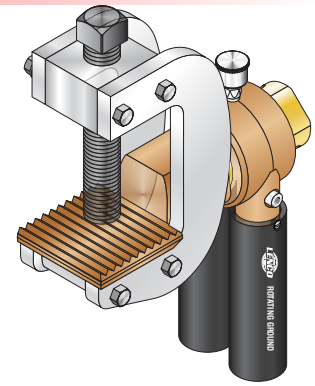
LRG-440



LRG-640



LRG-240 w/G-1500-138

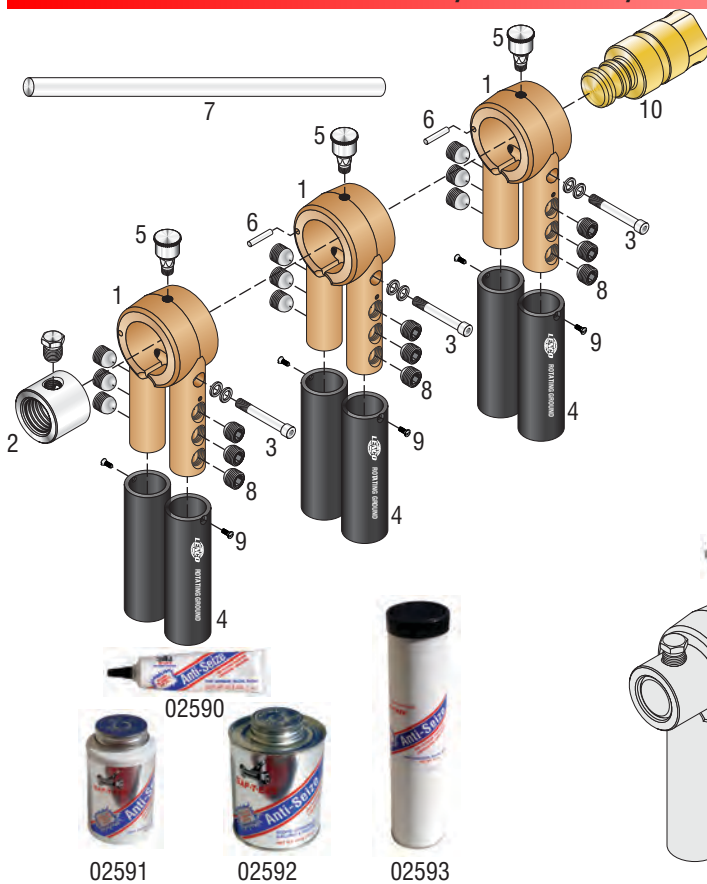


LRG-240 w/RBG1500-138

LENCO Rotating Grounds ranging from 800 amp to 2000 amperage rating. Each Rotating Ground can be permanently welded to the work or easily attached by using the G-1500-138 or RBG1500-38 "C" type clamp.

Model	Part No.	Amp Capacity	Type of Cable Connection	Cable Capacity	Number of Heads	Shaft Stud Size	Weight
LRG-240	L02510	800	(2) Triple Oval-Point Screw Connection	2 EA. 3/0-4/0(70-95mm ²)	1	1-3/8" NC	8.75 lbs.(3.97kg)
LRG-440	L02520	1500	(4) Triple Oval-Point Screw Connection	4 EA. 3/0-4/0(70-95mm ²)	2	1-3/8" NC	15.25 lbs.(6.92kg)
LRG-640	L02530	2000	(6) Triple Oval-Point Screw Connection	6 EA. 3/0-4/0(70-95mm ²)	3	1-3/8" NC	21.75 lbs.(9.87kg)
G-1500-138	L02240	800-2000	1-3/8" - 6 F. Thread	N/A	N/A	N/A	9.5 lbs. (4.3kg)
RBG1500-138	L02600	800-2000	1-3/8" - 6 F. Thread	N/A	N/A	N/A	13.2 lbs (6.0kg)

LRG-240/LRG-440/LRG-640 Replacement Parts

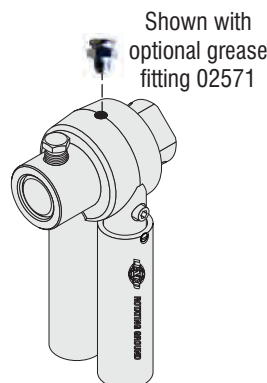


No.	Part No.	Description	LRG-240	LRG-440	LRG-640
1.	L02515	Rotating Casting	1	2	3
2.	L02580	Mounting Nut w/Oval Point Screw	1	1	1
3.	L02575	Tension Adjustment Screw w/Washers	1	2	3
4.	L02585	Insulating Cover	2	4	6
5.	L02570	Grease Cup	1	2	3
6.	L02577	Head Alignment Pin		1	2
7.	L02572	Tightening Bar	1	1	1
8.	L02587	Oval Point Screw	6	12	18
9.	L01065	Cover Screw	2	4	6
10.	L02561	Shaft	1		
	L02562	Shaft		1	
	L02563	Shaft			1



Conductive Shaft Lubricant

Part No.	Description
L02590	1 oz. Tube
L02591	8 oz. w/Brush Top Can
L02592	16 oz. w/Brush Top Can
L02593	16 oz. Cartridge for Grease Gun



Shown with optional grease fitting 02571



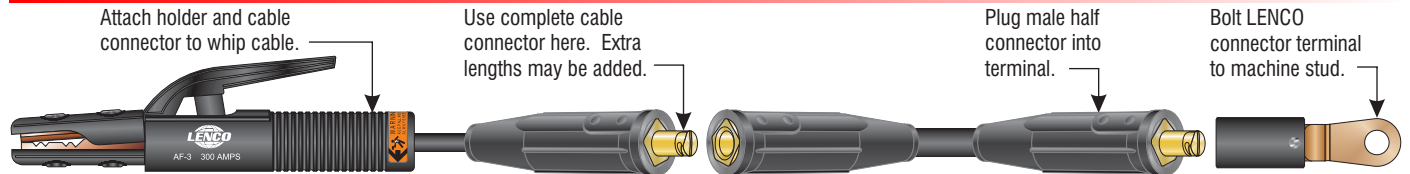
Ground Clamps with Special Grease Fitting

Part No.	Description
L025101	LRG-240 w/Special Grease Fitting
L025201	LRG-440 w/Special Grease Fitting
L025301	LRG-640 w/Special Grease Fitting

*Optional Grease Gun

Part No.	Description
L02571	Grease Fitting - Button Head
L02595	Pistol Grease Gun w/Button Head Coupler
L02596	Coupler - Button Head

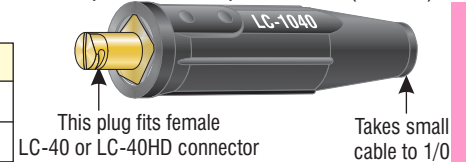
CABLE CONNECTORS



Whip Cable Connectors

The Lenco cable connector reducer consists of the male plug only. The plug end is the same size as the LC-40 connector male end and fits the LC-40 and LC-40HD female connector. The cable end is the same size as the LC-10 connector and will accept cable size up to No. 1/0 (50mm²).

Model	Part No.		Cable Connection	Maximum Cable Capacity	Weight
	Black	Red			
LC-1040	L05070	L05071	Oval-Point Screw	No. 1/0 (50mm ²)	6 oz. (170g)
LC40HD-1/0	L0506304	N/A	Double Oval-Point Screw	No. 1/0 (50mm ²)	7 oz. (198g)



International DINSE Style

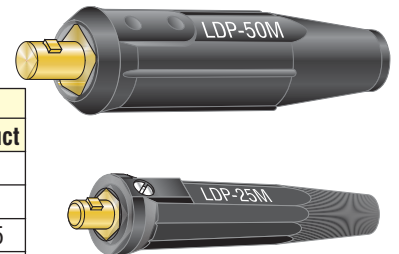


Model	Description	Part No.		Male End Diameter	Cable Capacity	Cable Connection	Amp Capacity	Weight
		Black	Red					
LDC-25	Complete Unit	L05420	L05421	.355 (9.0mm)	No. 8 thru. No. 4 (10-25mm ²)	Single Oval-Point Screw	150	3.8 oz. (109g)
	Male Half	L05423	L05424					1.9 oz. (55g)
	Female Half	L05426	L05427					1.9 oz. (55g)
LDC-50	Complete Unit	L05430	L05431	.508 (12.9mm)	No. 4 thru.No. 1/0 (25-50mm ²)	Single Oval-Point Screw	250	14 oz. (400g)
	Male Half	L05433	L05434					7 oz. (198g)
	Female Half	L05436	L05437					7 oz. (198g)
LDC-70	Complete Unit	L05440	L05441	.508 (12.9mm)	No. 1/0 thru.No. 2/0 (50-70mm ²)	Single Oval-Point Screw	350	14 oz. (400g)
	Male Half	L05443	L05444					7 oz. (198g)
	Female Half	L05446	L05447					7 oz. (198g)
LDC-95	Complete Unit	L05450	L05451	.508 (12.9mm)	No. 3/0 thru.No. 4/0 (70-95mm ²)	Double Oval-Point Screw	500	15 oz. (425g)
	Male Half	L05453	L05454					7 oz. (198g)
	Female Half	L05456	L05457					8 oz. (225g)

International DINSE Style

Point of Purchase Display Packaging

Model	Part No.			Interchangeable with the following models			
	Set	Black	Red	Dinse	ESAB/Airco	Lincoln	M.K. Product
LDP-25M	L05289	L05283	L05284	Dix SK 25	160360895	S19301-6	N/A
LDP-50M	L05309	L05303	L05304	Dix SK 50	N/A	N/A	N/A
LDP-70M	L05319	L05313	L05314	Dix SK 70	13792513	K-852-70	153-0755
LDP-95M	L05329	L05323	L05324	Dix SK 95	13792513	K-852-95	N/A



Connector Size	Male Plug Dia.	Cable Capacity	Type of Cable Connection	Amp Capacity
All 25	.355 (9.0mm)	No. 8 thru No. 4 (10-25mm ²)	Single Oval-Point Screw	150
All 50	.508 (12.9mm)	No. 4 thru No. 1/0 (25-50mm ²)	Single Oval-Point Screw	250
All 70	.508 (12.9mm)	1/0 thru No. 2/0 (50-70mm ²)	Single Oval-Point Screw	350
All 95	.508 (12.9mm)	2/0 thru No. 4/0 (70-95mm ²)	Double Oval-Point Screw	500

• *Dinse* type Tig machine plugs for most TIG torches & machines equipped with *Dinse* connections, for both air cooled & water cooled. See page 112.

Machine Plugs

Model LC-10MP
Fits Miller® welders*



Model UP-10
Fits variety of welders
Century® • Powermate® • Forney® • Others



LENCO machine plugs are designed to fit welding machines using long tapered plug and receptacle. Two types are available, the LC-10MP and the UP-10, both with red or black cover.

Model	Part No.		Cable Connection	Cable Capacity	Taper Dimension	Taper Length	Weight
	Black	Red					
LC-10MP	L05080	L05081	Single Oval-Point Screw	No. 4 thru No. 1/0 (25-50mm ²)	.330-.352 (8.4-8.9mm)	1.062" (27mm)	4 oz. (115g)
UP-10	L05270	L05271	Single Oval-Point Screw	No. 4 thru No. 1/0 (25-50mm ²)	.364-.385 (9.2-9.8mm)	1.000" (25.4mm)	4 oz. (115g)

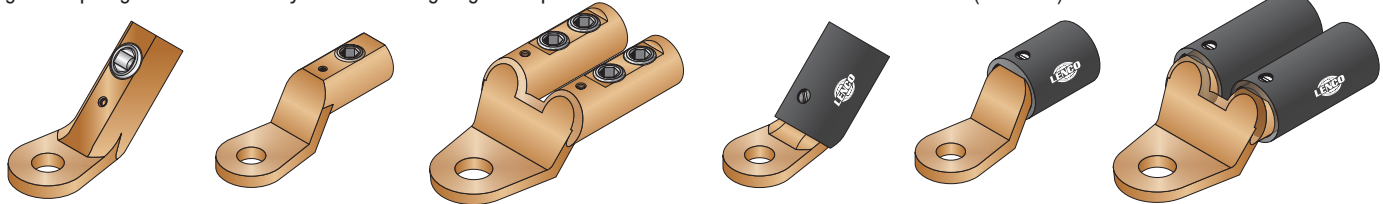
*Can be used to replace Miller part no. 039-608 (Red) and 039-901 (Black)



Mechanical Cable Lugs, Splicers, and Connector Terminals

• Lenco Cable Lugs Make Positive Cable Connection to the Welder

These mechanical lugs replace the ordinary solder lug for attaching welding cable to a welder. They are heavy duty cast copper alloy to take today's higher amperages. Cable is easily attached using large oval-point screw connection driven down with a 1/4" (6.35mm) allen wrench.



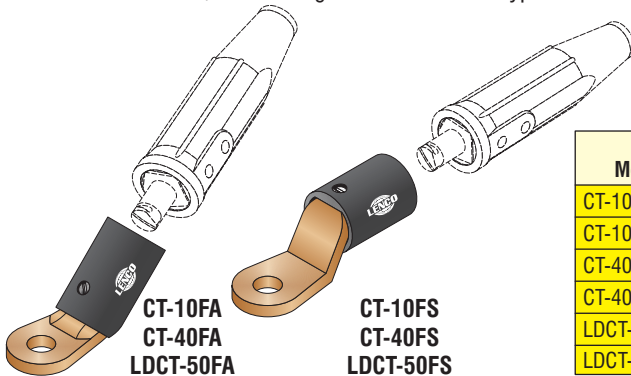
Model	Part No.	Style	Cable Capacity	Weight	Stud Hole
Without Insulator					
LM-610A	L07040	Angle 45°	No. 6 thru 1/0 (16-50mm ²)	4 oz. (115g)	17/32" (13.5mm)
LM-610S	L07050	Straight	No. 6 thru 1/0 (16-50mm ²)	4 oz. (115g)	17/32" (13.5mm)
LM-2040A	L07060	Angle 45°	No. 2/0 thru 4/0 (50-95mm ²)	7 oz. (200g)	17/32" (13.5mm)
LM-2040S	L07070	Straight	No. 2/0 thru 4/0 (50-95mm ²)	7 oz. (200g)	17/32" (13.5mm)
LM-2040S-HD	L07120	Straight	No. 2/0 thru 4/0 (50-95mm ²)	20 oz. (570g)	21/32" (16.8mm)
LM-2040S-HD-34	L07140	Straight	No. 2/0 thru 4/0 (50-95mm ²)	20 oz. (570g)	25/32" (20mm)
With Insulator					
LM-610AI	L07080	Angle 45° Insulated	No. 6 thru 1/0 (16-50mm ²)	5 oz. (140g)	17/32" (13.5mm)
LM-610SI	L07090	Straight Insulated	No. 6 thru 1/0 (16-50mm ²)	5 oz. (140g)	17/32" (13.5mm)
LM-2040AI	L07100	Angle 45° Insulated	No. 2/0 thru 4/0 (50-95mm ²)	8 oz. (230g)	17/32" (13.5mm)
LM-2040SI	L07110	Straight Insulated	No. 2/0 thru 4/0 (50-95mm ²)	8 oz. (230g)	17/32" (13.5mm)
LM-2040SI-HD	L07130	Straight Insulated	No. 2/0 thru 4/0 (50-95mm ²)	21 oz. (600g)	21/32" (16.8mm)
LM-2040SI-HD-34	L07150	Straight Insulated	No. 2/0 thru 4/0 (50-95mm ²)	21 oz. (600g)	25/32" (20mm)

Connector Terminals

- Lenco connector terminals offer you the advantage of quickly connecting or disconnecting welding cable at the power source.
- Lenco LDCT-50FA/FS are designed for male *Dinse* type connectors.

- Add On Cable
- Take Off Cable
- Change Polarity

Connector terminals are used in place of solder-type lugs and secured directly to the studs of the welder. The male half of a Lenco cable connector is attached to welding cable and is inserted into the terminal.



Model	Part Number	Style	Used with Lenco Connector	Weight	Stud Hole Diameter
CT-10FA	L08010	Angle 45°	LC-10 Male	5 oz. (140g)	17/32" (13.5mm)
CT-10FS	L08020	Straight	LC-10 Male	5 oz. (140g)	17/32" (13.5mm)
CT-40FA	L08030	Angle 45°	LC-40 or LC-40HD Male	8 oz. (230g)	17/32" (13.5mm)
CT-40FS	L08040	Straight	LC-40 or LC-40HD Male	8 oz. (230g)	17/32" (13.5mm)
LDCT-50FA	L08110	Angle 45°	LDC-50/70/95 Male	8 oz. (230g)	17/32" (13.5mm)
LDCT-50FS	L08120	Straight	LDC-50/70/95 Male	8 oz. (230g)	17/32" (13.5mm)

• Splice Cable Fast, Easy — Anywhere



LENCO cable splicers are made from a special brass extrusion. Large oval-point steel screws on each end of the splicers make it easy to splice cables in the shop or in the field. Tough glass filled nylon sleeve insulates the splicer.

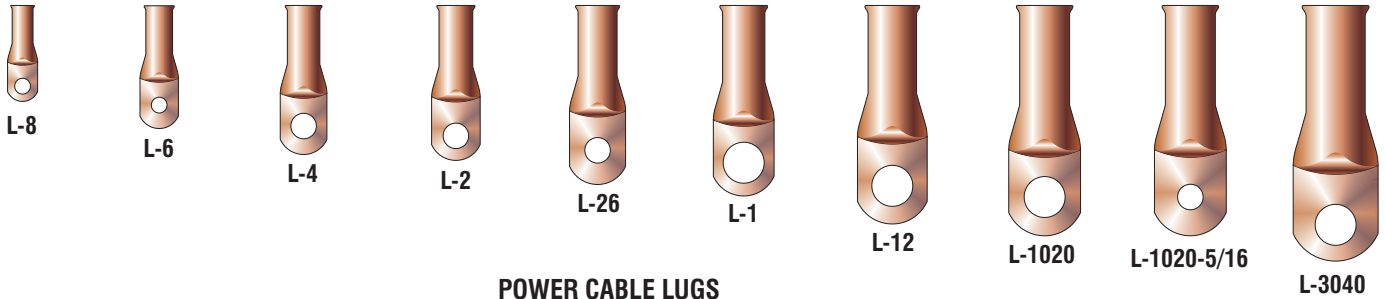
Model	Part No.	Cable Connection	Amp Capacity	Cable Capacity	Length	Weight
CS-610	L06010	Single Oval-Point Screw	250	No. 6 thru No. 1/0 (16-50mm ²)	3 3/4" (95mm)	4 oz. (115g)
CS-2040	L06020	Single Oval-Point Screw	350	No. 1/0 thru No. 2/0 (50-70mm ²)	4 1/4" (108mm)	7 oz. (200g)
CS-3040	L06030	Double Oval-Point Screw	500	No. 3/0 thru No. 4/0 (70-95mm ²)	6" (152mm)	12 oz. (340g)

Note: All cable splicers must be properly insulated.

Welding Cable Lugs

• Made Special For Welding Cable Use

LENCO cable lugs are precision made from copper tubing. They have an extra long barrel for easy soldering or attaching by the swedg-on process. The stud holes are made especially for welding machines with plenty of clearance. Flared ends make it easy to insert the cable in the lug.



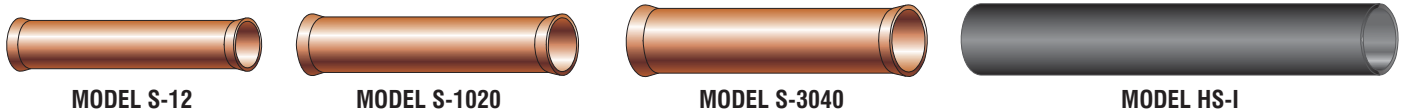
POWER CABLE LUGS

Model	Part No.	Cable Capacity	Stud Hole	Barrel I.D.	Weight per 100
L-8	L06980	No. 12 thru No. 14 (3-2mm ²)	13/64" (5.16mm)	.185" (4.7mm)	1.1 lbs. (.42kg)
L-6	L06985	No. 8 thru No. 10 (10-6mm ²)	13/64" (5.16mm)	.232" (6mm)	1.3 lbs. (.53kg)
L-4	L06990	No. 6 thru No. 8 (16-10mm ²)	21/64" (8.3mm)	.286" (7.3mm)	1.9 lbs. (.78kg)
L-2	L06995	No. 4 thru No. 6 (25-16mm ²)	21/64" (8.3mm)	.336" (8.5mm)	2.8 lbs. (1.2kg)

WELDING CABLE LUGS

L-26	L07005	No. 2 thru No. 6 (35-16mm ²)	21/64" (8.3mm)	.344" (8.7mm)	4 lbs. (1.7kg)
L-1	L07000	No. 2 thru No. 6 (35-16mm ²)	17/32" (13.5mm)	.360" (9mm)	4.7 lbs. (2.1kg)
L-12	L07010	No. 1 thru No. 2 (50-35mm ²)	17/32" (13.5mm)	.402" (10.2mm)	5 lbs. (2.2kg)
L-1020	L07020	No. 1/0 thru No. 2/0 (50-70mm ²)	17/32" (13.5mm)	.495" (12.6mm)	10 lbs. (4.3kg)
L-1020-5/16	L07021	Same as L-1020 but with 5/16" hole	21/64" (8.3mm)	.495" (12.6mm)	10 lbs. (4.3kg)
L-3040	L07030	No. 3/0 thru No. 4/0 (70-95mm ²)	17/32" (13.5mm)	.620" (15.7mm)	14 lbs. (6.3kg)

Welding Cable Splicers & Universal Heat Shrink



LENCO welding cable splicers are made from copper tube. They are attached to welding cable with the swedg-on tool. Lenco welding cable splicers are ideal for connecting broken lengths of cable, making repairs and adding on cable for longer runs.

Model	Part No.	Cable Capacity	Splicer I.D.	Length	Weight per 100
S-12	L06110	No. 1 thru No. 2 (50-35mm ²)	.402 (10.2mm)	2.37" (60mm)	4 lbs. (1.8kg)
S-1020	L06120	No. 1/0 thru No. 2/0 (50-70mm ²)	.495 (12.6mm)	2.92" (74mm)	9 lbs. (4.1kg)
S-3040	L06130	No. 3/0 thru No. 4/0 (70-95mm ²)	.620 (15.7mm)	3.25" (83mm)	12 lbs. (5.4kg)

Note: All Cable Splicers must be properly insulated.

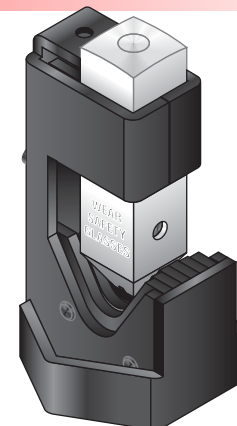
Model	Part No.	Description	Cable Capacity	I.D.	Length
HS-I	L06140	Universal heat shrink with adhesive to fit above splicers	No. 2 thru No. 4/0 (25-95mm ²)	1.0 (25.4mm)	5.00" (127mm)

Swedg-On Tool

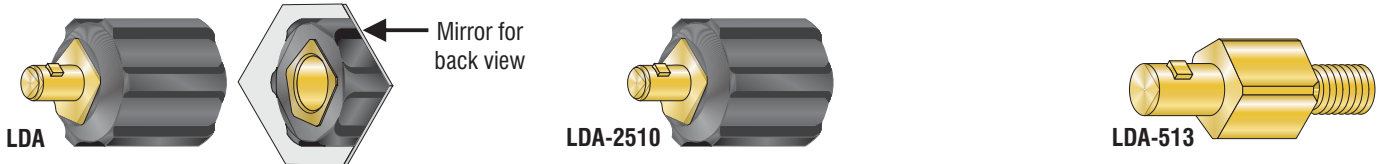
FEATURES

- Lugs and splicers are secured by spring tension during installation
- Capable of using on a full variety of lugs and splicers
- Wide base for stability while swedging
- Provides 1400-1800 lbs. pull-out resistance
- Easy to read scale for proper swedging

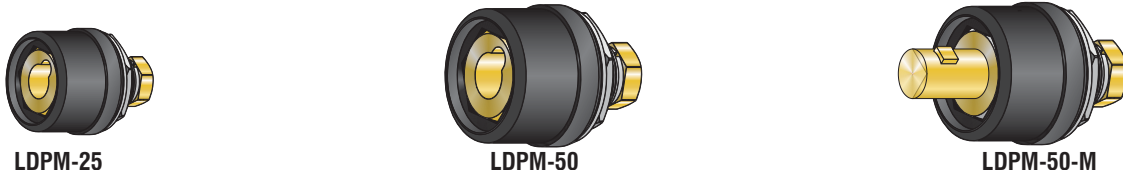
Model	Part No.	For Installing Lenco Lugs	Lenco Splicer
840	L04040	L-8 thru L-3040	S-12 thru S-3040



Adapters, Receptacles, Connectors & Output Terminals



Model	Part No.			Male End Diameter	Cable Capacity	Interchangeable with Miller®
	Set	Black	Red			
LDA	L05335	L05330	L05331	.508 (12.9mm)	Adapter (<i>Dinse</i> LDP-50-95 Male/LENCO LC-40/LC-40HD Female)	042465
LDA-10	L05334	L05332	L05333	.508 (12.9mm)	Adapter (<i>Dinse</i> LDP-50-95 Male/LENCO LC-10 Female)	
LDA-CAM	-	L053304	L053314	.508 (12.9mm)	Adapter (<i>Dinse</i> LDP-50-95 Male/CAM-LOCK Female)	042466
LDA-2510	L05339	L05336	L05337	.355 (9.0mm)	Adapter (<i>Dinse</i> LDP-50-95 Male/LENCO LC-10 Female)	
LDA-2540	-	L053364	L053374	.355 (9.0mm)	Adapter (<i>Dinse</i> LDP-50-95 Male/LENCO LC-40 Female)	
LDA-25CAM	-	L053305	L053315	.355 (9.0mm)	Adapter (<i>Dinse</i> LDP-50-95 Male/CAM-LOCK Female)	
LA-1040	-	L05075	L05076	LC-10 Male	Adapter (LC-10 Male/LC-40 Female)	
LDA-4050	-	L05470	L05471	LC-40 Male	Adapter (LC-40 Male/ <i>Dinse</i> LDC-50-95 Female)	195116
LDA-513	-	L05475	-	.508 (12.9mm)	Brass Adapter (<i>Dinse</i> LDP-50-95 Male/1/2-13 Male Thread)	
LA-40CAM	-	L05480	-	LC-40 Male	Adapter (LC-40 Male/CAM-LOCK Female)	
LA-CAM40	-	L05485	-	CAM-LOCK Male	Adapter (CAM-LOCK Male/LC-40 Female)	



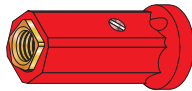
Model	Part No.		Description	Male End Diameter	Fits Cable Connector	Interchangeable with Miller®
	Black	Red				
LDPM-25	L08105	L08105	Panel Receptacle (Female)	.355 (9.0mm)	LDP-25M	N/A
LDPM-50	L08106	L08106	Panel Receptacle (Female)	.508 (12.9mm)	LDP-50/70/95M	129525 (Black)
LDPM-50-M	L08108	N/A	Panel Receptacle (Male)	.508 (12.9mm)	LDC-50/70/95 Female	143419 (Black)
LCPM-40	L08104	N/A	Panel Receptacle (Female)	N/A	LC-40/LC-40HD	N/A

Insulated Stud Connectors

MODELS LSC-10, LSC-40, and LDSC-50

Designed for power sources having stud type terminals. This model offers insulation for those having this type terminal.

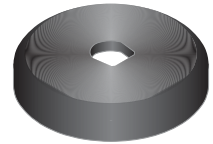
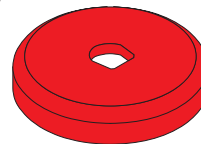
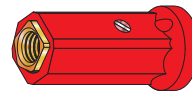
- A better connection
- Completely insulated
- A threaded, face-to-face contact with the power source terminal
- Use with male LENCO cable connector LC-10, LC-40, and LDP-50/70/95



MODELS LSC-40-H and LDSC-50-H

Designed for power sources having a solid bus bar. Place cup-type insulation over the stud terminal and secure connector tightly in place.

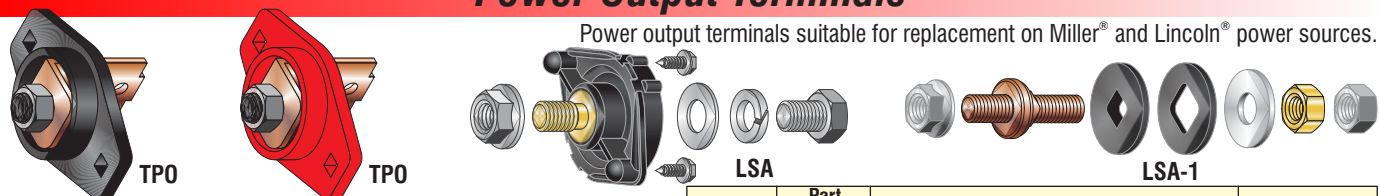
- Face of brass recessed minimal chance of shorting out
- Use with LC-40 or LC-40HD male connector
- Use the LC-1040 for small cable
- Use the LDSC-50-H with the LDC-50/70/95 male



Model	Item Code No.		Used with LENCO Connector	Stud Thread	Model	Part No.		Used with LENCO Connector	Stud Thread
	Black	Red				Black	Red		
LSC-10	08050	08051	LC-10 Male	1/2 - 13	LSC-40-H	L08070	L08071	LC-40 or LC-40HD Male	1/2 - 13
LSC-40	08060	08061	LC-40 or LC-40HD Male	1/2 - 13	H	L05263	L05264	Insulator Cup	
LDSC-50	08150	08151	LDC-50/70/95 Male	1/2 - 13	LDSC-50-H	L08155	L08156	LDC-50/70/95 Male	1/2 - 13

Power Output Terminals

Power output terminals suitable for replacement on Miller® and Lincoln® power sources.



Model	Item Code No.		Description	Stud Thread	Model	Part No.	Description	Stud Thread
	Black	Red						
TPO	08100 (039046)	08101 (039047)	Terminal, Power Output	1/2 - 13	LSA	L08210	Lincoln Stud Assembly w/Hardware (T14166-9 [M13900])	1/2 - 13
					LSA-1	L08211	Stud Assembly Complete (S11125-1)	1/2 - 13

Arc Gouging Torches



Standard Features:

- 15° torch head (AEC4000, 4500)
- Special high impact, heat resistant material
- Special copper alloy forged body
- Easy field repair
- Unique valve design for easy field repair
- 7' 360° swivel cable assembly
- Optional 12' swivel cable assembly available

Part No.	Description	DC AMPS						
		5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"
AEC-3000	Complete gouging torch w/ 7' cable assembly	90	200	300	350	450		
AEC-3000-1	Complete gouging torch w/ 7' swivel cable assembly	to	to	to	to	to	—	—
AEC-3000-12-1	Complete gouging torch w/ 12' swivel cable assembly	150	250	400	450	600		
AEC-3001	Complete gouging torch less cable assembly							
AEC-3500	Complete gouging torch w/ 7' cable assembly	90	200	300	350	450		
AEC-3500-1	Complete gouging torch w/ 7' swivel cable assembly	to	to	to	to	to	—	—
AEC-3500-12-1	Complete gouging torch w/ 12' swivel cable assembly	150	250	400	450	600		
AEC-3501	Complete gouging torch less cable assembly							
AEC-4000-1	Complete gouging torch w/ 7' swivel cable assembly	90	200	300	350	450	800	
AEC-4000-12-1	Complete gouging torch w/ 12' swivel cable assembly	to	to	to	to	to	to	—
AEC-4001	Complete gouging torch less cable assembly	150	250	400	450	600	1000	
AEC-4500-1	Complete gouging torch w/ 7' swivel cable assembly		200	300	350	450	800	1000
AEC-4500-12-1	Complete gouging torch w/ 12' swivel cable assembly	—	to	to	to	to	to	to
AEC-4501	Complete gouging torch less cable assembly		250	400	450	600	1000	1250
AEC-5000	Complete gouging torch w/ 7' cable assembly			300	350	450	700	1000
AEC-5000-1	Complete gouging torch w/ 7' swivel cable assembly	—	—	to	to	to	to	to
AEC-5000-12-1	Complete gouging torch w/ 12' swivel cable assembly			400	450	600	900	1250
AEC-5001	Complete gouging torch less cable assembly							

DC Copper Coated Gouging Carbons



Part No.	Size	Per Box	Per CTN	CTN Weight
ARC GOUGING CARBONS - DC COPPER COATED POINTED				
5/32-12 CC	5/32" x 12"	100	1000	23 lbs.
3/16-12 CC	3/16" x 12"	50	500	16 lbs.
1/4-12 CC	1/4" x 12"	50	500	25 lbs.
5/16-12 CC	5/16" x 12"	50	500	33 lbs.
3/8-12 CC	3/8" x 12"	50	500	50 lbs.
1/2-14 CC	1/2" x 14"	50	200	41 lbs.
ARC GOUGING CARBONS - DC COPPER COATED FLAT				
3/8-5/32-12 CC	3/8" x 5/32" x 12"	50	500	34 lbs.
ARC GOUGING CARBONS - DC COPPER COATED JOINTED				
3/8-17 JCC	3/8" x 17"	50	500	73 lbs.
1/2-17 JCC	1/2" x 17"	20	200	48 lbs.
3/4-17 JCC	3/4" x 17"	10	100	52 lbs.



Cable that is made in the USA with the finest bare copper. In addition, a Mylar separator to prevent the insulation from sticking to the copper.

Check out these features:

- Self-extinguishing to flame
- Oil resistant
- Excellent abrasive and tear resistance
- Excellent flexibility

FLEXIBLE

Proven to be the standard in the industry, cable features a neoprene insulation which meets or exceeds all industry specifications, so it is a smart choice for every purpose plus it is competitively priced and available in a variety of colours.

SEQUENTIALLY MARKED CABLE

- Measurements are printed directly on the cable for accuracy every time!
- Makes it fast and easy to cut the right length - without measuring.
- Indicates the exact amount of footage remaining on each reel.
- Ends guesswork during inventory counts.
- Available in convenient 500' reels.

CUT & BOXED CABLE

- Perfect for retail shelf space
- Available in 25', 50', 100' or custom lengths
- Coloured boxed cable is also available
- Boxes are clearly marked with colour, length and cable size

COLOURED AND CUSTOM-IMPRINTED CABLE

- A variety of coloured cables, as well as custom imprints. Surface or indent printing.

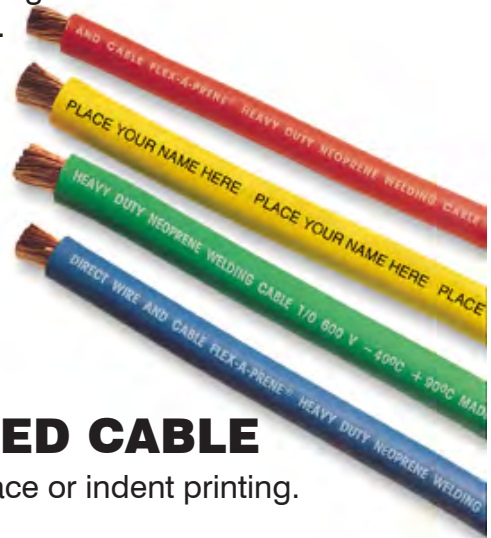
COLOURED CABLE

- Make cable identification easier on job sites with multiple contractors
- Individualize your rental cable
- Four stock colours available (Red, Blue, Yellow, Green)
- Provides higher visibility for safety on the job

CUSTOM IMPRINTS

- Company name and phone number imprints deter theft
- Keeps company name in clear view - to help generate more business!
- Locks in customers

Custom Whip Cables Also Available



WELDING CABLE GUIDE

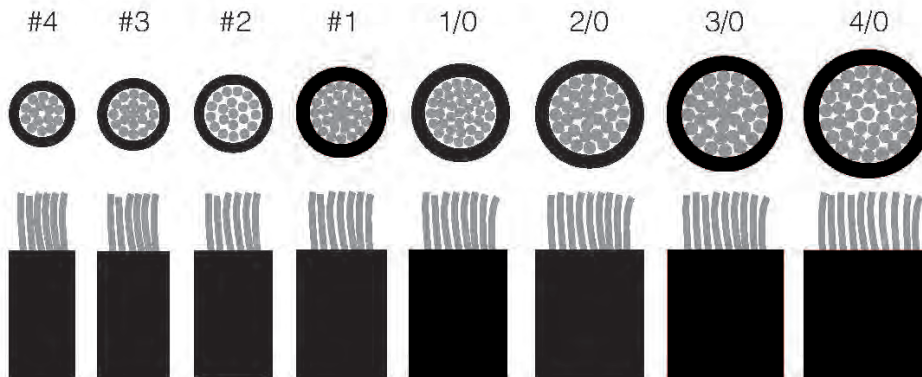
SUGGESTED AMPACITY FOR WELDING CABLE

GAUGE	50'	75'	100'	125'	150'	175'	200'	225'	250'	300'	350'
#4 .178 lbs. per ft.	100 9 lbs.	100 13.5 lbs.									
#3 .221 lbs. per ft.	150 16.5 lbs.										
#2 .263 lbs. per ft.	200 14 lbs.	150 20 lbs.	100 27 lbs.	100 33 lbs.							
#1 .344 lbs. per ft.	250 18 lbs.	200 25.8 lbs.	150 35 lbs.		100 52 lbs.						
1/0 .424 lbs. per ft.	350 22 lbs.	250 32 lbs.	200 43 lbs.	150 52 lbs.		100 74.2 lbs.	100 85 lbs.				
2/0 .512 lbs. per ft.	400 26 lbs.	300 38.4 lbs.	250 52 lbs.	200 64 lbs.	150 76.8 lbs.		100 102.4 lbs.	100 115.2 lbs.			
3/0 .624 lbs. per ft.	500 32 lbs.	350 47.5 lbs.	300 64 lbs.	250 80 lbs.	200 76.8 lbs.	150 95 lbs.	150 126.8 lbs.			100 190 lbs.	
4/0 .800 lbs. per ft.	550 40 lbs.	450 60 lbs.	350 80 lbs.	300 100 lbs.	250 120 lbs.	200 140 lbs.	200 160 lbs.	150 180 lbs.	150 180 lbs.		100 280 lbs.

Available in these colors



CABLE SIZES



Make sure you're ordering the right cable for the right job.

Contact the experts. We'll get you what you need when you need it.

Made in the USA

MOTOR GUARD CORPORATION

Contaminants in your compressed air system - dust, scale, condensed moisture and oil mist - seriously affect the quality of your plasma cuts. Installation of a Motor Guard Sub-Micronic Air Filter on your plasma machine will effectively remove these contaminants eliminating arc sputter and producing cleaner faster smoother cuts. In addition, Motor Guard filters virtually pay for themselves by reducing wear and prolonging the life of expensive tips and electrodes.



M-26 / M-60 Sub-Micronic Compressed Air Filter

- Cleaner, faster, smoother plasma cutting with ultra-clean air
- Prolongs the life of expensive plasma gun tips
- Removes aerosols, condensed moisture and particulates
- Installs on or near equipment for ultimate protection
- Ideal for plasma cutters and all air consuming equipment

D-13 Disposable Sub-Micronic Air Filter

- Ideal for small plasma cutters, air tools, blow guns and spray equipment
- Removes aerosols, condensed moisture and particulates
- Lightweight and disposable
- Mounts directly on tool for ultimate protection



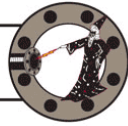
DD-1008 Disposable In-Line Desiccant Filter

- Unique point-of-use desiccant dryer
- Ideal for small plasma cutters, air tools, blow guns and spray equipment
- Removes aerosols, condensed moisture and particulates
- Exclusive colour-change indicator signals when replacement is needed
- Mounts directly on tool for ultimate protection

M-723 Replacement Filter Element for M-26/M-60



Part No.	Description	Pipe Size	Max. Flow @ 80 PSI	Maximum Pressure	Maximum Temperature	Removal Rating (nom.)	Size	Replace. Element
M-26	Sub-Micronic Compressed Air Filter Incl. Mounting Brackets	¼" NPT	2700 SCFH	100 PSI	175° F	.01 Microns	5" x 7"	M-723
M-60	Sub-Micronic Compressed Air Filter - Straight-Through piping design	½" NPT	6000 SCFH	125 PSI	175° F	.01 Microns	5" x 7"	M-726
D-13	Disposable Sub-Micronic Air Filter	¼" NPT	1800 SCFH	100 PSI	175° F	.01 Microns	2½" x 3"	None
DD-1008	Disposable In-Line Desiccant Filter	¼" NPT	1200 SCFH	100 PSI	120° F	5 Microns	1½" x 3½"	None



Plasma Cutting Guide & Plasma Wiz

Model #PG-601 Plasma Cutting Guide

flange wizard's® "New" Plasma Cutting Guide is a handy addition to your plasma cutting machine. Standard model PG-601 will assist you in cutting holes from 5/8" to 36" in diameter. You can use your guide for straight and irregular cuts by using the wheels provided with your cutting guide.

You can set up your plasma guide for cutting medium to large circles by installing one wheel on the plasma body. The tool is so balanced, a wheel on the plasma body is not necessary when cutting small (5/8" dia.) holes to (4" dia.) medium holes in your materials.

Just center punch where you want the center of the hole, set the radius of the hole you want from the pointer on the hex arm to the center of the plasma torch and you are ready to cut.

Special non-conductive bushings to fit your plasma torch must be ordered when purchasing your PG-601 Plasma Cutting Guide.



Model FW-30061 Plasma Wiz

flange wizard's® Tools New "Plasma Wiz" is another quality product designed to make your hole cutting jobs in steel and non-ferrous metals a snap. Just adjust the pivot pin for the proper height, move it along the hex bar to set the radius you want and lock it in place with the thumb screw. Put a center punch mark in your material where you want the hole to be so your pointed pivot pin will not slip out.



The "Plasma Wiz" will cut holes from 5/8" in diameter to 8" diameter without any wheels.

Important: You must order the bushing that fits your torch when purchasing the "Plasma Wiz". Ask your distributor to assist you in buying the proper bushing to fit your plasma torch.



Plasma Cutting Guide & Plasma Wiz Bushings

Part No.	Description
FW-PG-601 FW-30061	Plasma Cutting Guide Plasma Wiz

Part No.	Manufacturer	Head Dia of Torch	Model Torch or Machine
FW-61-1.007	ESAB HYPERTHERM MILLER THERMADYNE	.965 to 1.005 Straight Hole	250, 380, 650 H-65-S, H-85, H65, H-85, T-30, T-45, T-60 T-80, T-100, PAC105, PAC110, PAC120 PAC121, PAC123, PAC125 ICE-27 SL-40
FW-61-1.070	MILLER	1.030 to 1.068	ICE-40C, ICE-40T, ICE-50C, ICE-55C ICE-60T, ICE-80T, Spectruc 875
FW-61-1.200	ESAB HYPERTHERM LINCOLN MILLER THERMADYNE	1.069 to 1.195 Straight Hole	900, 1300, 1600, PT-27 or I-750, I-1000 PAC130, PAC160 LC-25, LC-40 Spectrum 500, Spectruc 750 SL-60, SL-100, RPT-100(New #1, Drag-Gun Cutmaster 50, 52, 100, 102
FW-61-1.260	HYPERTHERM	1.199 to 1.250	Power Max 1100, PAC 135
FW-61-1.275	LINCOLN	1.260 to 1.270	Lincoln 125, PGT 125 Torch
FW-61-1.430	THERMADYNE	1.400 to 1.425	PCH-120 Torch (Special) Larger head diameter on heat shield - call for quote SPECIAL ORDER Ask for PG-602



PROFAX Electric CO2 Heater

120V AC/60hz 100 Watt

The most ECONOMICAL Thermostatic controlled CO₂ Heater, designed to prevent CO₂ Regulator Freeze-Up. Extends life of regulator/flowmeter and prevents porosity in welds from loss of shield gas in frozen regulator. Easily installed between CO₂ cylinder valve and flowmeter. Also Available With 240 Volt AC/60hz.



Part No.	Description
CO2HEATER	PROFAX Electric CO ₂ Heater



Mini Magnum Style Mig Guns

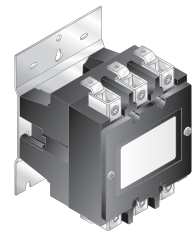
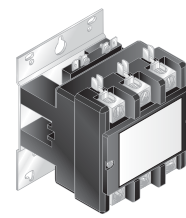
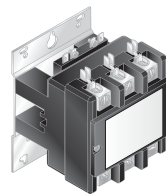
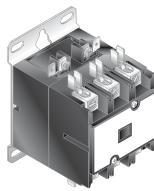
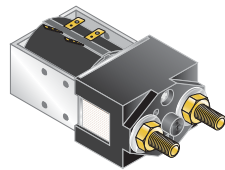
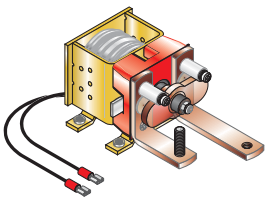


- Equivalent to Magnum® 100
- 150 amp
- 10' Cable
- Available with Euro, Hobart®, Miller®, Lincoln® or Tweco® connections

Part No.	Description
M-MINI-10	Miller® Style Connection
LWM-MINI-10	Lincoln® Style Connection
T-MINI-10	Tweco® Style Connection
H-MINI-10	Hobart® Style Connection
X-MINI-10	Euro Style Connection

Includes the following parts:
 11-30 Contact Tip
 51 Gas Diffuser
 21-50 Nozzle
 35-40-15 Liner

SUITABLE REPLACEMENTS FOR MOST MAKES AND MODELS OF WELDING EQUIPMENT



HOBART®/THERMAL ARC®
300 AMP

LINCOLN®/MILLER® SPST
250 AMP

40 AMP

50 - 60 AMP

75 & 90 AMP

120 AMP

- 40, 50, 60, 75, 90, 120 & 250 AMP SIZES
- 1, 2, 3, & 4 POLE

- STANDARD MOUNTING PLATES
- AVAILABLE WITH N.O. & N.C. AUXILIARY SWITCHES

- 24 or 120 VOLT AC COIL OPERATION

CONTACTOR

To order a contactor either choose from the reference list or supply the following information:
(This information can be obtained from the original contactor ID tag)

ORDERING

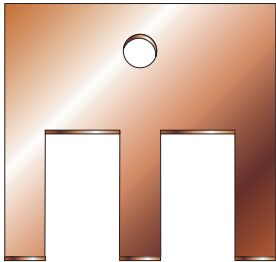
- Amperage Rating
- Number of Poles
- Coil Voltage
- Auxiliary Switches (Specify number of switches by adding suffix number from the auxiliary switch chart to the end of the contactor part number.)

INFORMATION

If the above information is not obtainable please supply "PROFAX" with the original equipment manufacturer's name, model, serial number and (if applicable) the code number of the welding equipment the replacement contactor is to be used in. With this information the "PROFAX" technical department will recommend a suitable contactor.

SELECTION TABLE

4 Pole contactors are available in 40 amp only. Coil Voltages of 24, 110/120, 208/240 are available for all contactors.	CONTACTOR AMP RATING	NO. OF POLES	COIL VOLTAGE	PROFAX
	60		2	24
2			110/120	633U20
2			208/240	633U30
3			24	633U10
3			110/120	633U20
3			208/240	633U30
75		2	24	730U10
		2	110/120	730U20
		3	24	730U10
		3	110/120	730U20
		3	208/240	730U30
		3	208/240	730U30
90		2	24	937U10
		2	110/120	937U20
		3	24	937U10
		3	110/120	937U20
		3	110/120	937U20
		3	110/120	937U20
120		2	110/120	1230U20
		3	110/120	1230U20
		2	110/120	1230U20
		3	110/120	1230U20
		2	110/120	1230U20
		3	110/120	1230U20
250	PROFAX	1	120V DC	6428
		1	12V DC	6427
		1	12V DC	6429
		1	12V DC	6429
		1	12V DC	6429
		1	12V DC	6429
300	Hobart®	1	New Style 12V DC	6431
		1	New Style 12V DC	6431
		1	New Style 12V DC	6431
		1	New Style 12V DC	6431



FITS PROFAX CONTACTORS ONLY

POLE LINKS

Pole links are available for the 40, 50, & 60 amp three pole contactors only.

POLE LINKS | CONTACTORS

433JL	40 Amp, 3 pole
533JL	50 Amp, 3 pole
633JL	60 Amp, 3 pole

POLE LINKS ARE SOLD AS A SET OF TWO.

CONTACTOR AMP RATING	NO. OF POLES	COIL VOLTAGE	PROFAX NO.
40	2	24	438U10
	2	110/120	438U20
	3	24	438U10
	3	110/120	438U20
	4	24	443U10
	4	110/120	443U20
50	2	24	533U10
	2	110/120	533U20
	2	208/240	533U30
	3	24	533U10
	3	110/120	533U20
	3	208/240	533U30

Auxiliary Switches (for PROFAX Contactors Only.)

AUX. SWITCHES DO NOT APPLY TO 250 AND 300 AMP CONTACTORS

CONTACTORS	PROFAX PART NO.	P/N SUFFIX	Contacts		NO. OF KITS	DIAGRAMS	
			N.O.	N.C.		332 STYLE	337 STYLE
40 AMP	98220332	S3	1	1	1		
		S6	2	2			
	98220337	S7	1	1	1		
		S8	2	2			
50 through 120 AMP	34300S332	S3	1	1	1		
		S6	2	2			
	34300S337	S7	1	1	1		
		S8	2	2			

AFFIX THE P/N SUFFIX TO THE END OF THE CONTACTOR PART NUMBER TO ADD THE CORRECT AUXILIARY SWITCH OR SWITCHES.

	MFR. P/N	MODEL	PROFAX		MFR. P/N	MODEL	PROFAX	
HOBART®	035519	Betamig 1800	533U10'	MILLER®	034646	CP250TS/SM	533U10	
	160760	Cyberweld 302	533U10		"	"	CP300TS/SM	533U10
	160760	Cyberflex 302	533U10		"	"	SCP200	533U10
	160793	Cyberflex 452	633U10		034652	"	MP65E	633U20
	160793	Cyberweld 452	633U10		"	"	FC6E	633U20
	160794	Cyberweld 652	730U10		"	"	FC65E	633U20
	170303	HEFTY	6431		"	"	320A/BP	633U20
	870202	HEFTY II	6431		"	"	330A/BP	633U20
HYPERTHERM®	003053	HT40C	438U10	"	"	340A/BP	633U20	
	"	MAX40	438U10	034653	"	320A/BP	633U20	
	"	MAX40CS	438U10	"	"	330A/BP	633U20	
	003059	HT40C	438U10S3*	"	"	360A/BP	633U20	
	"	MAX40	438U10S3*	034655	"	CP750E	730U20	
	"	MAX40CS	438U10	"	"	FC75E	730U20	
	003062	HT40C	438U10	"	"	MP75E	730U20	
	"	MAX40	438U10	034875	"	CP200	633U20	
	003066	MAX100	633U10	"	"	MP30E	633U20	
	"	MAX100	633U10S3*	"	"	SCP200	633U20	
	003073	HT40C	438U10	"	"	SR150	633U20	
	"	MAX40	438U10	034909	"	320A/BP	633U20	
	003092	MAX200	937U10S3	"	"	330A/BP	633U20	
003139	HT2000	937U20	035519	"	Millermatic 35	533U10'		
003153	MAX100	633U10	"	"	Millermatic 185	533U10'		
"	MAX100	633U10S3*	"	"	PLAZCUT	438U10		
L-TEC/LINDE®	639526	VI 1000	1230U20	"	"	Spectrum 500	438U10	
	"	VI 1200	1230U20	035729	"	320A/BP	633U20	
	672162	VI 205	533U20S6*	"	"	330A/BP	633U20	
	"	VI 252	533U20	035732	"	CP200	633U20	
	"	VI 253	533U20	"	"	CP250TS/SM	633U20	
	672669	CC400SS	533U20	"	"	CP300TS/SM	633U20	
	"	CC 600	533U20	"	"	SR150	633U20	
	"	NAW 200	533U20	085002	"	CP300	730U20	
	"	PCM 6	533U20	"	"	Millermatic 200	633U20'	
	"	SE 300	533U20	088057	"	320A/BP	633U20	
	"	SE 400	533U20	"	"	330A/BP	633U20	
	"	SVI 600	533U20	"	"	330ST	633U20	
	"	SVI 650	533U20	097995	"	HF250	6428	
	"	VI 402	533U20	"	"	HF251D1	6428	
	"	VI 600	533U20	108358	"	MM150	438U10'	
	"	VI 605	533U20	"	"	XMT200	438U10	
	"	VI 650	533U20	110361	"	SP32P12	6427	
	"	VI 650SS	533U20	"	"	SUPER32	6427	
	"	VI 650DV	533U20	114729	"	330A/BP	633U20	
	673458	3 IN 1	533U20	114780	"	CP300	633U20	
	"	VI 206	533U20	"	"	DIALARC HF	633U20'	
	"	VI 400	533U20	"	"	Millermatic 200	633U20'	
	"	VI 450	533U20	"	"	Regency 200	633U20'	
	673502	VI 800	730U20	"	"	Spectrum 750	633U20	
	"	VCR 801	730U20	"	"	Spectrum 1000	633U20	
	678069	HELI-250HF	533U20	"	"	Spectrum 1500	633U20	
	678122	V 160	533U20*	"	"	Vintage	633U20	
	950368	DIP-PAK 225	533U20'	114781	"	320A/BP	633U20	
1373-4781	DIP-PAK 250	533U10*'	"	"	330A/BP	633U20		
LINCOLN®	M12161-27	SP200	533U20	124886	"	Spectrum 750	633U10	
	M12161-19	R3R400	530-8026B	"	"	Spectrum 1000	633U10	
	M12161-21	CV400	730-8025B	"	"	Spectrum 1500	633U10	
	"	DC400	730-8025B	128570	"	320A/BP	633U20	
	"	R3R500	730-8025B	"	"	330A/BP	633U20	
	M12161-28	DC600	730-8029B	"	"	340A/BP	633U20	
	M12161-59	R3R400	530-8026B	132889	"	MAXTRON 450	533U10	
	M12161-61	CV400	730-8025B	"	"	XMT300	533U10	
	"	DC400	730-8025B	137902	"	320A/BP	633U20	
	"	R3R500	730-8025B	"	"	330A/BP	633U20	
	M12161-67	SP200	533U20	"	"	340A/BP	633U20	
	M12161-68	DC600	730-8029B	138035	"	8VS-12VS	6427	
	M15308-1	LN25	6429	139091	"	MAXTRON 300	438U10	
	M15308-2	LN25	6429	145407	"	XMT200	438U10	
	MILLER®	003708	MP45E	730U20	160760	"	Deltaweld 302	533U10
"		Regency 350	730U20	"	"	Dimension 302	533U10	
032786		DIALARC HF	730U20	"	"	Goldstar 302	533U10	
(177551)		CP300	730U20	160793	"	Deltaweld 452	633U10	
"		FC6E	730U20	"	"	Dimension 452	633U10	
"		FC65E	730U20	"	"	Goldstar 452	633U10	
"		MP45E	730U20	160794	"	Deltaweld 652	730U10	
"		MP65E	730U20	"	"	Dimension 652	730U10	
				186355	"	Goldstar 652	730U10	
					"	Vintage	633U20'	

*-Requires pole links • *-Confirm if auxiliary switch is required • #-Confirm correct coil voltage



SECTION 500 CONTACTOR SELECTOR CHART

LENCO WELDING ACCESSORIES LIMITED

	MFR. P/N	MODEL	PROFAX		MFR. P/N	MODEL	PROFAX	
MILLER®	186355	Regency 250	633U20 ¹	THERMAL ARC®	870133	Hefty & Hefty II	6431	
	189486	Millermatic 185	533U10 ¹		THERMAL DYNAMICS®	8-1373	MERLIN	438U10
	"	Millermatic 210	533U10 ¹			"	PAK10	438U10
	195568	Vintage	633U20 ¹			8-1373	PAK44	438U10
	"	Regency 250	633U20 ¹			8-5143	MERLIN	438U10
	224039	Extreme	6427			9-1028	2XT	438U10S3
	224697	Extreme	6427			9-1038	2XT	438U10*
	605855 (188633)	CP200	633U20			9-1067	5XT	533U10
	"	CP250TS/SM	633U20			"	PAK8XR	533U10
	"	CP300TS/SM	633U20			"	Signature 1000	533U10
	"	MK VIII-2	633U20			9-1244	MERLIN	730U20
	"	MP30E	633U20			9-5586	5XT	438U10
	"	PLAZCUT	633U20			"	PAK5XR	438U10
	"	SCP200	633U20			"	PAK7XR	438U10
	"	SR150	633U20			"	PAK8XR	438U10
	"	Spectrum 500	633U20			"	PAK10XR	438U10
"	Spectrum 750	633U20	"	Signature 625		438U10		
"	Spectrum 1000	633U20	"	Signature 750	438U10			
"	Spectrum 1500	633U20	"	Signature 1000	438U10			
THERMAL ARC®	870202	Hefty & Hefty II	6431	"	Signature 1250	438U10		

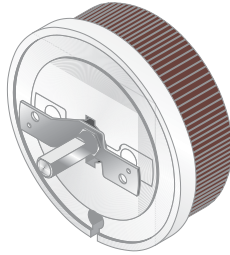
Model Listing

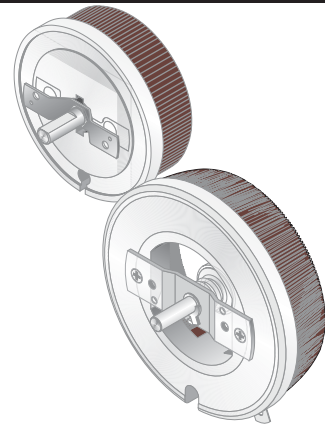
	MODEL	MFR. P/N	PROFAX		MODEL	MFR. P/N	PROFAX
HOBART®	Betamig 1800	035519	533U10 ¹	LINCOLN®	CV400	M12161-21	730-8025B
	Cyberflex 302	160760	533U10		"	M12161-61	730-8025B
	Cyberflex 452	160793	633U10		DC400	M12161-21	730-8025B
	Cyberweld 302	160760	533U10		"	M12161-61	730-8025B
	Cyberweld 452	160793	633U10		DC600	M12161-28	730-8029B
	Cyberweld 652	160794	730U10		"	M12161-68	730-8029B
	HEFTY	170303	6431		LN25	M15308-1	6429
HEFTY II	870202	6431	R3R400	M12161-19	530-8026B		
HYPERTHERM®	HT40C	003053	438U10	"	M12161-59	530-8026B	
	"	003059	438U10S3	R3R500	M12161-21	730-8025B	
	"	003062	438U10	"	M12161-61	730-8025B	
	"	003073	438U10	SP200	M12161-27	533U20	
	HT2000	003139	937U20	"	M12161-67	533U20	
	MAX40	003053	438U10	"	M15308-2	6429	
	"	003059	438U10S3	MILLER®	320 & 330 A/BP	034652	633U20
	"	003062	438U10		"	034653	633U20
	"	003073	438U10		"	034909	633U20
	MAX40CS	003053	438U10		"	035729	633U20
	"	003059	438U10		"	088057	633U20
	MAX100	003066	633U10		"	114729	633U20
	"	003066	633U10S3*		"	114781	633U20
"	003153	633U10	"		128570	633U20	
"	003153	633U10S3*	"		137902	633U20	
MAX200	003092	937U10S3	330ST		088057	633U20	
L-TEC/LINDE®	3 IN 1	673458	533U20		340A/BP	034652	633U20
	CC400SS	672669	533U20		"	128570	633U20
	CC600	672669	533U20		360A/BP	034653	633U20
	DIP-PAK 225	950368	533U20 ¹	8VS-12VS	138035	6427	
	DIP-PAK 250	1373-4781	533U10* ¹	CP200	034875	633U20	
	HELI-250HF	678069	533U20	"	035732	633U20	
	NAW200	672669	533U20	"	605855 (188633)	633U20	
	PCM 6	672669	533U20	CP300	032786	730U20	
	SE 300	672669	533U20	"	085002	730U20	
	SE 400	672669	533U20	"	114780	633U20	
	SVI 600	672669	533U20	CP250TS/SM	034646	533U10	
	SVI 650	672669	533U20	"	035732	633U20	
	VCR801	673502	730U20	"	605855 (188633)	633U20	
	V 160	678122	533U20*	CP300TS/SM	034646	533U10	
	VI 205	672162	533U20S6 ²	"	035732	633U20	
	VI 206	673458	533U20	"	605855 (188633)	633U20	
	VI 252	672162	438U20	CP750E	034655	730U20	
	VI 253	672162	438U20	Deltaweld 302	160760	533U10	
	VI 400	673458	533U20	Deltaweld 452	160793	633U10	
	VI 402	672669	533U20	Deltaweld 652	160794	730U10	
	VI 450	673458	533U20	DIALARC HF	032786	730U20	
	VI 600	672669	533U20	"	177551	730U20	
	VI 605	672669	533U20	"	114780	633U20 ¹	
	VI 650	672669	533U20	Dimension 302	160760	533U10	
	VI 650DV	672669	533U20	Dimension 452	160793	633U10	
	VI 650SS	672669	533U20	Dimension 652	160794	730U10	
	VI 800	673502	730U20	Extreme	224039	6427	
VI 1000	639526	1230U20	Extreme	224697	6427		
VI 1200	639526	1230U20	FC6E	034652	633U20		
			FC65E	034652	633U20		
			"	032786	730U20		

¹-Requires pole links • *-Confirm if auxiliary switch is required
 • *-Confirm correct coil voltage

	MODEL	MFR. P/N	PROFAX		MODEL	MFR. P/N	PROFAX
MILLER®	FC75E	034655	730U20	THERMAL ARC®	Hefty & Hefty II	870202	6431
	FC75E	032786	730U20		Hefty & Hefty II	870133	6431
	Goldstar 302	160760	533U10	THERMAL DYNAMICS®	2XT	9-1028	438U10S3
	Goldstar 452	160793	633U10		"	9-1038	438U10
	Goldstar 652	160794	730U10		5XT	9-1067	533U10
	HF250	097995	6428		"	9-5586	438U10
	HF251D1	097995	6428		MERLIN	8-1373	438U10
	MK VIII-2	605855 (188633)	633U20		"	8-5143	438U10
	Maxtron 300	139091	438U10		"	9-1244	730U20
	Maxtron 450	132889	533U10		PAK10	8-1373	438U10
	Millermatic 35	035519	533U10 ¹		PAK44	8-1373	438U10
	Millermatic 185	035519	533U10 ¹		PAK5XR	9-5586	438U10
	Millermatic 200	085002	633U20 ¹		PAK7XR	9-5586	438U10
	"	114780	633U20 ¹		PAK8XR	9-1067	533U10
	Millermatic 210	189486	533U10 ¹		PAK8XR	9-5586	438U10
	MM150	108358	438U10 ¹		PAK10XR	9-5586	438U10
	MP30E	034875	633U20		Signature 625	9-5586	438U10
	"	605855 (188633)	633U20		Signature 750	9-5586	438U10
	MP45E	003708	730U20		Signature 1000	9-1067	533U10
	"	032786	730U20		Signature 1000	9-5586	438U10
	MP65E	034652	633U20		Signature 1250	9-5586	438U10
	"	032786	633U20				
	MP75E	034655	730U20				
	PLAZCUT	035519	533U10				
	"	605855 (188633)	633U20				
	Regency	186355	633U20 ¹				
	Regency 200	114780	633U20 ¹				
	Regency 250	186355	633U20 ¹				
	Regency 350	003708	730U20				
	S32P12	192809	6427				
	SUPER 32	192809	6427				
	SR150	035732	633U20				
	"	034875	633U20				
	"	605855 (188633)	633U20				
	SCP200	034646	533U10				
	"	034875	633U20				
	"	605855 (188633)	633U20				
	Spectrum 500	035519	533U10				
	"	605855 (188633)	633U20				
	Spectrum 750	114780	633U20				
	"	124886	633U10				
	"	605855 (188633)	633U20				
	Spectrum 1000	114780	633U20				
	"	124886	633U10				
	"	605855 (188633)	633U20				
Spectrum 1500	114780	633U20					
"	124886	633U10					
"	605855 (188633)	633U20					
Vintage	186355	633U20 ¹					
"	114780	633U20 ¹					
"	195568	633U20 ¹					
XMT200	108358	438U10					
"	145407	438U10					
XMT300	132889	533U10					

¹-Requires pole links
 *-Confirm if auxiliary switch is required
 #-Confirm correct coil voltage

Rheostats for use with Lincoln®			Rheostats for use with Miller®				
PROFAX NO.	LINCOLN®	DESCRIPTION	PROFAX NO.	MILLER®	OHM	WATT	
PX M5090-C	M5090-C	64 Ohm rheostat		PX 030653	030653	15	150
				PX 222996	222996		
			PX 605960	605960	34	300	

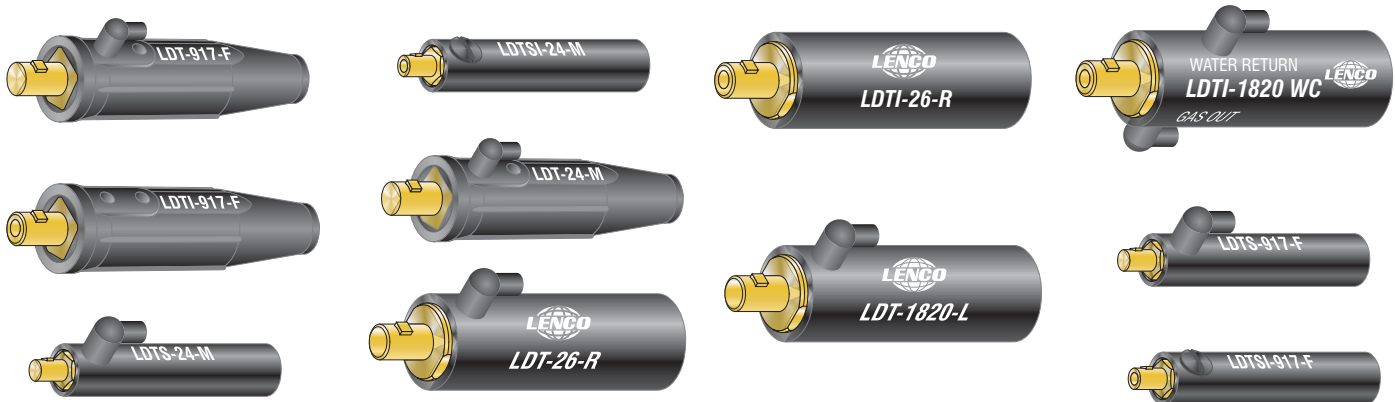


Tig Machine Adapters

International Dinse Type

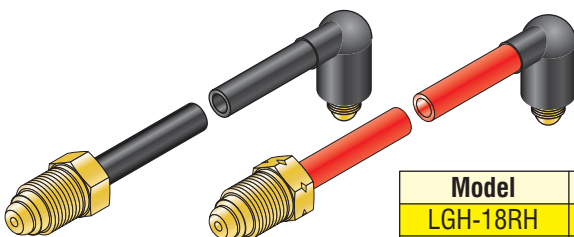
11 *Dinse* type Tig machine plugs to attach to most machines equipped with *Dinse* connections.

Available for air and water cooled Tig torches.



Model	Item Code No.	Tig Torch Model	Male End Dia.	Power Cable Connection	Barb O.D.
LDT-917-F	05610	9, 17	.508 (12.9mm)	3/8-24 (M) Air Cooled	1/4-90° w/Boot
LDTI-917-F	05612	9, 17	.508 (12.9mm)	3/8-24 (M) Air Cooled (in line)	N/A
LDTS-24-M	05655	24	.355 (9.0mm)	3/8-24 (F) Air Cooled	1/4-90° w/Boot
LDTSI-24-M	056551	24	.355 (9.0mm)	3/8-24 (F) Air Cooled	N/A
LDT-24-M	05615	24	.508 (12.9mm)	3/8-24 (F) Air Cooled	1/4-90° w/Boot
LDT-26-R	05620	26	.508 (12.9mm)	7/8-14 (R.H.) Air Cooled	1/4-90° w/Boot
LDTI-26-R	05622	26	.508 (12.9mm)	7/8-14 (R.H.) Air Cooled (in line)	N/A
LDT-1820-L	05625	18, 20	.508 (12.9mm)	7/8-14 (L.H.) Water Cooled	1/4-90° w/Boot
LDTI-1820-WC	05627	18, 20, 24W	.508 (12.9mm)	7/8-14 (L.H.) Water Cooled (in line)	1/8,3/16,1/4-90° w/Boots
LDTS-917-F	05650	9, 17	.355 (9.0mm)	3/8-24 (M) Air Cooled	1/4-90° w/Boot
LDTSI-917-F	056501	9, 17	.355 (9.0mm)	3/8-24 (M) Air Cooled (in line)	N/A

Gas & Water Hose Connectors



Both hoses are nylon braided.

LGH-Series used on the following:

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

LWH-Series used on the following:

LDT-1820-L

LGH-Series & LWH-Series

Used on the following:

LDTI-1820-WC

Model	Item Code No.	Hose Color	Description	Length	Thread Connection
LGH-18RH	09810	Black	Gas Hose	18"	5/8-18 R.H. Nut
LGH-96RH	09820	Black	Gas Hose	96"	5/8-18 R.H. Nut
LWH-18LH	09815	Red	Water Hose	18"	5/8-18 L.H. Nut
LWH-96LH	09825	Red	Water Hose	96"	5/8-18 L.H. Nut

Tig Machine Adapters

International Dinse Type

Dinse Cable & TIG Machine Plug Application

Dinse Tig Connector Series

Power Supply Make & Model	Type of Process	Dinse Cable Connector Male	Tig Torch Models						
			Air Cooled				Water Cooled		
			24 80A	9 125A	17 150A	26 200A	24W 180A	20 250A	18 350A
Miller®									
CST250, 280	Tig/Stick	LDP-50M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
CST300, 400	Tig/Stick	LDP-70M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Econotig	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	n/r
Dynasty 200, 200DX	Tig/Stick	LDP-50M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Dynasty 200SD	Tig/Stick	LDP-50M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Dynasty 300, 300DX	Tig/Stick	LDP-70M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Dynasty 300LX, 300SD	Tig/Stick	LDP-70M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Dynasty 350, 700	Tig/Stick	LDP-70M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Maxstar 85S, 140STR	Tig/Stick	LDP-25M	LDT-24-M	LDT-917-F	LDT-917-F	n/r	n/r	n/r	n/r
Maxstar 150, S, STL, STH	Tig/Stick	LDP-25M	LDT-24-M	LDT-917-F	LDT-917-F	n/r	n/r	n/r	n/r
Maxstar 200, 200DX	Tig/Stick	LDP-50M	n/a	LDT-917-F	LDT-917-F	n/r	LDT-1820-L	LDT-1820-L	LDT-1820-L
Maxstar 200LX, 200SD	Tig/Stick	LDP-50M	n/a	LDT-917-F	LDT-917-F	n/r	LDT-1820-L	LDT-1820-L	LDT-1820-L
Maxstar 200STR	Tig/Stick	LDP-50M	n/a	LDT-917-F	LDT-917-F	n/r	LDT-1820-L	LDT-1820-L	LDT-1820-L
Maxstar 250T, 300	Tig/Stick	LDP-70M	n/a	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Maxstar 300DX, 300LX	Tig/Stick	LDP-70M	n/a	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Maxstar 300SD	Tig/Stick	LDP-70M	n/a	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Maxstar 350	Tig/Stick	LDP-70M	n/a	n/r	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Syncrowave 180SD, 200	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	n/r
Syncrowave 250, 300	Tig/Stick	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Syncrowave 350, 500	Tig/Stick	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Syncrowave 250DX	Tig/Stick	LDP-70M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Syncrowave 350LX	Tig/Stick	LDP-70M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Invision 354MP, 350MPa	Mig/Tig/Stick	LDP-70M	LDT-917-F	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
XMT304 (w/Dinse)	Mig/Tig/Stick	LDP-70M	LDT-917-F	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
350 (w/Dinse)	Mig/Tig/Stick	LDP-70M	LDT-917-F	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
350MPa (w/Dinse)	Mig/Tig/Stick	LDP-70M	LDT-917-F	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Lincoln®									
Invertec V100-S, V130-S, V155-S	Tig/Stick	LDP-25M	LDT-24-M	LDT-917-F	LDT-917-F	n/r	n/r	n/r	n/r
Invertec V160-S	Tig/Stick	LDP-50M	LDT-24-M	LDT-917-F	LDT-917-F	n/r	n/r	n/r	n/r
Invertec V160-T	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	n/r	n/r	n/r	n/r
Invertec V200-T, V205-T	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	n/r
Invertec V250-S, V275-S	Tig/Stick	LDP-50M	LDT-24-M	LDT-917-F	LDT-917-F	LDT-26-R	LDT-1820-L	LDT-1820-L	LDT-1820-L
Invertec V310-T	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	LDTI-1820-WC
Precision Tig 185	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	n/r	n/r	n/r	n/r
Precision Tig 225	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	LDTI-1820-WC
Precision Tig 275	Tig/Stick	n/a	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	LDTI-1820-WC
Precision Tig 375	Tig/Stick	n/a	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	LDTI-1820-WC
Square Wave Tig 175	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	n/r	LDTI-1820-WC	LDTI-1820-WC	n/r
Square Wave Tig 175 Pro	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	n/r	LDTI-1820-WC	LDTI-1820-WC	n/r
Square Wave Tig 275	Tig/Stick	LDP-50M	n/a	LDTI-917-F	LDTI-917-F	n/r	LDTI-1820-WC	LDTI-1820-WC	n/r
Square Wave Tig 255	Tig/Stick	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Square Wave Tig 355	Tig/Stick	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Invertec V300, V350 Pro**	Mig/Tig/Stick	LDP-70M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	LDTI-1820-WC
Invertec V450 Pro	Mig/Tig/Stick	LDP-70M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	LDTI-1820-WC
Power Wave 355 & 355M	Mig/Tig/Stick	LDP-70M	n/a	LDTI-917-F	LDTI-917-F	LDTI-26-R	LDTI-1820-WC	LDTI-1820-WC	LDTI-1820-WC






















n/a = not applicable n/r = not recommended

** Note Invertec V350-PRO standard series LDT series adapters. With optional solenoid valve uses LDTI series adapters.



WeldTec® TIG TORCHES

AIR COOLED


	Torch Model	Torch Package	Capacity Amps*	Features	Electrode Sizes	Access. Kit
	WT-9	WT-9-12R WT-9-12-2 WT-9-25R WT-9-25-2	125	Standard Model	.020" - 3/32"	AK-1
	WT-9F	WT-9F-12R WT-9F-12-2 WT-9F-25R WT-9F-25-2	125	Flex Head Model	.020" - 3/32"	AK-1
	WT-9FV	WT-9FV-12R WT-9FV-12-2 WT-9FV-25R WT-9FV-25-2	125	Flex Head with Valve	.020" - 3/32"	AK-1
	WT-9P	WT-9P-12R WT-9P-12-2 WT-9P-25R WT-9P-25-2	125	Pencil Model	.020" - 3/32"	AK-1A
	WT-9V	WT-9V-12R WT-9V-12-2 WT-9V-25R WT-9V-25-2	125	Built-in Gas Valve	.020" - 3/32"	AK-1
	WT-17	WT-17-12R WT-17-12-2 WT-17-25R WT-17-25-2	150	Standard Model	.020" - 1/8"	AK-2
	WT-17F	WT-17F-12R WT-17F-12-2 WT-17F-25R WT-17F-25-2	150	Flex Head Model	.020" - 1/8"	AK-2
	WT-17FV	WT-17FV-12R WT-17FV-12-2 WT-17FV-25R WT-17FV-25-2	150	Flex Head with Valve	.020" - 1/8"	AK-2
	WT-17V	WT-17V-12R WT-17V-12-2 WT-17V-25R WT-17V-25-2	150	Built-in Gas Valve	.020" - 1/8"	AK-2
	WT-23 A,B	Request Data Sheet A = 7" B = 14"	130	20 Style Machine Models	.020" - 1/8"	AK-23
	WT-24	WT-24-12R WT-24-12-2 WT-24-25R WT-24-25-2	80	Small Head Model	.020" - 1/16"	AK-5
	WT-24F	WT-24F-12R WT-24F-12-2 WT-24F-25R WT-24F-25-2	80	Flex Head Model	.020" - 1/16"	AK-5
	WT-24FV	WT-24FV-12R WT-24FV-12-2 WT-24FV-25R WT-24FV-25-2	80	Flex Head with Valve	.020" - 1/16"	AK-5
	WT-24V	WT-24V-12R WT-24V-12-2 WT-24V-25R WT-24V-25-2	80	Built-in Gas Valve	.020" - 1/16"	AK-5
	WT-26	WT-26-12R WT-26-12-2 WT-26-25R WT-26-25-2	200	Standard Model	.020" - 1/8"	AK-3
	WT-26F	WT-26F-12R WT-26F-12-2 WT-26F-25R WT-26F-25-2	200	Flex Head Model	.020" - 1/8"	AK-3
	WT-26FV	WT-26FV-12R WT-26FV-12-2 WT-26FV-25R WT-26FV-25-2	200	Flex Head with Valve	.020" - 1/8"	AK-3
	WT-26P	WT-26P-12R WT-26P-12-2 WT-26P-25R WT-26P-25-2	200	Pencil Model	.020" - 1/8"	AK-3A
	WT-26V	WT-26V-12R WT-26V-12-2 WT-26V-25R WT-26V-25-2	200	Built-in Gas Valve	.020" - 1/8"	AK-3
	WT-27 A,B,C	Request Data Sheet	200	A = 9" B = 20" C = Robotic	.040" - 1/4"	AK-27
	WT-29 A,B	Request Data Sheet A = 7" B = 14"	180	18 Style Machine Models	.020" - 5/32"	AK-29

"V" indicates built-in gas valve. "F" indicates flexible head. "FV" indicates flex head and built-in gas valve. "R" = flexible rubber cable & hose assembly. -2 = 2 piece cable and hose assembly.

*AC or DCSP

WeldTec® TIG TORCHES

WATER COOLED

	Torch Model	Torch Package	Capacity Amps*	Features	Electrode Sizes	Access. Kit
	WT-18	WT-18-12 WT-18-12R WT-18-25 WT-18-25R	350	Standard Model	.020" - 5/32"	AK-3
	WT-18SP	WT-18SP-12 WT-18SP-12R WT-18SP-25 WT-18SP-25R	350	Pencil Model	.020" - 5/32"	AK-3A
	WT-18SPM	WT-18SPM-12 WT-18SPM-25	350	Machine Torch	.020" - 5/32"	AK-3A
	WT-18V	WT-18V-12 WT-18V-12R WT-18V-25 WT-18V-25R	350	Built-in Gas Valve	.020" - 5/32"	AK-3
	WT-20	WT-20-12 WT-20-12R WT-20-25 WT-20-25R	250	Standard Model	.020" - 1/8"	AK-4
	WT-20F	WT-20F-12 WT-20F-12R WT-20F-25 WT-20F-25R	225	Flex Head Model	.020" - 1/8"	AK-4
	WT-20H	WT-20H-12 WT-20H-12R WT-20H-25 WT-20H-25R	300	Heavy Duty Model	.020" - 5/32"	AK-4
	WT-20P	WT-20P-12 WT-20P-12R WT-20P-25 WT-20P-25R	225	Pencil Model	.020" - 1/8"	AK-4A
	WT-20V	WT-20V-12 WT-20V-12R WT-20V-25 WT-20V-25R	250	Built-in Gas Valve	.020" - 1/8"	AK-A
	WT-22 A,B	Request Data Sheet A = 7" B = 14"	260	20 Style Machine Models	.020" - 1/8"	AK-22
	WT-24W	WT-24W-12 WT-24W-12R WT-24W-25 WT-24W-25R	180	Small Head Model	.020" - 3/32"	AK-5W
	WT-24WF	WT-24WF-12 WT-24WF-12R WT-24WF-25 WT-24WF-25R	180	Flex Head Model	.020" - 3/32"	AK-5W
	WT-25	WT-25-12 WT-25-12R WT-25-25 WT-25-25R	225	Flex Neck Pencil	.020" - 1/8"	AK-4A
	WT-27AW	Request Data Sheet	500	9" Machine Model	.040" - 1/4"	AK-27
	WT-27BW	Request Data Sheet	500	20" Machine Model	.040" - 1/4"	AK-27
	WT-27CW	Request Data Sheet	500	9" Robotic Model	.040" - 1/4"	AK-27
	WT-28 A,B	Request Data Sheet A = 7" B = 14"	350	18 Style Machine Models	.020" - 5/32"	AK-28

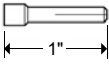
"V" indicates built-in gas valve. "F" indicates flexible head.
"R" = flexible rubber cable & hose assembly.

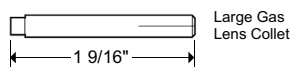
*AC or DCSP




PARTS GUIDE

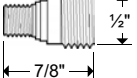
TORCH SERIES: 9, 20, 25, SW-320

		COLLET					
		.020"	.040"	1/16"	3/32"	1/8"	5/32"
 Collet 1"	NOZZLE TYPE	13N20	13N21	13N22	13N23	13N24	13NC532*
		13N20L	13N21L	13N22L	13N23L	13N24L	—



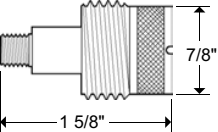
COLLET BODY

		.020"	.040"	1/16"	3/32"	1/8"	5/32"
 Collet Body 13/16"	(A) (B) (C)	13N25	13N26	13N27	13N28	13N29	13NCB532*

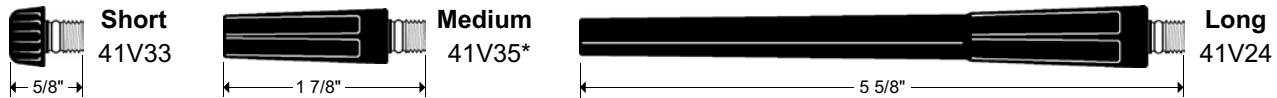
		GAS LENS					
		.020"	.040"	1/16"	3/32"	1/8"	
 Standard Gas Lens 7/8"	(D)	45V41	45V42	45V43	45V44	45V45	

MEDIUM GAS LENS

		.020"	.040"	1/16"	3/32"	1/8"	5/32"
 Medium Gas Lens 7/8"	(E)			45V35SW	45V36SW	45V37SW	45V38SW*

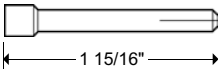
		XL GAS LENS					
		.020" - .040"	1/16"	3/32"	1/8"		
 XL Gas Lens 1 5/8"	(J)	45V0204S	45V116S	45V64S	995795S		

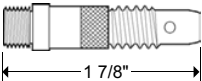
BACK CAPS

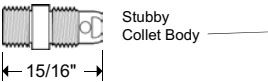


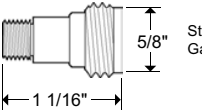
*NOTE: Use 41V35-532 medium back cap with 5/32 collet, collet body and medium gas lens.

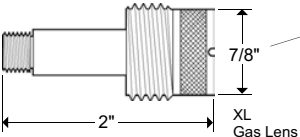
TORCH SERIES: 17, 18, 26, SW-418

		COLLET					
		.020"	.040"	1/16"	3/32"	1/8"	5/32"
 Collet 1 15/16"	NOZZLE TYPE	10N21	10N22	10N23	10N24	10N25	54N20
		10N21S	10N22S	10N23S	10N24S	10N25S	54N20S

		COLLET BODY					
		.020"	.040"	1/16"	3/32"	1/8"	5/32"
 Collet Body 1 7/8"	(F) (G)	10N29	10N30	10N31	10N32	10N28	406488

		GAS LENS					
		.020"	.040"	1/16"	3/32"	1/8"	5/32"
 Standard Gas Lens 2"	(H) (I)	45V29	45V24	45V25	45V26	45V27	45V28
		45V29S	45V24S	45V25S	45V26S	45V27S	45V28S

		XL GAS LENS					
		.020" - .040"	1/16"	3/32"	1/8"	5/32"	
 Stubby Gas Lens 1 1/16"	(E)	45V0204	45V116	45V64	995795	45V63	

		BACK CAPS					
		Short					Long
 XL Gas Lens 2"	(J)	57Y04 (1")					57Y02 (4 3/4")

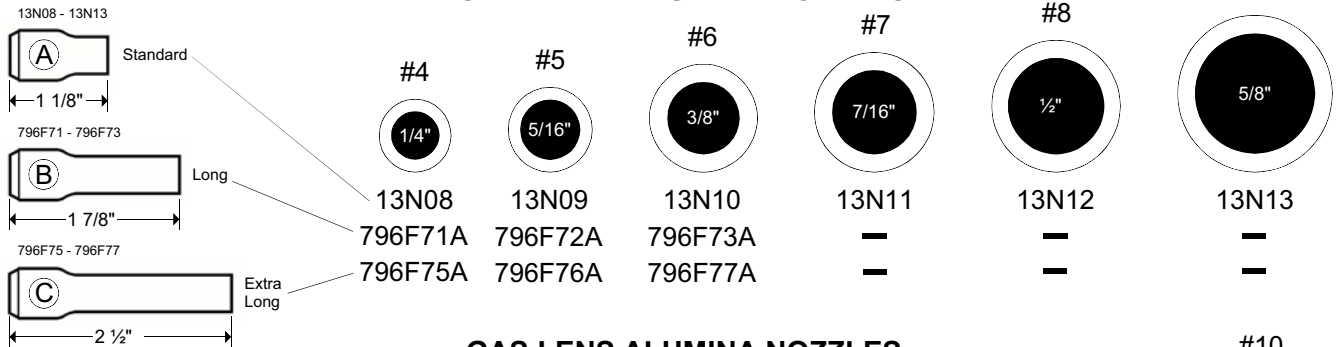
Specifications subject to change without notice.



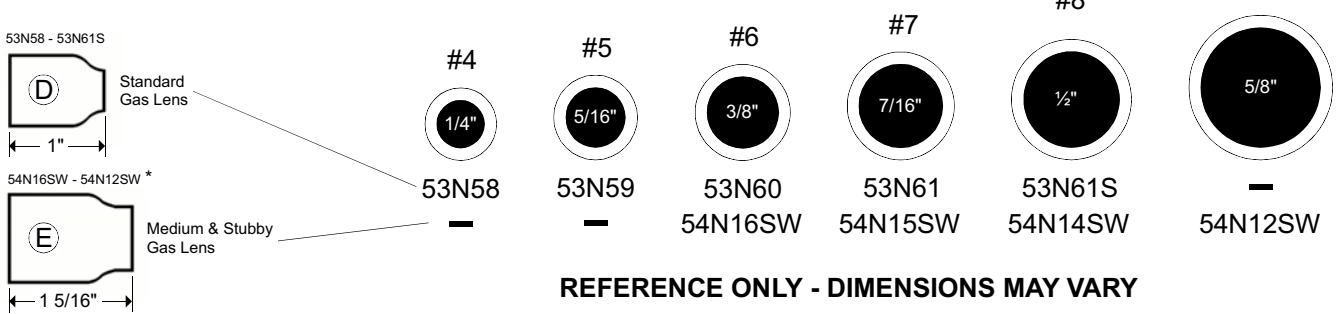
NOZZLE GUIDE

TORCH SERIES: 9, 20, 25, SW-320

STANDARD ALUMINA NOZZLES



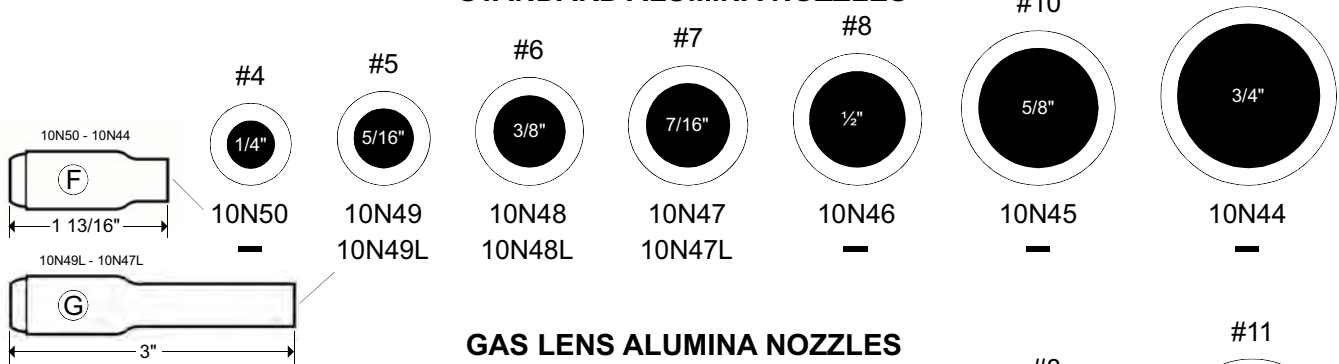
GAS LENS ALUMINA NOZZLES



REFERENCE ONLY - DIMENSIONS MAY VARY

TORCH SERIES: 17, 18, 26, SW-418

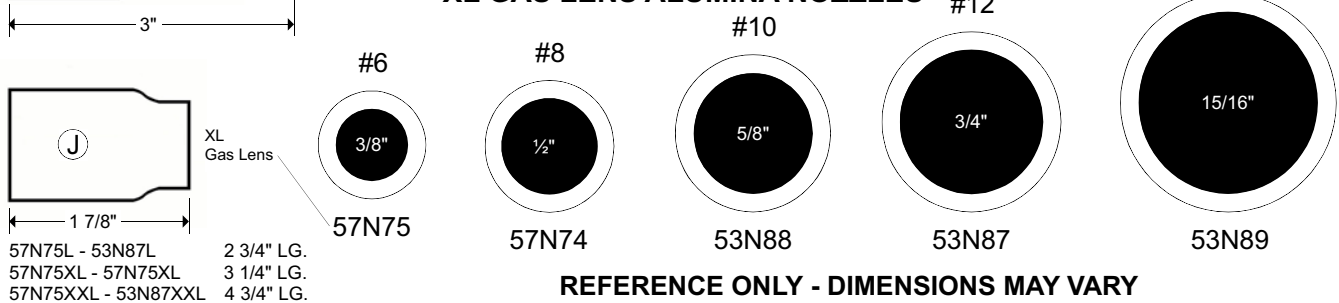
STANDARD ALUMINA NOZZLES



GAS LENS ALUMINA NOZZLES



XL GAS LENS ALUMINA NOZZLES



REFERENCE ONLY - DIMENSIONS MAY VARY



i-HEAD®

INTERCHANGEABLE HEAD TIG TORCH SERIES



Flex-Neck

Roto-Head

Ball-Joint

Problem solvers

Allows access to difficult weld locations.

Ideal for pipe and tube welds.

WTF-17V

WTB-9

WTR-20



BALL-JOINT MODELS
Swivel ball joint head locks in place. Air cooled and water cooled models



FLEXIBLE-NECK MODELS
Air cooled and water cooled models provide solutions for hard to reach welds.



ROTO-HEAD MODELS
Head rotates 360°. Air cooled and water cooled models.



SPEED NUT™ HOSE CONNECTIONS
No more troublesome wire clamps. Quick and easy repairs on water cooled models.

TEC Torch Company, Inc.

i-HEAD®

INTERCHANGEABLE HEAD TIG TORCH SERIES

These exciting i-Head torches give new meaning to versatility in TIG welding. Three distinct versions; **Flex**, **Ball** or **Roto** allow you to choose the model that best suits your needs.

The **Flex-Neck** models allow the torch body to flex, positioning the head at various angles.

The **Ball-Joint** models feature a swivel ball joint that locks the head in place with a twist of the torch body.

All the various head styles interchange between the Flex-Head and the Ball-Joint torch models. Both torch styles are available in air-cooled with or without a built-in gas valve along with two water-cooled models.

The **Roto-Head** models feature a torch head that rotates 360°. When in the desired position the head is locked firmly in place. The unique angled torch body allows access to tight weld locations.

All torch bodies and heads are made with resilient high temperature silicone rubber insulation that resist "HF" current leakage, chipping, cracking and withstands temperatures to 500° F.

The water-cooled models are available in deluxe packages featuring soft braided rubber hoses, power cable and a glove soft leather protective cable cover.

ORDERING INFORMATION

Ball-Joint "B" Models

125 amps - Air Cooled (920-70 Head)	
WTB-9-12R	12 1/2 ft. Torch Package
WTB-9-12-2	12 1/2 ft. Torch Pkg - 2pc. Cable
WTB-9-25R	25 ft. Torch Package
WTB-9-25-2	25 ft. Torch Pkg - 2pc. Cable
WTB-9V-12R	12 1/2 ft. Torch Pkg w/Valve
WTB-9V-12-2	12 1/2 ft. Torch Pkg - 2pc., w/Valve
WTB-9V-25R	25 ft. Torch Pkg w/Valve
WTB-9V-25-2	25 ft. Torch Pkg - 2pc., w/Valve
150 amps - Air Cooled (1718-70 Head)	
WTB-17-12R	12 1/2 ft. Torch Package
WTB-17-12-2	12 1/2 ft. Torch Pkg - 2pc. Cable
WTB-17-25R	25 ft. Torch Package
WTB-17-25-2	25 ft. Torch Pkg - 2pc. Cable
WTB-17V-12R	12 1/2 ft. Torch Pkg w/Valve
WTB-17V-12-2	12 1/2 ft. Torch Pkg - 2pc., w/Valve
WTB-17V-25R	25 ft. Torch Pkg w/Valve
WTB-17V-25-2	25 ft. Torch Pkg - 2pc., w/Valve
230 amps - Water Cooled (920-70 Head)	
WTB-20-12DX	12 1/2 ft. Deluxe Torch Package
WTB-20-25DX	25 ft. Deluxe Torch Package
230 amps - Water Cooled (1718-70 Head)	
WTB-18-12DX	12 1/2 ft. Deluxe Torch Package
WTB-18-25DX	25 ft. Deluxe Torch Package

Flex-Neck "F" Models

125 amps - Air Cooled (920-70 Head)	
WTF-9-12R	12 1/2 ft. Torch Package
WTF-9-12-2	12 1/2 ft. Torch Pkg - 2pc. Cable
WTF-9-25R	25 ft. Torch Package
WTF-9-25-2	25 ft. Torch Pkg - 2pc. Cable
WTF-9V-12R	12 1/2 ft. Torch Pkg w/Valve
WTF-9V-12-2	12 1/2 ft. Torch Pkg - 2pc., w/Valve
WTF-9V-25R	25 ft. Torch Pkg w/Valve
WTF-9V-25-2	25 ft. Torch Pkg - 2pc., w/Valve
150 amps - Air Cooled (1718-70 Head)	
WTF-17-12R	12 1/2 ft. Torch Package
WTF-17-12-2	12 1/2 ft. Torch Pkg - 2pc. Cable
WTF-17-25R	25 ft. Torch Package
WTF-17-25-2	25 ft. Torch Pkg - 2pc. Cable
WTF-17V-12R	12 1/2 ft. Torch Pkg w/Valve
WTF-17V-12-2	12 1/2 ft. Torch Pkg - 2pc., w/Valve
WTF-17V-25R	25 ft. Torch Pkg w/Valve
WTF-17V-25-2	25 ft. Torch Pkg - 2pc., w/Valve
230 amps - Water Cooled (920-70 Head)	
WTF-20-12DX	12 1/2 ft. Deluxe Torch Package
WTF-20-25DX	25 ft. Deluxe Torch Package
230 amps - Water Cooled (1718-70 Head)	
WTF-18-12DX	12 1/2 ft. Deluxe Torch Package
WTF-18-25DX	25 ft. Deluxe Torch Package

Roto-Head "R" Models

125 amps - Air Cooled (920R Head)	
WTR-9-12R	12 1/2 ft. Torch Package
WTR-9-12-2	12 1/2 ft. Torch Pkg - 2pc. Cable
WTR-9-25R	25 ft. Torch Package
WTR-9-25-2	25 ft. Torch Pkg - 2pc. Cable
WTR-9V-12R	12 1/2 ft. Torch Pkg w/Valve
WTR-9V-12-2	12 1/2 ft. Torch Pkg - 2pc., w/Valve
WTR-9V-25R	25 ft. Torch Pkg w/Valve
WTR-9V-25-2	25 ft. Torch Pkg - 2pc., w/Valve
150 amps - Air Cooled (1718R Head)	
WTR-17-12R	12 1/2 ft. Torch Package
WTR-17-12-2	12 1/2 ft. Torch Pkg - 2pc. Cable
WTR-17-25R	25 ft. Torch Package
WTR-17-25-2	25 ft. Torch Pkg - 2pc. Cable
WTR-17V-12R	12 1/2 ft. Torch Pkg w/Valve
WTR-17V-12-2	12 1/2 ft. Torch Pkg - 2pc., w/Valve
WTR-17V-25R	25 ft. Torch Pkg w/Valve
WTR-17V-25-2	25 ft. Torch Pkg - 2pc., w/Valve
230 amps - Water Cooled (920R Head)	
WTR-20-12DX	12 1/2 ft. Deluxe Torch Package
WTR-20-25DX	25 ft. Deluxe Torch Package
230 amps - Water Cooled (1718R Head)	
WTR-18-12DX	12 1/2 ft. Deluxe Torch Package
WTR-18-25DX	25 ft. Deluxe Torch Package

HEADS - FLEX-NECK & BALL JOINT



ROTO

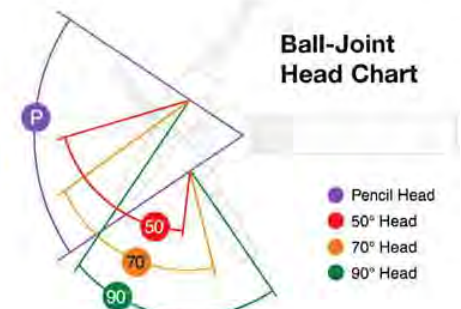


WATER COOLED DELUXE TORCH PACKAGES

The water cooled models are available in Deluxe packages that include: torch body, head(s), fluted handle, soft braided rubber hoses and power cable assembly, premium leather cable cover, 3/32" collet and collet body, tungsten electrode, #6 alumina nozzle, and back caps.
 Note: Ball-Joint and Flex-Neck models include 70° and pencil heads.

SPECIFICATIONS

	Air Cooled	Water Cooled
Maximum Amperage Capacity (AC-DCSP)	125 or 150 AMPS	230 AMPS
Tungsten Size Capacity	.020" - 1/8" (0.5-3.2mm)	.020" - 5/32" (0.5-4.0mm)
Maximum Tungsten Length	7" (178mm)	7" (178mm)
Cooling Requirements	-	1 Qt./Min. (.946L/min)
Maximum Coolant Pressure	-	50 psi (345 Kpa)



i-HEAD[®]

BALL - JOINT
 WTB-9, 9V, 17, 17V, 18, 20
FLEX - NECK
 WTF-9, 9V, 17, 17V, 18, 20
DIMENSIONAL DATA SHEET

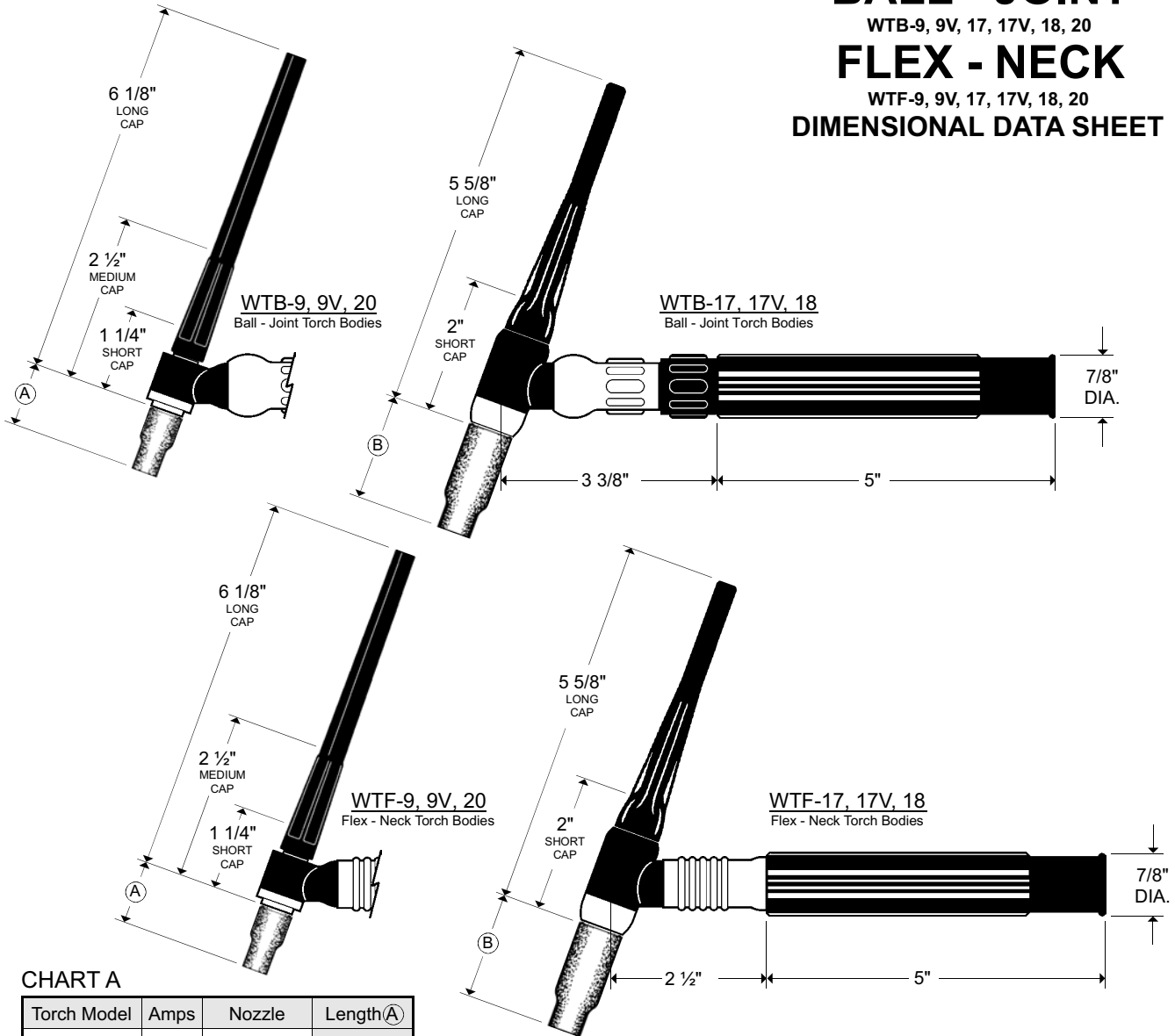


CHART A

Torch Model	Amps	Nozzle	Length (A)
WTR-9, 9V WTR-20	125 230	Standard Nozzle	1"
		Long Nozzle	1 7/8"
		Extra Long Nozzle	2 3/8"
		Gas Lens Nozzle	1"
		Medium Dia. Gas Lens Nozzle	1 5/16"
		Large Dia. Gas Lens Nozzle	1 7/8"

CHART B

Torch Model	Amps	Nozzle	Length (B)
WTR-17, 17V WTR-18	150 230	Standard Nozzle	1 11/16"
		Long Nozzle	2 7/8"
		Gas Lens Nozzle	1 3/4"
		Large Dia. Gas Lens Nozzle	1 7/8"

SPECIFICATIONS

Torch Model	Maximum Amps (dcsp)	Duty Cycle (dcsp)	Tungsten Capacity		Cooling Requirements
			Max. Length		
WTB-9, 9V WTF-9, 9V	125	60%	.020 - 3/32	7"	Air Cooled
WTB-17, 17V WTF-17, 17V	150	60%	.020 - 1/8	7"	Air Cooled
WTB-18 WTF-18	230	60%	.020 - 5/32	7"	Water Cooled 1 Qt./min. (50 psi MAX. OUTPUT)
WTB-20 WTF-20	230	60%	.020 - 1/8	7"	Water Cooled 1 Qt./min. (50 psi MAX. OUTPUT)

Note: Specifications and dimensions are subject to change without notice.

MANUFACTURED IN USA



ROTO - HEAD
WTR-9, 9V, 17, 17V, 18, 20
DIMENSIONAL DATA SHEET

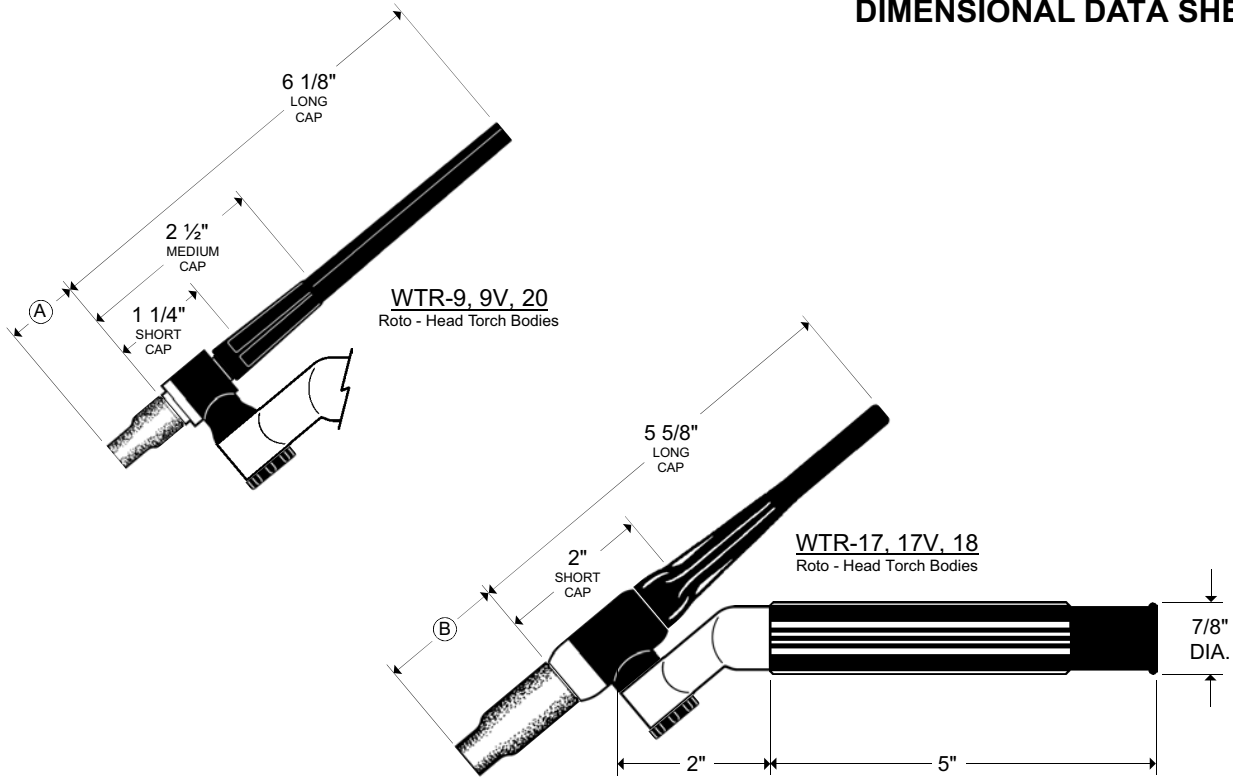


CHART A

Torch Model	Amps	Nozzle	Length(A)
WTR-9, 9V WTR-20	125 230	Standard Nozzle	1"
		Long Nozzle	1 7/8"
		Extra Long Nozzle	2 3/8"
		Gas Lens Nozzle	1"
		Medium Dia. Gas Lens Nozzle	1 5/16"
		Large Dia. Gas Lens Nozzle	1 7/8"

CHART B

Torch Model	Amps	Nozzle	Length(B)
WTR-17, 17V WTR-18	150 230	Standard Nozzle	1 11/16"
		Long Nozzle	2 7/8"
		Gas Lens Nozzle	1 3/4"
		Large Dia. Gas Lens Nozzle	1 7/8"

SPECIFICATIONS

Torch Model	Maximum Amps (dcsp)	Duty Cycle (dcsp)	Tungsten Capacity		Cooling Requirements
			Max. Length		
WTR-9, 9V	125	60%	.020 - 3/32	7"	Air Cooled
WTR-17, 17V	150	60%	.020 - 1/8	7"	Air Cooled
WTR-18	230	60%	.020 - 5/32	7"	Water Cooled 1 Qt./min. (50 psi MAX. OUTPUT)
WTR-20	230	60%	.020 - 1/8	7"	Water Cooled 1 Qt./min. (50 psi MAX. OUTPUT)

Note: Specifications and dimensions are subject to change without notice.

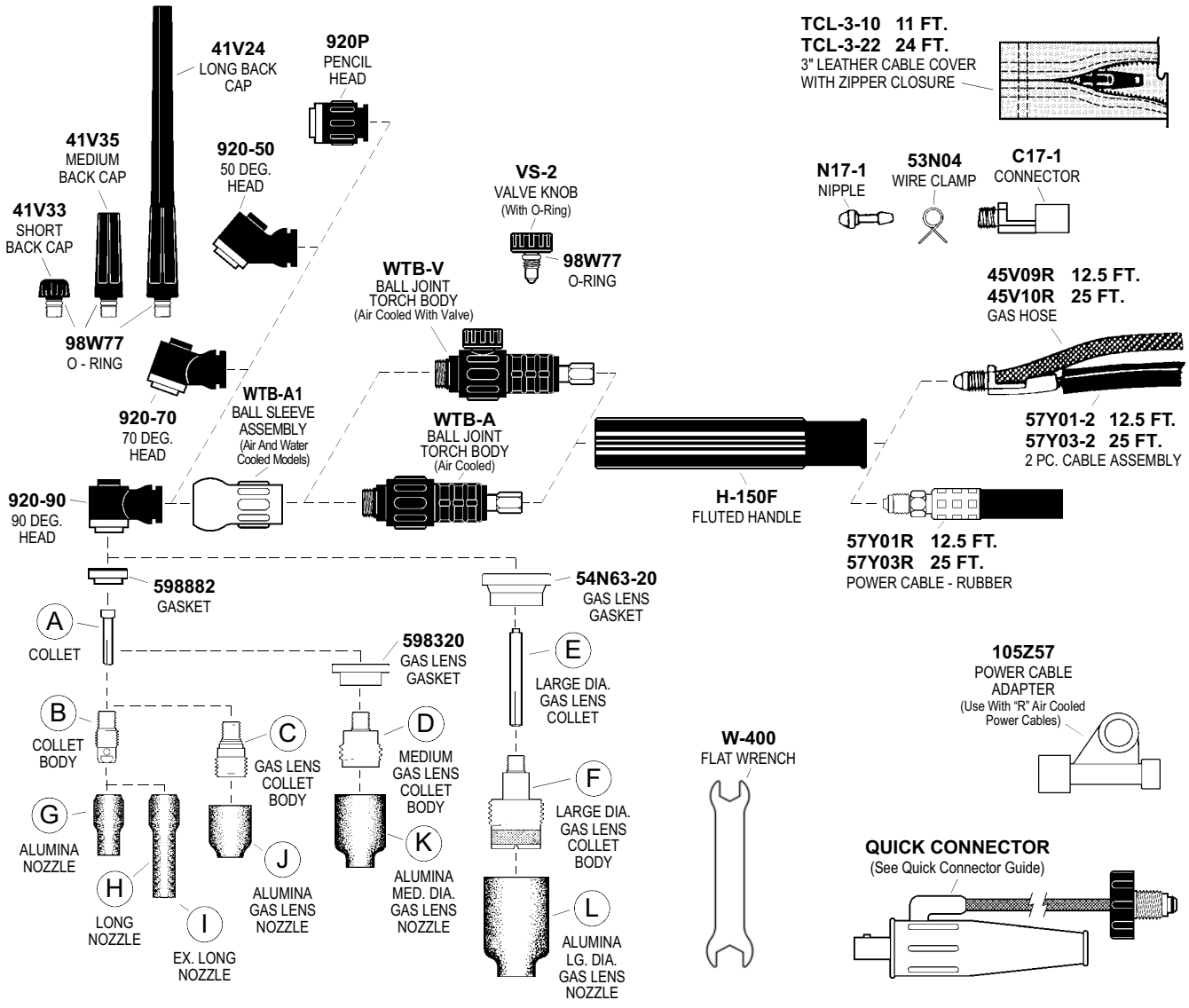
MANUFACTURED IN USA

i-HEAD®

BALL - JOINT REPLACEMENT PARTS

WTB-9 • WTB-9V 125 AMPS AIR COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	13N20	13N21	13N22	13N23	13N24
B	COLLET BODY	13N25	13N26	13N27	13N28	13N29
C	GAS LENS	45V41	45V42	45V43	45V44	45V45
D	MED. DIA. GAS LENS	—	45V34SW	45V35SW	45V36SW	45V37SW
E	LG. DIA GAS LENS COLLET	13N20L	13N21L	13N22L	13N23L	13N24L
F	LG. DIA GAS LENS	45V0204S		45V116S	45V64S	995795S

GAS NOZZLES

ITEM	NO. SIZE	3 3/16"	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
G	ALUMINA	—	13N08	13N09	13N10	13N11	13N12	13N13	—	—
H	LONG 17/8"	796F70	796F71	796F72	796F73	—	—	—	—	—
I	EX. LONG 2 1/2"	796F74	796F75	796F76	796F77	—	—	—	—	—
J	ALUMINA GAS LENS	—	53N58	53N59	53N60	53N61	53N61S	—	—	—
K	ALUMINA MED. DIA. GAS LENS	—	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—
L	ALUMINA LG. DIA. GAS LENS	—	—	—	57N75	—	57N74	53N88	—	53N87*

Specifications and descriptions subject to change without notice.

* #15 53N89 15/16" ID X 1 7/8" Long

MANUFACTURED IN USA

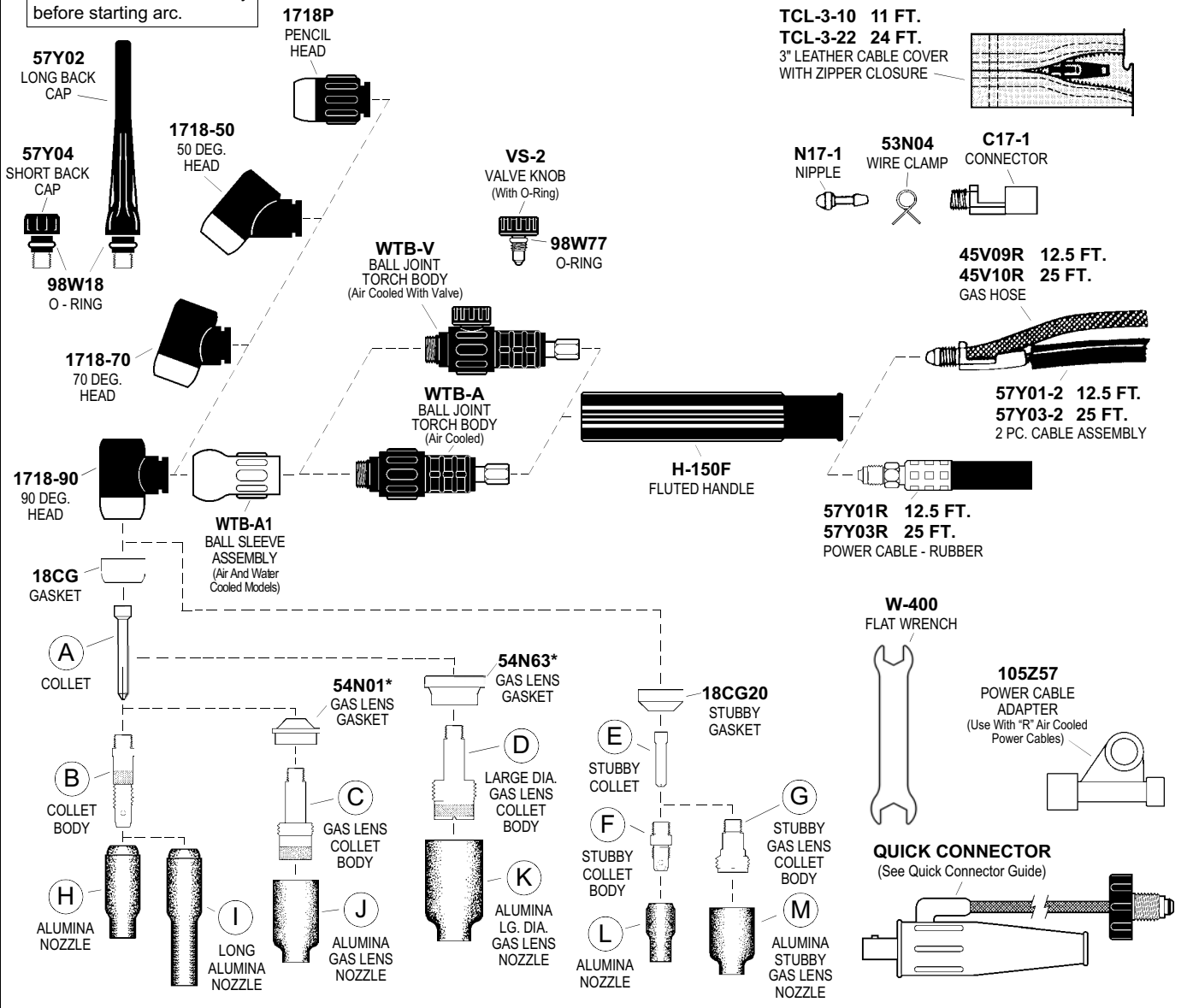
i-HEAD®

BALL - JOINT REPLACEMENT PARTS

WTB-17 • WTB-17V

150 AMPS
AIR COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	10N21	10N22	10N23	10N24	10N25
B	COLLET BODY	10N29	10N30	10N31	10N32	10N28
C	GAS LENS	45V29	45V24	45V25	45V26	45V27
D	LG. DIA GAS LENS	45V0204		45V116	45V64	995795
E	STUBBY COLLET	10N21S	10N22S	10N23S	10N24S	10N25S
F	STUBBY COLLET BODY	17CB20				
G	STUBBY GAS LENS	45V29S	45V24S	45V25S	45V26S	45V27S

GAS NOZZLES

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
H	ALUMINA	10N50	10N49	10N48	10N47	10N46	10N45	—	10N44
I	ALUMINA 3" LONG	—	10N49L	10N48L	10N47L	—	—	—	—
J	ALUMINA GAS LENS	54N18	54N17	54N16	54N15	54N14	—	54N19	—
K	ALUMINA LG. DIA. GAS LENS	—	—	57N75	—	57N74	53N88	—	53N87*
L	ALUMINA	13N08	13N09	13N10	13N11	13N12	13N13	—	—
M	ALUMINA STUBBY GAS LENS	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—

* Must be used together with 18CG gasket.

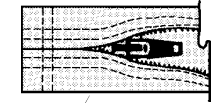
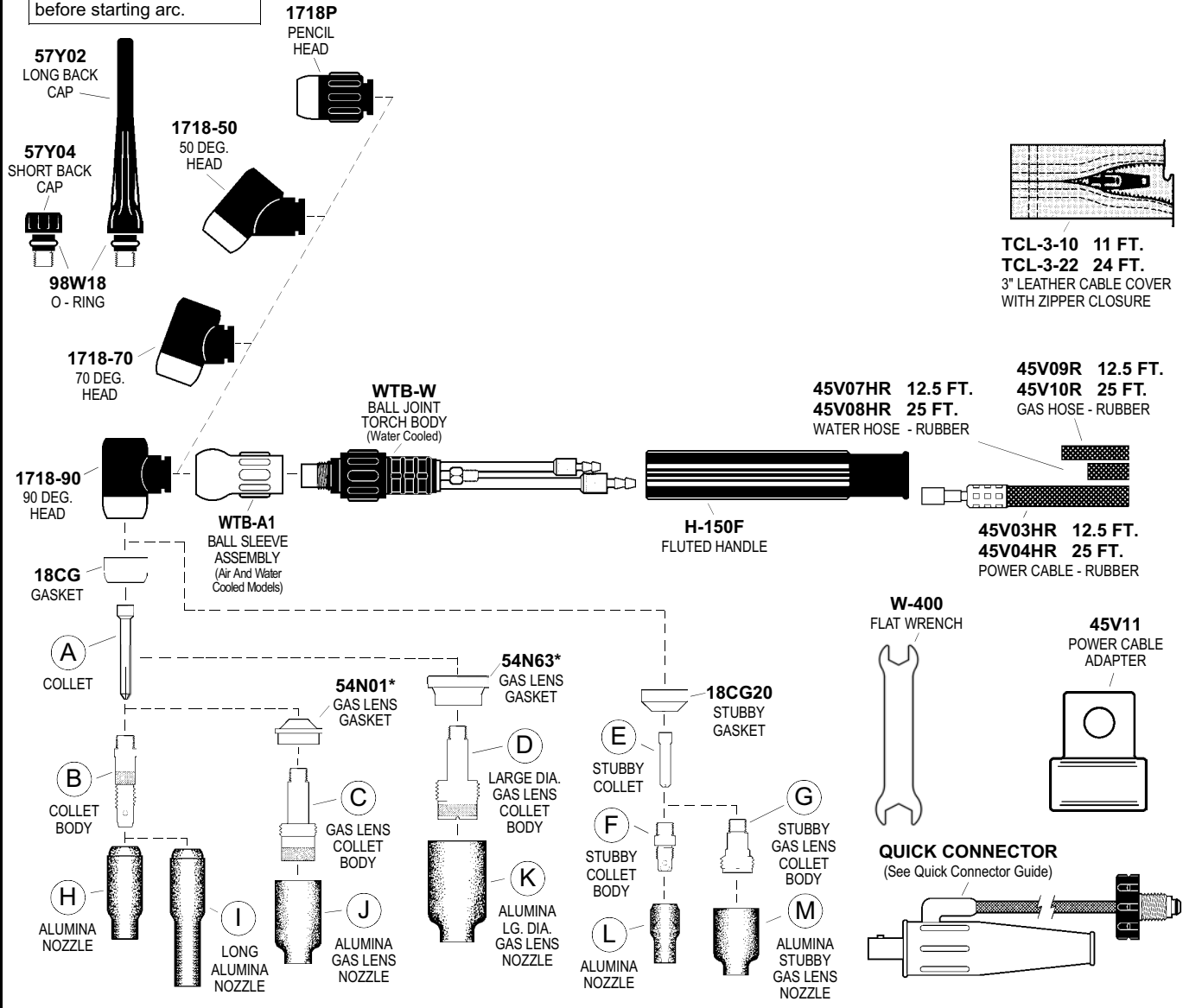
* #15 53N89 15/16" ID X 1 7/8" Long
Specifications and descriptions subject to change without notice.
MANUFACTURED IN USA

i-HEAD®

BALL - JOINT REPLACEMENT PARTS

WTB-18 230 AMPS WATER COOLED

CAUTION
Head must be locked firmly before starting arc.



TCL-3-10 11 FT.
TCL-3-22 24 FT.
3" LEATHER CABLE COVER WITH ZIPPER CLOSURE

COLLETS • COLLET BODIES • GAS LENS

GAS NOZZLES

* Must be used together with 18CG gasket.

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2	5/32 4,0	
A	COLLET	10N21	10N22	10N23	10N24	10N25	54N20	
B	COLLET BODY	10N29	10N30	10N31	10N32	10N28	406488	
C	GAS LENS	45V29	45V24	45V25	45V26	45V27	45V28	
D	LG. DIA. GAS LENS	45V0204		45V116	45V64	995795	45V63	
E	STUBBY COLLET	10N21S	10N22S	10N23S	10N24S	10N25S	54N20S	
F	STUBBY COLLET BODY	17CB20						—
G	STUBBY GAS LENS	45V29S	45V24S	45V25S	45V26S	45V27S	45V28S	

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
H	ALUMINA	10N50	10N49	10N48	10N47	10N46	10N45	—	10N44
I	ALUMINA 3" LONG	—	10N49L	10N48L	10N47L	—	—	—	—
J	ALUMINA GAS LENS	54N18	54N17	54N16	54N15	54N14	—	54N19	—
K	ALUMINA LG. DIA. GAS LENS	—	—	57N75	—	57N74	53N88	—	53N87*
L	ALUMINA	13N08	13N09	13N10	13N11	13N12	13N13	—	—
M	ALUMINA STUBBY GAS LENS	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—

* #15 53N89 15/16" ID X 1 7/8" Long
Specifications and descriptions subject to change without notice.

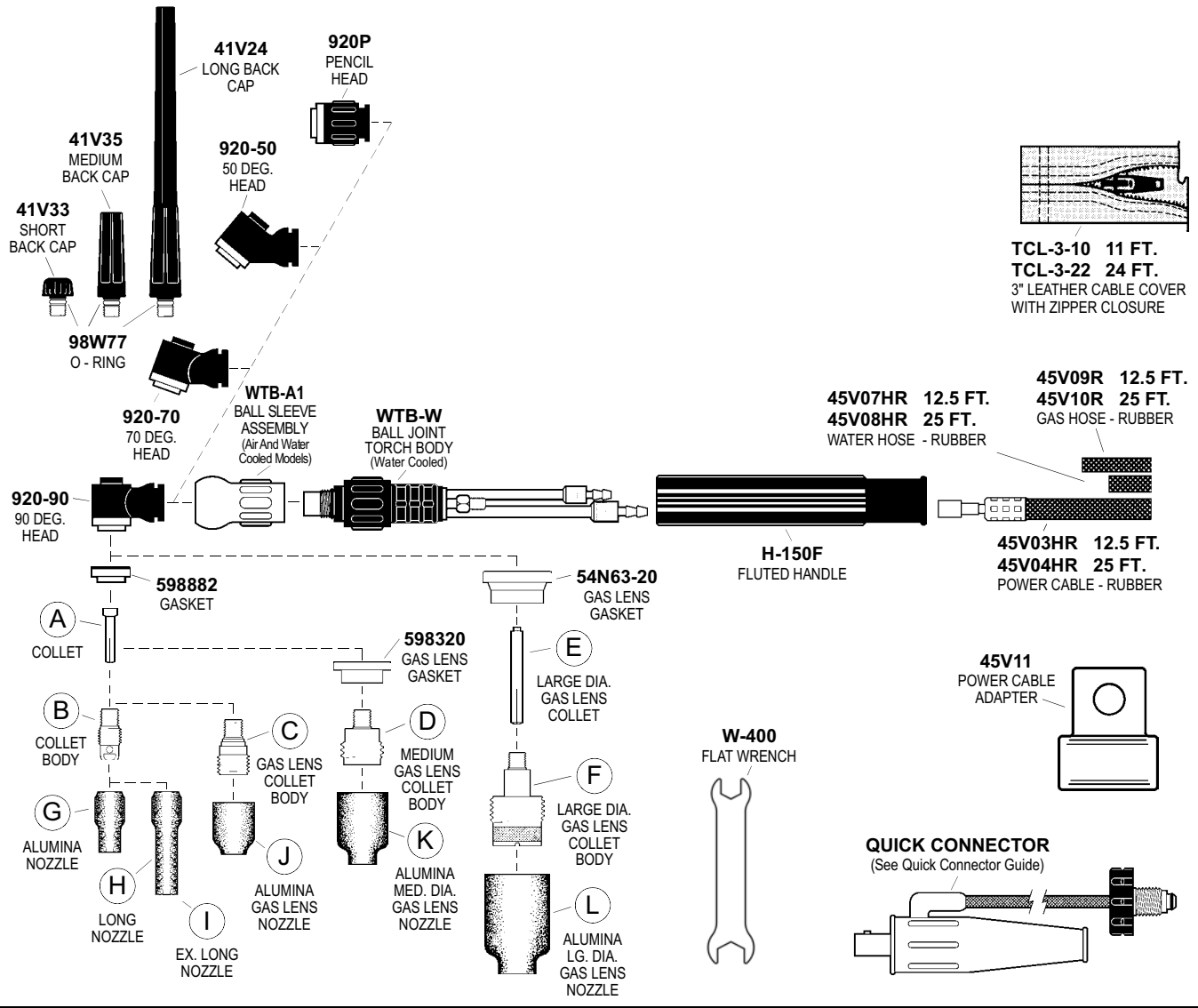
MANUFACTURED IN USA

i-HEAD®

BALL - JOINT REPLACEMENT PARTS

WTB-20 230 AMPS WATER COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	13N20	13N21	13N22	13N23	13N24
B	COLLET BODY	13N25	13N26	13N27	13N28	13N29
C	GAS LENS	45V41	45V42	45V43	45V44	45V45
D	MED. DIA. GAS LENS	—	45V34SW	45V35SW	45V36SW	45V37SW
E	LG. DIA GAS LENS COLLET	13N20L	13N21L	13N22L	13N23L	13N24L
F	LG. DIA GAS LENS	45V0204S		45V116S	45V64S	995795S

GAS NOZZLES

ITEM	NO. SIZE	3 3/16"	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
G	ALUMINA	—	13N08	13N09	13N10	13N11	13N12	13N13	—	—
H	LONG 1 7/8"	796F70	796F71	796F72	796F73	—	—	—	—	—
I	EX. LONG 2 1/2"	796F74	796F75	796F76	796F77	—	—	—	—	—
J	ALUMINA GAS LENS	—	53N58	53N59	53N60	53N61	53N61S	—	—	—
K	ALUMINA MED. DIA. GAS LENS	—	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—
L	ALUMINA LG. DIA. GAS LENS	—	—	—	57N75	—	57N74	53N88	—	53N87*

Specifications and descriptions subject to change without notice.

* #15 53N89 15/16" ID X 1 7/8" Long

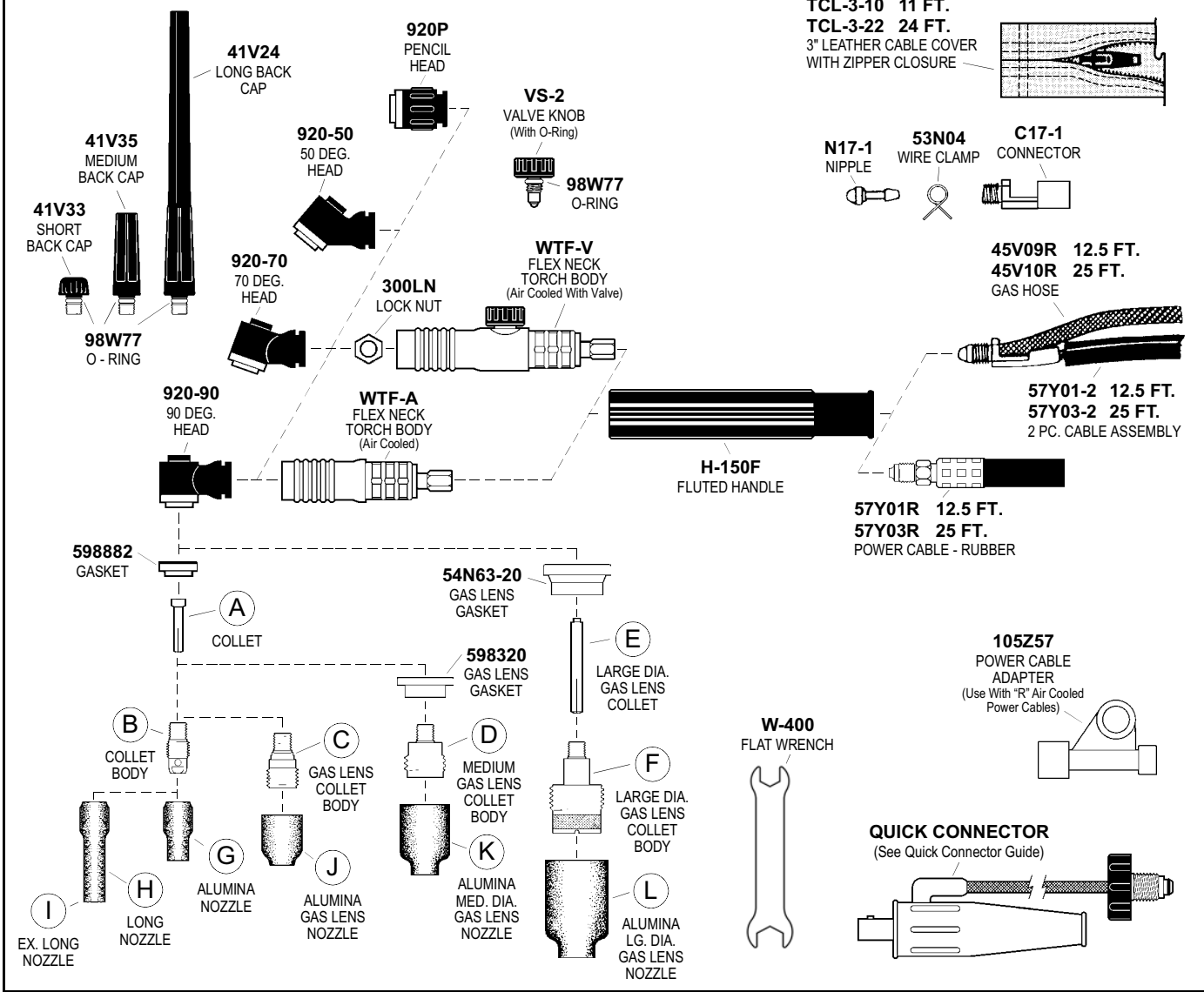
MANUFACTURED IN USA

i-HEAD®

FLEX - NECK REPLACEMENT PARTS

WTF-9 • WTF-9V 125 AMPS AIR COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

GAS NOZZLES

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	13N20	13N21	13N22	13N23	13N24
B	COLLET BODY	13N25	13N26	13N27	13N28	13N29
C	GAS LENS	45V41	45V42	45V43	45V44	45V45
D	MED. DIA. GAS LENS	—	45V34SW	45V35SW	45V36SW	45V37SW
E	LG. DIA GAS LENS COLLET	13N20L	13N21L	13N22L	13N23L	13N24L
F	LG. DIA GAS LENS	45V0204S		45V116S	45V64S	995795S

ITEM	NO. SIZE	3 3/16"	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
G	ALUMINA	—	13N08	13N09	13N10	13N11	13N12	13N13	—	—
H	LONG 1 7/8"	796F70	796F71	796F72	796F73	—	—	—	—	—
I	EX. LONG 2 1/2"	796F74	796F75	796F76	796F77	—	—	—	—	—
J	ALUMINA GAS LENS	—	53N58	53N59	53N60	53N61	53N61S	—	—	—
K	ALUMINA MED. DIA. GAS LENS	—	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—
L	ALUMINA LG. DIA. GAS LENS	—	—	—	57N75	—	57N74	53N88	—	53N87*

Specifications and descriptions subject to change without notice.

* #15 53N89 15/16" ID X 1 7/8" Long

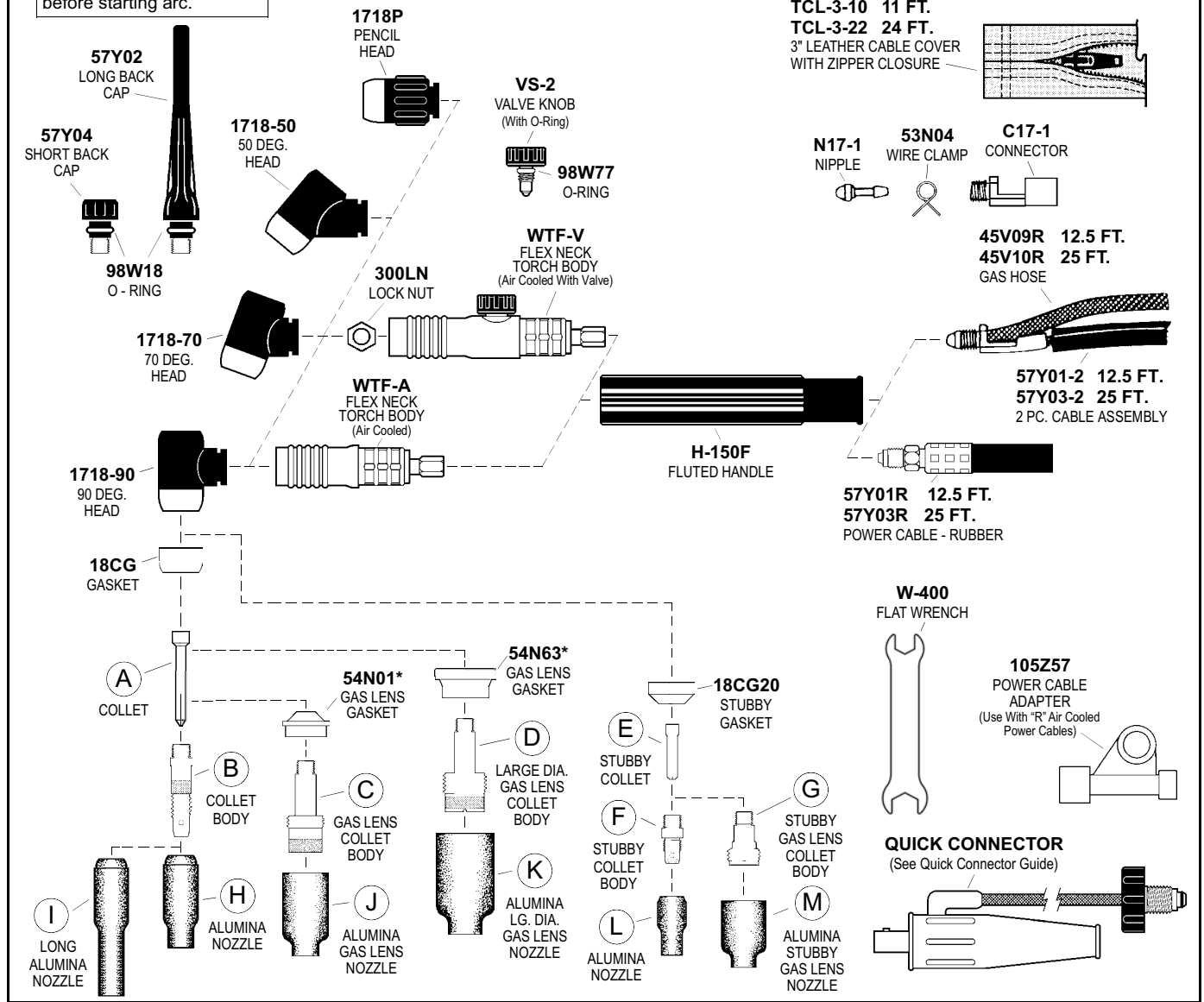
MANUFACTURED IN USA

i-HEAD®

FLEX-NECK REPLACEMENT PARTS

WTF-17 • WTF-17V 150 AMPS AIR COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	10N21	10N22	10N23	10N24	10N25
B	COLLET BODY	10N29	10N30	10N31	10N32	10N28
C	GAS LENS	45V29	45V24	45V25	45V26	45V27
D	LG. DIA GAS LENS	45V0204		45V116	45V64	995795
E	STUBBY COLLET	10N21S	10N22S	10N23S	10N24S	10N25S
F	STUBBY COLLET BODY	17CB20				
G	STUBBY GAS LENS	45V29S	45V24S	45V25S	45V26S	45V27S

GAS NOZZLES

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
H	ALUMINA	10N50	10N49	10N48	10N47	10N46	10N45	—	10N44
I	ALUMINA 3" LONG	—	10N49L	10N48L	10N47L	—	—	—	—
J	ALUMINA GAS LENS	54N18	54N17	54N16	54N15	54N14	—	54N19	—
K	ALUMINA LG. DIA. GAS LENS	—	—	57N75	—	57N74	53N88	—	53N87*
L	ALUMINA	13N08	13N09	13N10	13N11	13N12	13N13	—	—
M	ALUMINA STUBBY GAS LENS	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—

* #15 53N89 15/16" ID X 1 7/8" Long

* Must be used together with 18CG gasket.

Specifications and descriptions subject to change without notice.

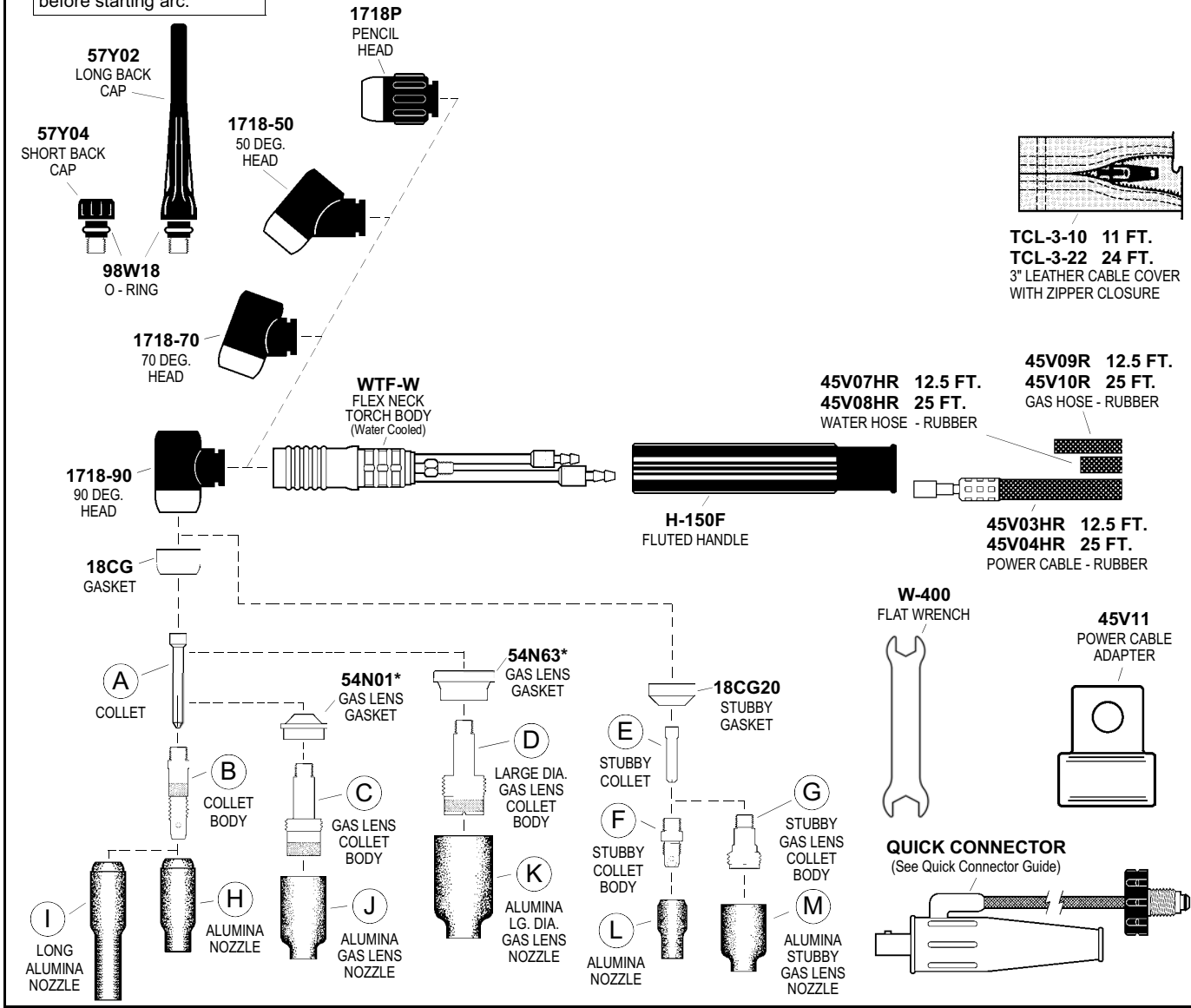
MANUFACTURED IN USA

i-HEAD®

FLEX - NECK REPLACEMENT PARTS

WTF-18 230 AMPS WATER COOLED

CAUTION
Head must be locked firmly before starting arc.



* Must be used together with 18CG gasket.

COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2	5/32 4,0	
A	COLLET	10N21	10N22	10N23	10N24	10N25	54N20	
B	COLLET BODY	10N29	10N30	10N31	10N32	10N28	406488	
C	GAS LENS	45V29	45V24	45V25	45V26	45V27	45V28	
D	LG. DIA. GAS LENS	45V0204		45V116	45V64	995795	45V63	
E	STUBBY COLLET	10N21S	10N22S	10N23S	10N24S	10N25S	54N20S	
F	STUBBY COLLET BODY	17CB20						—
G	STUBBY GAS LENS	45V29S	45V24S	45V25S	45V26S	45V27S	45V28S	

GAS NOZZLES

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
H	ALUMINA	10N50	10N49	10N48	10N47	10N46	10N45	—	10N44
I	ALUMINA 3" LONG	—	10N49L	10N48L	10N47L	—	—	—	—
J	ALUMINA GAS LENS	54N18	54N17	54N16	54N15	54N14	—	54N19	—
K	ALUMINA LG. DIA. GAS LENS	—	—	57N75	—	57N74	53N88	—	53N87*
L	ALUMINA	13N08	13N09	13N10	13N11	13N12	13N13	—	—
M	ALUMINA STUBBY GAS LENS	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—

* #15 53N89 15/16" ID X 1 7/8" Long

Specifications and descriptions subject to change without notice.

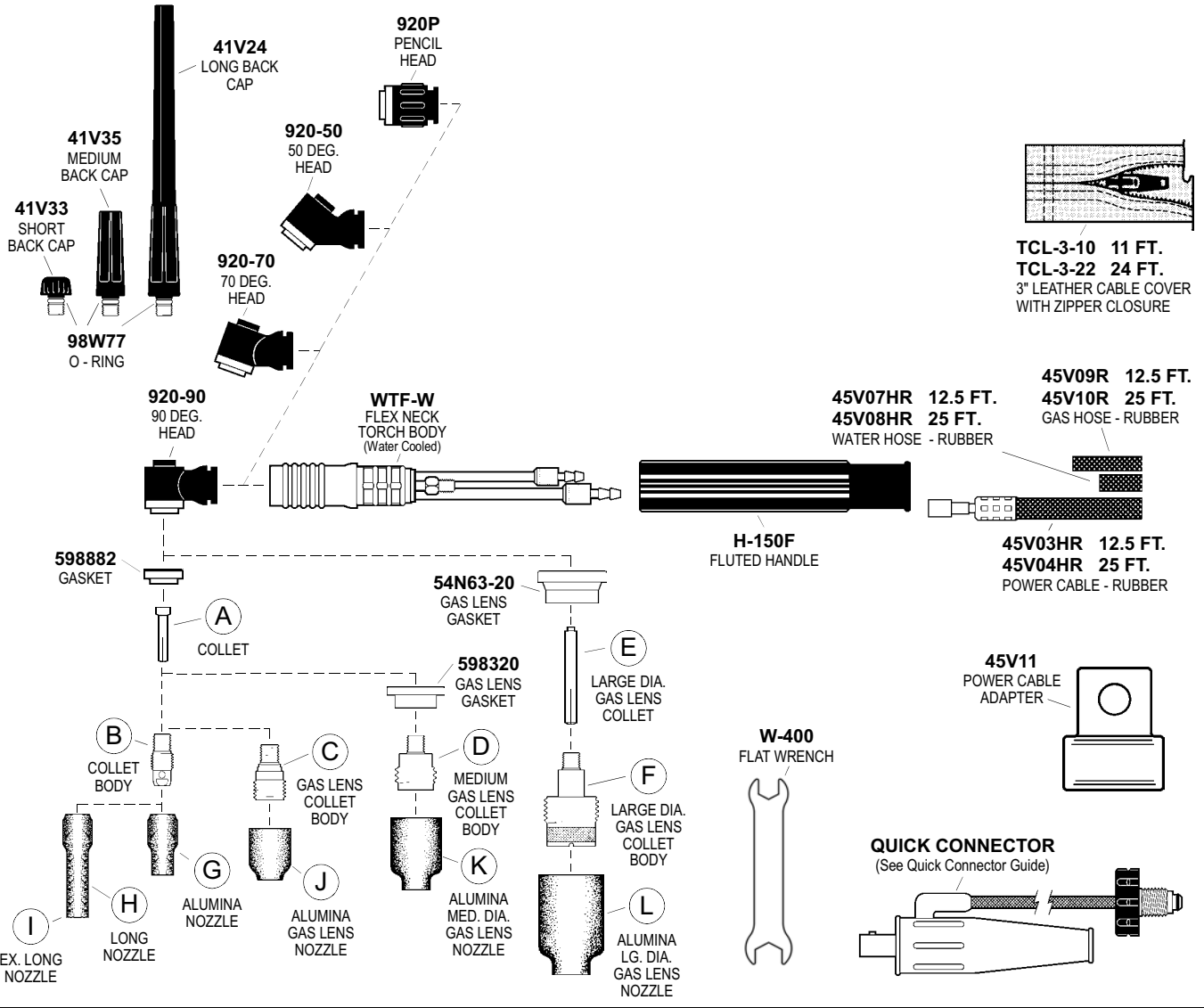
MANUFACTURED IN USA

i-HEAD®

FLEX - NECK REPLACEMENT PARTS

WTF-20 230 AMPS WATER COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

GAS NOZZLES

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	13N20	13N21	13N22	13N23	13N24
B	COLLET BODY	13N25	13N26	13N27	13N28	13N29
C	GAS LENS	45V41	45V42	45V43	45V44	45V45
D	MED. DIA. GAS LENS	—	45V34SW	45V35SW	45V36SW	45V37SW
E	LG. DIA. GAS LENS COLLET	13N20L	13N21L	13N22L	13N23L	13N24L
F	LG. DIA. GAS LENS	45V0204S		45V116S	45V64S	995795S

ITEM	NO. SIZE	3 3/16"	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
G	ALUMINA	—	13N08	13N09	13N10	13N11	13N12	13N13	—	—
H	LONG 1 7/8"	796F70	796F71	796F72	796F73	—	—	—	—	—
I	EX. LONG 2 1/2"	796F74	796F75	796F76	796F77	—	—	—	—	—
J	ALUMINA GAS LENS	—	53N58	53N59	53N60	53N61	53N61S	—	—	—
K	ALUMINA MED. DIA. GAS LENS	—	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—
L	ALUMINA LG. DIA. GAS LENS	—	—	—	57N75	—	57N74	53N88	—	53N87*

Specifications and descriptions subject to change without notice.

* #15 53N89 15/16" ID X 1 7/8" Long

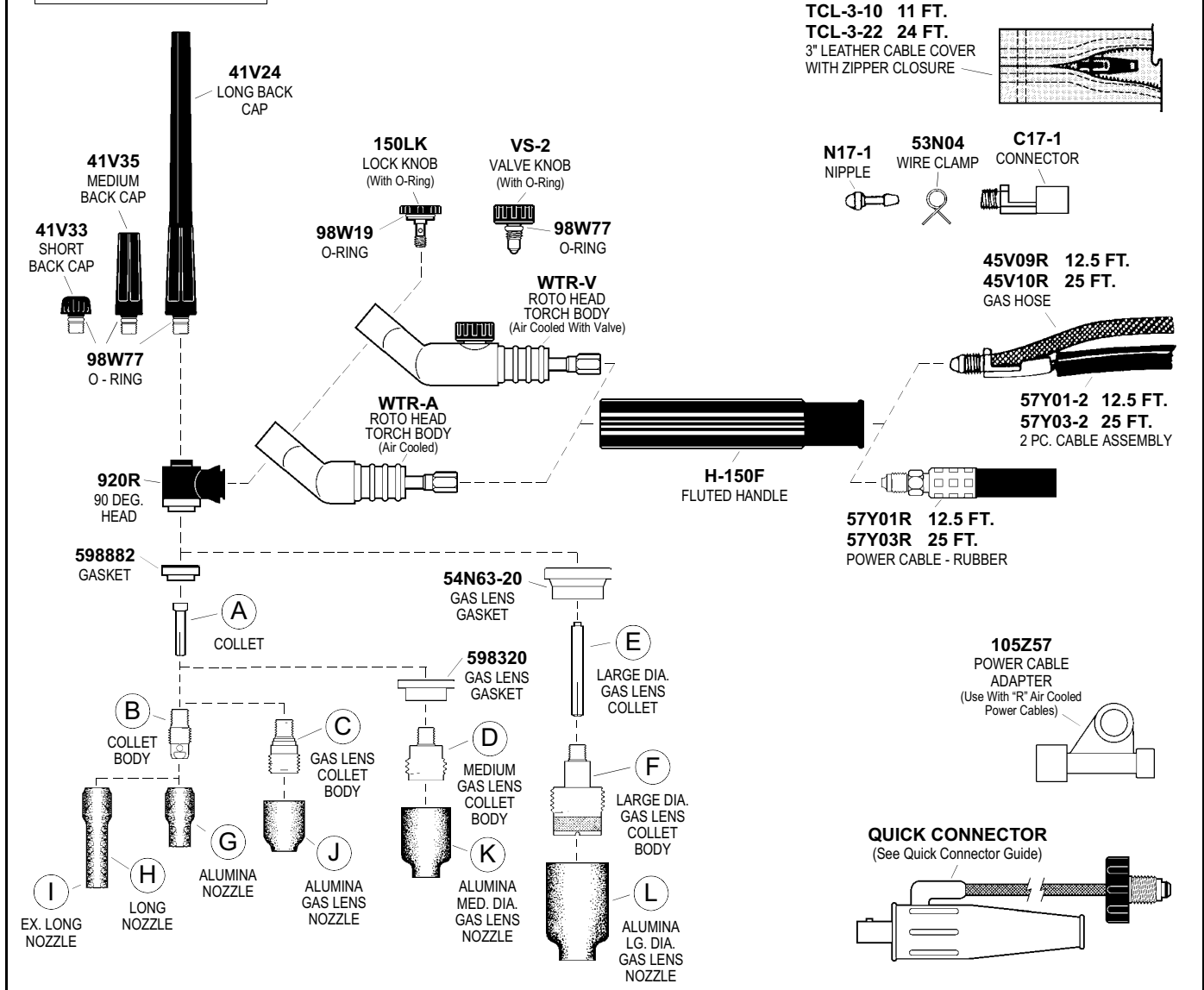
MANUFACTURED IN USA

i-HEAD®

ROTO - HEAD REPLACEMENT PARTS

WTR-9 • WTR-9V 125 AMPS AIR COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	13N20	13N21	13N22	13N23	13N24
B	COLLET BODY	13N25	13N26	13N27	13N28	13N29
C	GAS LENS	45V41	45V42	45V43	45V44	45V45
D	MED. DIA. GAS LENS	—	45V34SW	45V35SW	45V36SW	45V37SW
E	LG. DIA. GAS LENS COLLET	13N20L	13N21L	13N22L	13N23L	13N24L
F	LG. DIA. GAS LENS	45V0204S		45V116S	45V64S	995795S

GAS NOZZLES

ITEM	NO. SIZE	3 3/16"	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
G	ALUMINA	—	13N08	13N09	13N10	13N11	13N12	13N13	—	—
H	LONG 17/8"	796F70	796F71	796F72	796F73	—	—	—	—	—
I	EX. LONG 2 1/2"	796F74	796F75	796F76	796F77	—	—	—	—	—
J	ALUMINA GAS LENS	—	53N58	53N59	53N60	53N61	53N61S	—	—	—
K	ALUMINA MED. DIA. GAS LENS	—	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—
L	ALUMINA LG. DIA. GAS LENS	—	—	—	57N75	—	57N74	53N88	—	53N87*

Specifications and descriptions subject to change without notice.

* #15 53N89 15/16" ID X 1 7/8" Long

MANUFACTURED IN USA

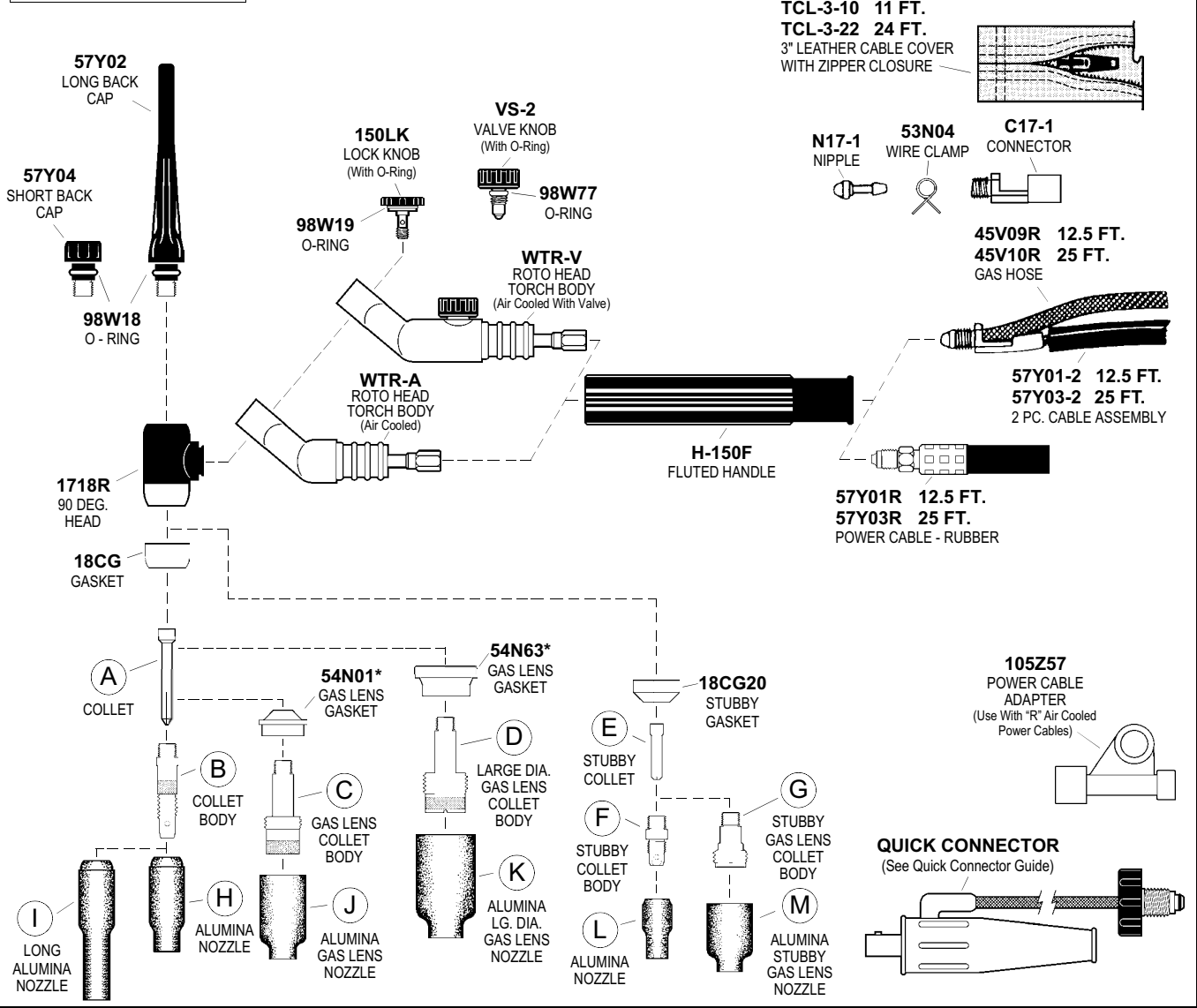
i-HEAD®

ROTO - HEAD REPLACEMENT PARTS

WTR-17 • WTR-17V

150 AMPS
AIR COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	10N21	10N22	10N23	10N24	10N25
B	COLLET BODY	10N29	10N30	10N31	10N32	10N28
C	GAS LENS	45V29	45V24	45V25	45V26	45V27
D	LG. DIA. GAS LENS	45V0204		45V116	45V64	995795
E	STUBBY COLLET	10N21S	10N22S	10N23S	10N24S	10N25S
F	STUBBY COLLET BODY	17CB20				
G	STUBBY GAS LENS	45V29S	45V24S	45V25S	45V26S	45V27S

GAS NOZZLES

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
H	ALUMINA	10N50	10N49	10N48	10N47	10N46	10N45	—	10N44
I	ALUMINA 3" LONG	—	10N49L	10N48L	10N47L	—	—	—	—
J	ALUMINA GAS LENS	54N18	54N17	54N16	54N15	54N14	—	54N19	—
K	ALUMINA LG. DIA. GAS LENS	—	—	57N75	—	57N74	53N88	—	53N87*
L	ALUMINA	13N08	13N09	13N10	13N11	13N12	13N13	—	—
M	ALUMINA STUBBY GAS LENS	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—

* #15 53N89 15/16" ID X 1 7/8" Long

* Must be used together with 18CG gasket.

Specifications and descriptions subject to change without notice.

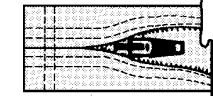
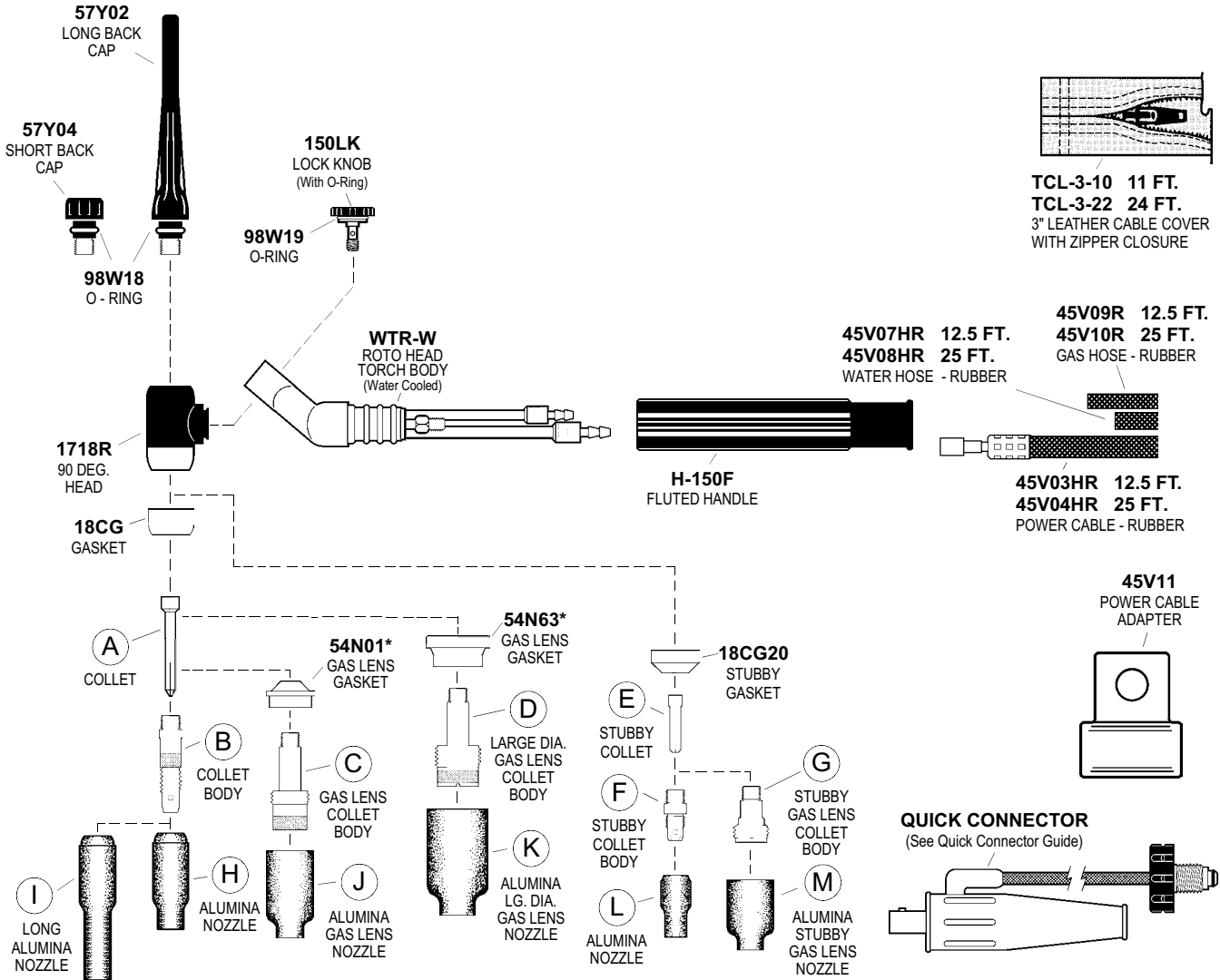
MANUFACTURED IN USA

i-HEAD®

ROTO - HEAD REPLACEMENT PARTS

WTR-18 230 AMPS WATER COOLED

CAUTION
Head must be locked firmly before starting arc.



TCL-3-10 11 FT.
TCL-3-22 24 FT.
3" LEATHER CABLE COVER WITH ZIPPER CLOSURE

COLLETS • COLLET BODIES • GAS LENS

GAS NOZZLES

* Must be used together with 18CG gasket.

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2	5/32 4,0	
A	COLLET	10N21	10N22	10N23	10N24	10N25	54N20	
B	COLLET BODY	10N29	10N30	10N31	10N32	10N28	406488	
C	GAS LENS	45V29	45V24	45V25	45V26	45V27	45V28	
D	LG. DIA. GAS LENS	45V0204		45V116	45V64	995795	45V63	
E	STUBBY COLLET	10N21S	10N22S	10N23S	10N24S	10N25S	54N20S	
F	STUBBY COLLET BODY	17CB20						—
G	STUBBY GAS LENS	45V29S	45V24S	45V25S	45V26S	45V27S	45V28S	

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
H	ALUMINA	10N50	10N49	10N48	10N47	10N46	10N45	—	10N44
I	ALUMINA 3" LONG	—	10N49L	10N48L	10N47L	—	—	—	—
J	ALUMINA GAS LENS	54N18	54N17	54N16	54N15	54N14	—	54N19	—
K	ALUMINA LG. DIA. GAS LENS	—	—	57N75	—	57N74	53N88	—	53N87*
L	ALUMINA	13N08	13N09	13N10	13N11	13N12	13N13	—	—
M	ALUMINA STUBBY GAS LENS	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—

* #15 53N89 15/16" ID X 1 7/8" Long

Specifications and descriptions subject to change without notice.

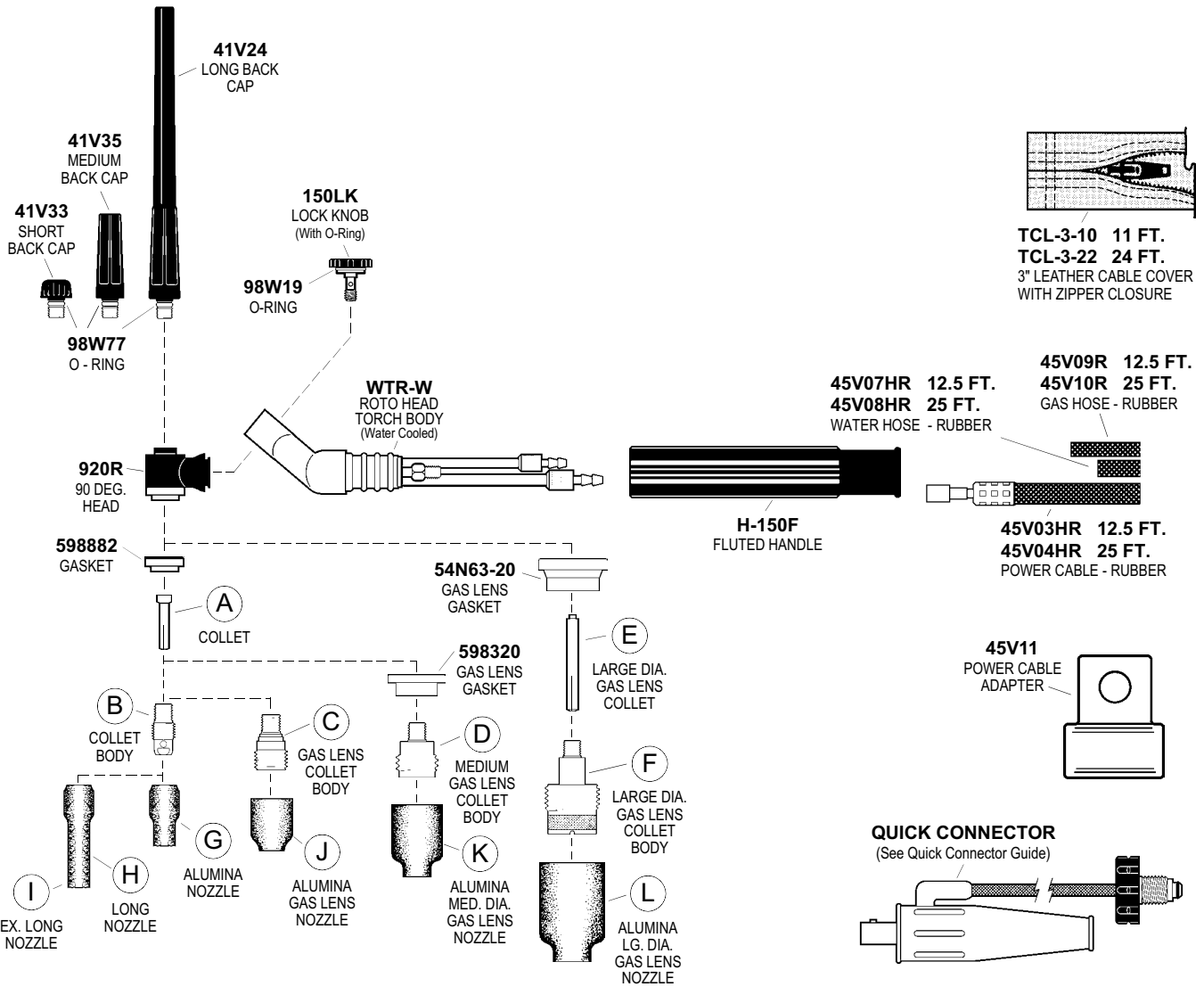
MANUFACTURED IN USA

i-HEAD®

ROTO - HEAD REPLACEMENT PARTS

WTR-20 230 AMPS WATER COOLED

CAUTION
Head must be locked firmly before starting arc.



COLLETS • COLLET BODIES • GAS LENS

GAS NOZZLES

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	13N20	13N21	13N22	13N23	13N24
B	COLLET BODY	13N25	13N26	13N27	13N28	13N29
C	GAS LENS	45V41	45V42	45V43	45V44	45V45
D	MED. DIA. GAS LENS	—	45V34SW	45V35SW	45V36SW	45V37SW
E	LG. DIA. GAS LENS COLLET	13N20L	13N21L	13N22L	13N23L	13N24L
F	LG. DIA. GAS LENS	45V0204S	45V116S	45V64S	995795S	

ITEM	NO. SIZE	3 3/16"	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
G	ALUMINA	—	13N08	13N09	13N10	13N11	13N12	13N13	—	—
H	LONG 17/8"	796F70	796F71	796F72	796F73	—	—	—	—	—
I	EX. LONG 2 1/2"	796F74	796F75	796F76	796F77	—	—	—	—	—
J	ALUMINA GAS LENS	—	53N58	53N59	53N60	53N61	53N61S	—	—	—
K	ALUMINA MED. DIA. GAS LENS	—	—	—	—	54N15SW	54N14SW	54N12SW	54N19	—
L	ALUMINA LG. DIA. GAS LENS	—	—	—	57N75	—	57N74	53N88	—	53N87*

Specifications and descriptions subject to change without notice.

* #15 53N89 15/16" ID X 1 7/8" Long

MANUFACTURED IN USA



HIGH PERFORMANCE TIG WELDING TORCHES



"Best TIG torch ever!"

J.C. Paso Robles, CA

"This torch is the best quality torch that I have ever used"

J.B. Lewisville, IN

"Great package"

B.M. Oxnard, CA

"Finally, a decent, rugged torch!"

D.T. Pleasant Prairie, WI

"Awesome Torch"

M.O. Vista, CA

"Excellent product design"

T.T. Xenia, OH

"The Best!!!"

Z.A. Louisville, KY

"Comfort of handle. Nicest torch I've seen."

K.S. Harleysville, PA

"P.S. your product is excellent - #1"

K.N. Moreno Valley, CA

"Good product, trouble free"

N.B. Centerville, OH

"Best torch I've used in 27 years of welding"

S.B. Kettering, OH

"Best I've ever used!"

D.L. Munford, AL

SW-320
320 amps

SW-450
450 amps

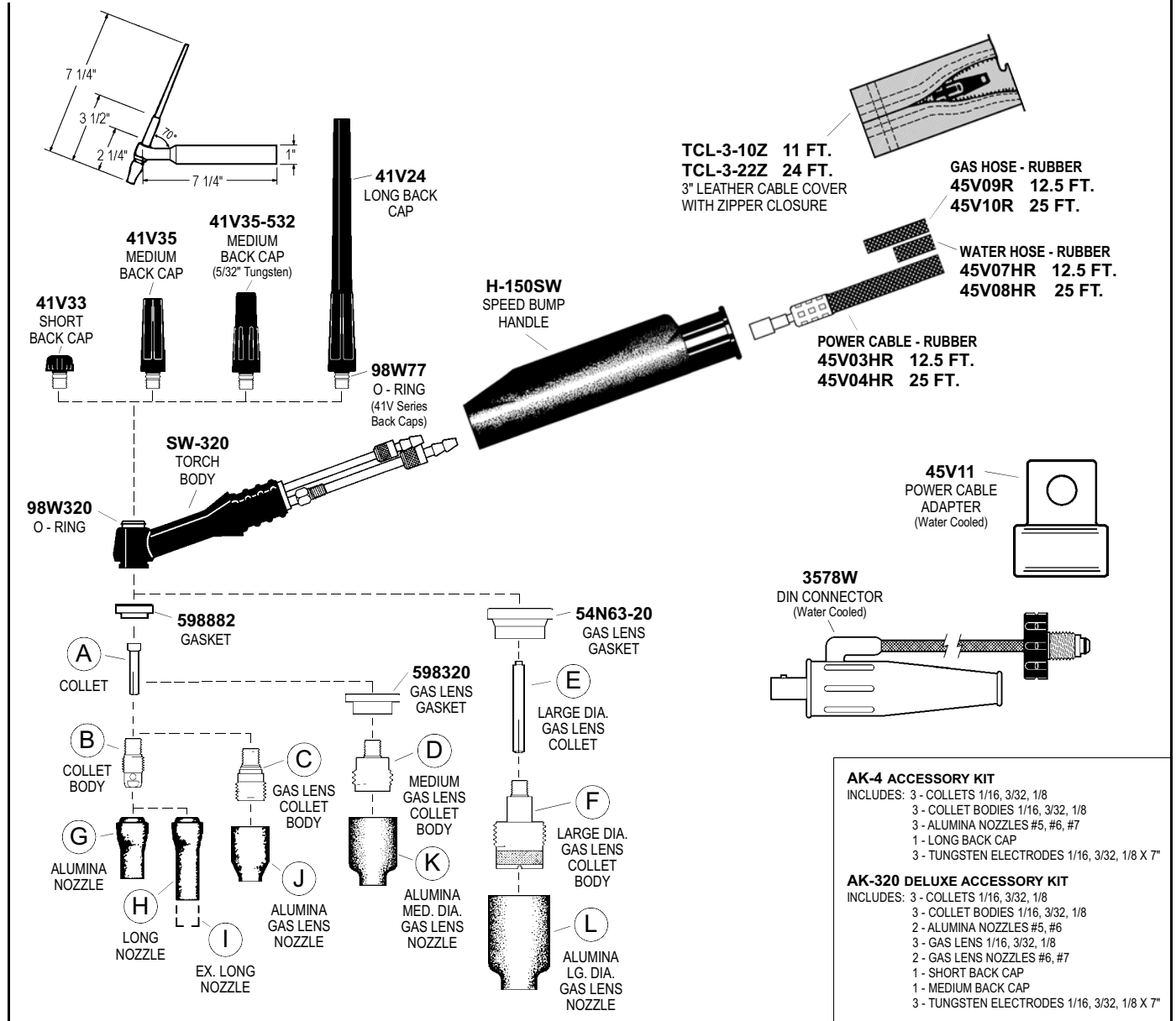
... we couldn't have said it better ourselves.

Speedway® and the overall shape, style and appearance of the handle are registered trademarks of the Tec Torch Co.

SPEEDWAY[®] SERIES

REPLACEMENT PARTS

SW-320 320 AMPS • WATER COOLED



- AK-4 ACCESSORY KIT**
INCLUDES: 3 - COLLETS 1/16, 3/32, 1/8
3 - COLLET BODIES 1/16, 3/32, 1/8
3 - ALUMINA NOZZLES #5, #6, #7
1 - LONG BACK CAP
3 - TUNGSTEN ELECTRODES 1/16, 3/32, 1/8 X 7"
- AK-320 DELUXE ACCESSORY KIT**
INCLUDES: 3 - COLLETS 1/16, 3/32, 1/8
3 - COLLET BODIES 1/16, 3/32, 1/8
2 - ALUMINA NOZZLES #5, #6
3 - GAS LENS 1/16, 3/32, 1/8
2 - GAS LENS NOZZLES #6, #7
1 - SHORT BACK CAP
1 - MEDIUM BACK CAP
3 - TUNGSTEN ELECTRODES 1/16, 3/32, 1/8 X 7"

COLLETS • COLLET BODIES • GAS LENS

GAS NOZZLES

ITEM	ELECTRODE DIAMETER	ELECTRODE DIAMETER						ITEM	NO. SIZE	NO. SIZE											
		.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2	5/32* 4,0			3 3/16"	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"			
A	COLLET	13N20	13N21	13N22	13N23	13N24	13NC532	G	ALUMINA	—	13N08	13N09	13N10	13N11	13N12	13N13	—	—			
B	COLLET BODY	13N25	13N26	13N27	13N28	13N29	13NCB532	H	LONG 17/8"	796F70A	796F71A	796F72A	796F73A	—	—	—	—	—			
C	GAS LENS	45V41	45V42	45V43	45V44	45V45	—	I	EX. LONG 2 1/2"	796F74A	796F75A	796F76A	796F77A	—	—	—	—	—			
D	MED. DIA. GAS LENS	—	45V34SW	45V35SW	45V36SW	45V37SW	45V38SW	J	ALUMINA GAS LENS	—	53N58	53N59	53N60	53N61	53N61S	—	—	—			
E	LG. DIA GAS LENS COLLET	13N20L	13N21L	13N22L	13N23L	13N24L	—	K	ALUMINA MED. DIA. GAS LENS	—	—	—	54N16SW	54N15SW	54N14SW	54N12SW	54N19	—			
F	LG. DIA GAS LENS	45V0204S	45V116S	45V64S	995795S	—	—	L	ALUMINA LG. DIA. GAS LENS	—	—	—	57N75	—	57N74	53N88	—	53N87**			

* 41V35-532 Medium Back Cap Required To Use 5/32 Parts.

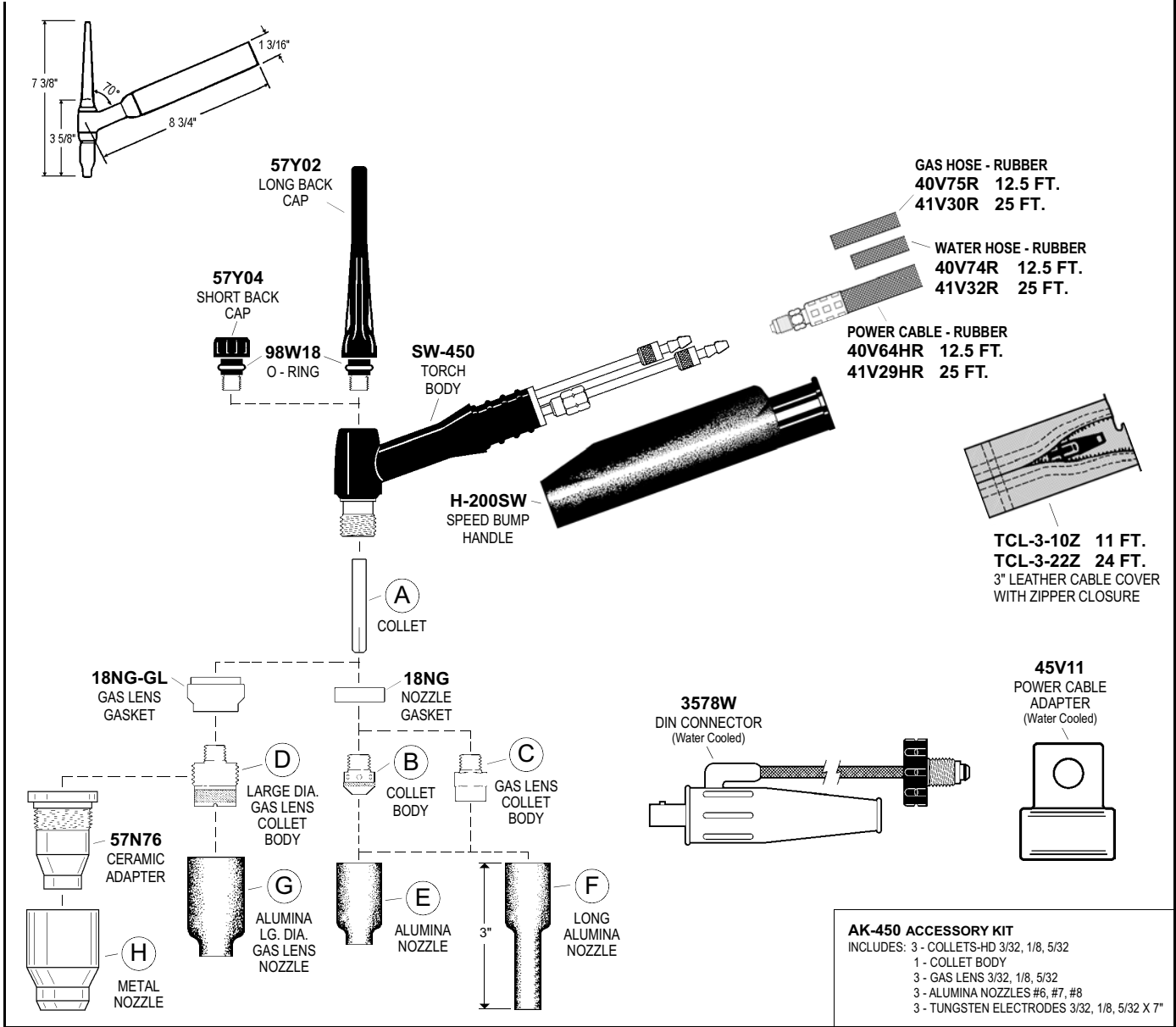
** #15 53N89 15/16" ID X 1 7/8" Long.

MANUFACTURED IN USA

SPEEDWAY[®] SERIES

REPLACEMENT PARTS

SW-450 450 AMPS • WATER COOLED



AK-450 ACCESSORY KIT
 INCLUDES: 3 - COLLETS-HD 3/32, 1/8, 5/32
 1 - COLLET BODY
 3 - GAS LENS 3/32, 1/8, 5/32
 3 - ALUMINA NOZZLES #6, #7, #8
 3 - TUNGSTEN ELECTRODES 3/32, 1/8, 5/32 X 7"

COLLETS • COLLET BODIES • GAS LENS

ITEM	ELECTRODE DIAMETER	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2	5/32 4,0	3/16 4,8
A	COLLET	10N22HD	10N23HD	10N24HD	10N25HD	54N20HD	18C36
B	COLLET BODY	NCB-36					
C	GAS LENS	18GL04	18GL16	18GL32	18GL18	18GL53	18GL36
D	LG. DIA. GAS LENS	45V94	45V95	45V96	45V97	45V98	45V99

GAS NOZZLES

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"	12 3/4"
E	ALUMINA	54N18	54N17	54N16	54N15	54N14	—	54N19	—
HPS*		—	—	—	54N15HPS	54N14HPS	—	—	—
F	LONG ALUMINA 3"	—	54N17L	54N16L	54N15L	—	—	—	—
G	ALUMINA LG. DIA. GAS LENS	—	—	57N75	—	57N74	53N88	—	53N87**
H	METAL	—	—	—	—	—	57N78	—	57N77

* Nozzles Available In HPS High Performance Series (Gray Color).
 ** #15 53N89 15/16" ID X 1 7/8" Long.

MANUFACTURED IN USA

Heliweld II™ TIG WELDING TORCHES

H-10, 10F, 10FV, 10V
H-16, 16F, 16FV, 16V
H-20, H-35

FEATURES

The Heliweld II™ torch models are engineered and manufactured using the most modern materials and techniques to meet the stringent requirements of industry.

- High conductivity copper construction
- High temperature silicone rubber insulation
- High capacity silver brazed construction
- Durable, flexible rubber hoses & cables
- Protective zippered cable covers
- Air cooled flex heads and built-in gas valves



SPECIFICATIONS

MODEL	PART NO.	AIRCO® NO.	DESCRIPTION	AMPS*	FEATURES	
H-10	H-10-12	2301-0010	12 ½ Ft. Torch Package	A	100	Standard Model
	H-10-25	2301-0030	25 Ft. Torch Package			
H-10F	H-10F-12	-	12 ½ Ft. Torch Package	A	100	Flex Head Model
	H-10F-25	-	25 Ft. Torch Package			
H-10FV	H-10FV-12	-	12 ½ Ft. Torch Package	A	100	Flex Head With Valve
	H-10FV-25	-	25 Ft. Torch Package			
H-10V	H-10V-12	2301-0070	12 ½ Ft. Torch Package	A	100	Built-In Gas Valve
	H-10V-25	2301-0071	25 Ft. Torch Package			
H-16	H-16-12	2301-0047	12 ½ Ft. Torch Package	A	160	Standard Model
	H-16-25	2301-0049	25 Ft. Torch Package			
H-16F	H-16F-12	-	12 ½ Ft. Torch Package	A	160	Flex Head Model
	H-16F-25	-	25 Ft. Torch Package			
H-16FV	H-16FV-12	-	12 ½ Ft. Torch Package	A	160	Flex Head With Valve
	H-16FV-25	-	25 Ft. Torch Package			
H-16V	H-16V-12	2301-0084	12 ½ Ft. Torch Package	A	160	Built-In Gas Valve
	H-16V-25	2301-0085	25 Ft. Torch Package			
H-20	H-20-12R	2301-0041	12 ½ Ft. Torch Package	W	200	Standard Model
	H-20-25R	2301-0042	25 Ft. Torch Package			
H-35	H-35-12R	2301-3751	12 ½ Ft. Torch Package	W	350	Standard Model
	H-35-25R	2301-3776	25 Ft. Torch Package			



NOTES: Power cable connector and accessory kit not supplied with torch package. Order as needed. * AC, DCSP
 A=Air cooled, W=Water cooled.

TORCH MODELS





Specifications and models subject to change without notice.



ALUMINA NOZZLES

TORCH	LENGTH	ORIFICE		SIZE	PART NO.
		IN	mm		
H-10, 10F, 10FV, 10V H-20 	1 9/16"	1/4	6	4	2304-0069
		5/16	8	5	2304-0070
		3/8	10	6	2304-0073
		7/16	11	7	2304-0074
H-16, 16F, 16FV, 16V H-35 	1 5/8"	1/4	6	4	2304-0079
		5/16	8	5	2304-0080
		3/8	10	6	2304-0081
		1/2	12.5	8	2304-0082
		5/8	16	10	2304-0083



NOSE TRANSFER BLOCKS

TORCH	SIZE		PART NO.
	IN	mm	
H-10, 10F, 10FV, 10V H-20 	.020 - 1/8	0,5 - 3,2	2310-1810
H-16, 16F, 16FV, 16V H-35 	.020 - 3/16	0,5 - 4,8	2310-1938



ALUMINA GAS FLOW STRAIGHTENER NOZZLES

TORCH	LENGTH	ORIFICE		SIZE	PART NO.
		IN	mm		
H-10, 10F, 10FV, 10V H-20 	1"	1/4	6	4	53N58
		5/16	8	5	53N59
		3/8	10	6	53N60
		7/16	11	7	53N61
		1/2	12.5	8	53N61S
H-16, 16F, 16FV, 16V H-35 	1 5/8"	1/4	6	4	54N18
		5/16	8	5	54N17
		3/8	10	6	54N16
		7/16	11	7	54N15
		1/2	12.5	8	54N14
		11/16	17.5	11	54N19



COLLETS

TORCH	SIZE		PART NO.
	IN	mm	
H-10, 10F, 10FV, 10V H-20 	.020	0,5	2304-0138
	.040	1,0	2304-0137
	1/16	1,6	2304-0136
	3/32	2,4	2304-0135
	1/8	3,2	2304-0068
	H-16, 16F, 16FV, 16V H-35 	.020	0,5
.040		1,0	2304-0087
1/16		1,6	2304-0088
3/32		2,4	2304-0089
1/8		3,2	2304-0090
5/32		4,0	2304-0091
3/16		4,8	2304-0146

BACK CAPS



TORCH	DESCRIPTION	PART NO.
H-10, 10F, 10FV, 10V H-20 	2" Short Cap	2304-0008
	3" Medium Cap	2304-0009
	7" Long Cap	2304-0010
H-16, 16F, 16FV, 16V H-35 	2" Short Cap	2304-0143
	3" Medium Cap	2304-0144
	7" Long Cap	2304-0145

GAS FLOW STRAIGHTENERS*



TORCH	SIZE		PART NO.
	IN	mm	
H-10, 10F, 10FV, 10V H-20 	.020 - 1/16	0,5 - 1,6	2304-0187A
	3/32	2,4	2304-0188A
	1/8	3,2	2304-0189A
H-16, 16F, 16FV, 16V H-35 	.020 - 1/16	0,5 - 1,6	2304-0176A
	3/32	2,4	2304-0177A
	1/8	3,2	2304-0178A
	5/32 - 3/16	4,0 - 4,8	2304-0179A

*NOTE: Gas flow straighteners do not use original Airco® nozzles.

POWER CABLE CONNECTORS

	TORCH	PART NO.
		H-10, 10F, 10FV, 10V H-16, 16F, 16FV, 16V H-20 H-35
	H-10, 10F, 10FV, 10V H-16, 16F, 16FV, 16V	3576 3558G
	H-20 H-35	3558W-20 3558W

GASKETS • INSULATORS

TORCH	DESCRIPTION	PART NO.
H-10, 10F, 10FV, 10V H-20 	Nozzle O-Ring G/L Gasket	2310-0019 2310-10GLG
H-16, 16F, 16FV, 16V H-35 	Nozzle Gasket G/L Gasket	2310-2051 2310-16GLG

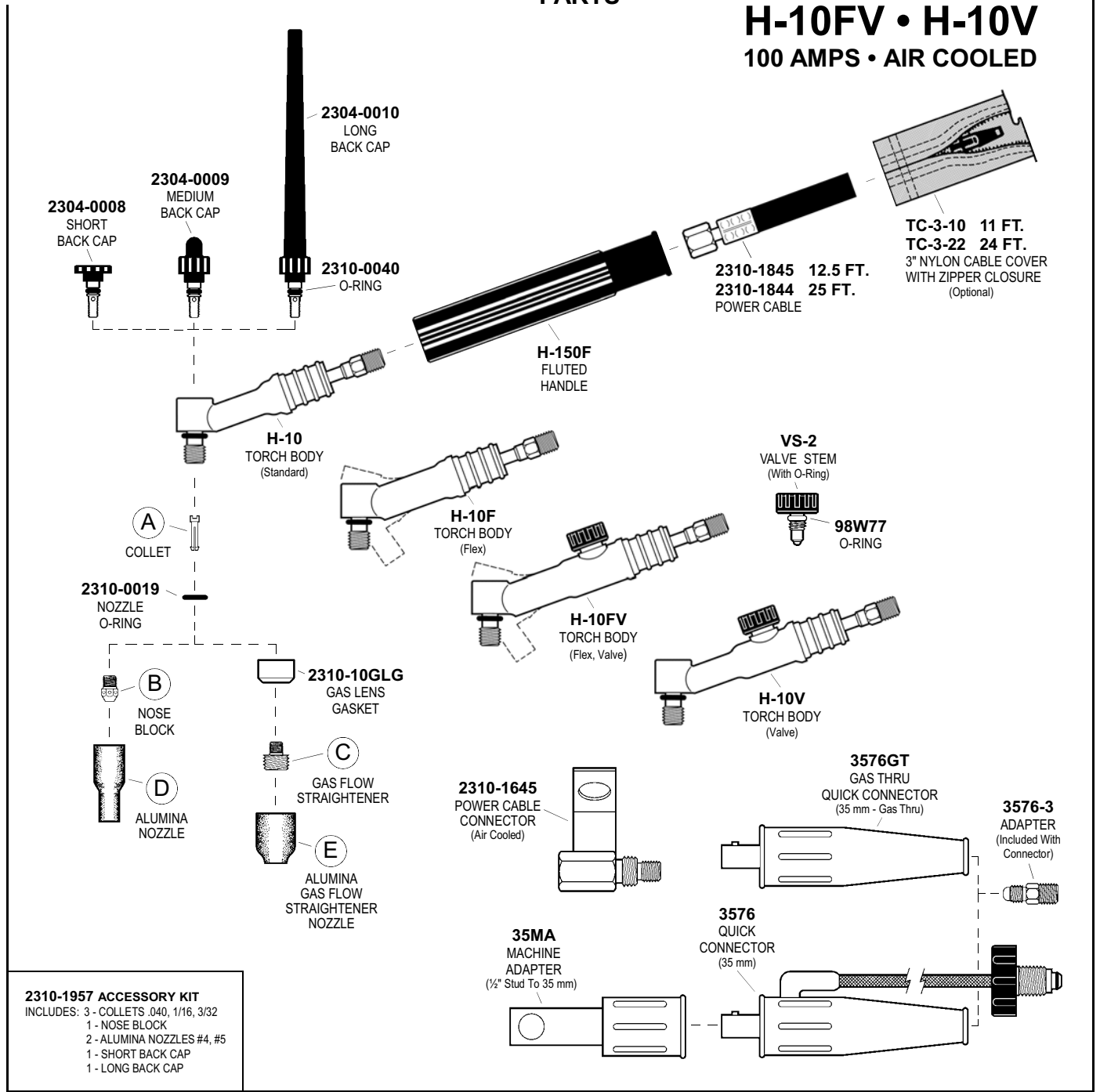
Heliweld II™

TEC Torch Company, Inc.

Heliweld II™

REPLACEMENT PARTS

H-10 • H-10F H-10FV • H-10V 100 AMPS • AIR COOLED



2310-1957 ACCESSORY KIT
 INCLUDES: 3 - COLLETS .040, 1/16, 3/32
 1 - NOSE BLOCK
 2 - ALUMINA NOZZLES #4, #5
 1 - SHORT BACK CAP
 1 - LONG BACK CAP

COLLETS • NOSE BLOCK • GAS STRAIGHTENERS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	2304-0138	2304-0137	2304-0136	2304-0135	2304-0068
B	NOSE BLOCK	2310-1810				
C	GAS FLOW STRAIGHTENER	2304-0187A		2304-0188A	2304-0189A	

GAS NOZZLES

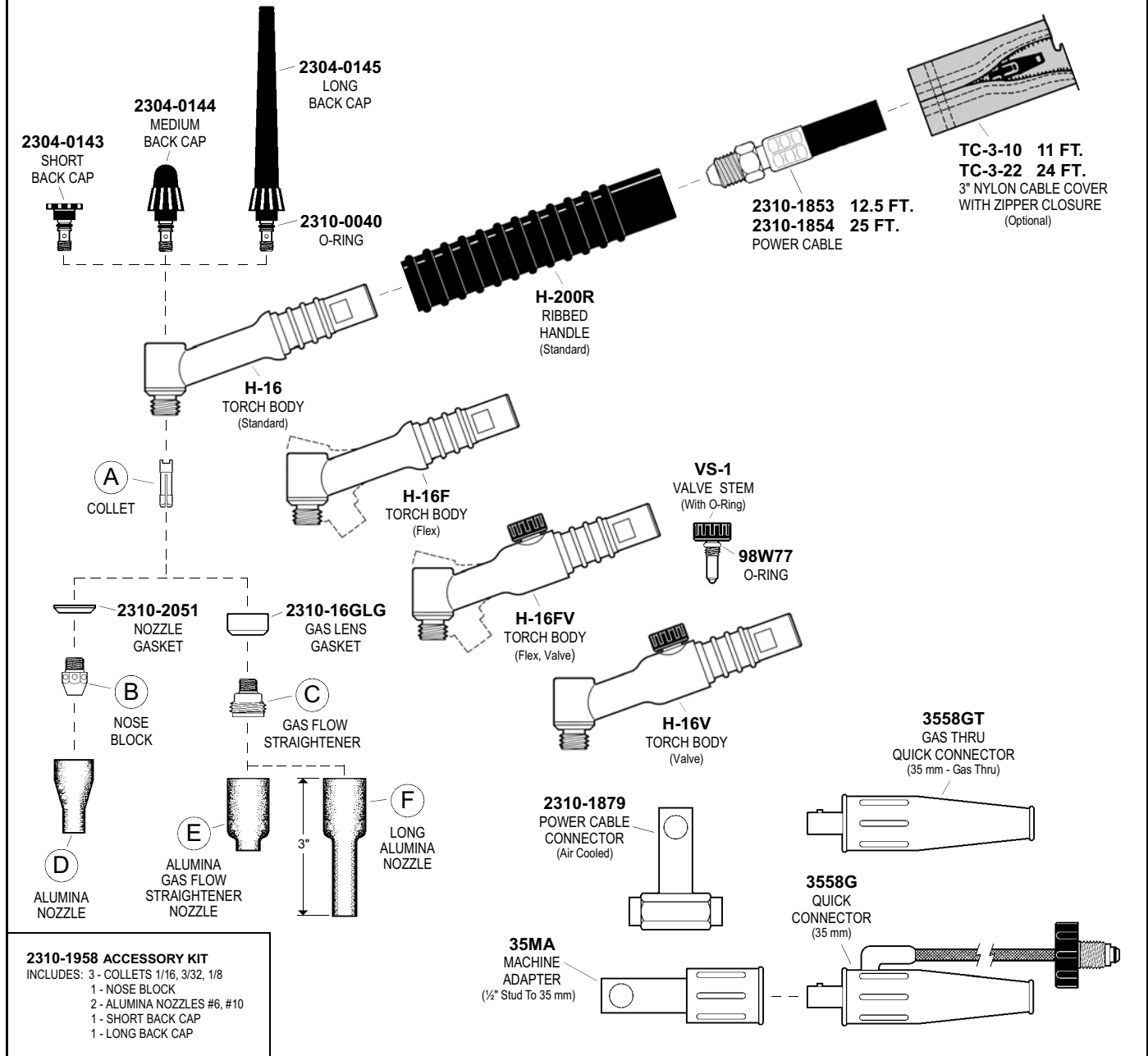
ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"
D	ALUMINA	2304-0069	2304-0070	2304-0073	2304-0074	—
E	ALUMINA	53N58	53N59	53N60	53N61	53N61S

MANUFACTURED IN USA

Heliweld II™

REPLACEMENT PARTS

H-16 • H-16F H-16FV • H-16V 160 AMPS • AIR COOLED



COLLETS • NOSE BLOCK • GAS STRAIGHTENERS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2	5/32 4,0	3/16 4,8
A	COLLET	2304-0086	2304-0087	2304-0088	2304-0089	2304-0090	2304-0091	2304-0146
B	NOSE BLOCK	2310-1938						
C	GAS FLOW STRAIGHTENER	2304-0176A		2304-0177A	2304-0178A	2304-0179A	—	

GAS NOZZLES

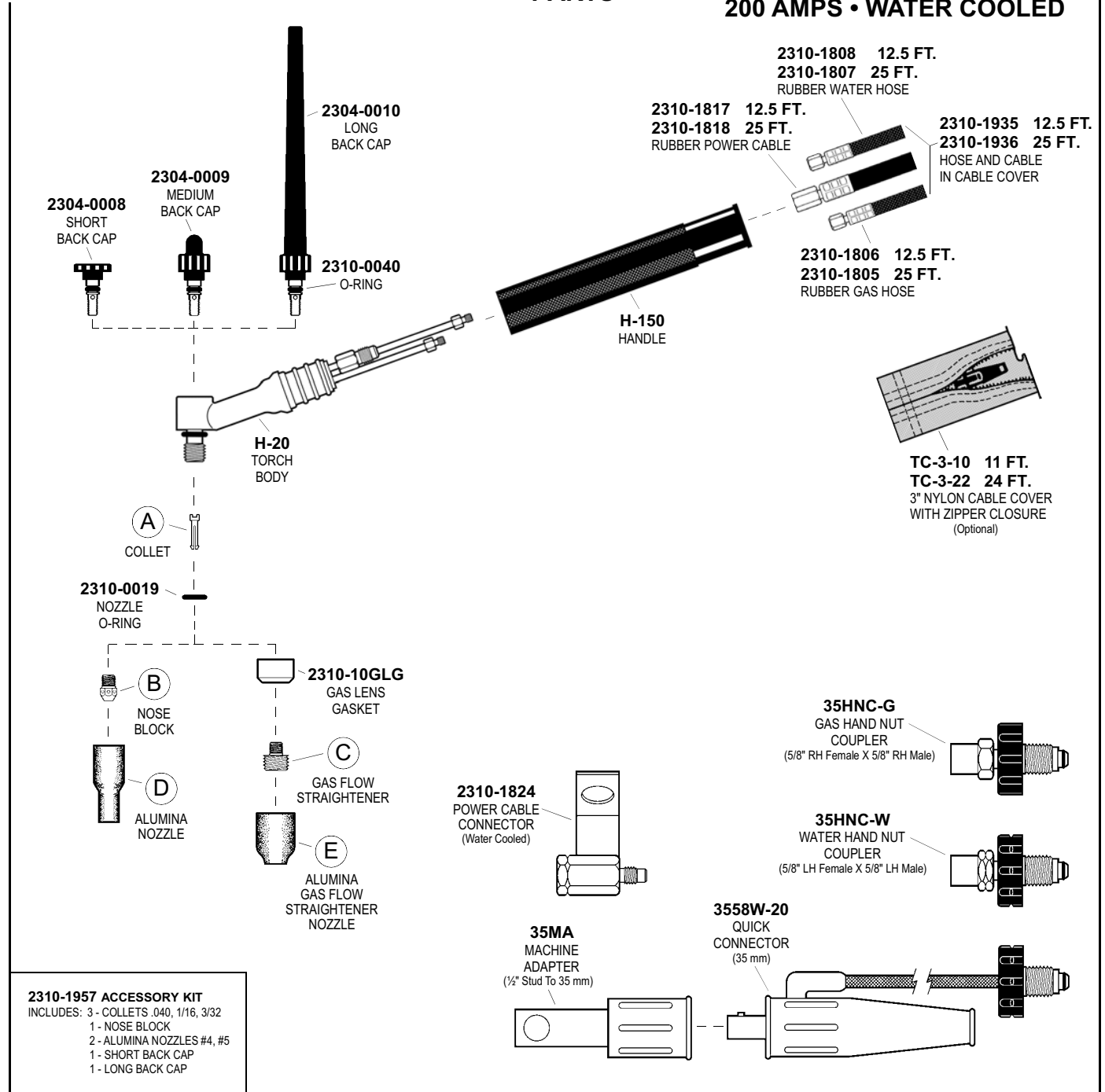
ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"	10 5/8"	11 11/16"
D	ALUMINA	2304-0079	2304-0080	2304-0081	—	2304-0082	2304-0083	—
E	ALUMINA	54N18	54N17	54N16	54N15	54N14	—	54N19
F	LONG ALUMINA 3"	—	54N17L	54N16L	54N15L	54N14L	—	—

MANUFACTURED IN USA

Heliweld II™

REPLACEMENT PARTS

H-20 200 AMPS • WATER COOLED



COLLETS • NOSE BLOCK • GAS STRAIGHTENERS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2
A	COLLET	2304-0138	2304-0137	2304-0136	2304-0135	2304-0068
B	NOSE BLOCK	2310-1810				
C	GAS FLOW STRAIGHTENER	2304-0187A		2304-0188A	2304-0189A	

GAS NOZZLES

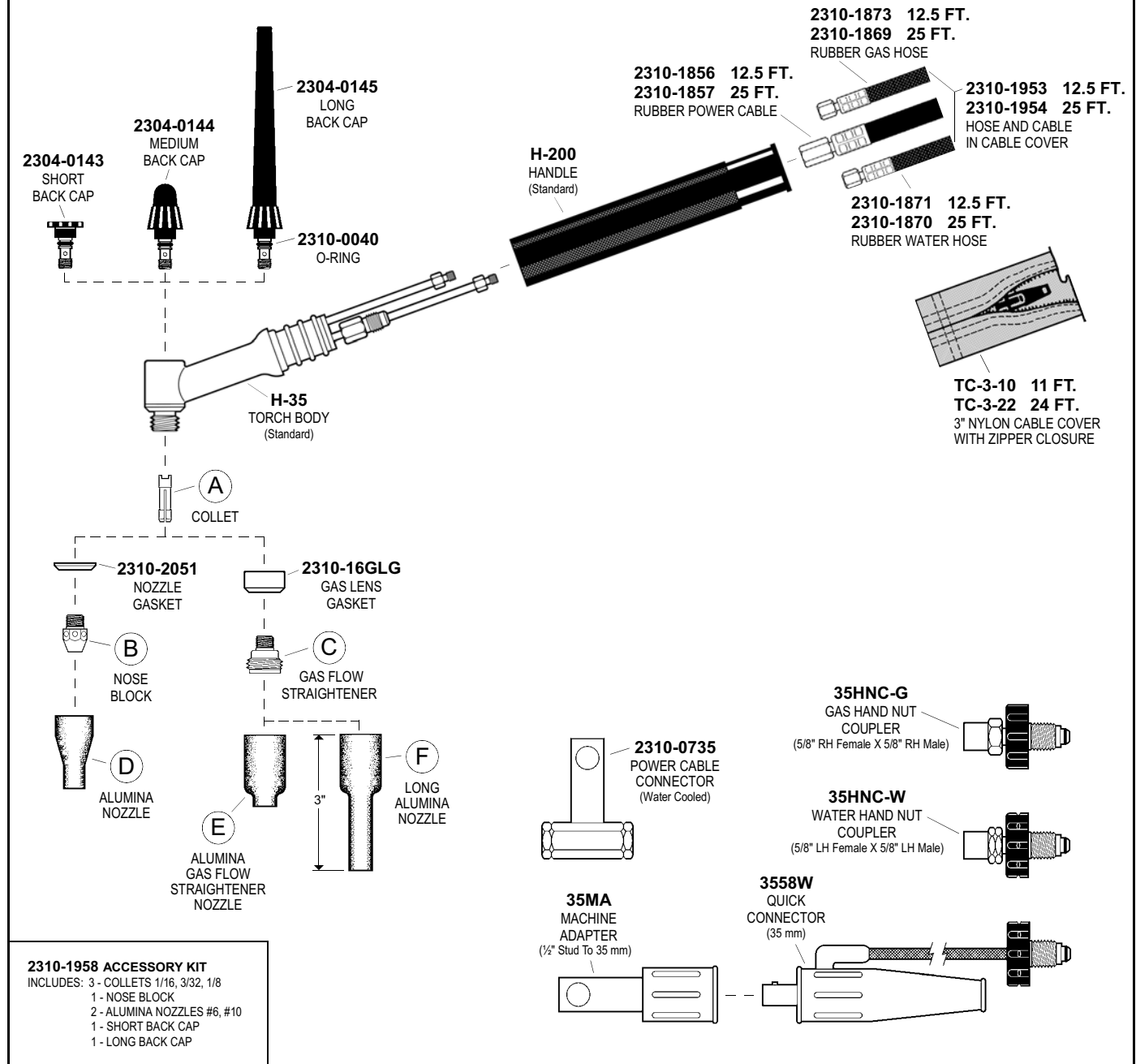
ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 1/2"
D	ALUMINA	2304-0069	2304-0070	2304-0073	2304-0074	—
E	ALUMINA	53N58	53N59	53N60	53N61	53N61S

MANUFACTURED IN USA

Heliweld II™

REPLACEMENT PARTS

H-35 350 AMPS • WATER COOLED



COLLETS • NOSE BLOCK • GAS STRAIGHTENERS

ITEM	ELECTRODE DIAMETER	.020 0,5	.040 1,0	1/16 1,6	3/32 2,4	1/8 3,2	5/32 4,0	3/16 4,8
A	COLLET	2304-0086	2304-0087	2304-0088	2304-0089	2304-0090	2304-0091	2304-0146
B	NOSE BLOCK	2310-1938						
C	GAS FLOW STRAIGHTENER	2304-0176A			2304-0177A	2304-0178A	2304-0179A	—

GAS NOZZLES

ITEM	NO. SIZE	4 1/4"	5 5/16"	6 3/8"	7 7/16"	8 7/8"	10 5/8"	11 11/16"
D	ALUMINA	2304-0079	2304-0080	2304-0081	—	2304-0082	2304-0083	—
E	ALUMINA	54N18	54N17	54N16	54N15	54N14	—	54N19
F	LONG ALUMINA 3"	—	54N17L	54N16L	54N15L	54N14L	—	—

MANUFACTURED IN USA

WeldTec®

**bullet
proof. . .**

. . . that's the only way to describe WeldTec's new Overcoat™ leather cable covers.



These unique patented two-piece protective covers are made using a “bullet proof” cowhide leather main cover and a glove soft leather extension cover. They are designed specifically to bundle and protect the expensive hoses and cables used on TIG torches, MIG guns and plasma torches.

The cowhide leather cover will take the abuse of being dragged on the shop floor, over the weld fixture and even over sharp edges on the workpiece. It is not affected by sparks, spatter, flames, heat or cold and is closed with a “bullet proof” Velcro® closure that will not arc-out or melt and is double stitched with heat resistant Kevlar® thread for durability.

The 6 foot glove soft leather extension cover is fitted with a non-conductive zipper closure and extends from the cowhide cover up to the TIG torch handle giving the operator a light weight, highly flexible protective cover at the torch end. The softer extension cover resists burns, tears, cuts and does not pickup grinding burrs. The two covers can easily be replaced separately if needed.

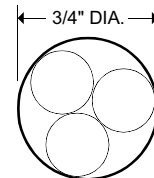
These protective covers will pay for themselves many times over in reduced cable/hose replacement costs and reduced down time.

Complete 2 Pc. Sets

Part Number	Description	Torch Length
TOC-12	12 ft. Overcoat® Leather Cable Cover Set	12 ½ ft.
TOC-24	24 ft. Overcoat® Leather Cable Cover Set	25 ft.

Individual Cover Segments

Part Number	Description	Torch Length
TOC-6P	6 ft. Pigskin Leather Cable Cover	12 ½ & 25 ft.
TOC-6CH	6 ft. Cowhide Leather Cable Cover	12 ½ ft.
TOC-18CH	18 ft. Cowhide Leather Cable Cover	25 ft.



Cover bundles up to 3/4" diameter.



WeldTec® - “where quality and innovation never ends”

Specifications subject to change without notice.

WeldTec® Cable Covers

Type	Description	Torch Length	Width	Length	Zipper	Velcro
 <p>This soft & supple leather cover is burn, spatter, tear and abrasion resistant.</p>	Premium Leather	12 ½ Ft. 25 Ft.	3" 3"	11 Ft. 24 Ft.	TCL-3-10Z TCL-3-22Z	TCL-3-10V TCL-3-22V
 <p>Traditional woven nylon cover. Soft, flexible and lightweight. Good abrasion and tear resistance.</p>	Black Nylon	12 ½ Ft. 25 Ft. 12 ½ Ft. 25 Ft.	3" 3" 4" 4"	11 Ft. 24 Ft. 11 Ft. 24 Ft.	TC-3-10Z TC-3-22Z TC-4-10Z TC-4-22Z	TC-3-10V TC-3-22V TC-4-10V TC-4-22V
 <p>Bright visible color. Soft lightweight with good tear and abrasion resistance.</p>	Safety Orange Nylon	12 ½ Ft. 25 Ft.	3" 3"	11 Ft. 24 Ft.	TCO-3-10Z TCO-3-22Z	TCO-3-10V TCO-3-22V
 <p>Bright visible color. Soft lightweight with good tear and abrasion resistance.</p>	Optic Yellow	12 ½ Ft. 25 Ft.	3" 3"	11 Ft. 24 Ft.	TCY-3-10Z TCY-3-22Z	TCY-3-10V TCY-3-22V

Wide Choice of Materials

WeldTec cable covers are available in two types of materials: glove-soft leather and soft woven nylon. Each type of material offers bundling and protection for the expensive torch cable and hoses.

Double Stitched Construction

Careful workmanship insures long life with double stitching of the closure. Cover ends are fused to resist fraying and ty-straps are provided to secure the cover to the torch handle.

Non-conductive Zipper or Velcro Closure

The full length closure allows installation of the cover without removing the torch from the welding machine. The non-conductive zipper will not conduct "HF" current and is protected from hot metal contact by the overlap flap construction. Velcro closure is not affected by burn or melt spots.

Standard Sizes

3" wide up to 3/4" diameter bundle and 4" wide up to 1 1/4" diameter bundle. Special sizes and lengths are available on special order.

Introducing...

The Quickest and Easiest Way To Prepare Tungsten Electrodes

- Quick & easy setup and operation saves time, eliminates hassles.
- Consistently & properly ground electrodes provide optimum, repeatable welding results.
- Manufactured in America, so expert service and spare parts are available immediately.
- Proper diamond cutting eliminates risk of electrode splintering & weld rejections.



STEP 1
DIAMOND GROUND FLAT



Produces a diamond ground flat at the tip of the electrode.

STEP 2
DIAMOND GROUND TAPER

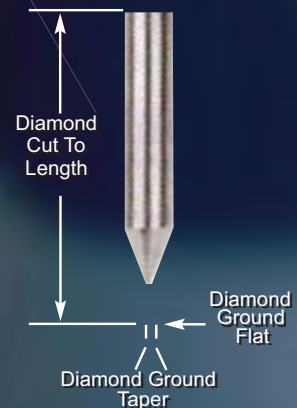


Produces a longitudinally ground taper with a 20RMS finish and a $\pm 1/2^\circ$ angle tolerance.

STEP 3
DIAMOND CUT-TO-LENGTH



Produces smooth diamond cut electrodes on a selectable length scale.



DGP-1

- Our most economical grinder.
- Accomplishes process steps 1 & 2: Flat and Taper grinding
- For welders who regrind but don't cut, this product provides an all-purpose wheel on the left instead of the cutting apparatus.

DGP-2

- A complete system that includes diamond grinding and cutting wheels to accomplish all electrode preparation steps.
- Cutting apparatus includes adjustable stop and scale to allow users to cut as short as .200" (3mm).

DGP-3

- A complete system that includes diamond grinding and cutting wheels to accomplish all electrode preparation steps.
- Cutting apparatus includes built-in micrometer indexer for quick and very accurate cuts of different lengths as short as .200" (3mm).

ACCESSORIES

- Vacuum system in insulated cabinet for dust collection.
- Short collets for grinding short electrodes.
- Flexible spotlight.
- Pre-wired and integrated 220v step down transformer. (If required)

FEATURES

- No tools required for setup or collet changes.
- Flat, grind and cut most electrodes in 60 seconds or less.
- Long life, high-quality diamond wheels that are perfect for grinding tungsten.
- Fine, longitudinal finish on taper grinding to improve arc stability, starting and consistency.
- Taper angle adjustable from 6°-120° with a tolerance of +/- .5°.
- Collets available to grind electrodes for .020" to 3/16" (.5mm-4.8mm) diameter.

APPLICATIONS

Mechanized / Automatic TIG & Plasma Welding
 Manual TIG & Plasma Welding
 Orbital Tube & Pipe Welding

SPECIFICATIONS**DGP Grinders**

Dimensions:	21.5"(L) x 12"(D) x 12"(H) 564mm x 305mm x 305mm
Weight:	27.2 lbs. / 12.3 kg
Voltage:	115 VAC, 60 Hz, or 220 VAC, 50 Hz option.
Amperage:	5.0 Amps

DGP Grinders with Vacuum Cabinet

Dimensions:	26"(L) x 20"(D) x 44"(H) 660mm x 508mm x 1,118mm
Weight:	102 lbs. / 46.4 kg
Voltage:	115 VAC, 60 Hz, or 220 VAC, 50 Hz option.
Amperage:	13.5 Amps

Piranha II

- Compact/precision tungsten grinder .040"-3/32" (1.0-2.4mm).

Piranha III

- Heavy duty dedicated tungsten grinder designed for continuous grinding of .040"-3/16" (1.0mm-4.8mm).

Pre Ground Electrodes

- CNC manufactured high tolerance electrodes for orbital and automatic tig and plasma welding.

Premium Tungsten

- Thoriated, Lanthanated, Ceriated, Zirconiated, Tri-mix[®], Pure and specialty materials.

PIRANHA II

TUNGSTEN ELECTRODE GRINDER
SAFE • COMPACT • AFFORDABLE



Why Use A Dedicated Tungsten Grinder?

Safety

Enclosed grinding area captures Tungsten dust for easy disposal.

Weld Quality

20 Ra surface finish improves Tungsten life, arc starting, arc stability and produces consistent weld penetration.

Productivity

Correctly and consistently Diamond grind your Tungsten Electrode longitudinally, in less than 30 seconds.

Value

The PIRANHA II Diamond grinds, flats and notches your Tungsten economically.

DIAMOND GROUND PRODUCTS

Visit our web site: www.diamondground.com

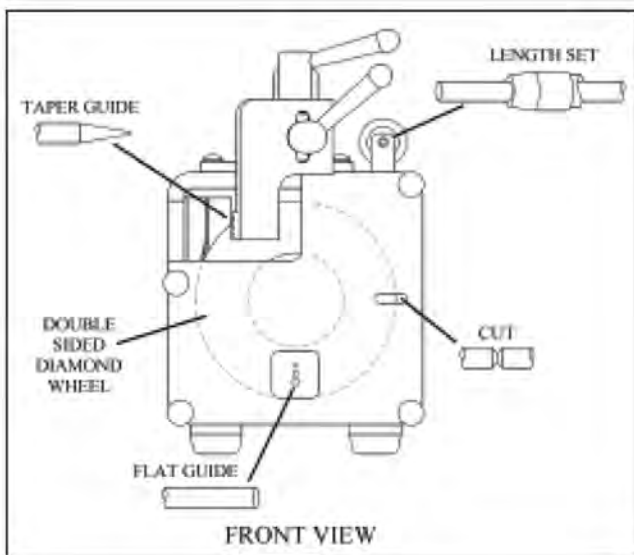
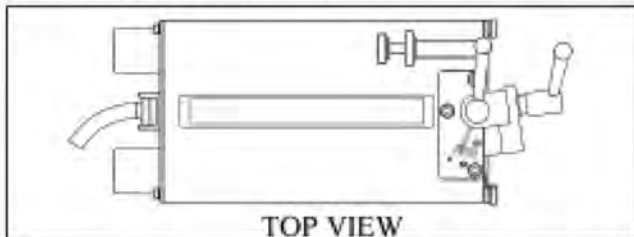


PIRANHA II

Tungsten Electrode Grinder

FEATURES

- Easy set-up, optimal consistency and near-perfect repeatability.
- Compact, durable and solid design with no vibration.
- Longitudinal 20 RA grinding for maximum arc starting, arc stability, electrode life and weld penetration.
- Universal collet arm for 3 electrode sizes - .040" (1.0mm), 1/16" (1.6mm), 3/32" (2.4mm) - with no equipment changes.
- Included angle scale for angles from 10° - 60°
- Precision tip flat gauge & depth adjustment stop ensures exact tungsten points every time - enabling consistent, repeatable arc performance and welding output.
- Containment baffle to keep dust inside the grinder housing, for safety and easy disposal.
- Tip flat block for square end grinding and removing bad tips.
- Electrode notching station for simple cut-off.
- Double-sided grinding wheel for maximum wheel life and value.
- Detailed manual for valuable engineering data and welding recommendations.



ADDITIONAL PRODUCTS

- Full feature Precision Tungsten Grinders: These high precision, heavy duty grinders provide additional features for improved grinding accuracy and can precisely cut electrodes to length.
- CNC Pre-Ground Electrodes: Eliminates operator grinding variables. The quality and consistency of CNC Pre-Ground Electrodes improve arc starting and arc stability. They offer consistent weld penetration and longer electrode life. Tungsten shedding and associated weld inclusions have been virtually eliminated.

SPECIFICATIONS

- Range of Included Angle: 10° - 60°
- Electrode Diameters: .040" (1.0mm), 1/16" (1.6mm), 3/32" (2.4mm)
- Minimum Electrode Length: 1.75" (44.5mm)
- Voltage: 100/120 VAC, 50/60Hz, 220v
- Power Consumption: 70 Watts
- Motor: 1/10 hp, 8000rpm, 1.5 amps
- Length: 7.8" (199mm)
- Width: 4.0" (102mm)
- Height: 6.1" (155mm)
- Weight: 12 lbs (5.45kg)

BENEFITS

- **Safety:** Enclosed grinding area captures Tungsten dust for easy disposal.
- **Weld Quality:** 20 Ra surface finish improves Tungsten life, arc starting, arc stability and produces consistent weld penetration.
- **Productivity:** Longitudinally Diamond grind your Tungsten electrode in less than 30 seconds correctly and consistently.
- **Value:** The PIRANHA II Diamond grinds, flats and notches your Tungsten economically.

DIAMOND GROUND PRODUCTS, INC.



PIRANHA III

TUNGSTEN ELECTRODE GRINDER

SAFE • COMPACT • AFFORDABLE



HEAVY DUTY DEDICATED TUNGSTEN GRINDER
 DESIGNED FOR CONTINUOUS GRINDING OF .040" TO 3/16" (1.0 MM -4.8 MM)

Safety

Enclosed grinding area captures Tungsten dust for easy disposal.

Weld Quality

20 Ra surface finish improves Tungsten life, arc starting, arc stability and produces consistent weld penetration.

Productivity

Correctly and consistently Diamond grind your Tungsten Electrode longitudinally, in less than 30 seconds.

Value

The PIRANHA III Diamond grinds, flats and notches your Tungsten economically.

DIAMOND GROUND PRODUCTS

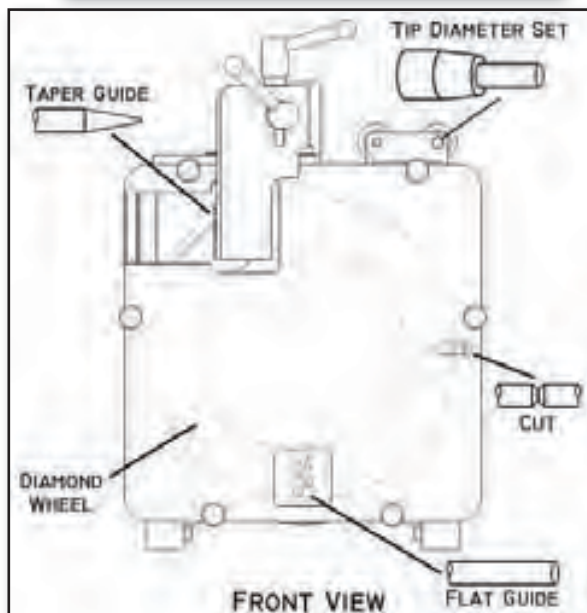
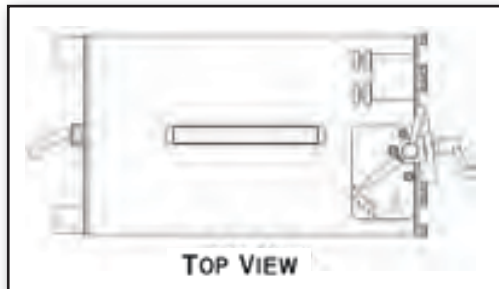


PIRANHA III

Tungsten Electrode Grinder

FEATURES

- Easy set-up, optimal consistency and near-perfect repeatability.
- Compact, durable and solid design with no vibration.
- Longitudinal 20 RA grinding for maximum arc starting, arc stability, electrode life & weld penetration.
- Universal collet arm for 6 electrode sizes - .040" (1.0mm), 1/16" (1.6mm), 3/32" (2.4mm), 1/8" (3.2mm), 5/32" (4.0mm) & 3/16" (4.8mm) - with no equipment changes.
- Included angle scale for angles from 10° - 60°
- Precision tip flat gauge & depth adjustment stop ensures exact tungsten points every time - enabling consistent, repeatable arc performance and welding output.
- Containment baffle to keep dust inside the grinder housing, for safety and easy disposal.
- Tip flat block for square end grinding and removing bad tips.
- Electrode notching station for simple cut-off.
- Detailed manual for valuable engineering data and welding recommendations.



ADDITIONAL PRODUCTS

- Piranha II - Compact/Precision tungsten grinder .040"- 3/32" (1.0 - 2.4mm).
- DGP-II - Full feature tungsten grinder that grinds, flats and precisely cuts the tungsten to a precise length.
- Pre Ground Electrodes - CNC manufactured high tolerance electrodes for Orbital and Automatic Tig and Plasma welding.
- Premium Tungsten - Thoriated, Lanthanated, Ceriated, Zirconiated, Tri-Mix(tm), Cryo-T, Pure & specialty materials.

SPECIFICATIONS

Range of Included Angle:	10° - 60°
Electrode Diameters:	.040" (1.0mm), 1/16" (1.6mm), 3/32" (2.4mm), 1/8" (3.2mm), 5/32" (4.0mm) & 3/16" (4.8mm)
Minimum Electrode Length:	1.75" (44.5mm)
Voltage:	100/120 VAC, 50/60Hz, 220v
Power Consumption:	500 Watts
Motor:	1/10 hp, 3000rpm, 2.5 amps
Length:	13.5" (342mm)
Width:	7.0" (177mm)
Height:	9.5" (240mm)
Weight:	46 lbs (20.87kg)

BENEFITS

- Safety: Enclosed grinding area captures Tungsten dust for easy disposal.
- Weld Quality: 20 Ra surface finish improves Tungsten life, arc starting, arc stability and produces consistent weld penetration.
- Productivity: Longitudinally Diamond grind your Tungsten electrode in less than 30 seconds correctly and consistently.
- Value: The PIRANHA III Diamond grinds, flats and notches your Tungsten economically.

Tungsten Welding Electrodes

“Gas Tungsten Arc Welding” - GTAW - frequently called “Tungsten Inert Gas Welding” - TIG - is used to weld any commercial metal, but most frequently is employed in joining aluminum alloys, copper, magnesium, stainless steel and titanium.

Tungsten welding electrodes which are used in combination with an inert gas, usually argon or helium, in a welding process which prevents contamination from oxygen and nitrogen, thus providing a strong, ductile, homogeneous weld.

The tungsten welding electrode itself is non-consumable and is used merely as the terminal of the electric arc which produces the desired heat necessary to accomplish the joining of the metal. Filler metal may sometimes be required depending on base metal thickness, joint design and weld characteristics which are desired.

Tungsten Electrodes are of the highest quality and exceed AWS Standard A5.12-80 (Former ASTM Standard B297-.65T).

Ceriated Tungsten (Non-Radioactive)

• Good arc striking • Excellent arc stability • Low electrode consumption • Ceriated tungsten eliminates the problem of disposal of grinding dust and end pieces of thoriated electrodes. Ceriated electrodes can be used in a wide range of applications and are ideally suited to the welding of stainless and hot working steels, aluminum, nickel and nickel based alloys (super alloys), copper, refractory metals, titanium & titanium alloys and magnesium. Companies in both manual and automatic welding can now profit from the benefits outlined above. Take advantage of the new development.

Lanthanated Tungsten (Non-Radioactive)

• A new development in tungsten • Best results in electrode life, starting, amperage range, up to 10 times longer life, does not splinter or split. Stays clean longer. Holds its point much longer. More actual welding time. No more stocking of different electrode types (pure, thoriated, zirconiated, ceriated). Lanthanated tungsten does it all.

Pure Tungsten and 2% Thoriated Tungsten Electrodes are still available

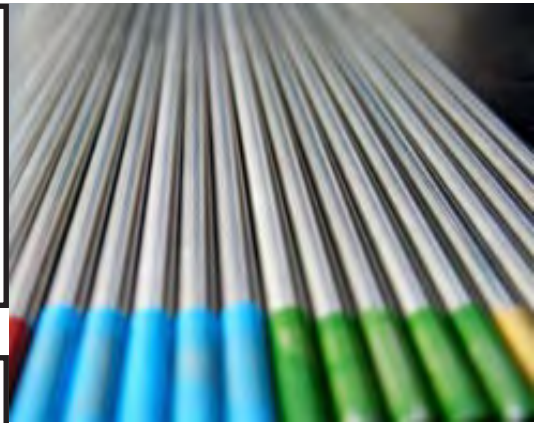
Colour Codes for Tungsten

Pure	-	Green
1% Thoriated	-	Yellow
2% Thoriated	-	Red
Zircon	-	Brown
2% Ceriated	-	Grey
1% Lanthanated	-	Black

**See Page 154 for
Ordering Information**

1.5% LANTHANATED Tungsten Electrodes

The Best Tungsten Available Today



Environmentally Friendly!

SAVE MONEY - SAVE TIME - BETTER QUALITY
Plus these advantages versus Thoriated and other Tungsten

- Higher amperage capacity, use smaller diameter
- Excellent starting characteristics with any starting method
- Same favourable characteristics with AC or DC
- Stable arc over entire amperage range
- No more stocking of different electrode types (pure, thoriated, zirconiated, ceriated)
- **Not Radioactive**
- Up to 10 times longer life
- Doesn't splinter or split
- Electrode stays clean longer
- Holds its point much longer
- More actual welding with less time used for preparation

**Safety
Note**

ELIMINATE RADIOACTIVE TUNGSTENS FROM THE WORK PLACE

The American Welding Society (A.W.S.) May-1994 Commission VIII issued a statement on health aspects in the use of Thoriated Tungsten Electrodes. Thorium is a low-level radioactive material that the A.W.S. determined could present a long-term health hazard if ingested or inhaled in sufficient quantities. During the grinding of electrode tips there is generation of radioactive dust, with the risk of internal exposure.

A.W.S. Recommendation: substitution of other emitters such as cerium and lanthanum to replace thorium should be considered.

In response to this commission, our factory developed electrodes with new additives: we first tried Cerium, respectively Cerium Oxide (known as Ceriated Tungsten). We were able to avoid radioactivity and we also noticed much better performance. After further research and development with tests on other Rare Earth Oxides, like Yttrium and Lanthanum Oxide, Lanthanum produced the best results in electrode life, starting, amperage range, etc. Less resistance and better oxide distribution in our Electrodes provide the basis for best performance. Many reputable companies have evaluated Lanthanated and found major improvements in performance, elimination of health and safety hazards, and because of longer life, they found them to be much more economical.

Thoriated Tungsten Radioactivity Information

Thorium is a radioactive alloy used in tungsten welding electrodes to assist in arc starting. Although companies involved in welding have been using thoriated electrodes for many years, the industry is becoming more mindful of their potential health hazards. The following are notes, warnings, and recommendations from various organizations on the use of thoriated tungsten welding electrodes.



Standard Manufacturer's Warning: Thorium oxide is a naturally occurring radioactive element. It is an alpha emitter and as such, its primary hazard lies in inhalation of dust/fumes.



American Welding Society: Thoria is a very low level radioactive material. For the amount of thoria present in these electrodes, the level of radiation has not been found to represent a health hazard. However, if welding is to be performed in confined spaces for prolonged periods of time or if electrode grinding dust might be ingested, special precautions relative to ventilation should be considered. The user should consult appropriate safety personnel.



The Welding Institute: Thorium is a radioactive element. The HSE has recommended to factory inspectors that, where thoriated tungsten electrodes are not necessary, users should be encouraged to look for alternatives.



N.T.P. and I.A.R.C. Assessment: Thorium dioxide has been identified as a carcinogen by the National Toxicology Program and International Agency for Research on Cancer.

LENCO OFFERS TUNGSTEN ALTERNATIVES

Lenco offers Non-Radioactive Ceriated and Lanthanated Tungsten which is readily available and affordably priced. In most welding applications, this type of tungsten also outperforms thorium by a large margin.

Call, Fax Toll Free or Email

Phone 1-800-265-5678 • Fax 1-800-668-3626 • sales@lencocanada.com

Tungsten Selection Chart

Finish

The electrodes are free of surface impurities, undesirable films, foreign inclusions, pipes, seams or slivers in order to assure correct operation of welding equipment with no adverse properties in weld deposits.

All electrodes are produced to rigid standards

of straightness so they may be adjusted freely in use; each electrode is colour coded according to AWS specifications.

Ground finish designates that a tungsten electrode has been cleaned of impurities after it has been centerless ground to a uniform size.

Pure Tungsten Ground

Part No.	Length	Size
10G7	7"	1/16" .060"
10G7	7"	3/32" .093"
10G7	7"	1/8" .125"
10G7	7"	5/32" .156"
10G7	7"	1/4" .250"

1% Thoriated Tungsten Ground

Part No.	Length	Size
20G7	7"	1/16" .060"
20G7	7"	3/32" .093"
20G7	7"	1/8" .125"
20G7	7"	1/4" .250"

2% Thoriated Tungsten Ground

Part No.	Length	Size
30G7	7"	.040" .040"
30G7	7"	1/16" .060"
30G7	7"	3/32" .093"
30G7	7"	1/8" .125"
30G7	7"	3/16" .187"

Zirconiated Tungsten Ground

Part No.	Length	Size
40G7	7"	1/16" .060"
40G7	7"	3/32" .093"
40G7	7"	1/8" .125"
40G7	7"	1/4" .250"

2% Ceriated Tungsten Ground

Part No.	Length	Size
50G7	7"	.040" .040"
50G7	7"	1/16" .060"
50G7	7"	3/32" .093"
50G7	7"	1/8" .125"
50G7	7"	5/32" .156"
50G7	7"	3/16" .187"

2% Lanthanated Tungsten Ground

Part No.	Length	Size
80L7	7"	1/16" .060"
80L7	7"	3/32" .093"
80L7	7"	1/8" .125"

1.5% Lanthanated Tungsten Ground

Part No.	Length	Size
70G7	7"	1/16" .060"
70G7	7"	3/32" .093"
70G7	7"	1/8" .125"
70G7	7"	5/32" .156"

Most sizes are sold in package of 10 tungsten electrodes.

Also Available in 3" and pre-ground by Special Order

ACCESSORY KITS



Part No.	Description	Tungsten	Nozzles	Collet Bodies	Collets	Back Cap
AK-1	Kit for 9, 20, 22, 25 Torches	.040" 1/16"	13N08 13N09 13N10	13N26 13N27	13N21 13N22	41V24
AK-2	Kit for 17, 18, 26 Torches	.040" 1/16" 3/32"	10N50 10N49 10N48	10N30 10N31 10N32	10N22 10N23 10N24	57Y04
AK-3	Kit for 17, 18, 26 Torches	1/16" 3/32" 1/8"	10N49 10N48 10N46	10N30 10N31 10N28	10N22 10N23 10N25	57Y04

REPLACEMENT PARTS FOR USE WITH AIRCO STYLE TORCHES

LAVA NOZZLES FOR AIRCO TORCHES				REPLACEMENT "O" RING	
TORCH TYPE	PART NO.	ORIFICE		PART NO.	DESCRIPTION
H8, H10, H12, H20	1-9/16"	2304-0002 1/4" 2304-0004 5/16" 2304-0049 3/8"		2310-0733	H16, H35
H16A, B	1-5/8"	2304-0079C 1/4" 2304-0080C 5/16" 2304-0081C 3/8" 2304-0082C 1/2" 2304-0083C 5/8"		COLLETS FOR AIRCO TORCHES	
ALUMINA NOZZLES FOR AIRCO TORCHES					
TORCH TYPE	PART NO.	ORIFICE		PART NO.	SIZE
H8, H10 H12, H20	1-9/16"	2304-0069 1/4" 2304-0070 5/16" 2304-0073 3/8" 2304-0074 7/16"		2304-0087	.040
H50	2-1/16"	2304-0075 1/4" 2304-0076 3/8" 2304-0077 1/2" 2304-0078 5/8"		2304-0088	1/16"
H16A, B	1-5/8"	2304-0079 1/4" 2304-0080 5/16" 2304-0081 3/8" 2304-0082 1/2" 2304-0083 5/8"		2304-0089	3/32"
				2304-0090	1/8"
				2304-0091	5/32"
				2304-0087C	.040
				2304-0088C	1/16"
				2304-0089C	3/32"
				2304-0090C	1/8"
				2304-0135C	3/32"
				2304-0136C	1/16"
				2304-0137C	.040
BACK CAPS FOR AIRCO TORCHES					
PART NO.	DESCRIPTION				
2304-0008	2" Back Cap H-10, H-20				
2304-0009	3" Back Cap H-10, H-20				
2304-0010	7" Back Cap H-10, H-20				
2304-0143	2" Back Cap H-16, H-35				
2304-0144	3" Back Cap H-16, H-35				
2304-0145	7" Back Cap H-16, H-35				

For More Airco Style Torches and Accessories, see HELIWELD Torches on pages 137-142.

9 SERIES TORCH

LINDE, L/TEC STYLE



AIR COOLED TIG TORCH WITH HEAVY DUTY RUBBER POWER CABLE, 2 PIECE POWER CABLE OPTIONAL

- Capacity, 125 amps continuous duty
- Weight, less cable 3 oz.
- Electrode capacity, .020-1/8"
- Silicone rubber insulation
- Interchangeable parts with L/Tec, Weldcraft and similar torches
- Quality construction
- Compact and lightweight

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
12½' Packages		25' Packages	
MW9-12R	Torch Package, Rubber Power Cable	MW9-25R	Torch Package, Rubber Power Cable
MW9-12-2	Torch Package, 2pc Power Cable	MW9-25-2	Torch Package, 2 pc Power Cable
Flex Head		Flex Head	
MW9F-12R	Torch Package, Rubber Power Cable	MW9F-25R	Torch Package, Rubber Power Cable
MW9F-12-2	Torch Package, 2pc Power Cable	MW9F-25-2	Torch Package, 2 pc Power Cable
Flex Head and Valve		Flex Head and Valve	
MW9FV-12R	Torch Package, Rubber Power Cable	MW9FV-25R	Torch Package, Rubber Power Cable
MW9FV-12-2	Torch Package, 2 pc Power Cable	MW9FV-25-2	Torch Package, 2pc Power Cable
Valve		Valve	
MW9V-12R	Torch Package, Rubber Power Cable	MW9V-25R	Torch Package, Rubber Power Cable
MW9V-12-2	Torch Package, 2 pc Power Cable	MW9V-25-2	Torch Package, 2pc Power Cable

Torch Packages include: Torch Body, Handle, Medium Back Cap and Power Cable(s).

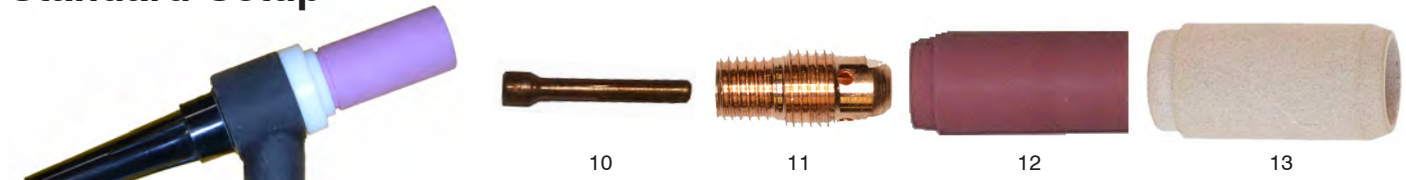


#	PART NO.	DESCRIPTION	#	PART NO.	DESCRIPTION
	MW9	Torch Body	8	MWH-100	Textured handle
	MW9F	Flex Head Torch Body	9	MWH-100R	Ribbed Handle
	MW9FV	Flex Head Torch Body w/ Valve	4	57Y01-2	12½' Power Cable, 2 piece
	MW9V	Torch Body with Valve	4	57Y03-2	25' Power Cable, 2 piece
	598882	Cup Gasket (Standard)	5	57Y01R	12½' Power Cable, Rubber
1	41V33	Short Back Cap	5	57Y03R	25' Power Cable, Rubber
2	41V35	Medium Back Cap	6	105Z57	Power Cable Adapter
3	41V24	Long Back Cap		AK-1	Accessory Kit
	98W77	"O" Ring for Back Cap	7	3-10	Cable Cover for 12½'
	VS-2	Valve Stem	7	3-22	Cable Cover for 25'
	53N06	Threaded Handle			

9 SERIES TORCH

LINDE, L/TEC STYLE

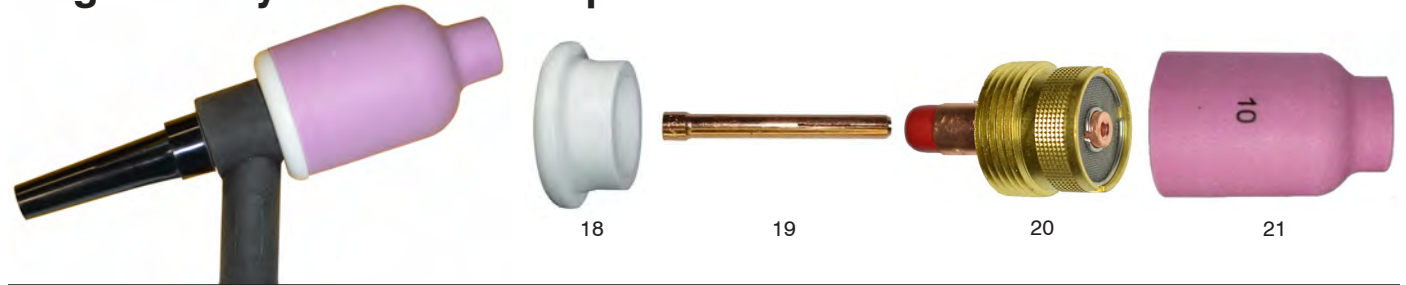
Standard Setup



Small Gas Lens Setup



Large Stubby Gas Lens Setup



#	Electrode Diam. (in.)	.020"	.040"	1/16"	3/32"	1/8"
10	Collet	13N20	13N21	13N22	13N23	13N24
11	Collet Body	13N25	13N26	13N27	13N28	13N29
16	Collet Body Gas Lens	45V41	45V42	45V43	45V44	45V45
19	Collet (Large Gas Lens)	13N20L	13N21L	13N22L	13N23L	13N24L
20	Large Gas Lens	45V0204S	45V0204S	45V116S	45V64S	995795S
18	Insulator Large Gas Lens	54N63-20	54N63-20	54N63-20	54N63-20	54N63-20

#	Cup No.	3 (3/16")	4 (1/4")	5 (5/16")	6 (3/8")	7 (3/32")	8 (1/2")	10 (5/32")
13	Lava Nozzle	-	13N14	13N15	13N16	13N17	13N18	13N19
14	Alumina 1-7/8" Long	796F70	796F71	796F72	796F73	-	-	-
15	Alumina 2-1/2" Long	796F74	796F75	796F76	796F77	-	-	-
12	Alumina	-	13N08	13N09	13N10	13N11	13N12	13N13
17	Alumina Gas Lens	-	53N58	53N59	53N60	53N61	53N61S	-
21	Alumina Nozzle Lg Lens	-	-	-	57N75	57N74	53N88	-
							12 (3/4")	53N87
							15 (15/16")	53N89

17 SERIES TORCH

LINDE, L/TEC STYLE

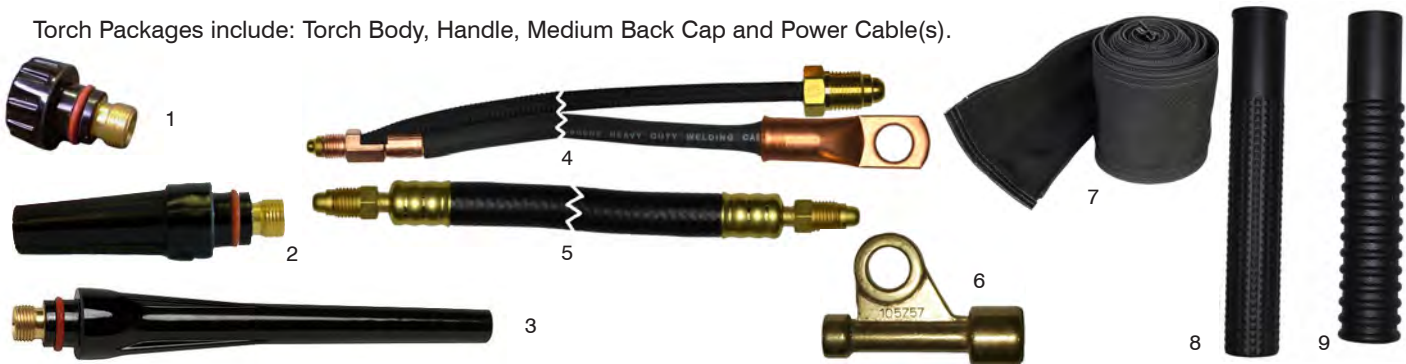


AIR COOLED TIG TORCH WITH HEAVY DUTY RUBBER POWER CABLE, 2 PIECE POWER CABLE OPTIONAL

- Capacity, 150 amps continuous duty
- Weight, less cable 3 oz.
- Electrode capacity, .020-5/32"
- Silicone rubber insulation
- Interchangeable parts with L/Tec, Weldcraft and similar torches
- Quality construction
- Compact and lightweight

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
12½' Packages		25' Packages	
MW17-12R	Torch Package, Rubber Power Cable	MW17-25R	Torch Package, Rubber Power Cable
MW17-12-2	Torch Package, 2pc Power Cable	MW17-25-2	Torch Package, 2 pc Power Cable
Flex Head		Flex Head	
MW17F-12R	Torch Package, Rubber Power Cable	MW17F-25R	Torch Package, Rubber Power Cable
MW17F-12-2	Torch Package, 2pc Power Cable	MW17F-25-2	Torch Package, 2 pc Power Cable
Flex Head and Valve		Flex Head and Valve	
MW17FV-12R	Torch Package, Rubber Power Cable	MW17FV-25R	Torch Package, Rubber Power Cable
MW17FV-12-2	Torch Package, 2 pc Power Cable	MW17FV-25-2	Torch Package, 2pc Power Cable
Valve		Valve	
MW17V-12R	Torch Package, Rubber Power Cable	MW17V-25R	Torch Package, Rubber Power Cable
MW17V-12-2	Torch Package, 2 pc Power Cable	MW17V-25-2	Torch Package, 2pc Power Cable

Torch Packages include: Torch Body, Handle, Medium Back Cap and Power Cable(s).

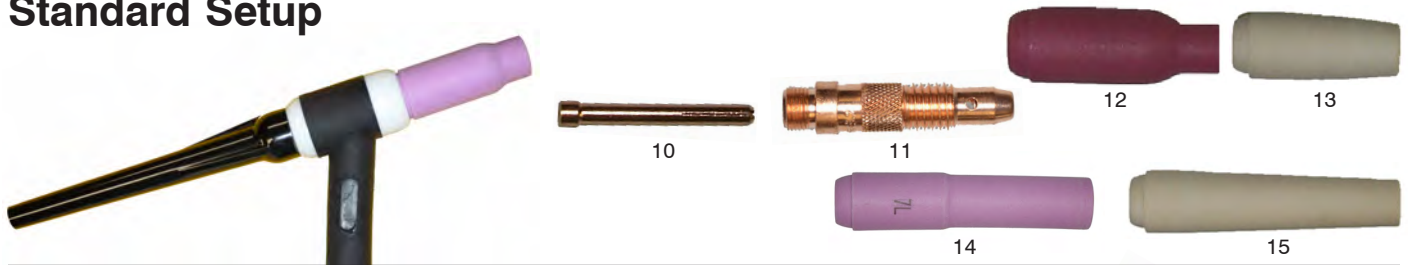


#	PART NO.	DESCRIPTION	#	PART NO.	DESCRIPTION
	MW17	Torch Body		VS-2	Valve Stem
	MW17F	Flex Head Torch Body		105Z55	Threaded Handle
	MW17FV	Flex Head Torch Body w/ Valve	8	MWH-100	Textured handle
	MW17V	Torch Body with Valve	9	MWH-100R	Ribbed Handle
	MW18-7	Insulator	4	57Y01-2	12½' Power Cable, 2 piece
	MW18-CG	Cup Gasket (Standard)	4	57Y03-2	25' Power Cable, 2 piece
16	54N01	Gas Lens Insulator	5	57Y01R	12½' Power Cable, Rubber
21	54N63	Large Gas Lens Insulator	5	57Y03R	25' Power Cable, Rubber
24	MW18CG20	Stubby Gasket Insulator	6	105Z57	Power Cable Adapter
1	57Y04	Short Back Cap		AK-2	Accessory Kit
2	300M	Medium Back Cap	7	3-10	Cable Cover for 12½'
3	57Y02	Long Back Cap	7	3-22	Cable Cover for 25'
	98W18	"O" Ring for Back Cap			

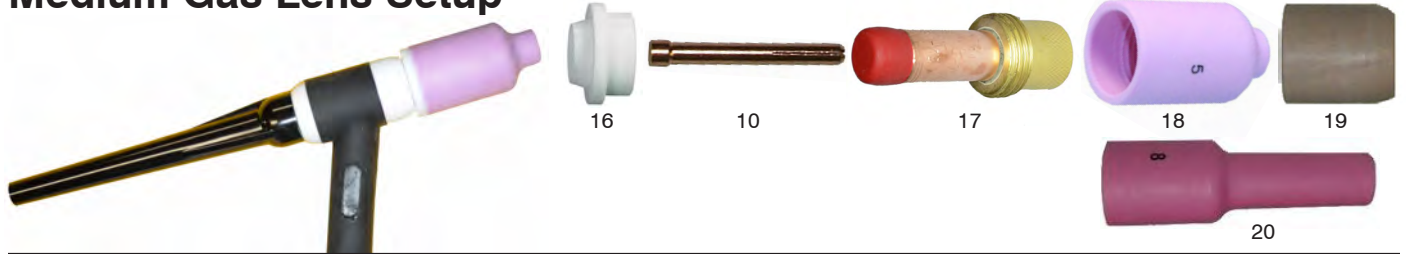
17 SERIES TORCH

LINDE, L/TEC STYLE

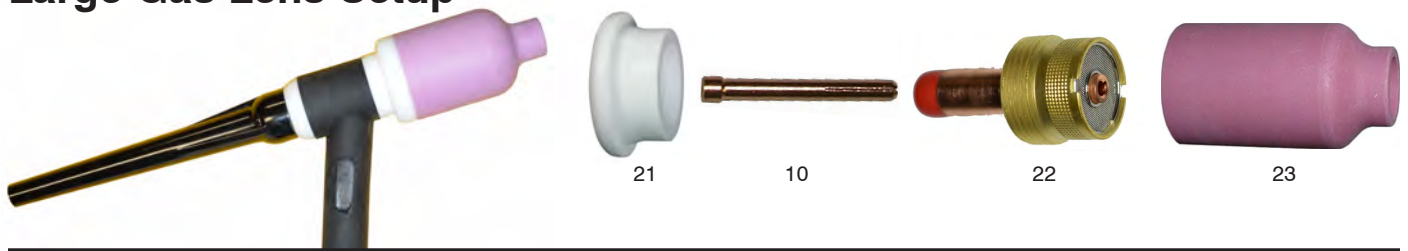
Standard Setup



Medium Gas Lens Setup



Large Gas Lens Setup



Stubby Collet Body Setup



#	Electrode Diam. (in.)	.020"	.040"	1/16"	3/32"	1/8"	5/32"
10	Collet	10N21	10N22	10N23	10N24	10N25	54N20
11	Collet Body	10N29	10N30	10N31	10N32	10N28	406488
17	Collet Body Gas Lens	45V29	45V24	45V25	45V26	45V27	45V28
22	Large Gas Lens	45V0204	45V0204	45V116	45V64	995795	45V63
25	Stubby Collet	10N21S	10N22S	10N23S	10N24S	10N25S	-
26	Stubby Collet Body	17CB20	17CB20	17CB20	17CB20	17CB20	-

#	Cup No.	4 (1/4")	5 (5/16")	6 (3/8")	7 (7/16")	8 (1/2")	10 (5/8")	12 (3/4")
13	Lava	105Z43	105Z42	105Z44	105Z45	08N78	08N79	08N80
19	Lava Gas Lens	54N35	54N34	54N33	54N32	54N31	-	-
15	Lava 3-7/32" Long	12N03	105Z60	12N02	105Z61	-	-	-
12	Alumina	10N50	10N49	10N48	10N47	10N46	10N45	10N44
18	Alumina Gas Lens	54N18	54N17	54N16	54N15	54N14	54N19	-
14	Alumina Long 3"	-	10N49L	10N48L	10N47L	-	-	-
20	Alumina Gas Lens Long 3"	-	54N17L	54N16L	54N15L	54N14L	-	-
23	Alumina Large Gas Lens	-	-	57N75	-	57N74	53N88	53N87
						15 (15/16")	53N89	
27	Alumina Nozzle Stubby	13N08	13N09	13N10	13N11	13N12	13N13	-

18 SERIES TORCH

LINDE, L/TEC STYLE

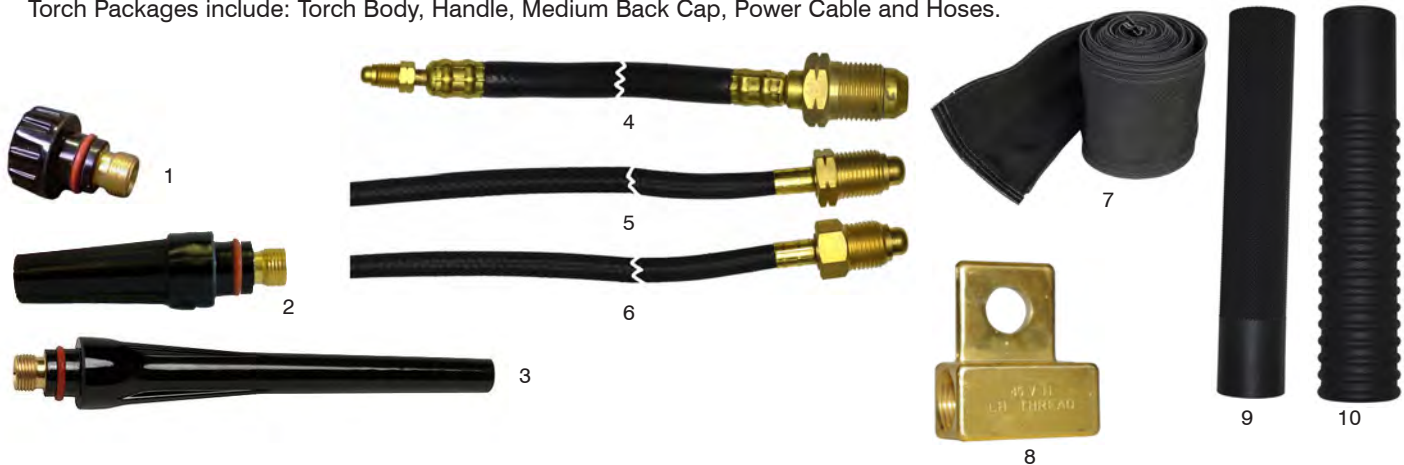


WATER COOLED TIG TORCH

- Capacity, 350 amps continuous duty
- Weight, less cable and hoses 7 oz.
- Electrode capacity, .020-5/32"
- Superior water cooling
- Silicone rubber insulation
- Interchangeable parts with L/Tec, Weldcraft and similar torches
- Quality construction
- Compact and lightweight

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
12½' Packages		25' Packages	
MW18-12	Torch Package	MW18-25	Torch Package
Valve		Valve	
MW18V-12	Torch Package	MW18V-25	Torch Package

Torch Packages include: Torch Body, Handle, Medium Back Cap, Power Cable and Hoses.

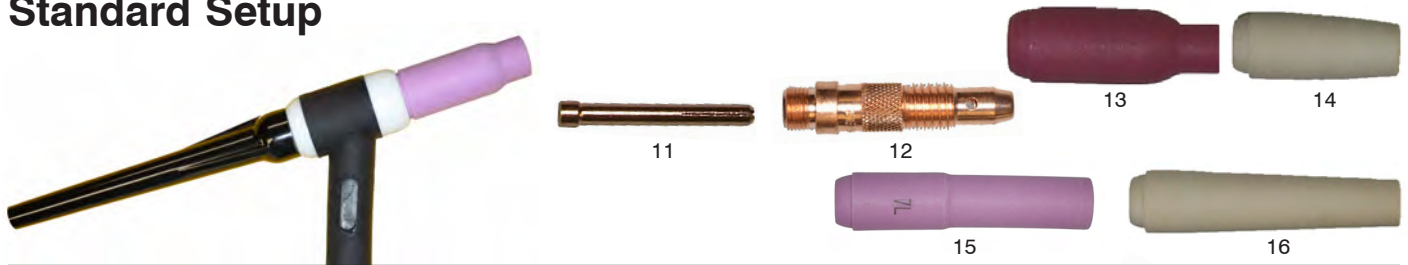


#	PART NO.	DESCRIPTION	#	PART NO.	DESCRIPTION
	MW18	Torch Body	4	41V29R	25' Power Cable, Rubber
	MW18F	Flex Head Torch Body	5	40V74R	12½' Water Hose, Rubber
	MW18V	Torch Body with Valve	5	41V32R	25' Water Hose, Rubber
	MW18-7	Insulator	6	40V75R	12½' Gas Hose, Rubber
	MW18-CG	Cup Gasket (Standard)	6	41V30R	25' Gas Hose, Rubber
17	54N01	Gas Lens Insulator		40V64	12½' Power Cable, Vinyl
22	54N63	Large Gas Lens Insulator		41V29	25' Power Cable, Vinyl
25	MW18CG20	Stubby Gasket Insulator		40V74	12½' Water Cable, Vinyl
1	57Y04	Short Back Cap		41V32	25' Water Hose, Vinyl
2	300M	Medium Back Cap		40V75	12½' Gas Hose, Vinyl
3	57Y02	Long Back Cap		41V30	25' Gas Hose, Vinyl
	98W18	"O" Ring for Back Cap	8	45V11	Power Cable Adapter
	VS-2	Valve Stem		53N04	Wire Tie Clamp
9	MWH-200	Textured handle		AK-3	Accessory Kit
10	MWH-200R	Ribbed Handle	7	3-10	Cable Cover for 12½'
4	40V64R	12½' Power Cable, Rubber	7	3-22	Cable Cover for 25'

18 SERIES TORCH

LINDE, L/TEC STYLE

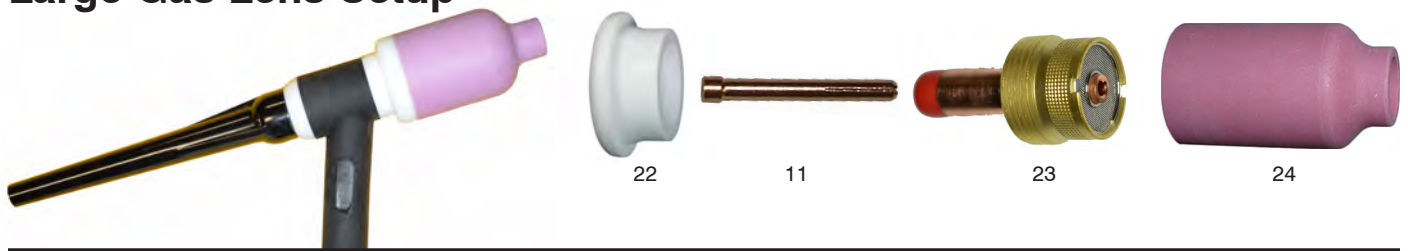
Standard Setup



Medium Gas Lens Setup



Large Gas Lens Setup



Stubby Collet Body Setup



#	Electrode Diam. (in.)	.020"	.040"	1/16"	3/32"	1/8"	5/32"
11	Collet	10N21	10N22	10N23	10N24	10N25	54N20
12	Collet Body	10N29	10N30	10N31	10N32	10N28	406488
18	Collet Body Gas Lens	45V29	45V24	45V25	45V26	45V27	45V28
23	Large Gas Lens	45V0204	45V0204	45V116	45V64	995795	45V63
26	Stubby Collet	10N21S	10N22S	10N23S	10N24S	10N25S	-
27	Stubby Collet Body	17CB20	17CB20	17CB20	17CB20	17CB20	-

#	Cup No.	4 (1/4")	5 (5/16")	6 (3/8")	7 (7/16")	8 (1/2")	10 (5/8")	12 (3/4")
14	Lava	105Z43	105Z42	105Z44	105Z45	08N78	08N79	08N80
20	Lava Gas Lens	54N35	54N34	54N33	54N32	54N31	-	-
16	Lava 3-7/32" Long	12N03	105Z60	12N02	105Z61	-	-	-
13	Alumina	10N50	10N49	10N48	10N47	10N46	10N45	10N44
19	Alumina Gas Lens	54N18	54N17	54N16	54N15	54N14	54N19	-
15	Alumina Long 3"	-	10N49L	10N48L	10N47L	-	-	-
21	Alumina Gas Lens Long 3"	-	54N17L	54N16L	54N15L	54N14L	-	-
24	Alumina Large Gas Lens	-	-	57N75	-	57N74	53N88	53N87
						15 (15/16")	53N89	
28	Alumina Nozzle Stubby	13N08	13N09	13N10	13N11	13N12	13N13	-

20 SERIES TORCH

LINDE, L/TEC STYLE

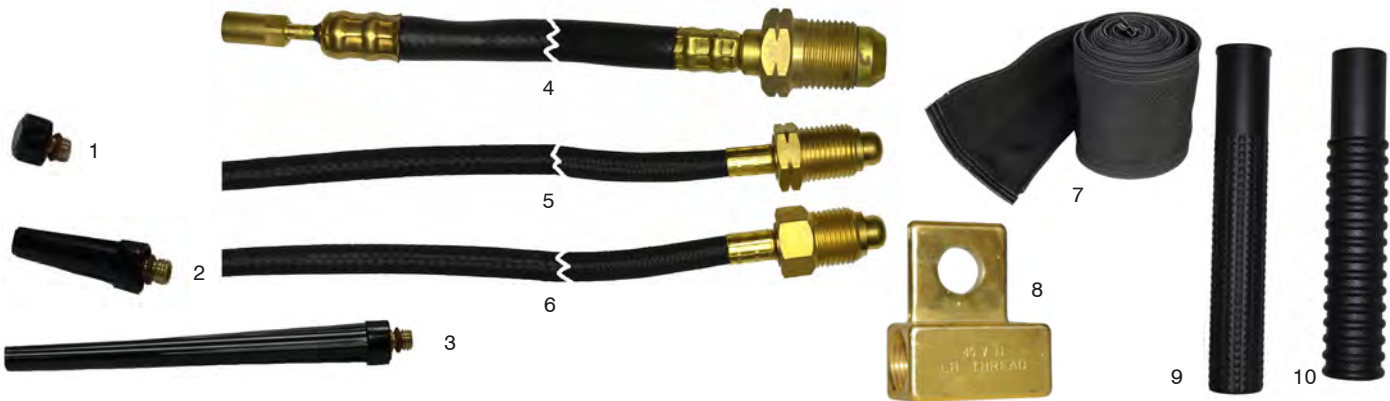


WATER COOLED TIG TORCH

- Capacity, 250 amps continuous duty
- Weight, less cable and hose 3.5 oz.
- Cooling requirements 1 qt. per minute
- Electrode capacity, .020-1/8"
- Silicone rubber insulation
- Superior water cooling
- Interchangeable parts with L/Tec, Weldcraft and similar torches
- Quality construction

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
12½' Packages		25' Packages	
MW20-12	Torch Package, Vinyl Cables	MW20-25	Torch Package, Vinyl Cables
MW20-12R	Torch Package, Rubber Cables	MW20-25R	Torch Package, Rubber Cables
Flex Head		Flex head	
MW20F-12	Torch Package, Vinyl Cables	MW20F-25	Torch Package, Vinyl Cables
MW20F-12R	Torch Package, Rubber Cables	MW20F-25R	Torch Package, Rubber Cables
Valve		Valve	
MW20V-12R	Torch Package, Rubber Cables	MW20V-25	Torch Package, Rubber Cables

Torch Packages include: Torch Body, Handle, Medium Back Cap, Power Cable and Hoses.

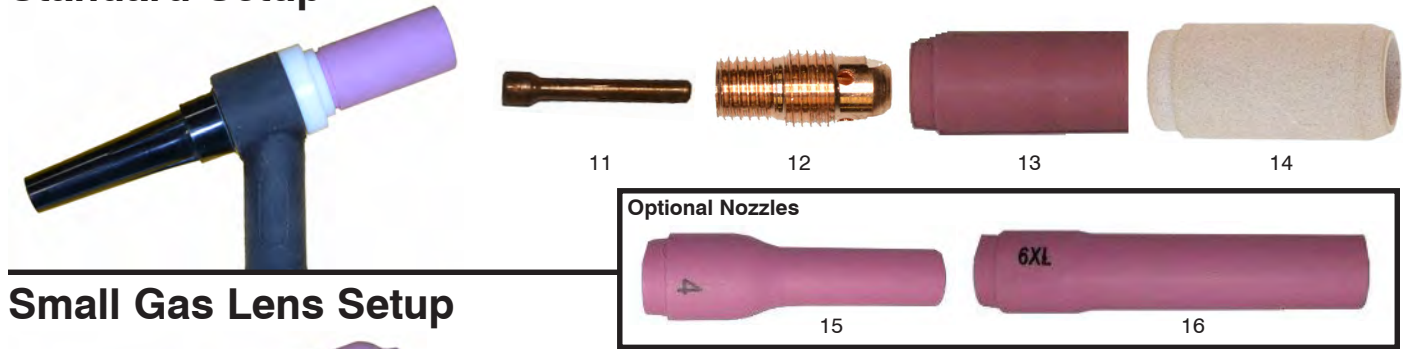


#	PART NO.	DESCRIPTION	#	PART NO.	DESCRIPTION
	MW20	Torch Body	5	45V07R	12½' Water Hose, Rubber
	MW20F	Flex Head Torch Body	5	45V08R	25' Water Hose, Rubber
	MW20FV	Flex Head Torch Body w/ Valve	6	45V09R	12½' Gas Hose, Rubber
	MW20V	Torch Body with Valve	6	45V10R	25' Gas Hose, Rubber
	598882	Cup Gasket (Standard)		45V03	12½' Power Cable, Vinyl
1	41V33	Short Back Cap		45V04	25' Power Cable, Vinyl
2	41V35	Medium Back Cap		45V07	12½' Water Hose, Vinyl
3	41V24	Long Back Cap		45V08	25' Water Hose, Vinyl
	98W77	"O" Ring for Back Cap		45V09	12½' Gas Hose, Vinyl
	VS-2	Valve Stem		45V10	25' Gas Hose, Vinyl
	53N06	Threaded Handle		53N04	Wire Tie Clamp
9	MWH-100	Textured Handle	8	45V11	Power Cable Adapter
10	MWH-100R	Ribbed Handle		AK-4	Accessory Kit
4	45V03R	12½' Power Cable, Rubber	7	3-10	Cable Cover for 12½'
4	45V04R	25' Power Cable, Rubber	7	3-22	Cable Cover for 25'

20 SERIES TORCH

LINDE, L/TEC STYLE

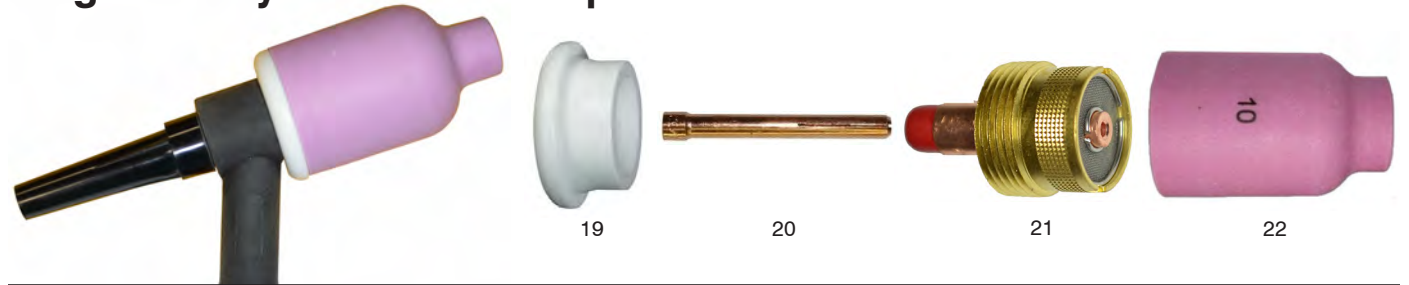
Standard Setup



Small Gas Lens Setup



Large Stubby Gas Lens Setup



#	Electrode Diam. (in.)	.020"	.040"	1/16"	3/32"	1/8"
11	Collet	13N20	13N21	13N22	13N23	13N24
12	Collet Body	13N25	13N26	13N27	13N28	13N29
17	Collet Body Gas Lens	45V41	45V42	45V43	45V44	45V45
20	Collet (Large Gas Lens)	13N20L	13N21L	13N22L	13N23L	13N24L
21	Large Gas Lens	45V0204S	45V0204S	45V116S	45V64S	995795S
19	Insulator Large Gas Lens	54N63-20	54N63-20	54N63-20	54N63-20	54N63-20

#	Cup No.	3 (3/16")	4 (1/4")	5 (5/16")	6 (3/8")	7 (3/32")	8 (1/2")	10 (5/32")
14	Lava Nozzle	-	13N14	13N15	13N16	13N17	13N18	13N19
15	Alumina 1-7/8" Long	796F70	796F71	796F72	796F73	-	-	-
16	Alumina 2-1/2" Long	796F74	796F75	796F76	796F77	-	-	-
13	Alumina	-	13N08	13N09	13N10	13N11	13N12	13N13
18	Alumina Gas Lens	-	53N58	53N59	53N60	53N61	53N61S	-
22	Alumina Nozzle Lg Lens	-	-	-	57N75	57N74	53N88	-
						-	12 (3/4")	53N87
						-	15 (15/16")	53N89

26 SERIES TORCH

LINDE, L/TEC STYLE

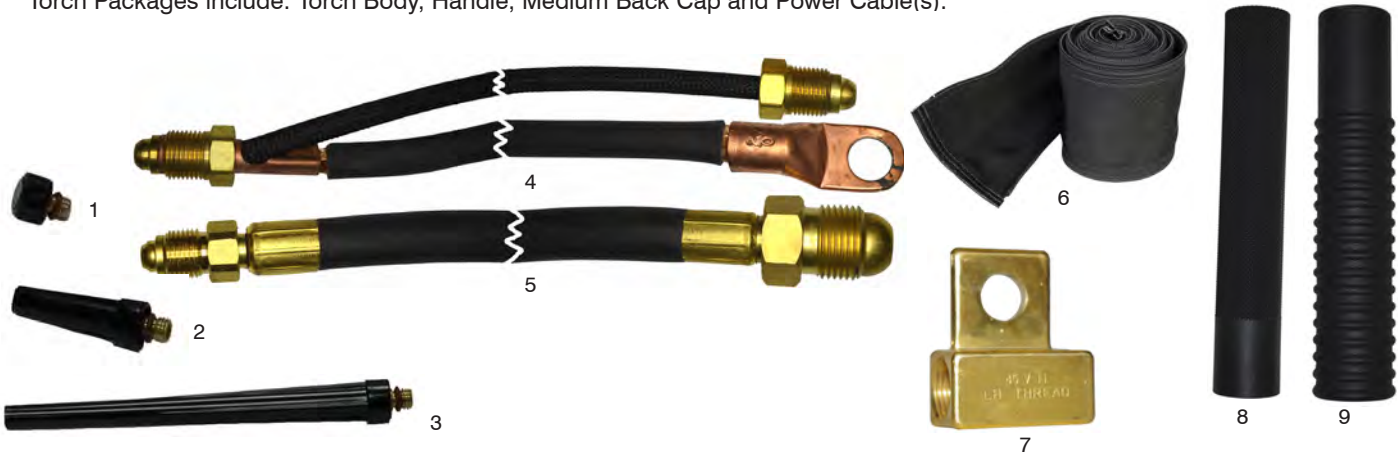


AIR COOLED TIG TORCH WITH HEAVY DUTY RUBBER POWER CABLE, 2 PIECE POWER CABLE OPTIONAL

- Capacity, 200 amps continuous duty
- Weight, less cable 10 oz.
- Electrode capacity, .020-5/32"
- Silicone rubber insulation
- Interchangeable parts with L/Tec, Weldcraft and similar torches
- Quality construction
- Compact and lightweight

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
12½' Packages		25' Packages	
MW26-12R	Torch Package, Rubber Power Cable	MW26-25R	Torch Package, Rubber Power Cable
MW26-12-2	Torch Package, 2pc Power Cable	MW26-25-2	Torch Package, 2 pc Power Cable
Flex Head		Flex Head	
MW26F-12R	Torch Package, Rubber Power Cable	MW26F-25R	Torch Package, Rubber Power Cable
MW26F-12-2	Torch Package, 2pc Power Cable	MW26F-25-2	Torch Package, 2 pc Power Cable
Flex Head and Valve		Flex Head and Valve	
MW26FV-12R	Torch Package, Rubber Power Cable	MW26FV-25R	Torch Package, Rubber Power Cable
MW26FV-12-2	Torch Package, 2 pc Power Cable	MW26FV-25-2	Torch Package, 2 pc Power Cable
Valve		Valve	
MW26V-12R	Torch Package, Rubber Power Cable	MW26V-25R	Torch Package, Rubber Power Cable
MW26V-12-2	Torch Package, 2 pc Power Cable	MW26V-25-2	Torch Package, 2pc Power Cable

Torch Packages include: Torch Body, Handle, Medium Back Cap and Power Cable(s).

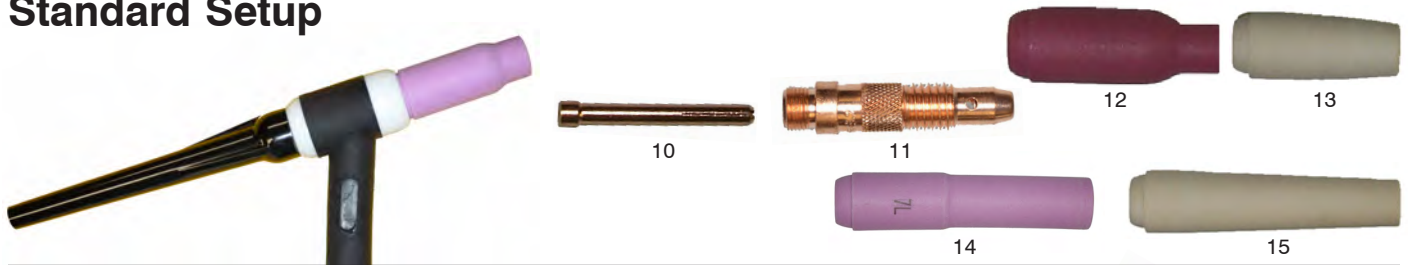


#	PART NO.	DESCRIPTION	#	PART NO.	DESCRIPTION
	MW26	Torch Body		98W18	"O" Ring for Back Cap
	MW26F	Flex Head Torch Body		VS-1	Valve Stem
	MW26FV	Flex Head Torch Body w/ Valve	8	MWH-200	Textured handle
	MW26V	Torch Body with Valve	9	MWH-200R	Ribbed Handle
	MW18-7	Insulator	4	46V28-2	12½' Power Cable, 2 piece
	MW18-CG	Cup Gasket (Standard)	4	46V30-2	25' Power Cable, 2 piece
16	54N01	Gas Lens Insulator	5	46V28R	12½' Power Cable, Rubber
21	54N63	Large Gas Lens Insulator	5	46V30R	25' Power Cable, Rubber
24	MW18CG20	Stubby Gasket Insulator	7	45V62	Power Cable Adapter
1	57Y04	Short Back Cap		AK-3	Accessory Kit
2	300M	Medium Back Cap	8	3-10	Cable Cover for 12½'
3	57Y02	Long Back Cap	9	3-22	Cable Cover for 25'

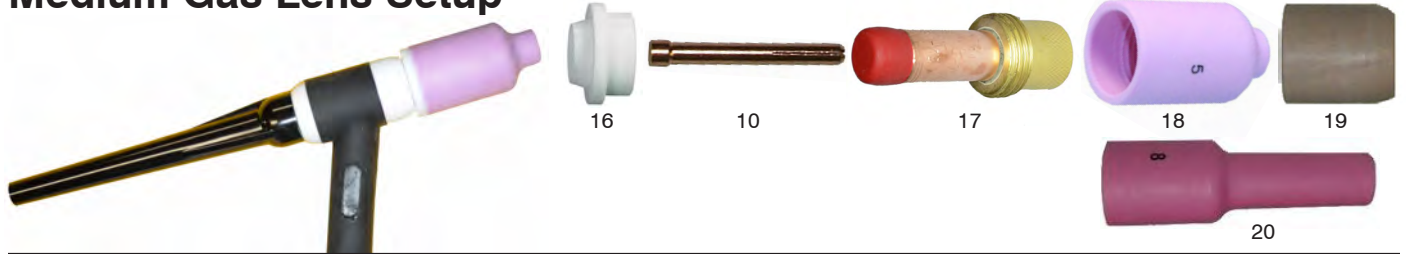
26 SERIES TORCH

LINDE, L/TEC STYLE

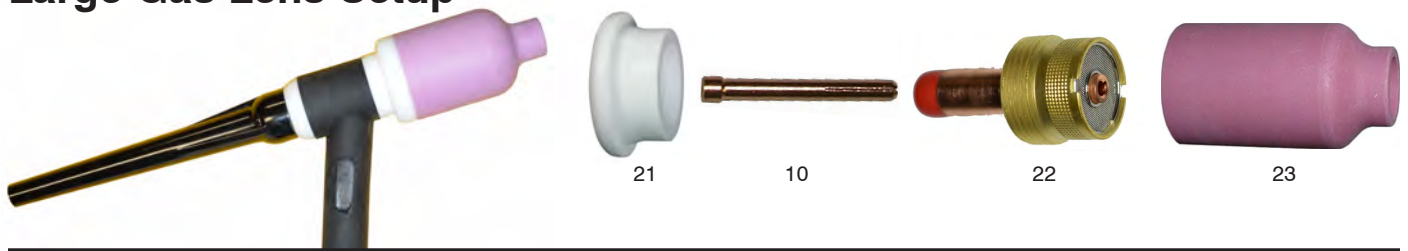
Standard Setup



Medium Gas Lens Setup



Large Gas Lens Setup



Stubby Collet Body Setup



#	Electrode Diam. (in.)	.020"	.040"	1/16"	3/32"	1/8"	5/32"
10	Collet	10N21	10N22	10N23	10N24	10N25	54N20
11	Collet Body	10N29	10N30	10N31	10N32	10N28	406488
17	Collet Body Gas Lens	45V29	45V24	45V25	45V26	45V27	45V28
22	Large Gas Lens	45V0204	45V0204	45V116	45V64	995795	45V63
25	Stubby Collet	10N21S	10N22S	10N23S	10N24S	10N25S	-
26	Stubby Collet Body	17CB20	17CB20	17CB20	17CB20	17CB20	-

#	Cup No.	4 (1/4")	5 (5/16")	6 (3/8")	7 (7/16")	8 (1/2")	10 (5/8")	12 (3/4")
13	Lava	105Z43	105Z42	105Z44	105Z45	08N78	08N79	08N80
19	Lava Gas Lens	54N35	54N34	54N33	54N32	54N31	-	-
15	Lava 3-7/32" Long	12N03	105Z60	12N02	105Z61	-	-	-
12	Alumina	10N50	10N49	10N48	10N47	10N46	10N45	10N44
18	Alumina Gas Lens	54N18	54N17	54N16	54N15	54N14	54N19	-
14	Alumina Long 3"	-	10N49L	10N48L	10N47L	-	-	-
20	Alumina Gas Lens Long 3"	-	54N17L	54N16L	54N15L	54N14L	-	-
23	Alumina Large Gas Lens	-	-	57N75	-	57N74	53N88	53N87
						15 (15/16")	53N89	
27	Alumina Nozzle Stubby	13N08	13N09	13N10	13N11	13N12	13N13	-



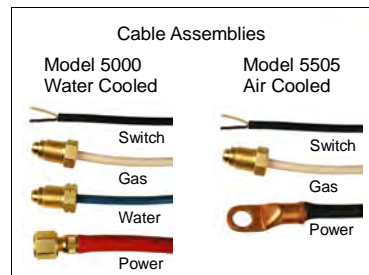
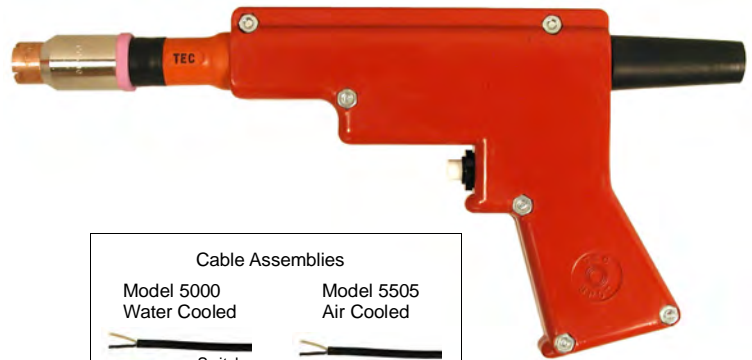
TIG SPOT GUNS

MODEL 5000 430 AMP WATER COOLED
MODEL 5505 200 AMP AIR COOLED

TEC TIG spot weld guns will spot weld such materials as mild steel, stainless steel, monel, inconel in thickness of 1/8" (3,2mm) or less from one side only. The TIG spot weld process is not suitable for aluminum, galvanized or coated materials.

The TIG spot weld process uses a conventional TIG welding machine equipped with a spot timer and high frequency arc starting. The spot gun is connected to the welding machine just like a manual TIG torch.

The spot guns are simple to use and are constructed of durable long lasting material. Replaceable locator tips are constructed of durable copper and are available for tacking inside or outside corners, butt and lap joints.



SPECIFICATIONS

Chuck Sizes .040" - 1/8"
 Electrode Length 7 in. Max.
 Weld Current DCSP

Note: Photo shows locator and insulator which are supplied individually or in accessory kit.

ORDERING INFORMATION

5000 SPOT GUN ASSEMBLY

Water cooled spot gun rated at 430 amps for heavy duty production applications.

- 5000-25 25 Ft. Torch Package (Cord Only - No Plug)
- 5000-25L 25 Ft. Torch Package (Lincoln® 6 Pin Plug)
- 5000-25M5 25 Ft. Torch Package (Miller® 5 Pin Plug)
- 5000-25M14 25 Ft. Torch Package (Miller® 14 Pin Plug)

5505 SPOT GUN ASSEMBLY

Air cooled spot gun rated at 200 amps for thin gauge materials and light duty occasional spot weld applications.

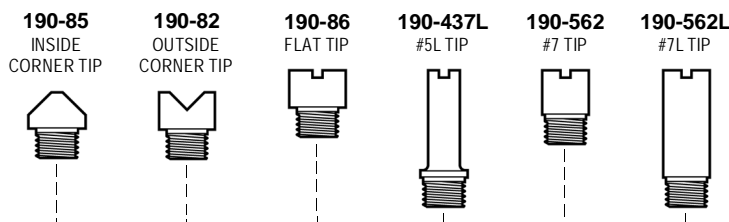
- 5505-25 25 Ft. Torch Package (Cord Only - No Plug)
- 5505-25L 25 Ft. Torch Package (Lincoln® 6 Pin Plug)
- 5505-25M5 25 Ft. Torch Package (Miller® 5 Pin Plug)
- 5505-25M14 25 Ft. Torch Package (Miller® 14 Pin Plug)

652-00 ACCESSORY KIT

Accessory kit can be used with water or air cooled spot gun assembly.

- Includes: 2 Ea. 180-10 Ceramic Insulator
- 1 Ea. 190-00 Locator Body
- 2 Ea. 190-86 Flat Tip
- 1 Ea. 222-00 3/32" Chuck
- 1 Ea. 223-00 1/8" Chuck
- 1 Ea. 200-NGR Gasket
- 1 Ea. 101-06 Wrench
- 1 Ea. Storage Box

ACCESSORIES



190-00 ADAPTER BODY

180-10 CERAMIC INSULATOR

ELECTRODE CHUCKS

- 220-00 .040 1,0
- 221-00 1/16 1,6
- 222-00 3/32 2,4
- 223-00 1/8 3,2
- 224-00 5/32 4,0

600-0W
POWER CABLE ADAPTER (Water Cooled Model 5000)



635-0W
DIN CONNECTOR (Water Cooled Model 5000)

635-CC
DIN CONNECTOR (Air Cooled Model 5505)

WeldTec®



Welding Water Coolers

TIG Welding • MIG Welding • Plasma Cutting & Welding • Resistance Welding

Premium - Dual Cool™ - HEAVY DUTY WATER COOLER Models, C45-1 (120 volts), C45-2 (240 volts) - Vane Pump



C45

Premium water cooler featuring the unique WeldTec® Dual Cool™ water flow system. Out performs all coolers in its class - industrial grade, rated up to 700 amps.*

- Unique Dual Cool™ flow design cools the coolant twice for maximum efficiency
 - All stainless steel construction - 4 gallon tank.
 - Positive displacement bronze rotary vane pump.
 - Efficient double pass aluminum fin - copper coil radiator.
 - 18,000 BTU/hr. rated cooling capacity for welding equipment up to 700 amps.*
 - Specifications: weight 35 lbs (dry), size 18" L, 9 ¼" W, 16" H
- Suggested TIG torch models: WT-18, WT-27W, WT-28, SW-320, SW-450

Deluxe - MEDIUM DUTY WATER COOLER Models, C35-1 (120 volts), C35-2 (240 volts) - Vane Pump



C35

Deluxe water cooler designed for torches up to 500 amps* - industrial grade.

- All stainless steel construction - 3 gallon tank.
 - Positive displacement bronze rotary vane pump.
 - Efficient aluminum fin - copper coil radiator.
 - Standard compartmented torch parts storage box attached to top of cooler.
 - 12,000 BTU/hr. rated cooling capacity for welding equipment up to 500 amps.*
 - Specifications: weight 33 lbs (dry), size 18" L, 9 ¼" W, 14" H
- Suggested TIG torch models: WT-18, WT-20, WT-20H, WT-22, WT-28, SW-320

Standard - LIGHT DUTY WATER COOLER Models, C25-1 (120 volts), C25-2 (240 volts) - Vane Pump



C25

Standard water cooler designed for light-medium duty torches up to 300 amps.*

- All stainless steel construction - 2 gallon tank.
 - Positive displacement bronze rotary vane pump.
 - Efficient aluminum fin - copper coil radiator.
 - 10,000 BTU/hr. rated cooling capacity for welding equipment up to 300 amps.*
 - Specifications: weight 31 lbs (dry), size 18" L, 9 ¼" W, 12 ½" H
- Suggested TIG torch models: WT-20, WT-20P, WT-24W, WT-25, WT-125

Common cooler features . .

- Rustproof stainless steel construction, tank, motor plate, hardware and cover.
- High flow low noise fan pulls cool outside air in through the radiator.
- Easy access coolant fill port with visual flow indication when operating.
- Thermal overload protected 1/3 hp, 115/230V. 1 ph. motor with 8 ft. grounded cord
- Made in USA quality and workmanship.

All models are compatible with most brands of TIG welding machines and water cooled equipment.

*May vary with torch design and cable assembly length.



WeldTec® - "where quality and innovation never ends"

Specifications subject to change without notice.

WeldTec®

www.LencoCanada.com

Page 167

VH1000 V/G COOLING SYSTEM

SPECIFICATIONS:

- Operates in both vertical and horizontal position
- Factory set at 50 psi adjustable to 100 psi
- 2 Gallon reservoir
- 115 or 230vac / 1 phase 50/60hz
- 5.6 / 2.8 amp: 60 Hz
- 12,000 BTU
- Dimensions: 9"L x 9"W x 26"H
- 1/4" Female Pipe Fitting (water in/out) with 5/8" LH Std. Inert Gas Fitting
- 8' power cord
- Rugged polyethylene non-dent construction
- Visible water level through tank
- Thermal overload
- Net weight: 33 lbs / 15 kg
- Foam packed for shipment



VH1000G: Rotary GEAR Pump

- 1.8 gpm at 50 psi
- Built in by pass to tank
- Rebuildable pump

VH1000V: Rotary VANE Pump

- 1.7 pgm at 50 psi

The **VH1000 Cooling System** is designed for:

TIG torches	up to 500 amps
MIG guns	up to 500 amps
PLASMA Welder/Cutter	up to 150 amps
Resistance Welders	60 KVA

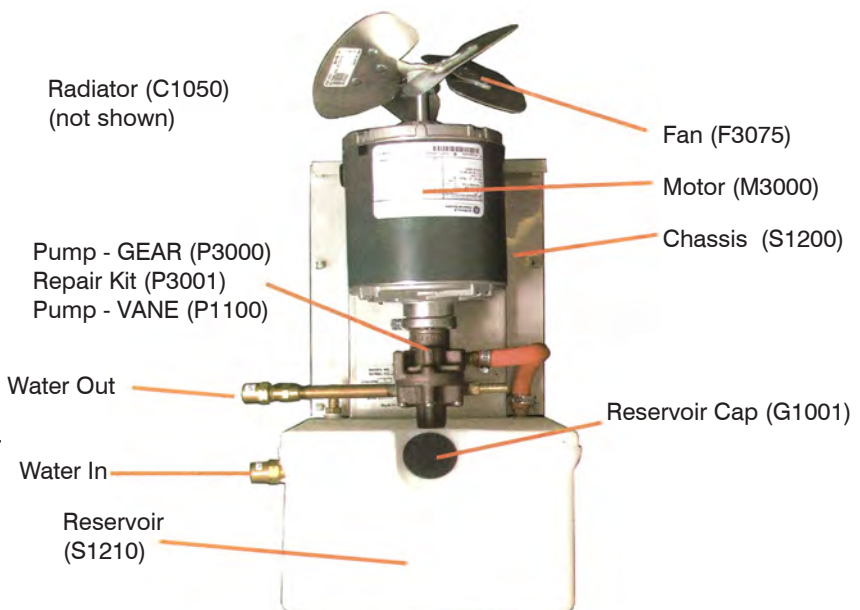
12,000 BTU/HR @ 75 Degrees Differential between ambient and return water temperature

FEATURES:

- Plastic construction contributes to quiet operation of unit.
- The VH1000 operates in a vertical position for welding carts or space savings, or in a horizontal position for conventional applications.
- Dynaflux continues to incorporate the latest available technology to develop a more economical, efficient, versatile and compact water cooler. The high strength seamless plastic design provides greater impact and compression strength, rust and dent resistance, weight reduction and greater aesthetics.
- The extended life pump features a direct drive power system reducing maintenance and increasing performance.

Caution: Do Not Over Tighten Fittings On Tank. Excessive Torque May Strip Fittings In Tank.

Part No.	Description
VH1000G	Gear Pump 115 v
VH1000V	Vane Pump 115 v
VH1000G-230	Gear Pump 230 v
VH1000V-230	Vane Pump 230 v



R1000G COOLING SYSTEM

SPECIFICATIONS:

- Factory set at 50 psi adjustable to 80 psi
- 3 Gallon reservoir
- 115 or 230vac / 1 phase 50/60 hz
- 5.6 / 2.8 amp: 60 Hz
- 15,000 BTU
- Dimensions: 23”L x 11”W x 14.75”H
- 1/4” Female Pipe Fitting (water in/out) with 5/8” LH Std. Inert Gas Fitting
- 8’ power cord
- Visible water level and flow sight glass
- Thermal overload
- Net weight: 42 lbs / 19 kg
- Foam packed for shipment



R1000G: Rotary GEAR Pump

- 1.8 gpm at 50 psi
- Built in by pass to tank
- Rebuildable pump

The **R1000 Cooling System** is designed for:

TIG torches	up to 750 amps
MIG guns	up to 750 amps
PLASMA Welder/Cutter	up to 200 amps
RESISTANCE Welders	75 KVA
INDUCTION Welding	5 KW

15,000 BTU/HR @ 75 Degrees Differential between ambient and return water temperature

FEATURES:

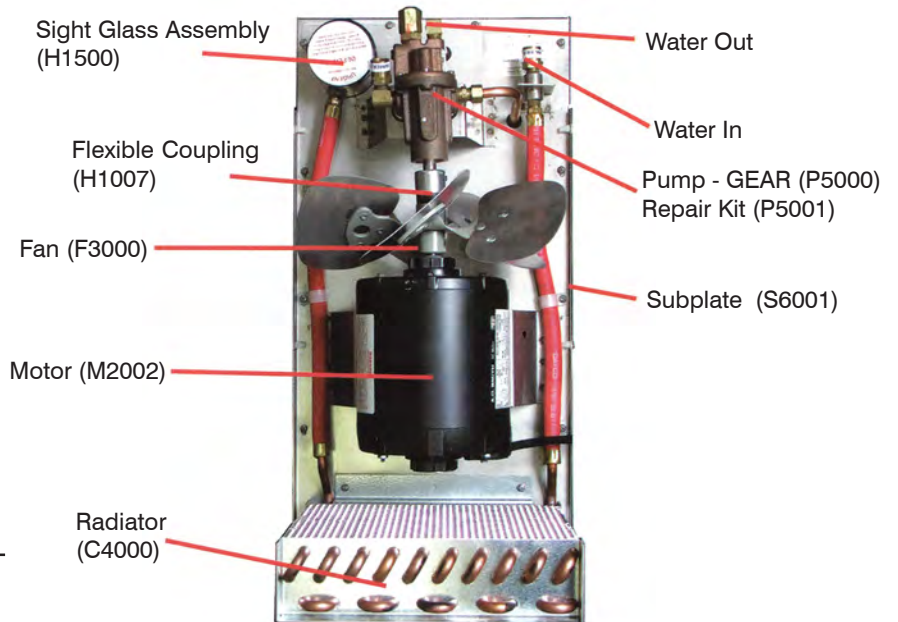
- Stainless steel construction eliminates coolant contamination due to electrolysis or chemical reactions.
- All units are plumbed with copper tubing and reinforced hose.
- New extended life pump.
- No external plumbing is required because of closed loop water system.
- A water level float gauge and filler cap are combined in a single unit multi-purpose sight glass which enables operator to observe return water at a distance.



DEFENSE ANTI-FREEZE AND PUMP LUBRICANT

Provides year round protection for water coolers and other closed loop water recirculators.

Part No. DF929 Dilutable
DF927 Ready to use



Part No.	Description
R1000G	Gear Pump 115 v
R1000G-230	Gear Pump 230 v

3 in 1 ROD



#31 Aladdin 3-in-1 Rod

- No Flux Required
- Welds Zinc Base Metals
- Brazes Aluminum
- Solders Galvanized Metal Without The Use of Flux
- High Quality Virgin Metal
- 390° C (732° F) Melting Point

Uses: Repair kirksite dies, power tools, aluminum radiators, propellers, castings, lower units, hardware accessories, boat hulls and many more uses.

1 Lb. Tube

Part No.	Size	Description
31-18	1/8"	3-in-1 Rod
31-32	3/32"	3-in-1 Rod
31-16	1/16"	3-in-1 Rod
31-132	1/32"	3-in-1 Rod
31-532	5/32"	3-in-1 Rod
31-316	3/16"	3-in-1 Rod
31-14	1/4"	3-in-1 Rod
18" Standard Length - Available in 36"		

Assorted Package

Includes (1) 1/4", (2) 3/16", (3) 5/32", (4) 3/32", (5) 1/16", (Balance) 1/8"

Part No.	Description
31-ASST	Assorted Package 3-1 Rod

Trial Package

Includes 1 each - 3/16", 1/8", 1/16"

Part No.	Description
31-TP	Trial Package 3-1 Rod

#51 Aluminum Brazing Kit

- Braze Aluminum
- Weld Zinc Base Metals Without The Use of Flux
- Includes 1/2 pound 1/8" 3-1 Rod with #48 stainless steel tinning brush

Part No.	Description
51-K	Aluminum Brazing Kit



#33 Low-Melt Aluminum Solder

60% Tin / 40% Zinc

Solder aluminum by rubbing on bare aluminum. Produces excellent results when used with Aladdin #585 Super Soldering Flux for joining aluminum to dissimilar metals such as copper, steel, brass, galvanized metal, stainless steel and monel metal.

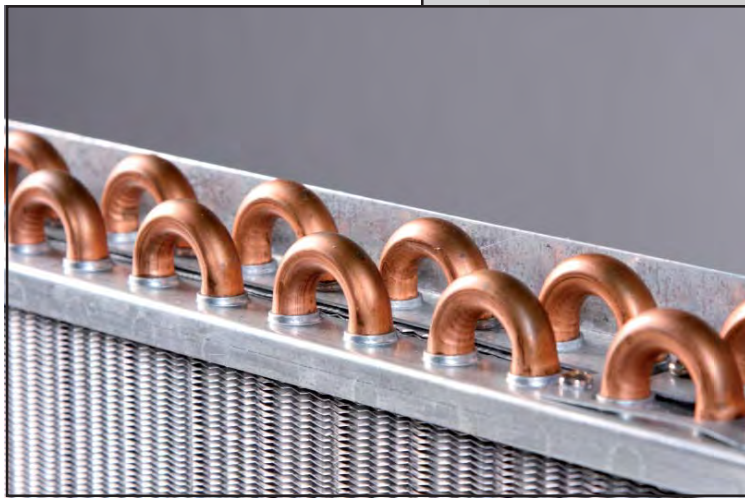
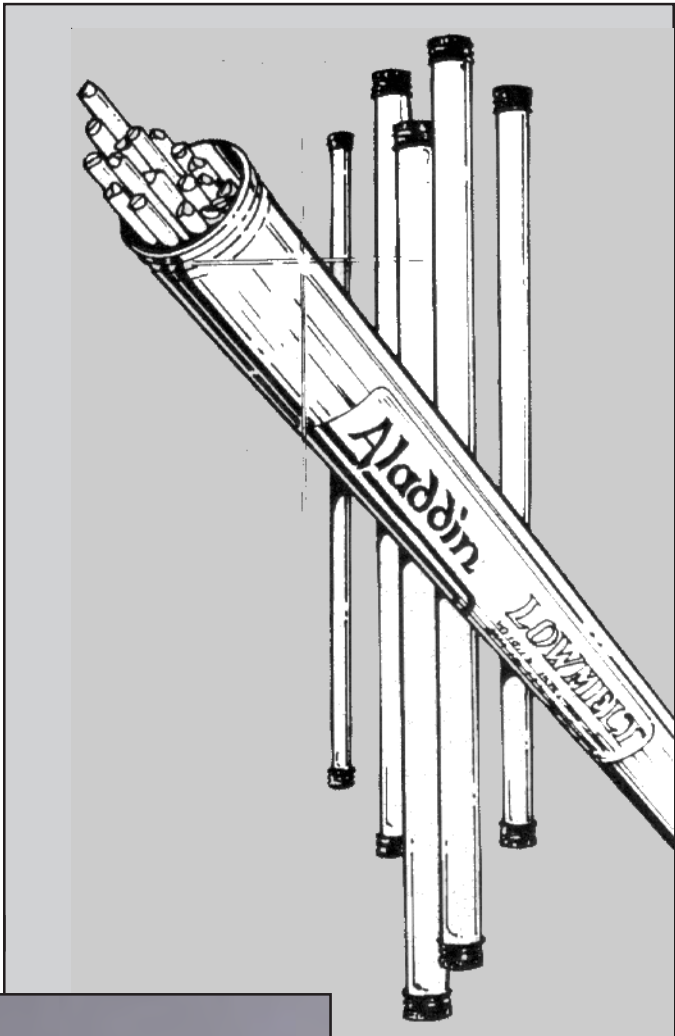
Use with #1 Low Temperature Liquid Soldering Flux to repair pewter.

Meets Mil Spec: S 12204B, Type II Composition B

Melting Point: 585° F

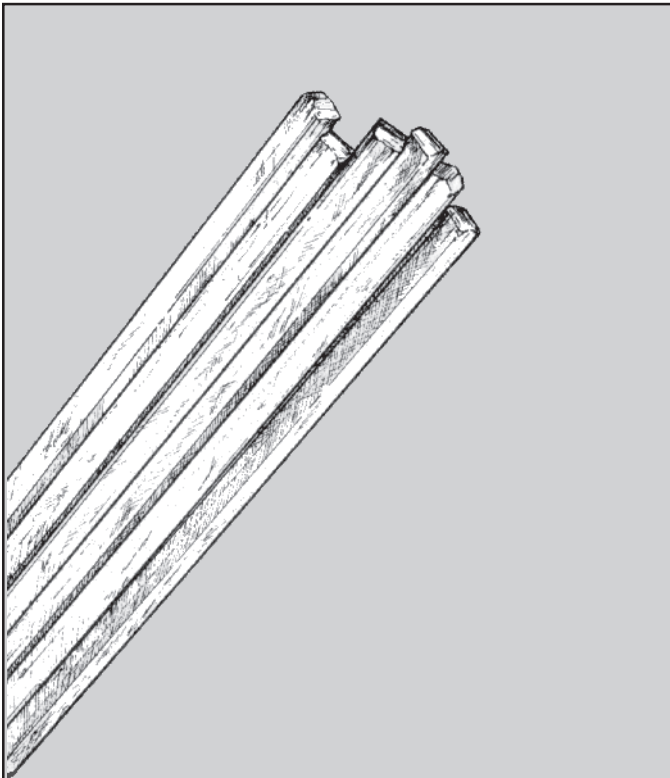
Use: Refrigeration work, filling pin holes in aluminum castings as they come from the mold.

Part No.	Description
33-14	1/4" x 18" 1 lb. Tube
33-18	1/8" x 18" 1 lb. Tube





Welding Products



#82B Galvanizing Bar

30% Tin / 20% Zinc / 50% Lead

A superior-quality alloy for re-galvanizing parts that are damaged by welding. No flux - no sandblasting - no cleaning. Bonds quickly and permanently to most metals. Resists all corrosion and atmospheric conditions, will not peel, burn or chip off.

Heat metal surface; rub Galvanizing Bar on hot metal. Smooth surface with small rag. One bar covers 6 sq. ft. Contains fluxes.

Meets Mil Spec: O-G-93

Working Range: 350° - 550° F

Bar Size: 1/4" x 1/4" x 14" (Approx. 4 oz. each)

Part No.	Description
82B	Galvanizing Bar

#160 Sal-Ammoniac Bar

A pure, fine grain ammonium salt pressed into blocks which are used for the easy and effective cleaning and tinning of soldering irons. The Aladdin Sal-Ammoniac Bar cleans soldering iron tips to ensure rapid heat conductivity, reduced residue and give the best solder bonds possible.

Part No.	Description
SAB-1/2	1/2 lb. Bar
SAB-1	1 lb. Bar





#604 Aluminum Solder

- Solders Aluminum
- Solders Aluminum to Copper
- Solders Aluminum to Brass
- 204° C (400° F) Melting Point

Produces sound joints when used with Aladdin #1 Flux.

Uses: Refrigeration and other tight applications with an iron or torch.

1 LB. Spool

Part No.	Size	Description
604-18	1/8"	Aluminum Solder
604-332	3/32"	Aluminum Solder
604-16	1/16"	Aluminum Solder

Also available in 5 lb. spools

#604 F.C. Aluminum Solder

1 Lb. Spool

Part No.	Size	Description
604C-18	1/8"	Flux Cored Aluminum Solder
604C-332	3/32"	Flux Cored Aluminum Solder
604C-16	1/16"	Flux Cored Aluminum Solder

Flux Cored Solder is easier to use than applying Flux separately

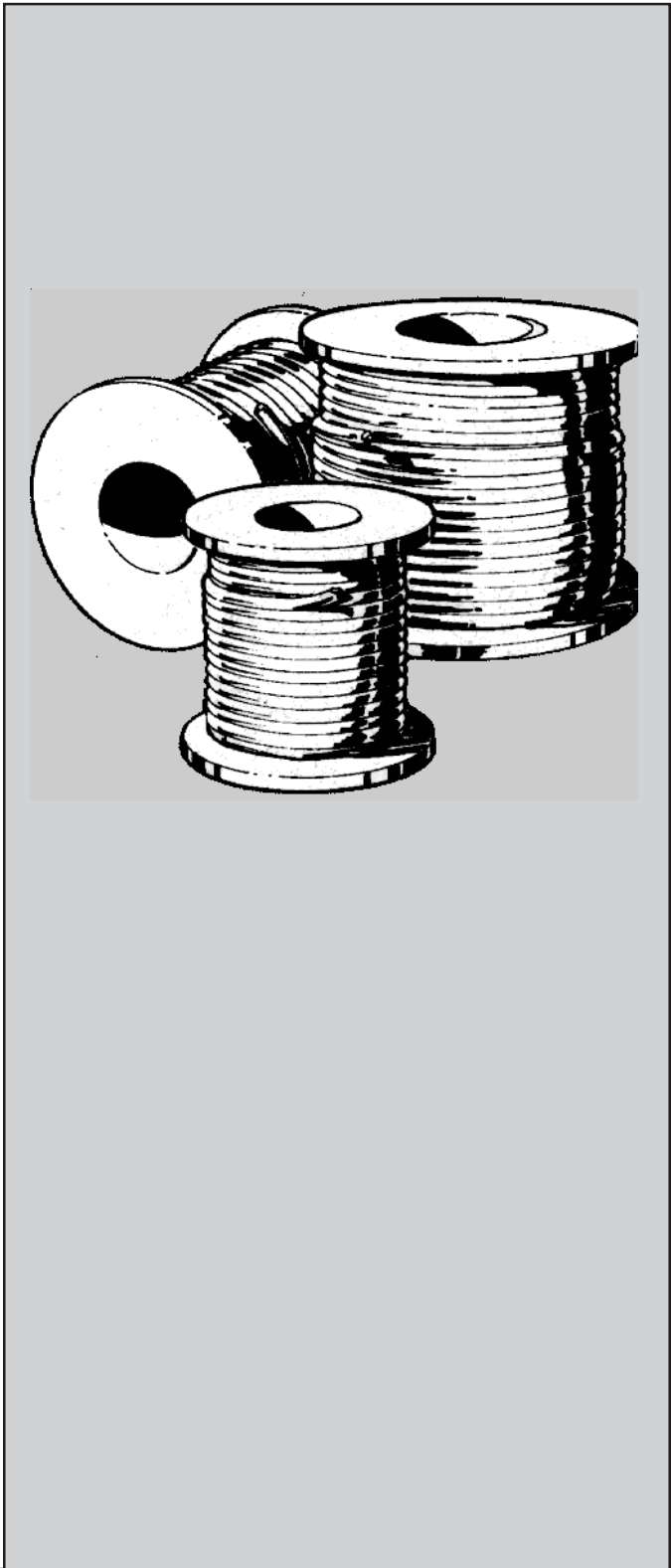
#604 Kit

Kit Includes: 12 ft. of solder and #1 Flux in dispenser.

#604 F.C. Kit

Kit Includes: 12 ft. of Flux Cored solder.

Part No.	Description
604-K	Aluminum Solder Kit
604C-K	Aluminum Solder Kit cored w/ #1 flux



Ag



#450 Soft Silver Solder

96.5% Tin / 3.5% Silver

A very high-grade soft solder containing SILVER: no lead, zinc or cadmium. Less expensive and easier to apply than silver brazing alloy. Excellent for a variety of metals such as stainless steel, copper, nickel alloys, monel, brass, bronze and other non-ferrous alloys (except aluminum and magnesium).

Meets Mil Spec: QQ-S-5710

Uses: Ideal for electrical work, utensils, dairy and food equipment. Use with Aladdin #3 Flux for harder to solder metals. Use with Aladdin #2 Flux for copper and brass.

1 Lb. Spools

Part No.	Size	Description
450-364	3/64"	Soft Silver Solder
450-116	1/16"	Soft Silver Solder
450-332	3/32"	Soft Silver Solder
450-12	1/8"	Soft Silver Solder

#450 Kit

Kit Includes: 12 ft. of #450 Soft Silver Solder and #3 Flux in a handy dispenser.

Part No.	Description
450-K	Soft Silver Solder Kit with #3 Flux



*This paste speeds production time by eliminating pre-fluxing. It is pre-placed, flowing when hot, allowing a larger area to be covered in less time, reducing waste.



#1 Low-Temperature Liquid Soldering Flux

A very active amber colour flux that will begin to dissolve aluminum oxides at approximately 375° F. Use with Aladdin #604 Aluminum Solder for soldering aluminum to aluminum and aluminum to copper, brass or stainless steel.

Part No.	Size	Description
1-14	1/2 Pint	#1 Liquid Soldering Flux
1-12	1 Pint	#1 Liquid Soldering Flux
1-1	1 Quart	#1 Liquid Soldering Flux

#2 Low-Acid All Purpose Flux

Clear liquid flux for all common soldering where tinning is a must; copper, brass and steel.

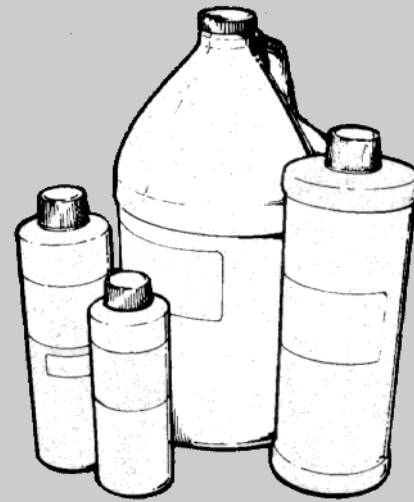
Part No.	Size	Description
2-12	1/2 Pint	#2 Low-Acid Soldering Flux
2-1	1 Pint	#2 Low-Acid Soldering Flux

#3 Soft Soldering Flux

Wine colour Liquid Solder Flux developed for use with #450 Aladdin Soft Silver Solder. Produces sound joint, free of porosity. Excellent for use on stainless steel and other hard to solder metals. Removes oxides and prevents re-oxidation on both the solder and base metal. Low fluxing temperature allows the use of soldering iron or small torch.

For use on food and dairy equipment and for joining copper to stainless or copper to sintered iron and applications where purity is desired. Excellent for air conditioning and refrigerator work.

Part No.	Size	Description
3-12	1/2 Pint	#3 Soft Soldering Flux
3-1	1 Pint	#3 Soft Soldering Flux



Standard Packaging:
 6 - 1/2 Pints per box
 6 - Pints per box
 4 - Quarts per box




 FLUX


#71 Aluminum Brazing Flux

The thorough cleaning action of this flux ensures quick melting and spreading of the filler metal. Also prevents formation of oxides at the brazing temperature, thus allowing deep penetration of the rod metal, resulting in a strong smooth joint. Recommended for use with #718 Aluminum Brazing Rods. Melting point is approximately 510° C - 579° C (950° F - 1075° F).

AWS classification 1 type 1. Use dry or make a paste, apply to cleaned metal, apply heat, when flux flows apply brazing rod.

Part No.	Size	Description
71-14	1/4 lb.	Aluminum Brazing Flux
71-12	1/2 lb.	Aluminum Brazing Flux
71-1	1 lb.	Aluminum Brazing Flux

#73 Aluminum Welding Flux

Use for welding aluminum and alloys. Recommended for use with #4043 Bare Aluminum. This flux produces a strong, non-porous weld by keeping the base metal and rod free of oxides during welding. Mix with water to form a paste and apply to both rod and metal. After welding, remove with warm water. Basically used the same as #71 except that heat is applied to base metal.

Part No.	Size	Description
73-14	1/4 lb.	Aluminum Welding Flux
73-12	1/2 lb.	Aluminum Welding Flux
73-1	1 lb.	Aluminum Welding Flux

Standard Packaging:

6 - 1/4 lb. jars per box

6 - 1/2 lb. jars per box

4 - 1 lb. jars per box





#585 Super Soldering Flux

A paste soldering flux used for high temperature soldering of aluminum and zinc die cast alloy. Used with Aladdin #33 Low Melt Aluminum Solder to join aluminum to copper, steel, brass, galvanized metal, stainless steel and monel metals. Also recommended for use with 50/50 tin-lead and 95/5 zinc-aluminum solder. Produces especially tight joints when soldering copper to aluminum.

Part No.	Size	Description
585-12	1/2 lb.	Super Soldering Flux

#96 Silver Brazing Flux

A superior general all purpose silver brazing flux for all silver alloys, with excellent creep and flowability. Designed for use with copper, brass, bronze, cast iron, monel, nickel, refractories, steel and stainless steel applications. Commonly used in torch, furnace and induction applications. Residue easily removed with water while the joint is hot.

Part No.	Size	Description
96-12	1/2 lb.	Silver Brazing Flux
96-1	1 lb.	Silver Brazing Flux

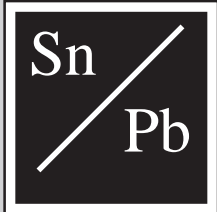
#255 Non-Corrosive Soldering Paste

Always sure and ready to use. Cleans as it fluxes. Excellent all purpose non-corrosive soldering paste flux (petroleum base).

Part No.	Size	Description
255-2	2 oz.	Non-Corrosive Solder Paste
255-1	1 lb.	Non-Corrosive Solder Paste

← Flammable Liquid / Corrosive Liquid N.O.S.
Propyl Alcohol and Zinc Chloride
UN 2924





Tin / Lead Solders • Wire - Bar

Solder is specified by percentage weight of alloy. With tin-lead solders, the tin content in the solder is always listed first; lead content second. The higher the tin content, the better the joint.

ALL SOLDERS Q-P-L APPROVED

Solid Wire Solder - for use when the application calls for solder and a separate flux. Produced by extrusion in tin / lead alloys and lead free alloys.

Bar Solder - particularly adapted to automotive, sheet metal and plumbing industry.

Acid and Resin Core Solder - purest acid makes up the flux core of our acid core solder designed particularly for the automotive radiator industry.

Our resin core solder is designed to comply with the demanding specifications in the electronic industry.

Meets Mil Spec: QQ-S-571E

Sizes: 1 lb Spool, 5 lb. Spool, 25 lb. Spool

Meter Bar = 1/4" x 1/4" x 13.5" (approx. 5 oz.)

Cast Bar = 1/2" x 3/4" x 13.5" (approx. 1 1/4 lb. Bar)

**For further information
Call Toll Free
1-800-265-5678
Fax Toll Free
1-800-668-3626**

		Spooled Diameters					Bars	
		1/8	3/32	1/16	3/64	1/32	1/2#	1 1/4#
50/50	Solid	•	•	•	•	•	•	•
	Resin	•	•	•	•	•		
	Acid	•	•	•	•	•		
40/60	Solid	•	•	•	•	•	•	•
	Resin	•	•	•	•	•		
	Acid	•	•	•	•	•		
60/40	Solid	•	•	•	•	•	•	•
	Resin	•	•	•	•	•		
	Acid	•	•	•	•	•		
30/70	Solid	•	•	•	•		•	•
	Resin	•	•	•	•			
	Acid	•	•	•	•			
35-65	Solid	•	•	•	•		•	•
	Resin	•	•	•	•			
	Acid	•	•	•	•			
63/37	Solid	•	•	•	•		•	•
	Resin	•	•	•	•			
	Acid	•	•	•	•			
95/5	Solid	•	•	•			•	•
	Resin							
	Acid							

You Can't Beat The System: Rod Guard® Total Welding Rod Protection System.



Rod Guard® Cannisters & Accessories provide great storage and inventory control for all your welding electrodes, rods and filler metals. And every one of them is made in America - and built to last.

Each Rod Guard® Cannister is certified chloride-free and features a threaded cap with long-lasting neoprene seal to keep electrodes airtight - preventing them from being contaminated with atmospheric moisture.

Because Rod Guard® Cannisters are constructed of high-impact polyethylene - which protect electrodes from damage - they can be reused for many years.



**14" High Temperature Rod Guard® Cannister
RG-100-HT**

Steel-lined and high-temperature resistant to 450° F. Holds up to 10 lbs. of 12" or 14" electrodes.

**18" High Temperature Rod Guard® Cannister
RG-200-HT**

Steel-lined and high-temperature resistant to 450° F. Designed specifically for 18" electrodes.



**14" Rod Guard® Cannister
RG-100**

Holds up to 10 lbs. of 12" or 14" electrodes. Withstands 225° F.

**18" Rod Guard® Cannister
RG-200**

Designed specifically for 18" electrodes. Withstands 225° F.

**Lincoln Electrodes® Cannister
LE100**

Holds up to 10 lbs. of 12" or 14" electrodes. Withstands 225° F. Available in red with Lincoln Electrodes® Logo. Electrodes not included.



**Storage Rack
RG-101**

Perfect for organizing up to three cannisters at the job site or work station.

Accommodates 14" or 18" cannisters. Cannisters sold separately.



**36" Rod Guard® Cannister
RG-300**

Specifically designed for 36" flux-coated bronze or brazing rod and tig filler-metals. Has .100" nominal wall thickness for added strength and durability. When long cap is removed, rod tips are exposed - allowing easy accessibility to cannister's contents. Built with the same commitment to quality as the original Rod Guard® - with the form, fit and function you've come to expect.

Rod and Dual Cases



Model 61 Welder's Premium Leather Rod Bag

This Rod Holder is a heat and flame resistant leather that is made from durable and pliable side split cowhide.

- 5 lb. capacity
- Riveted Stress Points
- Sturdy clip

- A must for every welder
- Makes a welder's job easier
- Increases efficiency

Model 192 Dual Case

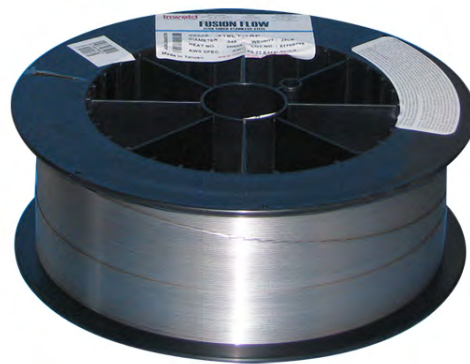
Holds 10 lbs. of welding rod with chipping hammer at your side where you can grab them without looking. This case has a flat bottom and will stand if you choose not to wear it while working. Heavy full grain saddle leather.



Filler Metals

We can offer a complete line of filler metals.

- Electrodes
- Mig Wire
- Tig rods
- much more



Inweld®

Welding Alloys & Supplies

**Call or email for pricing and availability.
1-800-265-5678 • Sales@LencoCanada.com**

The LENCOSPOT[®] MARK II[®]

The Mark II welder makes factory type spot welds in the shop. Simple to operate by pressing the two electrodes against the work and pressing the trigger. Two spot welds are made at one time from a single side. The mark II is simple, efficient, and can be used for a variety of light duty sheet metal applications.

- Time of welds is automatically controlled by solid state electronics
- Protected control panel
- On/Off indicating switch
- Maximum welding capacity is 20 ga. auto body steel
- Tool storage space
- Primary voltage is 230 single phase 50/60 Hz, 50 amp or 480 single phase 50/60 Hz, 30 amp
- 50' power cable on 230V models.

Model	Part No.	Voltage	Shipping Weight
L-4000	A20400	230	110 lbs.
L-4480*	A20480	480	97 lbs.

*w/o power cable



OPTIONAL Accessories

Replacement tips

Model	Part No.	Description
A-144	A21050	Regular welding tips (pkg 2)
A-145	A21040	Drip rail welding tips (pkg 2)

Model	Part No.	Description
QPK-20	A27420	Quick Pull dent pulling attachment
L-950	A27001	Uni-Spot III squeeze type weld cable assembly
UL-201	A27201	Long Spot Tip
US-202	A27202	Short Spot Tip
UD-203	A27203	Drip Rail Spot Tip

LENCOPULL Portable Dent Pulling Systems

Lenco dent pulling systems allow for any type of pull in any situation. Just weld the star tip to the panel by pressing the trigger, pull, and twist to remove. No more draw pins to cut and grind, saving valuable time and money. The systems have their own specially designed transformers and are available in 120 or 230 VAC.

- Star tip welds directly to the panel
- Built on slide hammer for one step operation
- Includes heat shrinking tip
- 7' welding and 7' ground cable leads
- 25' power cable
- Shipping weight is 64 lbs.

LP-2000

Model	Part No.	Voltage	Amperage Requirement
LP-2000	A20720	230 Single Phase	20 Amps
LP-2000	A20820	120 Single Phase	20 Amps

Replacement tips

Model	Part No.	Description
QP-451	A27451	Star tips (package of 10)

OPTIONAL Accessories

Model	Part No.	Description
A-2000	A22150	Service cart
QC-469	A27469	Quick claw kit
SPK-102	A28916	Welding tip-long studs
A-202	A21100	Welding tip-slotted
SPK-103	A28917	Welding tip-mold rivet
A-200	A21080	Welding tip-hollow, stud welding



PANELMASTER

The Lenco PANELMASTER combines durability and functionality, making it a cost effective, workhorse welder for today's collision repair market. With fully liquid cooled welding leads and a newly designed ultra efficient transformer, the PANELMASTER delivers 8000 amps of welding power dependably and consistently. Simple, user friendly operation with single dial weld adjustment takes all the guess work out, saving valuable time and increasing profits. Also included with the PANELMASTER are a single side welding lead assembly, 14" electrode arms, and wheelhouse electrodes for difficult to reach areas.

- Generates 8,000 amps
- Clamping force of 550 lbs.
- Maximum welding capacity of 3 pc. 18 ga.
- Mounted on easy movable cart
- Has one sided spot welding gun
- 14" long reach arms
- Wheelhouse electrode arms
- Primary voltage is 208/230 single phase 50/60hz. 60 amps
- Shipping weight 285 lbs.
- 25' power cable



Part No.	Description
A20947-B	14" electrode arms - included



Part No.	Description
A20946	Wheelhouse electrode arms - included



Model	Part No.	Description	Primary Voltage	KVA Rating	Line Fuse	Size	Power Input Cable	Maximum Welding Capacity	Duty Cycle	Shipping Weight
LPM-8	A20610	PANELMASTER	208/230 VAC Single Phase	8	60 Amp	45"H x 23"W x 25"D	25'	3 pc. 18 ga. sq. gun	50%	300 lbs.
B-144	A26144	Welding tips - standard arms (pkg 2)								
B-143	A26143	Welding tips - long reach arms (pkg 2)								
LAS-415	A23415	Coolant - 1 gallon								



TEMPERATURE INDICATORS

Tempilstik°, Tempilaq° and Tempil° Pellets are available in the following temperatures: All indicators are identified in both Fahrenheit and their corresponding celsius ratings.

OVER 1 MILLION QUALITY-TESTED, SUPERIOR WELDS

An inexpensive alternative for surface temperature measurement, Tempilstiks are easy-to-use with no gauges or electronics and no calibration required. Available in over 100 temperature ratings from 100°F to 2000°F (38°C to 1093°C), each Tempilstik is supplied with a unique slip-resistant metal holder, specifically engineered for smooth operation and maximum user control. Tempilstiks are precise even for the most critical jobs and meet the preheat temperature requirements of AWS D1.1 and other welding code specifications.

SUPERIOR QUALITY WELDS

- Exceeds industry standards delivering products free of sulphur, lead, and halogen contaminants.
- Composed of high-quality materials that are advantageous to the welding process.
- 70 year track record meeting WPS, WPQR, and WPQ requirements.

INCREASED EFFICIENCY

- Faster results reduce set up and downtime.
- Reliable in the most extreme welding environments.
- Unique slip-resistant aluminum holder secures stick and maximizes control.

HAVE GREATER CONFIDENCE

- Secure supply chain and experienced distribution network.
- Prequalified – meets AWS D1.1, ASME Code Sec. I, III, and VIII, ANSI/ASME Code B31.1 and B31.3.
- Consistent traceability – each Tempilstik is marked by temperature, lot number, and is NIST traceable.

KNOW THE RIGHT TEMPERATURE

- Easy to understand visual melt identifies results +/- 1% of rated temperature.
- Reduce the danger of crack formation and shrinkage stress.
- Less likelihood of distortion and hard zones near the weld area.
- Promotes hydrogen diffusion from steel.

APPLICATIONS

- Preheating
- Annealing
- Stress relieving
- Interpass heat treatment
- Post heating
- And many more...

HOW TO USE

Touch the heated surface with the Tempilstik and it will melt, making a distinct mark once the surface reaches the rated temperature.

FAHRENHEIT RATINGS							
°F	°C	°F	°C	°F	°C	°F	°C
100	38	250	121	400	204	800	427
104	40	256	124	410	210	850	454
109	43	257	125	413	212	860	460
119	48	263	128	419	215	900	482
122	50	266	130	425	218	932	500
125	52	269	132	428	220	950	510
131	55	275	135	437	225	1000	538
140	60	284	140	446	230	1022	550
150	66	288	142	450	232	1040	560
158	70	294	146	455	235	1050	566
163	73	300	149	463	239	1100	593
167	75	302	150	475	246	1112	600
169	76	306	152	482	250	1150	621
175	79	311	155	488	253	1157	625
176	80	313	156	500	260	1200	649
182	83	320	160	518	270	1250	677
185	85	325	163	525	274	1292	700
188	87	329	165	536	280	1300	704
194	90	338	170	550	288	1400	760
200	93	344	173	554	290	1450	788
203	95	347	175	572	300	1500	816
206	97	350	177	575	302	1550	843
212	100	356	180	600	316	1600	871
213	101	363	184	608	320	1650	899
219	104	374	190	650	343	1700	927
225	107	375	191	662	350	1800	982
230	110	383	195	700	371	1900	1038
239	115	388	198	750	399	1950	1066
248	120	392	200	752	400	2000	1093

For people working in metric that prefer round number Celsius ratings, Tempilstiks° are available in even numbered "celsius" ratings as well. Call for an up to date list.

Part No.	Description
TS-temp	Tempilstik° (State Temperature)



Tempilstik® Test Kit

Most useful for welding inspectors, welding instructors and welding supervisors, our Tempilstik® Test Kits provide all the information needed for determining the proper temperatures for welding, heat treating, soldering, brazing and other operations involved in the fabrication of most metals. In addition, a Tempilstik® Test Kit provides information for measuring preheat, interpass and postweld heat treatment temperatures. These temperatures are available in our Test Kits: 125°F, 150°F, 175°F, 200°F, 225°F, 250°F, 275°F, 300°F, 325°F, 350°F, 375°F, 400°F, 425°F, 450°F, 475°F, 500°F, 550°F, 600°F, 700°F, and 800°F.

A standard test kit contains: 20 Tempilstik® indicators systematically spaced between 125°F (52°C) and 800°F (427°C), a Preheating Chart and a Basic Guide to Ferrous Metallurgy.



Tempilaq® is made of the same material as Tempilstik®. This material is suspended in a quick-drying, inert vehicle. Most are non-flammable. Tempilaq® is available in the same 102 temperature ratings as Tempilstik® and carries the same 1% accuracy. Lot numbers on each bottle allow it to be traced to the specific batch of raw material from which it was made.

How to Use

Apply a thin coating of the appropriate Tempilaq® by brush to the workpiece before heating begins. It dries almost instantly to a dull opaque mark. When its specified temperature is reached, the Tempilaq® mark liquefies (melts) sharply.

CAUTION - Disregard any colour change that may occur during heating. This has no significance. It is only the melting of the Tempilaq® mark that indicates when the rated temperature has been reached.

Upon cooling, the melted Tempilaq® mark will solidify to a glossy-transparent appearance. Tempilaq® can be diluted to any desired consistency without changing its melting point. The thinner the coating used, the quicker the reaction time will be when the temperature has been reached. Use only Tempilaq® thinner, and only the thinner recommended for the specific temperature rating being used.

Cleaning Use the same procedure as for Tempilstik®.

Part No.	Description
TL-temp	2 oz. bottle with brush (State Temperature)

Applications

Tempilaq® should be used on surfaces which cannot be easily marked with a Tempilstik®, such as polished metal, glass, plastic, rubber, fabrics or electronic components. It should also be used for making larger marks than can conveniently be made with Tempilstik® (for viewing at a distance). It is widely used for monitoring critical temperatures in the electronics field, such as preheat temperatures for wave soldering. Other applications include dielectric heatsealing, postforming plastic laminate, and annealing polished metal surfaces.

Bloxide® is a weldable rust preventative that insures x-ray quality welds. The aluminized coating acts as an oxygen barrier that protects against rust. It also forms aluminum oxide in the weld puddle which reduces porosity and pinholing.

The use of Bloxide® eliminates recleaning of sub assemblies prepared for welding even after they have been in outside storage for several months. It is an excellent weldable primer paint, and leaves no objectionable residue or slag. Bloxide® is free of lead, sulphur, zinc, cadmium, mercury, chlorine or other halogens which make it safe for the nuclear fabrication industry. It will also withstand temperatures up to 800° F.

How to Use

Bloxide® can be applied by brush or spray. It requires no special training, equipment, or precautions for effective application. Bloxide® is quick drying, forming a tack-free, tenacious film in minutes. Coverage is approx. 800-1000 sq. ft. per gallon.

Typical Applications

Bloxide® can be advantageously used on all steels, and is compatible with most welding processes. It should be considered for x-ray quality work.

Part No.	Description
BLAR	13 oz. aerosol
BLQT	1 quart can
BLGL	1 gallon can

Anti-Heat® is a protective heat-sink compound that confines heat to the welding, brazing, or soldering zone, protecting adjacent areas from undesirable heat build-up. It minimizes risk of heat damage, prevents discolouration, warping, buckling or other distortion of light-gauge metals.

How to Use

Anti-Heat® is easy to apply. Simply spread it on right from the can. Tube will fit standard caulking gun. It is harmless to the skin, odourless, non-toxic, and will not stain the base metal. To clean, just wipe off excess and wash with water.

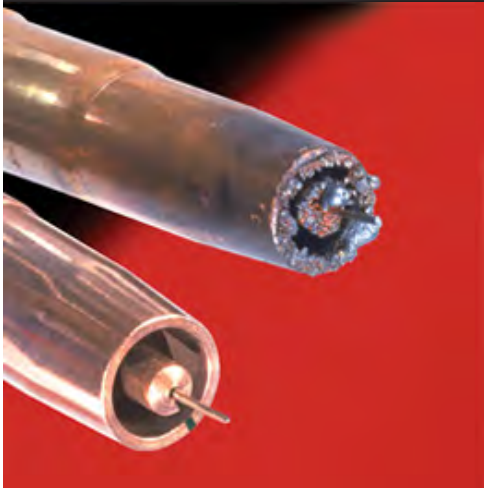
Typical Applications

Anti-Heat® can be used effectively to protect thin gauge metals from objectionable heat inflow due to welding, brazing, soldering or other heat sources.



Other Tempil products available, including Electronic Surface Thermometer, TempilLabels, Tempil-Alarm and High Temperature Paint. Call for information.

Part No.	Description
AHT	12 oz. tube
AHQT	1 quart can
AHGL	1 gallon can



Prevent Spatter Build-up!

Tips, nozzles and gas diffuser areas are guaranteed to stay clean of spatter with these highly engineered, inventive products. WELD-AID PRODUCTS have also proven effective and easy to use on parent metals as well.



AEROSOLS

NOZZLE-KLEEN® HEAVY DUTY

is used for the highest temperature application. Ideal for today's inverted welding temperatures and argon rich gases. Provides excellent anti-spatter protection for stainless steel. No fluorocarbons, non-flammable, and paintable.

16 oz. Part No. WA-7020

NOZZLE-KLEEN #2

Highest quality product for most applications. Non-flammable and paintable. No fluorocarbons.

16 oz. Part No. WA-7022



GELS

HEAVY DUTY NOZZLE-DIP® GEL

Water based for the highest cooling protection. Cooling gives longer Tip & Nozzle life. Gel does not migrate to liner area to cause build-up or wire jamming. Non-flashing & biodegradable for safety. Paintable & non-toxic.

**Part No. WA-7094 - quart
WA-7095 - gallon**

CLEAN NOZZLES!

NOZZLE KLEENER® TOOLS

Nozzle Kleener® tools helps insure even gas coverage necessary for good weld penetration and appearance with less spatter.



These tools are engineered to remove spatter without scarring from nozzle, tip and gas diffuser areas without disassembly when hot. Ground and hardened to 55 rc, for a lifetime of use.

Part No.	Nozzle Kleener Tool
WA-7001X	NK-1X up to 1/4" Tip - 3/8" Nozzle & Up
WA-7002X	NK-2X up to 5/16" Tip - 1/2" Nozzle & Up
WA-7003X	NK-3X up to 5/16" Tip - 5/8" Nozzle & Up
WA-7004X	NK-4X up to 3/8" Tip - 5/8" Nozzle & Up
WA-7005X	NK-5X up to 13/32" Tip - 3/4" Nozzle & Up





CLEAN AND FEED WIRE!

Weld-Aid LUBE MATIC® products are engineered to clean and lubricate wire, improve feedability, reduce spatter, and promote longer tip and liner life. Reduces wire drag by 60% and feeds wire more smoothly with poor cast, helix and rust. LUBE-MATIC® is the solution for longer wire feeding. (liner over 10ft, 3m)



LUBE-MATIC® WIRE KLEENER & LUBRICANT

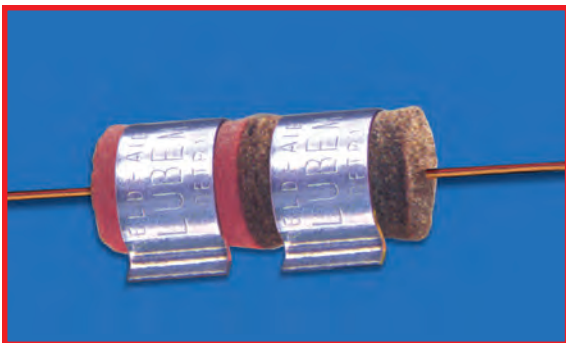
Cuts rust and reduces drag in liners 60%.

Part No. **WA-7040** - 5 oz.
WA-7050 - 46 oz.

LUBE-MATIC® WIRE KLEENER PADS

Red pads are for all wires all the time (including aluminum and stainless). Last chance to clean wire and reduce burn backs 50%.

Part No. **WA-7061**



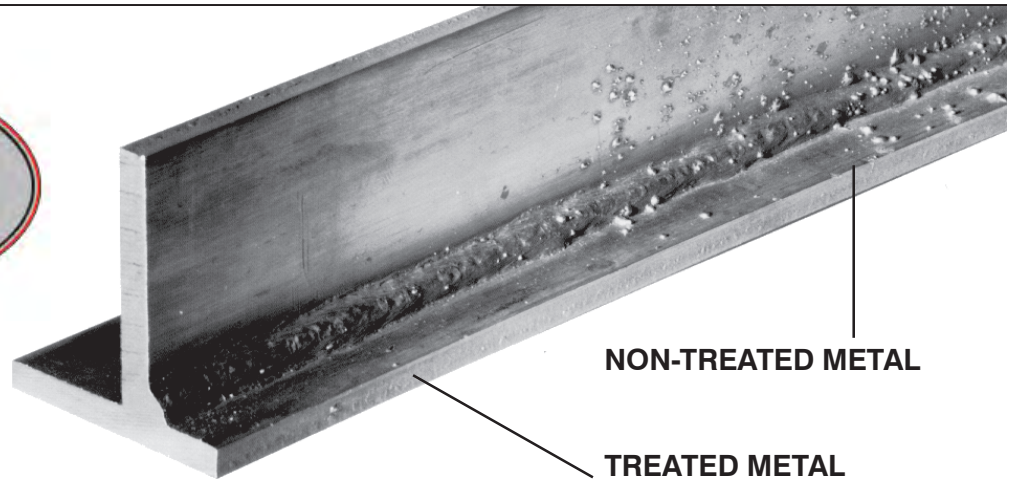
LUBE-MATIC® LUBE PADS

Black pads are engineered to apply LUBE-MATIC® lubricant (come pre-treated). Re-apply lubricant as necessary. Lubrication allows smooth feeding of wires with poor cast, helix, rust and long feed liners (over 10ft, 3m). Not recommended for aluminum.

Part No. **WA-7060**

Part No.	Product	Colour	Rating	Density	Tensile	Packed Measure
WA-7060	Lube Pads	Black	SAE F-7	26.2	250 psi	6 Pads; 6 Pressure Clips
WA-7061	Wire Kleener Pads	Red	SAE F-2	34.2	500 psi	6 Pads; 6 Pressure Clips
WA-7062	Combo Pack	Both				1 Lube Pad 1 Kleener Pad





NON-TREATED METAL

TREATED METAL

Protect Parent Metal!

Parent metal and fixture applications come out cleaner and appear more attractive because Weld-Kleen® products are engineered and guaranteed to prevent spatter build-up. Regular use of these products reduces the need for grinding and other clean-up procedures and cut costs as well. For stainless steel, please use Nozzle-Kleen® Heavy Duty.



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 tooling protection. Paintable, non-flammable, no fluorocarbons.

20 oz. Part No. WA-7030



WELD-KLEEN 350®

A water based product developed for use in most parent metal jobs that have been used by all leading manufacturers and proven effective in improving product quality. Excellent for robot torch Blow down systems. Economical and safe. Biodegradable, non-toxic and paintable. Can be frozen. Available in bulk.

- | | |
|----------|---------------------------------|
| Part No. | WA-7088 - 13.64 oz. Non Aerosol |
| | WA-7089 - Quart (US) |
| | WA-7090 - Gallon (US) |
| | WA-7091 - 5 Gallon (US) |
| | WA-7092 - 55 GALLON (US) |





Serious about stopping rust?

Brite Zinc is a compound developed for galvanizers that is the solution manufacturers trust worldwide. It is a scientific fact that zinc shields other metals from the corrosive effects of moisture through a process called galvanic action. Manufacturers galvanize products that they want to endure the tests of time and the elements.

Brite Zinc combines the proper corrosion-inhibitive properties of metallic zinc (70% in the dry film) and a corresponding high percentage of epoxy esters to assure that zinc protection stays in place. As a result, Brite Zinc can be used as a one-step process for the repair of damaged hot-dip galvanized steel or cold galvanizing without need for primer or topcoat.

Brite zinc has provided the premier solution for rustproofing for over 21 years and will continue to be the industry's leader in rustproofing solutions.



BRITE ZINC®

Brite Zinc provides a non-toxic and metallic silver finish matching the look of hot-dip galvanizing and possesses outstanding salt spray resistance conforming to the performance requirements for all. A convenient fast drying, zinc-rich coating. Can be top-coated.

12.5 oz. Aerosol Can Part No. WA-B-100
1 Gallon Can Part No. WA-B-200



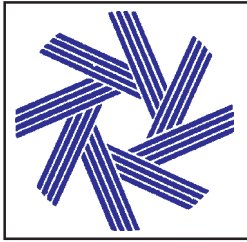
1ST ZINC®

A 95% zinc-rich coating for primer coats of parts & assemblies to be top-coated. Provides maximum corrosion protection for cold-galvanizing applications. Excellent primer or stand alone use, lowest contamination risk, meets ASTM A780 standards.

12.5 oz. Aerosol Can Part No. WA-FZ-100
1 Gallon Can Part No. WA-FZ-200



FELTON BRUSHES



Welders Brushes

WIRE SCRATCH BRUSHES

Popular all-purpose brush for cleaning structural steel, iron works, castings, all types of dirt and rust removal. Brushes are filled with oil tempered steel wire, stainless steel wire or brass wire.



CURVED HANDLE

Length of Brush Part 6", 15 cm
Overall Length 14", 35 cm

Mfg. No.	Lenco No.	Rows	Block Width		Wire Size	
			in.	mm	in.	mm
601083	FE-1777	3 x 19	15/16	24	.015	.40
601084	FE-1777B	3 x 19	15/16	24	.012	.30
601085	FE-1777SS	3 x 19	15/16	24	.015	.40
601017	FE-188	4 x 19	1 1/8	30	.015	.40
601018	FE-188B	4 x 19	1 1/8	30	.012	.30
601019	FE-188SS	4 x 19	1 1/8	30	.015	.40

B - Brass SS - Stainless Steel



SHOE HANDLE

Length of Brush Part 5 1/4", 13 cm
Overall Length 10", 25 cm

Mfg.No.	Lenco No.	Rows	Block Width		Wire Size		TrimLength	
			in.	mm	in.	mm	in.	mm
601089	FE-1781	4 x 16	1 1/16	27	.015	.40	1 1/8	30
601090	FE-1781B	4 x 16	1 1/16	27	.012	.30	1 1/8	30
601091	FE-1781SS	4 x 16	1 1/16	27	.015	.40	1 1/8	30

B - Brass SS - Stainless Steel



ACID BRUSHES - TIN FERRULE STYLE

Mfg. No.	Lenco No.	Width		Trim Length		Overall Length	
		in.	mm	in.	mm	in.	mm
902050	SB748	3/8	9	3/4	19	5 3/4	15



STAINLESS STEEL WELD CLEANING MACHINE

EASYkleen PLUS Brush DC Weld Electropolisher



**Cleans, passivates,
polishes stainless steel
and stainless steel welds**

The **EASYkleen PLUS BRUSH** has a unique high power positive current with a fluctuating wave which is the underpinning technology that makes the **EASYkleen PLUS BRUSH** extremely fast.

This unique DC wave form not only improves the speed of the weld cleaning but the DC delivers a more corrosion resistant and reflective finish and reduces the weld contamination risk of an AC used on other electrochemical machines. Furthermore the **EASYkleen PLUS BRUSH** can deliver more amps on it's DC.

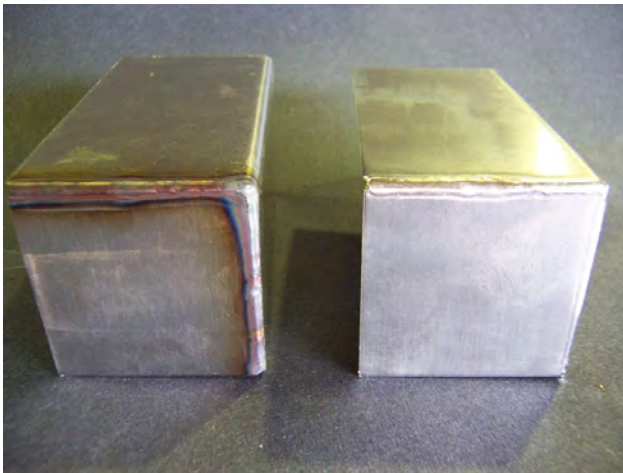
The **EASYkleen PLUS BRUSH** has larger and more fibre dense brushes which also improves speed and importantly reduces micro pitting problems that AC and increased wattage can create. Simple to operate, no preset required. Works on Chromium stainless steel. Simple to use - switch on - switch off.



*Electro Polisher
with Solution feed
brush also available
Call to inquire*

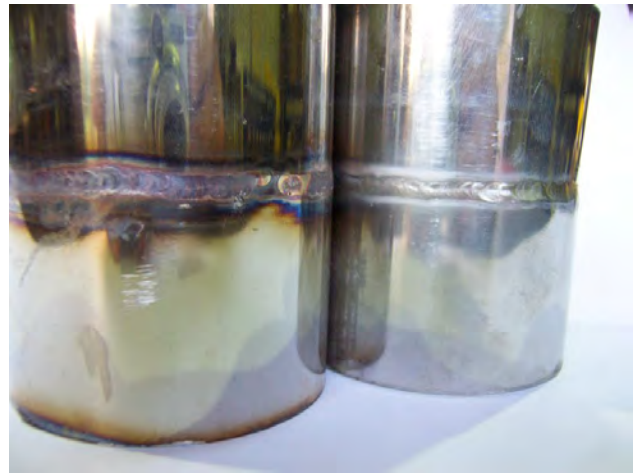


up to 40% faster



**1.2mm No. 4
EASYklean PLUS BRUSH
Craftsman brush 21 sec. vs. other
equivalent cleaners**

up to 50% faster



**1.6mm No. 4 60mm Tube
EASYklean PLUS BRUSH
Craftsman brush 40 sec. vs. other
equivalent cleaners**

- The process employed is an electro polishing method but is portable, can be used on site and for small areas that require remediation.
- It is effective in passivating and therefore improving corrosion resistance of surfaces.
- It removes rouge, rust and stains from surfaces.
- It dissolves the particles that the inclusions cling to therefore removing the particles.
- It microscopically smooths the surface giving the best possible finish.
- It removes weld scale and decolouration.
- 100% duty cycle.



MST128USA
Neutraliser 1 litre



EKP102USA
Cleaning Solution 1 Gal.



Part No.	Description
EKP106USA	Craftsman Brush (red)
EKP107USA	Workman Brush (black)
EKP105USA	Spot Brush & Sleeve (yellow)
EKP114USA	Master Brush (blue)

Part No.	Description
EKP100USA	EASYklean Plus BRUSH Kit Contains: <ul style="list-style-type: none"> • EASYklean PLUS Machine • 1 Gallon Cleaning Solution • Brush kit (1 of each brush) • Ground clamp and cable • Brush handle and cable • Power cord • Manual & MSDS sheets

flange wizard® tools



“Welders Choice for Quality”

Master Marker

Part No.
FW-MM-501

- Main body has its own levelling system built-in and a strong magnetic base that works like a third hand (fig. 'A').
- Marking arm holder telescopes and rotates 360° to allow the marking of larger pipes and fittings (fig. 'B').
- Great for marking angles on pipe and structural steel (fig. 'C').
- Structural Adaptor now included (fig. 'D').

A structural adaptor is now included with your FW-MM-501 Master Marker. Even though you don't need an adaptor for marking pipe with your master marker, the new structural adaptor, for marking H-beam, I-Beam, angle iron, plate and square tubing, makes the job a lot easier.

The magnetic base on your master marker holds the adaptor in place while marking whatever angle you need (fig. 'E').

fig. A

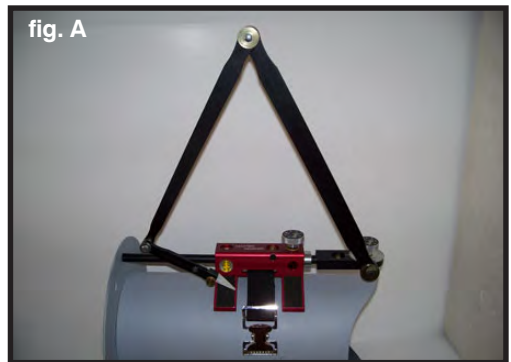


fig. B

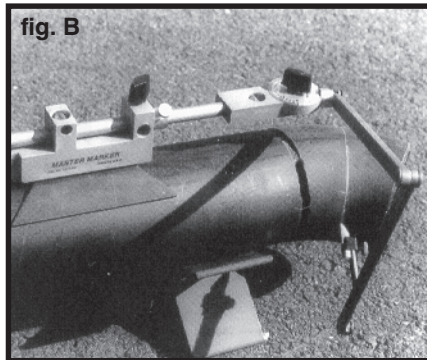


fig. C



fig. D

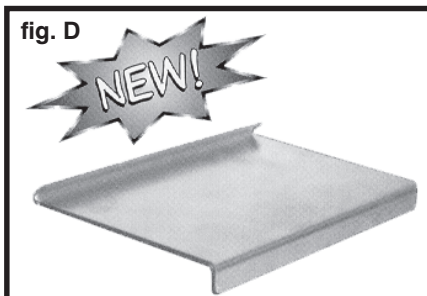


fig. E



Pocket Pro Level

Part No. FW-PP-200
 It's extra strong magnet will hold firmly to any steel surface. The two (2) 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. The dial is in 2½ degree increments with spring tension for easy operation. Only 9" long and 1½" wide for easy handling and storage.



Radius Markers

Part No. FW-72805
STANDARD
 The Wizard Radius Marker is a precision tool made of rust proof aluminum. Precisely aligned arms guarantee accuracy and rigidity for years of service. Holder accommodates flat or round soapstone and pencils. Folds to pocket size.

FW-72800
SMALL
 Standard 25" span - 50" circle

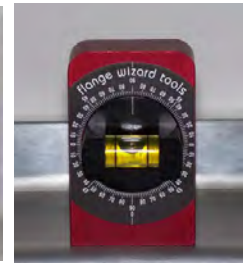
FW-72810
LARGE
 Small 11" span - 22" circle
 Large 50" span - 100" circle



Accessory Degree Level

Part No. FW-L-2
 The Shirt pocket size (1-1/2" x 2-3/8" x 5/8" thick) degree dial level makes it easy to establish angles, set tanks, layout keyways and measure decline or slope. The level body is permanently marked in 2.5° increments and numbered every 10 degrees. It has strong magnets in the base for easy hands-off use and can even hold the end of a tape measure for solo use. Great level for getting angles on hard to reach pipe or structural steel details.

ROOF PITCH	LEVEL DEGREES
1/12	4-1/2°
2/12	9-1/2°
3/12	14°
4/12	18-1/2°
5/12	22-1/2°
6/12	26-1/2°
7/12	30°
8/12	33-1/2°
9/12	37°
10/12	40°
11/12	42-1/2°
12/12	45°



On the back side of the tool is a PITCH/LEVEL DEGREES scale for easy referencing. Tool is machined from aluminum and anodized for a protective finish.

Wizard Wrap

Part No. FW-WW-16
 Small 1" x 6" pipe
FW-WW-17
 Medium 2" x 16" pipe
FW-WW-17A
 Large 2" x 30" pipe

Wizard Wrap, made from a non-asbestos, heat resistant material, has a nice thick edge for easier more accurate marking and to help your soapstone from slipping.

Exclusive features:

- 36" tape measure printed on the medium and large Wizard Wraps. 28" tape measure printed on the small Wizard Wrap. This limits the need for an extra tape measure and makes mark-up easier.
- "Circumference and Quartering" scale printed on small, medium and large Wizard Wrap. This limits the need for calculations because the exact circumference, 1/4, 1/2 and 3/4 of the circumference, plus the actual pipe diameter for 2" through 30" pipe is printed on the outside of the Wizard Wrap.
- Packaged in a durable, reusable container that will hold up in your tool box.
- **Special order lengths: L=5 x diameter**

Wizard Wrap is a high density product for heavy duty service at temperatures up to 360° F. It has outstanding resistance to oil, gasoline, greases, kerosene, water, sea water and is made from a non-asbestos material. Note: Special order lengths and widths available.



Pipe Flange Aligner

Part No.
FW-38240-T
FW-38240-TL

FW-38240-T - This model has pins which are threaded for flanges to 30" - 150 lbs. Fits flanges with holes 1/2" to 1 7/16" diameter.

FW-38240-TL - This is our largest model. Fits flanges with holes 1/2" to 1 15/16" in diameter.

All models of the Pipe Aligner will two-hole (make 2 holes of the flange horizontally level with the ground) and vertically level the face of the flange in ONE easy step.

All models now come with 360° vials that just "snap" in and out for easy replacement.

The Pipe Flange Aligner saves valuable fit-up time, in most cases it cuts fit-up time in half and eliminates the frustration of balancing a level on the pins.



Two Hole Pins

Part No.
FW-42050-T
FW-42050-TL

FW-42050-T - This model has pins that are threaded. One pin has a bubble for easier vertical levelling.

FW-42050-TL - This is our largest set for holes up to 1 15/16" in diameter. One pin has a bubble for easier vertical levelling.

All models now come with 360° vials that just "snap" in and out for easy replacement.



Multi-Purpose "Chariot Cutting Guide"

Part No. FW-24219 **flange wizard**'s® New Multi-Purpose "Chariot Cutting Guide" is a must for every tradesmen who uses a cutting torch. Standard model will cut circles up to 39" in diameter. It can bevel circles up to 36" in diameter. Cut straight, irregular shapes, circles and bevel with this NEW versatile tool.

- Brass construction at heat stress point.
- Universal bushing fits all torches.

Shown cutting out a circle with wheel on outside of cut.

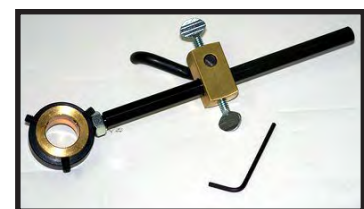
Shown with both wheels on one side. This is for trimming or bevelling the edge of a plate.



Circle Wiz

Part No. FW-CW-300 NEW Circle Wiz cutting attachment is a must for anyone who cuts small to medium holes in plate or pipe. It is especially handy for cutting out holes for matching saddle cuts, weldolets and threadolets. Made of solid brass and steel, the Circle Wiz has all the same qualities as other flange wizard tools. The universal brass bushing will adapt to any size or make of cutting torch.

The Circle Wiz will cut holes from 5/8" to 12" in diameter. Simply slide the centre pin along the hex arm to attain the proper radius of hole desired. Place the sharpened point in your centre mark and you are ready to cut.

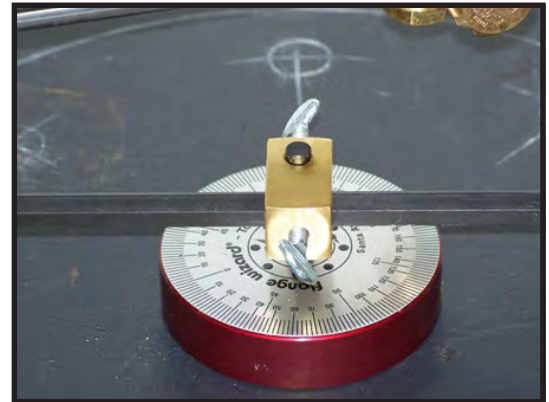


Magnetic Circle Layout & Burning Guide

Part No.
FW-28439

As a **circle layout tool** with sliding soapstone holder and 360° scale on the magnetic base. Will cut circles up to 30" in diameter. Bolt circles, hole locations, baffle plate placement, and circle sectioning for any number of reasons is a snap with **flange wizard's**® layout scale and sliding soapstone holder.

As a **circle burning guide** use this same tool to cut a round plate, simply place the sharpened pin of the layout tool into your centre punch mark and let the magnet slide down to sit firmly on the work surface. The magnet is strong enough to support the weight of your torch, which frees your hands for more cutting control.



Standard Centering Head Tool

Part No.
FW-53076

Replacement

Level Vial

FW-5

Degree Vial

FW-17

The Standard Centering Head Tool with its one piece "Y" shaped body is designed to establish and mark a centreline at any angle around the circumference (inside or outside) on a pipe or tank. Use it as a protractor level, or remove and use the hardened centre punch for other marking jobs. The easy to replace 360° vial makes it a snap to repair. The 2½° increments are now replaceable on the main body for lasting service. This tool is a must for the welder or fitter's toolbox.



Magnetic Blocks

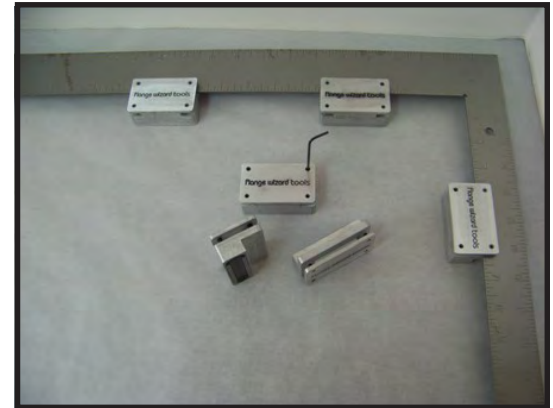
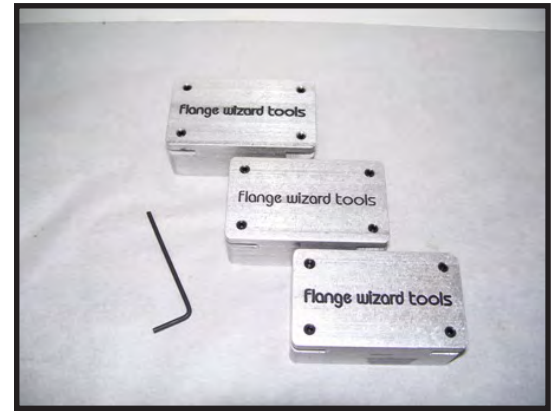
Part No.
FW-3-28

These new magnetic support blocks can be attached to any standard square to form your own burning guide. Also use them to hold your square for various jobs.

Attach to any straight edge up to 1/8" thick to form your own burning guide.

Three blocks to a set.

U.S. Pat. No. 4391-433



Magnetic Torch Guide

Part No.
FW-12340
FW-12340-24

New improved Magnetic Torch Guide has adjustable holding blocks and cutting rail extensions available that allow you to add all the length you need for those special cutting jobs. The cutting guide is stainless steel and works with conventional or plasma torches.

The **basic model FW-12340** is 24" in length with two adjustable magnetic blocks.

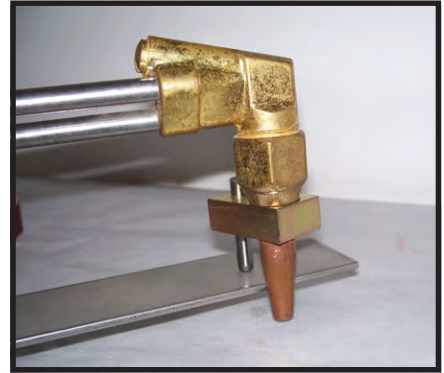
The **24" Extension FW-12340-24** comes complete with a 5" long magnetic connector block.



Torch Tip Standoff

Part No.
FW-70501

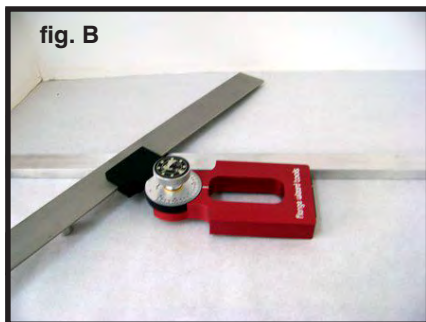
The New Torch-Tip-Standoff is a must for anyone who uses a cutting torch and wants to keep their tip at the proper burning height at all times. Not only will this assist you in making more uniform cuts, but it will keep your cutting tips from being damaged and always ready for your next burning job. Simply slide the standoff over the cutting tip and against the bottom of the torch nut and tighten the set screw. Now you are ready to adjust the proper height by moving the sliding adjusting rod to a position that will keep the cutting tip at the desired distance from the work and tighten the set screw. You are now ready to burn with confidence.



Multi-Use Angle Burning Guide

Part No.
FW-70001

The New Angle Burning Guide with magnetic base (as shown in fig.'A') is a must for every person who uses a conventional or plasma torch and wants an excellent angle or straight cut everytime. It can also be used as a protractor, or as a multi-angle tri-square (as shown in fig. 'B'). The Angle Burning Guide will hold any standard square as well as most straight edges (as shown in fig. 'C'). Special squaring and marking jobs are a snap with your new multi-use tool.



The base is made of anodized aluminum with 3 strong magnets to hold it steady while in use. The cutting rail is 16" long and made from series 300 stainless steel. Cutting rail extensions with a magnetic foot can be ordered as an accessory item.



Pipe-Pro Cutting Guides

Pipe-Pro Guides are easy-to-use templates that provide an easy guide for marking cuts on pipes. They save time and money with less waste and a better fit. Two double-sided templates create 4 different cutting guides at 45°, 90°, and 22.5°. They're lightweight and durable, and every Guide comes with a lifetime guarantee. Use Pipe-Pro Guides for fencing, corrals, handrails, race cars, and more!

Magnets on inside of cutting guide help to hold the guide in place.

Part No. PPMEKIT

- Includes:
 1- Metal 1-7/8"
 1- Metal 2-3/8"
 1- Metal 2-7/8"



Part No. PPMEKIT-LG

- Includes:
 1- Metal 3-1/2"
 1- Metal 4-1/2"

Case doubles as a display box.
 12 - PPMEKIT per case
 6 - PPMEKIT-LG per case



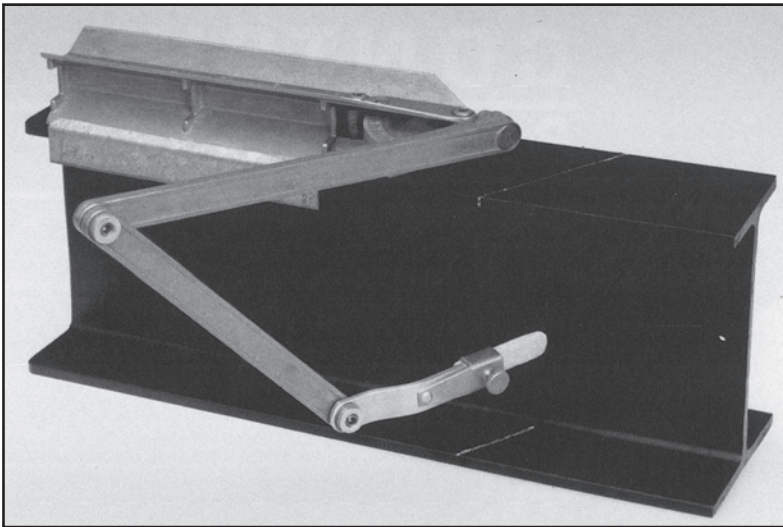
HOW TO USE

1. Place template around pipe
2. Trace the template
3. Remove the template
4. Start cutting!



TOOLS MADE TO HELP YOU WORK WITH PRECISION

Curv-O-Mark® layout systems have earned a reputation for quality and consistency over a wide range of industries. Easy to use, made to use longer, there are Curv-O-Mark tools to help bring precision to most any layout task.

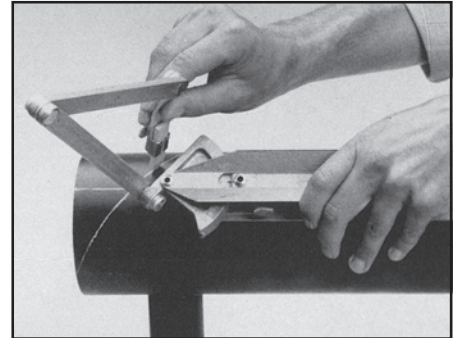


CONTOUR MARKER®

The Curv-O-Mark® Contour Marker is a compact, timesaving 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. No more cut and try. No more needless material waste.

The Contour Marker can be used to lay out pipe from 1-1/2 to 18 inches diameter, or structural steel members up to 18 inches.

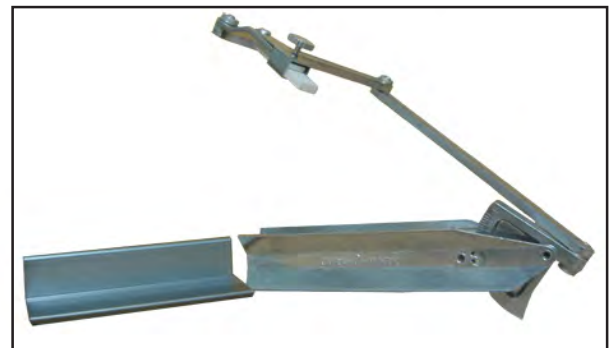
The Contour Marker consists of an X-shaped frame, calibrated protractor, and a triple-jointed marking arm and holder. The holder accepts a soapstone crayon (included), felt pen or pencil. The frame easily folds into a compact tool that fits into a pocket or carrying case. It can be used right side up or upside down, depending on the direction of the line to be scribed. The protractor is calibrated on both sides - one in degrees, the other in rise-inches-per foot - to service any type of measurement need.



The Contour Marker is easy to use. Layout angles are set with the marker's calibrated protractor and scribed directly onto the pipe using the marking arm. No mathematical equations are required.

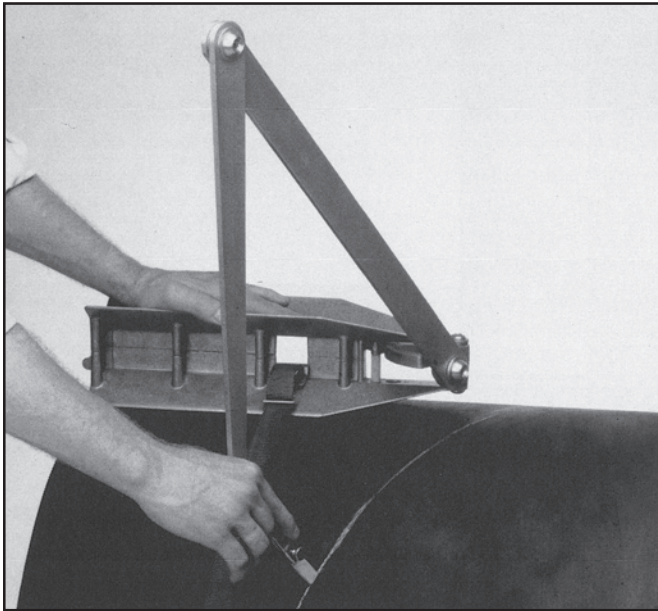
The unit comes with a Structural Adaptor designed to simplify the layout of structural joints, including I-beams, angles, channels, square tubing and similar shapes. The optional Combination Adaptor Accessory allows the Contour Marker to lay out joints on larger size pipe, as well as scribe compound angles with just one setting.

The Contour Marker is made from durable, lightweight aluminum. It requires minimal maintenance, only occasional oiling of the joints, to provide long service life.



CONTOUR MARKER

C-0721-0000 CM-1

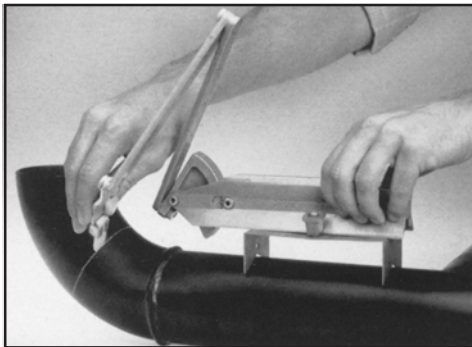


JUMBO CONTOUR MARKER™

A larger version of the Contour Marker, The Jumbo Contour Marker (JCM) has been developed for use in the layout of large diameter pipe, from 8 to 48 in. With its Structural Adaptor, the JCM can be used in the layout of extremely large structural steel members up to 48 in. wide.

The JCM comes complete with a durable web strap that helps hold the unit in place during layout. A built-in adjustable dial bubble protractor ensures accurate centre-line location. A soapstone crayon is included.

Like the standard model, the JCM's capability can be increased with the Combination Adaptor Accessory.

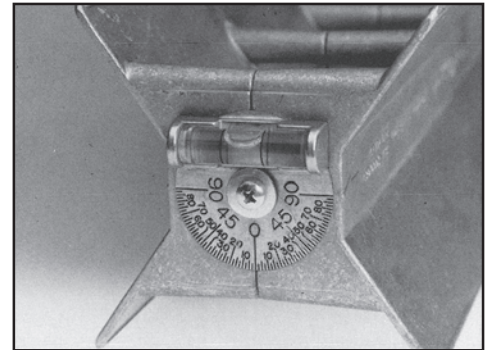


STANDARD COMBINATION ADAPTOR

C-0721-0001 CM-2

JUMBO COMBINATION ADAPTOR

C-0721-0004 CM-5



A built-in protractor provides easy, accurate measurement.



JUMBO CONTOUR MARKER

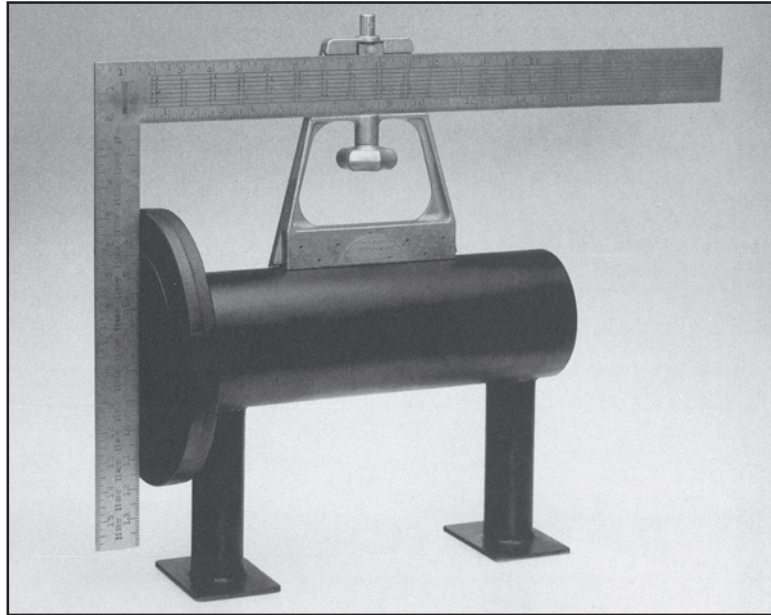
C-0721-0003 CM-4

COMBINATION ADAPTOR ACCESSORY

Designed for use with the Standard and Jumbo Contour Markers, the Adaptor simplifies handling and increases layout capacity.

The Adaptor permits use of all four sides of the Contour Marker and permits marking on small diameter pipe, over nipples, old welds or on wrapped pipe.

The Adaptor can also provide layouts with compound angles using a single setting, or any degree of takeoff on elbows and turns up to 90 degrees.

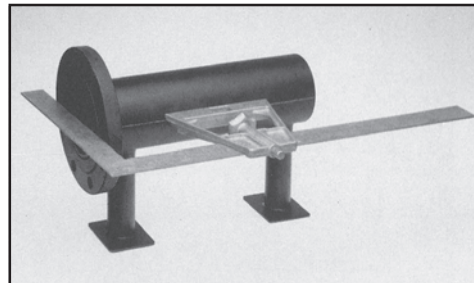


FLANGE ALIGNER BASE

Remove the difficulty of flange aligning and squaring with a simple tool that holds a square in the needed position without tying up one's hands.

The Curv-O-Mark® Aligner Base is notched at either end for ease in aligning on the centre line of the pipe and has two 25-pound pull, cast-in magnets for holding either a flat horizontal or vertical position. The Base will accept either leg of a standard or combination square and will work on pipe diameters from 1 in. on up, requiring only the extension of the legs of the square being used to accommodate larger diameters.

The Flange Aligner Base is made from lightweight, durable aluminum.



Cast-in magnets hold the flange aligner base in either a flat or vertical position. (Square not included.)



FLANGE ALIGNER BASE
C-0721-0029 CM-32

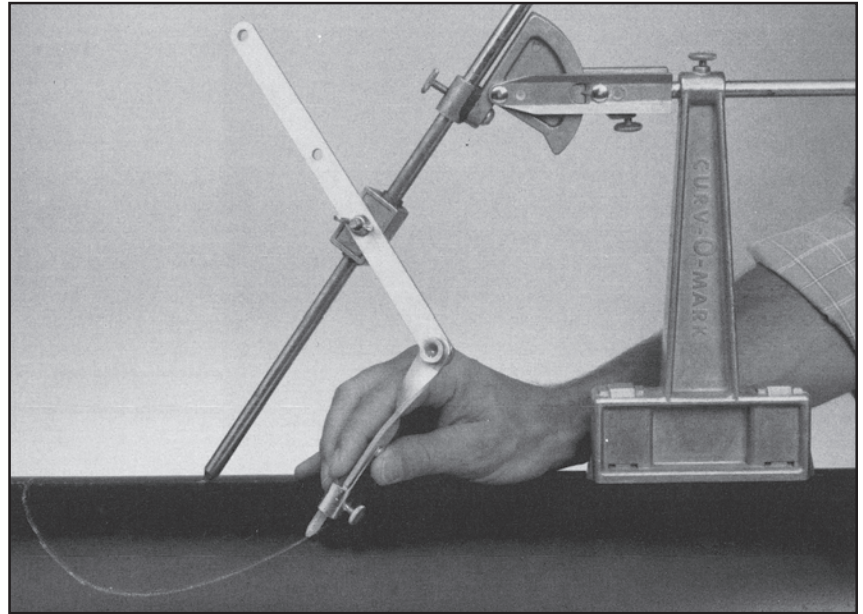


PIPE FLANGE ALIGNER
C-0721-0009 CM-10

PIPE FLANGE ALIGNERS

Fast, accurate pipe construction is possible with this self-determining flange aligning tool. The Aligner inserts easily into pipe, centres snugly against the inside pipe diameter and automatically aligns with the pipe axis.

The Pipe Flange Aligner is quickly adjustable for all types of flanges or pipe sizes ranging from 3 to 12 in. diameter.



CIRCLE-ELLIPSE PROJECTOR

Perfect circles, ellipses or oblong circles can now be easily made on any irregular flat or round surface.

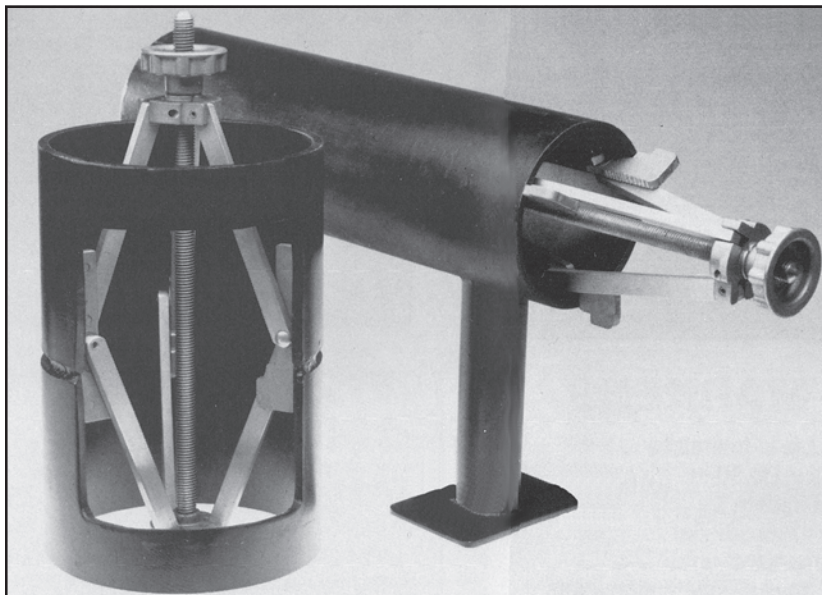
The Projector features a protractor with sliding rods and an adjustable lever to lock in the specified layout. A strong, 20-pound pull magnetic base holds the Projector in position during layout. A durable web strap (included) holds the unit secure on nonmagnetic surfaces and can be used on either side of the vertical column.



CIRCLE ELLIPSE PROJECTOR
C-0721-0014 CM-14

The Projector can also be used to lay out lateral intersections of different diameter pipes, or to project circles from 1-1/2 to 18 in. diameter on flat surfaces intersecting at angles from 0 to 70 degrees from vertical. Attachments to develop larger diameter circles are available.

The Projector is equipped with a soapstone crayon and also works with chalk, pencil or steel scribe.



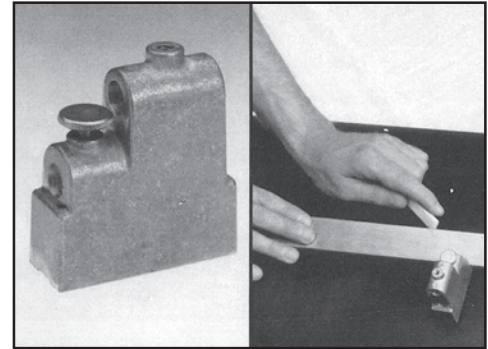


CENTERING HEADS

Curv-O-Mark® Centering Heads aid in the setting of centre lines, establishing angles and marks for butt-ins, locating points inside pipes and tanks, laying out keyways and measuring declivity.

The Standard Model (shown below) is used on pipe 1/2-in. diameter and larger. It has a 4-in. Y-type head and is fitted with an adjustable dial bubble protractor (DSL) and a manually operated hardened centering pin.

The Jumbo Centering Head (shown above) is for pipe 1-in. diameter and up. It has an 8-in. Y-type head, and a DSL. A spring-loaded hardened centering pin eliminates the need for a hammer. Just make the alignment and press the trigger.



Versi-Mag

VERSI-MAG & HOLDER

Here are two versatile magnetic aids that free up hands for other work.

The Versi-Mag is a single 25-pound magnet cast in a square end body that can be used for the line up of steel parts for welding or machining.

The Versi-Mag Holder works as a jig or line-up fixture, and can hold leads, hoses, torches or other devices. It consists of two 25-pound pull magnets, each cast in an aluminum body and machined with square ends. These are then hinged to swing through a 90-degree angle. The bodies are fitted with either a holding pin or clamp to receive various tools.

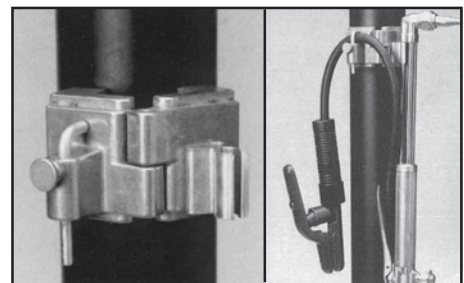


STANDARD CENTERING HEAD

C-0721-0005 CM-6

JUMBO CENTERING HEAD

C-0721-0006 CM-7



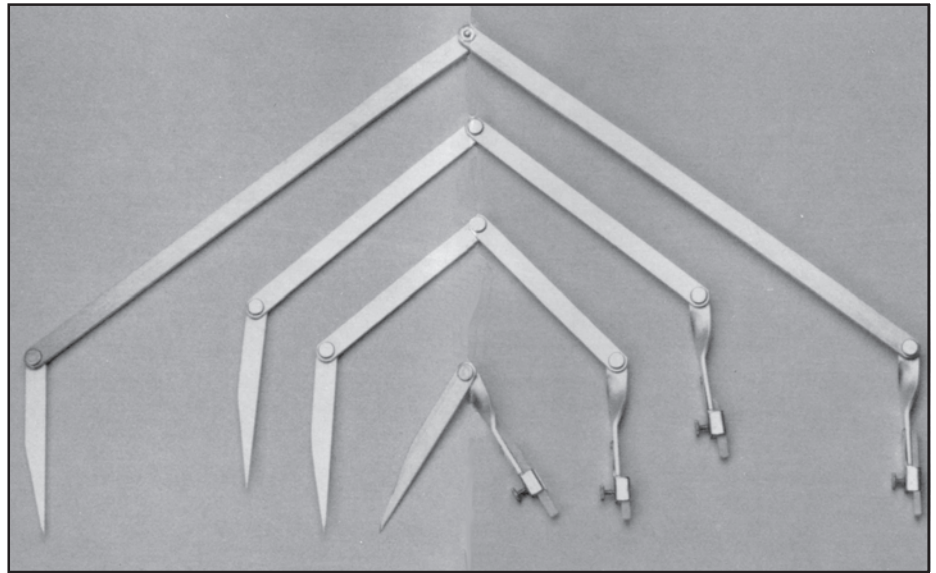
Versi-Mag Holder

VERSI-MAG

C-0721-0018 CM-21A

VERSI-MAG HOLDER

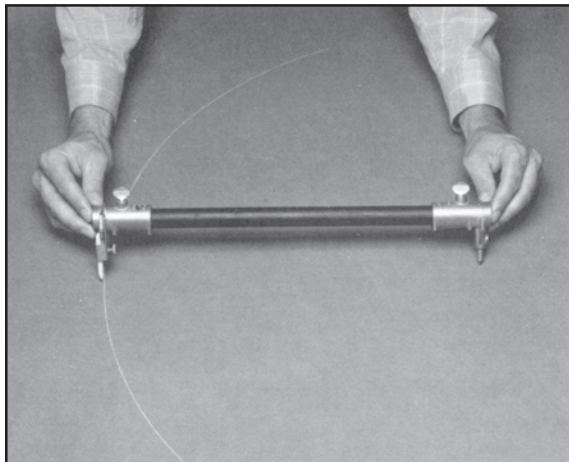
C-0721-0019 CM-21



RADIUS MARKERS

Models are available in four sizes for scribing circles up to 80-in. diameter. All are a folding type design-the three smaller models will fit conveniently into a shirt pocket. All have sturdy friction joints to maintain rigidity and accuracy, and are made from lightweight, rustproof aluminum for long wear. A soapstone crayon is already installed in each radius marker.

The scribe holder will accept round, square or flat soapstone crayon, pencil or steel point scribe.



MINI - up to 8 in. radius

C-0721-0010 CM-1208

SMALL - up to 20 in. radius

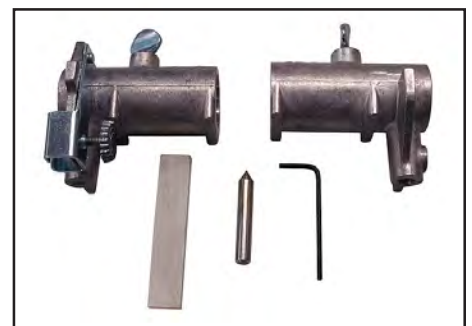
C-0721-0011 CM-1220

STANDARD - up to 24 in. radius

C-0721-0012 CM-1224

JUMBO - up to 40 in. radius

C-0721-0013 CM-1340



Multi-Trammel Heads

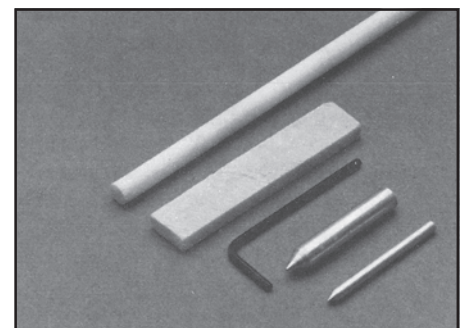
MULTI-TRAMMEL HEADS

For reliable marking using standard 1/2-in. pipe, heads feature radius set points cast in alignment with marking pointers for easy setting. Each is equipped with 1/4-in. screws and squared on the back side for perpendicular alignment. The stationary head holds a 1/4-in. case hardened centre point. The moveable head has a 1/8-in. steel scribe hardened to 59 rockwell. The chalk holder will accept round, square or flat soapstone crayon, pencil or steel point scribe. Marks from 1-1/2-in. circle to any diameter needed, depending on length of pipe used as a trammel bar.

Heads are made from durable aluminum. Each set weighs approximately 8 oz. An Allen wrench, soapstone, scribe and pointer are included.

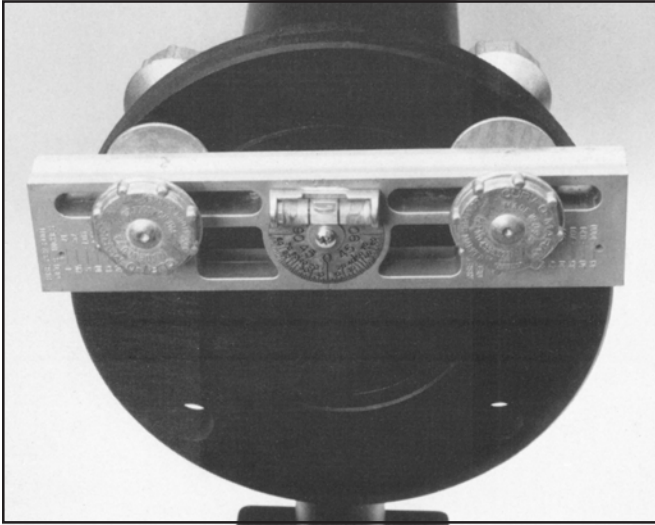
MULTI-TRAMMEL HEADS

C-0721-0016 CM-19



Allen wrench, soapstone, scribe and pointer are included





Two-holing is simplified with the Universal Level. Self-aligning spacer bolts are attached in the two adjacent bolt holes at the top or bottom of the flange. With the DSL dial set at 0 degrees, the flange is rotated until the bubble is centred.

UNIVERSAL LEVEL

The Curv-O-Mark® Universal Level is a multipurpose tool. The unit features a 360-degree adjustable protractor dial bubble (DSL) that ensures accurate levelling and permits the following additional uses:

- Setting a predetermined pitch of a string of pipe
- Setting the angle of laterals to a precise degree
- Trueing vertical runs
- Two-holing flanges

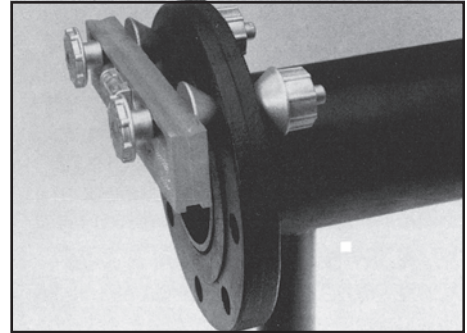
The Level has two cast-in 25-pound magnets (exerting a 50-pound pull) to securely hold the unit in place on any steel surface, including the underside of a pipe or beam. This permits hands-free levelling, a welcome aid in tight spots. And, since the bubble is mounted on a protractor dial, the Level may be used in any position and still read accurately.

While one face of the Level is magnetic both faces have deep, cast-in grooves that make the Level self-centering on the contour of the pipe. Because the magnets are cast in, they do not interfere with the use of the Level on nonmagnetic materials, such as aluminum, copper, lumber, stone or other materials requiring levelling.

For aligning pipe flanges (two-holing), the Level comes with a two-threaded, self-aligning conical spacer and conical nut and bolt units. These are designed to fit any size bolt hole spaced between 2-1/4 in. to 8-in. centres on flanges. This permits the orientation of flange bolt holes for any size pipe.

Designed primarily for pipe fitting applications, the Universal Level is a valuable tool for any craft required to use a level or plumb bob:

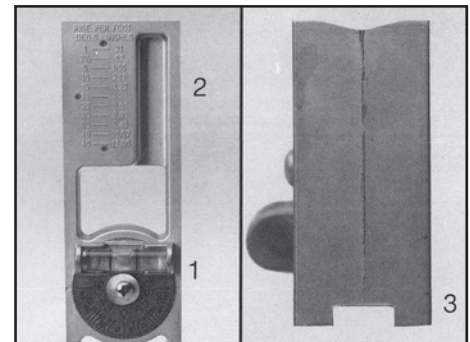
- For structural ironworkers, the powerful holding magnets provide an extra hand
- Electricians will find the Level useful in laying out and lining up heavy conduit
- With the aid of a handy conversion chart, carpenters can use the Level for the layout of roof rafters



If adjacent top or bottom holes cannot be used, two-holing can be achieved using side bolt holes. In this instance, the DSL dial is set at 90 degrees and the flange is rotated until the bubble is centred.



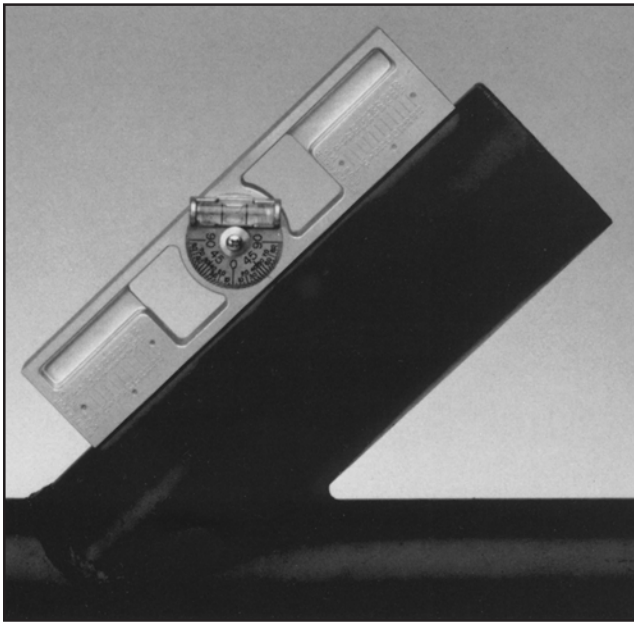
Bolt holes that are offset can be matched by setting the DSL at the desired offset angle prior to rotating the flange.



A built-in adjustable dial bubble protractor (1) ensures accurate centre line location. A cast-in table (2) indicates rise per foot in both inches and meters. A cast-in groove (3) makes the level self-centering on the contour of pipe.

UNIVERSAL LEVEL

C-0721-0030 CM-33



PRO-MAG LEVEL

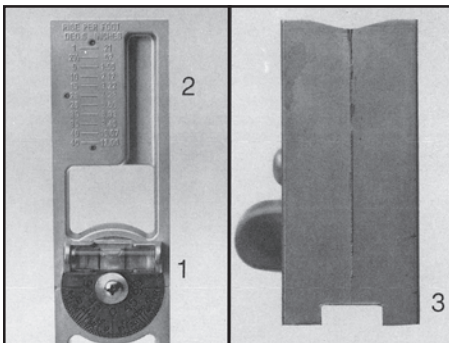
A lightweight, easy to use tool for determining angles, the Pro-Mag Level has two cast-in 25-pound pull magnets that hold securely to any steel surface. The unit has a 360-degree adjustable DSL with two 90-degree quadrants graduated in 2-1/2-degree increments. Also cast in are tables used to convert degree-of-angle to rise-in-inches-per-foot or millimetres-per-meter. A groove on the bottom edge permits use on a small pipe.

The Pro-Mag Level is 9 in. long, 2 in. high and 3/4 in. thick. It is made from cast aluminum.

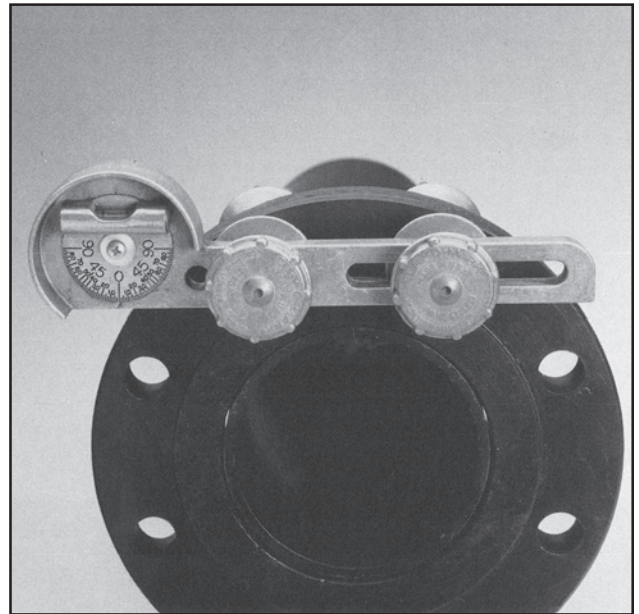
The unit is ideal for pipe fitter, welder, jig builder or anyone who has to determine angles or do setup work.

PRO-MAG LEVEL

C-0721-0007 CM-8



A built-in adjustable dial bubble protractor (1) ensures accurate centre line location. A cast-in table (2) indicates rise per foot in both inches and meters. A cast-in groove (3) makes the level self centering on the contour of pipe.



DIAL-ANGLE-FLANGE LEVEL

A versatile tool that can be used as a dial degree utility level or, with attachments, for two-holing flange alignment.

The unit is made of cast aluminum with a protective housing containing an adjustable DSL. It is also fitted with a threaded, self-aligning conical spacer and conical nut and bolt units for fastening the Level to a pipe flange. One of the nut and bolt units is stationary, while the other slides up to 5-1/2 in. along a slot in the level to accommodate various flange bolt hole spacing from 2 to 5-1/2 inches.

The body of the tool is 1/2-in. thick with a machined surface. The level bubble is protected from weld splatter and breakage with a built-in housing around the DSL.



DIAL-ANGLE-FLANGE LEVEL

C-0721-0017 CM-20

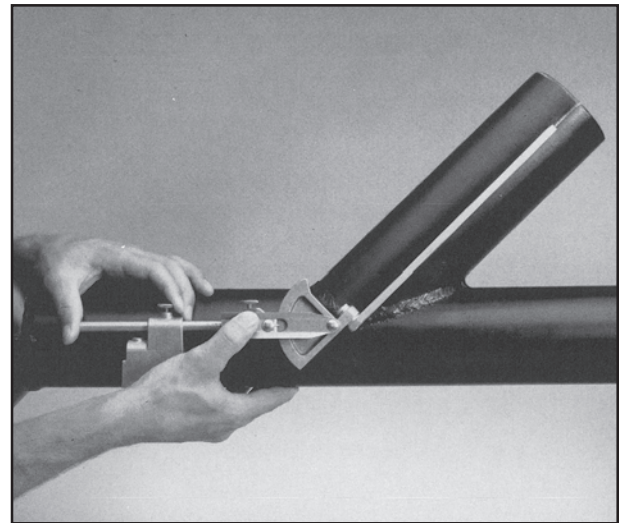


WRAP-A-ROUND

An inexpensive tool for marking straight lines around pipe, or for use as a straight edge. Made out of flexible gasket material, with good resistance to heat and cold.

All Wrap-A-Rounds are available in two colours. These designate material type and service temperature. GG (Gray) material is used for high temperature applications up to 550°F. B (Black) material has a service temperature of up to 350°F. Both material types are asbestos free.

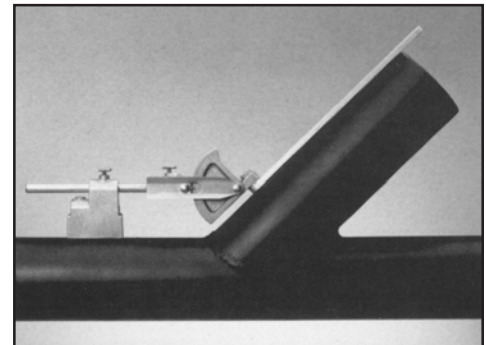
Extra small and special order sizes are unmarked. All other sizes are printed with a scale in inches, pitch chart, tangent chart and other useful markings. Wrap-A-Rounds in 3.88" and 5.00" feature a metric scale and pitch chart.



FITTER WELDER PROTRACTOR

This 90-degree protractor has a matching locking lever to set and hold the tool at the desired angle. It is equipped with a 5/8 in. by 10 in. tapered arm to complete finding of angles or desired bends, or to determine any portions of elbows.

The tool is mounted in a 3/4-in. wide frame with a 3/8-in. by 6-in. cast-in rod. It comes with a 25-pound pull magnetic base for holding the protractor frame in position. The unit can be used manually or with a magnetic base, as shown below.



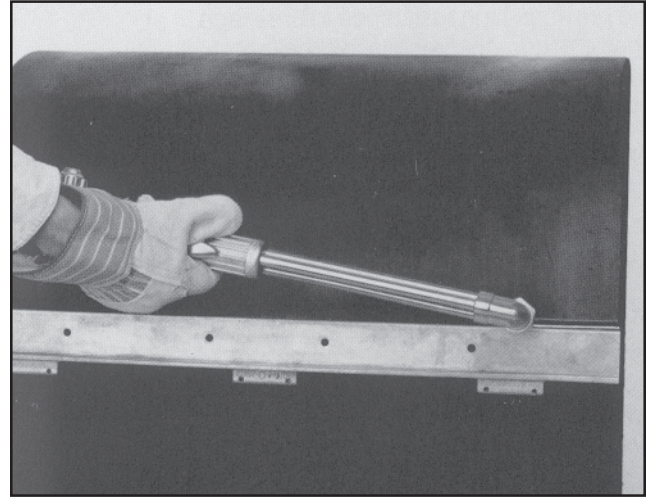
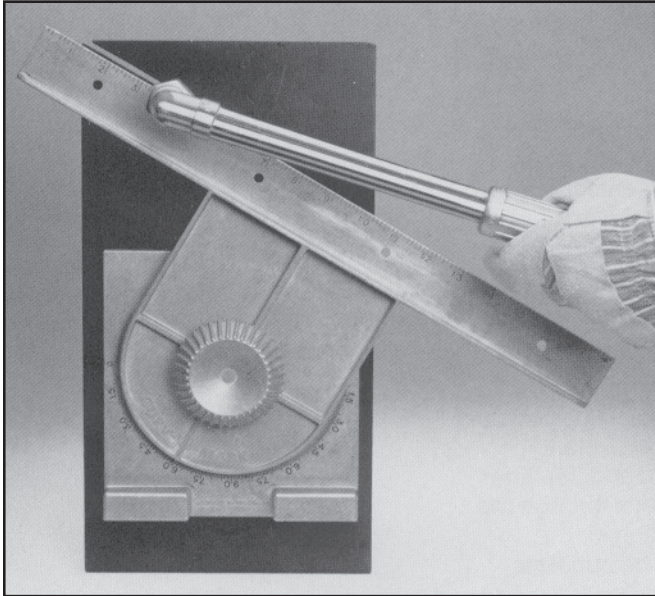
FITTER WELDER PROTRACTOR
C-0721-0008 CM-9

Size	Dimensions Width/Length	Pipe Diameter	B (Black)		GG (Gray)	
			Stock No.	Part No.	Stock No.	Part No.
Medium	3.88" x 4'	3" to 6"	CM-164B	C-0720-0007	CM-164GG	C-0720-0029
Large	3.88" x 6'	3" to 10"	CM-176B	C-0720-0010	CM-176GG	C-0720-0030
Ex-Large	5.00" x 7'	4" to 12"	CM-177B	C-0720-0013	CM-177GG	C-0720-0031
Ex-Large	5.00" x 9'	6" to 16"	CM-179B	C-0720-0016	CM-179GG	C-0720-0032
Special	3.88" x Length Desired*		CM-184B	C-0720-0019	CM-184GG	C-0720-0033
Special	5.00" x Length Desired*		CM-185B	C-0720-0022	CM-185GG	C-0720-0034
Special	7.00" x Length Desired*		CM-187B	C-0720-0025	CM-187GG	C-0720-0035

* Special lengths available up to a maximum of 375'.

Formula -
3.5 x size of pipe x 2 divided by 12 = Length Required.

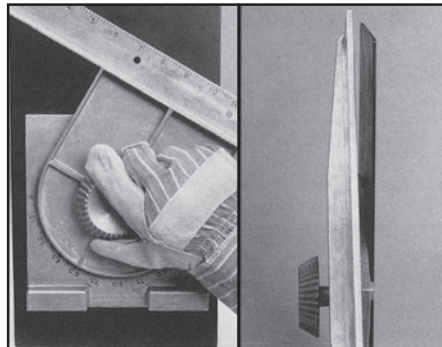
Order to the next even foot.



PRO-MAG BURNING SQUARE

The Curv-O-Mark® Pro-Mag Burning Square is a precise tool used in structural thermal cutting and layout. The tool base is a perfect square containing powerful cast-in magnets. This permits placement in any position. The tool surface is embossed with a protractor inscribed with two 90-degree quadrants graduated in 1-degree increments. The top of the tool carries an 18-in. ruler blade divided in 1/8-in. increments. The ruler can be locked in place at the desired angle setting by hand tightening of the adjustment knob.

The ruler blade is on a raised plane. This permits its use as a straight edge when flame cutting, without distortion or marring. The blade will also accept attachments or extensions that allow an overall length up to 72 in. The Burning Square is made of cast aluminum.



Angles can be easily locked in place by hand tightening the adjustment knob.

The ruler blade is on a raised plane, which makes it ideal for use as a straight edge when flame cutting, without distortion or marring.



PRO-MAG BURNING SQUARE
C-0721-0020 CM-22

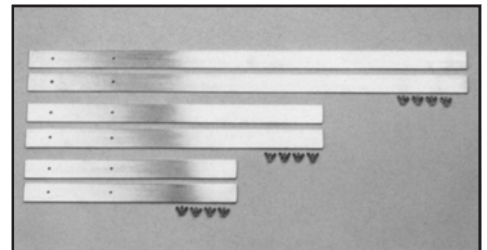


MAGNETIC BURNING GUIDE

Designed for use with a burning torch or as a straight edge, the Burning Guide is cast of strong, durable material to withstand heat and spatter. The tool's base has three 30-pound pull cast-in magnets for use in any position. A 24-in. blade on a raised plane is standard.

MAGNETIC BURNING GUIDE
C-0721-0025 CM-28

ATTACHMENTS FOR PRO-MAG BURNING SQUARE & MAGNETIC BURNING GUIDE



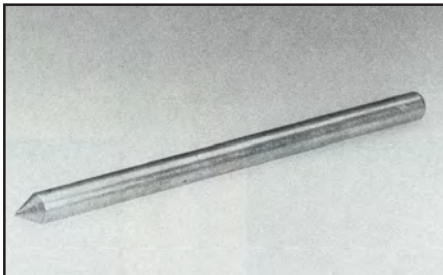
72 INCH OVERALL LENGTH
C-0721-0028 CM-31
48 INCH OVERALL LENGTH
C-0721-0027 CM-30
34 INCH OVERALL LENGTH
C-0721-0026 CM-29
(each is in two sections)



REPLACEMENT PARTS

DIAL-SET-LEVEL (DSL)

The DSL is an adjustable bubble protractor used with a number of Curv-O-Mark® tools (Stock No. 4, 6, 7, 8, 20 and 33). The protractor covers 180 degrees through two 90-degree quadrants, reading in 2-1/2-degree increments. The bubble is cast in the aluminum dial.



CENTERING PIN

A hardened steel pin for use with the Curv-O-Mark® Standard Centering Head (Stock No. 6). Suitable for marking, but should not be used as a centre punch.

CENTERING PIN

C-0722-0001



DIAL SET LEVEL

C-0722-0000

CONTOUR WORKER KIT

The precision tool set that's easy to use. Includes:

- CM-1 Contour Marker
- CM-7 Centering Head
- CM-8 Pro-Mag Level
- CM-1224 Standard Radius Marker
- Square Soapstone and Holder
- Carrying Case



CONTOUR WORKER KIT

C-3014807

Industrial Markers

All of the Nissen Ball Point markers feature durable aluminum tubes with non-clogging, tough, case-hardened steel points and precision 440 Stainless Steel balls. These handy markers will write in any position: horizontal, vertical, even overhead.

METAL MARKER

The Nissen Metal Marker utilizes a specially-formulated polyurethane paint to provide permanent marking under almost any conditions. The marks will remain bright, clear, and legible even on material that will be stored outside for long periods of time or material that will receive heavy abuse.

- Marks on all metals, wood, rubber, glass, etc.
- Writes on any surface; rough, smooth, rusty, wet, oily or dry
- Marks withstand heat and weathering; they won't chip, peel, fade, or rub-off
- Available in 12 lead-free, high-gloss colours, and in 3 point sizes

Colour	5/64" Point Size Part No.	1/8" Point Size Part No.	3/16" Point Size Part No.
White	NSMM564-W	NSMM18-W	NSMM316-W
Yellow	NSMM564-Y	NSMM18-Y	NSMM316-Y
Black	NSMM564-BK	NSMM18-BK	NSMM316-BK
Red	NSMM564-R	NSMM18-R	NSMM316-R
Blue	NSMM564-BL	NSMM18-BL	NSMM316-BL
Green	NSMM564-GN	NSMM18-GN	NSMM316-GN
Orange	NSMM564-O	NSMM18-O	NSMM316-O
Brown	NSMM564-BN	NSMM18-BN	NSMM316-BN
Pink	NSMM564-PI	NSMM18-PI	NSMM316-PI
Purple	NSMM564-PU	NSMM18-PU	NSMM316-PU
Gray	NSMM564-GY	NSMM18-GY	NSMM316-GY
Tan	NSMM564-TN	NSMM18-TN	NSMM316-TN



12 Special, Opaque Nissen Colors... For Better, Brighter Marking

-  WHITE
-  YELLOW
-  RED
-  BLACK
-  BLUE
-  GREEN
-  ORANGE
-  TAN
-  BROWN
-  PINK
-  GRAY
-  PURPLE

HIGH TEMPERATURE METAL MARKER

The Nissen High Temperature Metal Marker provides legible markings at temperatures as high as 2100° F (1150° C).

- Marks on any surface; rough or smooth; wet, oily or dry
- Available in 2 lead-free colours with a 1/8" point size

Colour	Part No.
White	NSHTM-W
Black	NSHTM-BK

SUPER FINE METAL MARKER

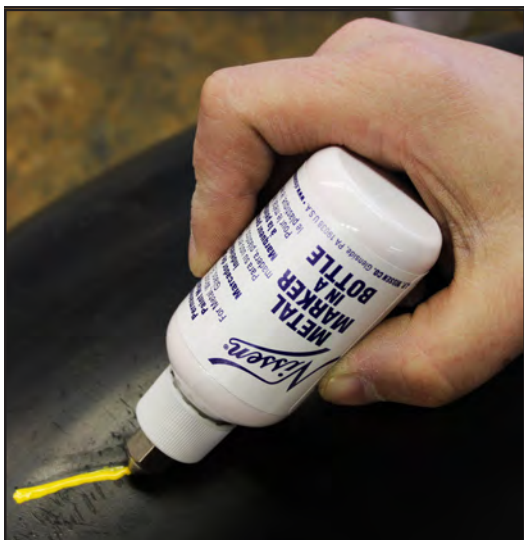
The Nissen Super Fine Metal Marker is an unbreakable plastic tube filled with paint and features a precision stainless steel tip for precise, very fine line marking. The easy to use marker can be conveniently carried in your pocket or tool box.



- Marks on metal, wood, plastic, glass, cardboard, etc.
- Marks on wet, oily or dry surfaces
- Available in 7 bright colours

Colour	Part No.
White	NSSF-W
Yellow	NSSF-Y
Black	NSSF-BK
Red	NSSF-R
Blue	NSSF-BL
Green	NSSF-GN
Blaze Orange (fluorescent)	NSSF-O





METAL MARKER IN A BOTTLE

The Nissen Ball Point Metal Marker is available in an unbreakable plastic bottle for marking with paint on metal, wood, plastic, glass, etc. The tough metal tip has a 1/8" precision Stainless Steel ball and comes with a plastic cap to keep the tip clean and to allow the marker to be carried in your pocket.

- Marks on any surface; rusty, smooth, wet, dry, or oily
- Marks are durable, weather proof and won't chip, peel, fade, or rub-off
- Fast-drying
- Marker is refillable
- Available in 7 high-gloss, lead-free colours

Colour	Part No.
White	NSBW-W
Yellow	NSBW-Y
Black	NSBW-BK
Red	NSBW-R
Blue	NSBW-BL
Green	NSBW-GN
Orange	NSBW-O

FELTIP PAINT MARKER

The versatile Nissen Feltip Paint Markers dispense a fast-drying, high-gloss enamel paint for permanent marking, lettering, coding and numbering of both interior and exterior surfaces. The markers are easy-to-use and convenient to carry in your pocket.

- Marks on almost anything; metal, plastic, printed circuit boards, glass, wood, paper, leather, textiles, etc.
- Writes on any surface; porous or non-porous; rough or smooth; wet, oily or dry
- Marks are permanent; they won't chip, peel, fade, or rub-off. They withstand heat and weathering under adverse conditions.
- Unique precision valve accurately meters flow, so the right amount of paint passes through the tip
- Available in 9 bright, high-gloss, lead-free colours
- Marks are approximately 1/8" wide
- Long lasting replaceable fibre tips allow full use of the marker

Colour	Feltip Paint Marker Part No.
White	NSFM-W
Yellow	NSFM-Y
Black	NSFM-BK
Red	NSFM-R
Blue	NSFM-BL
Green	NSFM-GN



Removable Paint Markers for Fabricators



Paint Marks Removed In Pickling Bath

GALVANIZER'S FELTIP PAINT MARKER

The Nissen Galvanizer's Feltip Paint Marker uses a valve action to dispense a paint especially formulated for fabricators who have their material galvanized. This fast drying, weather resistant marking paint can be put on steel during the fabrication process. However, the marking paint is designed to be completely removed by the pickling bath prior to galvanizing, thus leaving a clean surface for the zinc plating.

- Writes on rough, rusty or smooth surfaces
- Writes on wet, oily or dry surfaces
- Fast drying
- Prior to pickling - the marks are permanent: they won't chip, peel, fade or rub off
- Packed in an unbreakable aluminum tube
- Precision valve meters paint flow
- Available in 3 bright, lead free colours

Colour	Feltip Paint Marker Part No.
White	NSGF-W
Yellow	NSGF-Y
Black	NSGF-BK



Marks bleed through primer

PENAMARK - S

The Nissen Penamark - S is a stick of paint in a solid form designed especially for fabricators. Marks placed on bare metal will bleed through the oil-based primer and remain visible. The penetrating action can be stopped, so as not to bleed through the final coating.

- Marks on any surface: rough, smooth, wet, oily or dry.
- Available only in blue
- Size is 11/16" x 4 1/2"

Colour	Part No.
Blue	NSPMS



MARKER - A

The Nissen Marker - A is a stick of paint in a solid form in a cardboard holder.

- Marks on metal, wood, plastic, glass, cardboard, textiles, etc.
- Marks on any surface; rough, smooth, wet, dry, or oily
- Marks are permanent; they won't chip, peel, fade or rub off. They withstand heat and weathering.
- Markers are economical
- Available in 8 fast-drying, lead-free colours
- Size is 11/16" x 4 7/8"

Colour	Part No.
White	NSMA-W
Yellow	NSMA-Y
Black	NSMA-BK
Red	NSMA-R
Blue	NSMA-BL
Green	NSMA-GN
Orange	NSMA-O
Aluminum	NSMA-AL



SOLID PAINT MARKERS

The smooth writing Nissen Solid Paint Markers make marking smooth, fast and easy. The markers are solid sticks of paint protected by an unbreakable plastic case. They can conveniently and cleanly be carried in your pocket. The plastic case prevents the paint from drying out so it always writes easily and smoothly. The case also allows you to use the entire stick without needing a separate holder.

- Marks on metal, wood, plastic, glass, cardboard, textiles, etc.
- Writes on any surface; rough or smooth; wet, oily or dry. Evens marks under water
- Marks won't run
- Marks are permanent; they won't chip, peel, fade, or rub-off. They withstand heat weathering under adverse conditions
- If desired, marks can be removed from non-porous surfaces with standard industrial solvents
- Available in four fast-drying, lead-free colours
- Available in Standard (approximately 5/16" wide line) and Jumbo (approximately 1/2" wide line) versions



Colour	Solid Paint Marker Part No.	Jumbo Solid Paint Marker Part No.
White	NSSPM-W	NSSPM12-W
Yellow	NSSPM-Y	NSSPM12-Y
Red	NSSPM-R	NSSPM12-R
Black	NSSPM-BK	NSSPM12-BK
Blue*	NSSPM-BL	
Green*	NSSPM-G	
Orange*	NSSPM-O	* New Colours
Purple*	NSSPM-P	
Fluorescent Orange*	NSSPM-NO	
Fluorescent Yellow*	NSSPM-NY	



Great for plasma cutting, marks underwater.

SILVER WELDER'S PENCIL

The Nissen Silver Welder's Pencil was designed for fine layout work on all metals. The marks will illuminate when cutting or welding.

- Marks don't burn off or rub off like soapstone
- The durable marks will not melt or fade
- Pencils will not break like soapstone
- Can be sharpened with an ordinary pencil sharpener

Package	Part No.
Blister Pack of 3 Pencils	NSWPC
Package of 12 pencils	NSWPD



LUMBER CRAYON

The Nissen Lumber Crayon will make durable, waterproof marks on wood, stone, metal, concrete, plastic, cardboard, rubber, etc. This special formula will last much longer than a wax or a chalk. Packed 12 per box.

- 4 1/2" x 1/2" hexagonal shape
- Five bright, lead free colours

Colour	Part No.
White	NSLU-WH
Yellow	NSLU-Y
Red	NSLU-R
Black	NSLU-BK
Blue	NSLU-BL



Markers For Stainless Steel

The Nissen Low Chloride Markers are specifically designed to safely mark metals which are attacked by halogens and low melting metallics. They will not impact contaminants that could cause cracking or weakening of the metal, especially with heat applications, such as welding or cutting. All of our Low Chloride Markers meet or exceed the requirements of the United States Energy Research and Development Administration's RDT Standard F-7-3T. An independent laboratory's Certification of Analysis is traceable to the marker and is available for all of our Low Chloride Markers.

LOW CHLORIDE METAL MARKER

The Nissen Low Chloride Metal Marker uses a stainless steel ball to dispense a specially formulated polyurethane paint.

- Marks on rough, smooth, wet, oily or dry surfaces
- Marks withstand heat and weathering: they won't chip, peel, fade, or rub-off
- Available in 8 bright, high-gloss colours, and in 3 point sizes

Colour	5/64" Point Size Part No.	1/8" Point Size Part No.	3/16" Point Size Part No.
White	NSLCM564-W	NSLCM18-W	NSLCM316-W
Yellow	NSLCM564-Y	NSLCM18-Y	NSLCM316-Y
Black	NSLCM564-BK	NSLCM18-BK	NSLCM316-BK
Red	NSLCM564-R	NSLCM18-R	NSLCM316-R
Blue	NSLCM564-BL	NSLCM18-BL	NSLCM316-BL
Green	NSLCM564-GN	NSLCM18-GN	NSLCM316-GN
Orange	NSLCM564-O	NSLCM18-O	NSLCM316-O
Pink	NSLCM564-PI	NSLCM18-PI	NSLCM316-PI



LOW CHLORIDE FELTIP PAINT MARKER

The Nissen Low Chloride Feltip Paint Marker utilizes a valve action to dispense a fast drying, high gloss enamel paint.

- Marks on rough, smooth, wet, oily or dry
- Marks will withstand heat and weathering: they won't chip, peel, fade or rub off
- Available in 4 bright, high gloss colours
- Long lasting replaceable 1/8" fibre tips

Colour	Part No.
White	NSLCFP-W
Yellow	NSLCFP-Y
Black	NSLCFP-BK
Red	NSLCFP-R

LOW CHLORIDE FINE POINT INK MARKER

The Nissen Low Chloride Fine Point Ink Marker uses a capillary action to dispense a very fast drying ink.

- Draws very fine lines
- Available only in black

Colour	Part No.
Black	NSLCFIM-BK





Artline Paint Markers



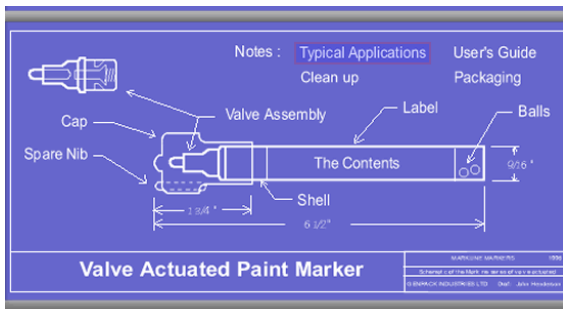
EK-400: Suitable for marking most surfaces - metal, rubber, wood, glass/porcelain, plastic and garden. Ideal for use - in construction industry, factories, schools and for art-craft workers. Ideal for both indoor and outdoor use where permanent indelible marking is required. Quick dry, highly water and fade resistant ink. Completely opaque even on dark or transparent surfaces. The colour will remain crisp over a long period of time.

2.3mm (Writing width) Acrylic fibre tip, bullet style.

Ink colours : 12 colours, Box of 12 pcs.

Colour	Part No.
White	EK400XF-W
Yellow	EK400XF-Y
Black	EK400XF-BK
Red	EK400XF-R
Blue	EK400XF-BL
Light Blue	EK400XF-LB
Green	EK400XF-G
Orange	EK400XF-O
Brown	EK400XF-BR
Pink	EK400XF-PK
Purple	EK400XF-PU

PUMPER Paint Markers



- Patented valve assembly is spring loaded to supply a measured portion of paint to the nib
- Unique cap shape prevents rolling
- Spare nib stores in cap
- Two stainless steel balls are in the barrel to mix the pigmented paint
- Barrel is a heavy gauge aluminum designed to withstand a rugged industrial environment
- Box of 12 markers doubles as a counter top display

Colour	Part No.
White	04010012
Yellow	04010013
Black	04010014
Red	04010015
Blue	04010016

Colour	Part No.
Green	04010017
Silver	04010018
Orange	04010021
Purple	04010023





Solid Paint Marker

QUIK STIK® MINI

The Quik Stik® Mini is a compact solid paint marker in a convenient twist-up, plastic holder that is ideal for finer line marking on smooth or rough surfaces. This smaller version of the Markal® Quik Stik stores easily in a pocket or tool belt and easily advances with the turn of a knob, allowing for full use of the marker. The high-performance paint dries quickly to leave bold, permanent marks on most surfaces.



Colour	Part No.
White	061126
Yellow	061127
Red	061128
Black	061129



Silver Streak Marker

FEATURES & BENEFITS: Highly visible marks illuminate when cutting or welding. Superior to soapstone in markability and durability; will not rub, burn or blow off surface. Marks on oily, wet or rusty metals, and will not scratch or abrade surfaces. Available in flat and round shapes. Durable holders prevent stick breakage. Durable, mechanical holder prevents stick breakage and features a convenient, built-in sharpener and pocket clip for easy storage.

Silver-Streak® Welders Pencils Markal Silver-Streak welders pencils make torch-resistant marks that will not burn or rub off like soapstone. Ideal for fine line marking during metal layout and fabrication, these highly visible marks illuminate when cutting or welding.



Part No.	Item
096006	Silver Streak Round Holder
096007	Silver Steak Round 6 Refills
096004	Flat Silver Streak Marker
096002	Flat Silver Streak 100 Refills
096018	Flat Silver Streak 25 Refills
096101	Silver Streak Pencil





Saves you time, tools and money !



If you're looking for Performance as well as something SAFE - then try Mistic Metal Mover II

IT'S SAFE, YET PERFORMS !

Cleans with soap and water - no solvents required.

MISTIC METAL MOVER II gives you the ultimate edge in working with all kinds of metals and alloys - its unique lubricating formula makes all your tooling and machining operations easier by reducing surface friction and eliminating galling and tearing of material while lengthening tool life. It allows working to closer tolerances, and leaves an ultra smooth finished surface.

This high performance cutting and tapping fluid can be used for a wide variety of metalwork operations including drilling, tapping, honing, boring, milling, broaching, sawing, threading, turning or filling.

MISTIC METAL MOVER II DOES NOT CONTAIN:

- 1.1.1 Trichloroethane
- Chlorinated Paraffins
- Solvents, Water or Sulphur
- Inactive Fillers
- Mineral or Petroleum Oils

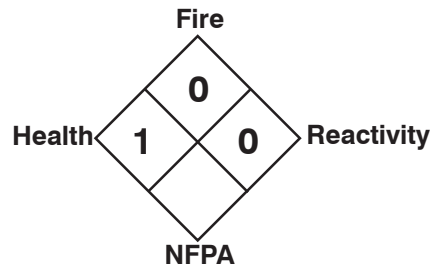
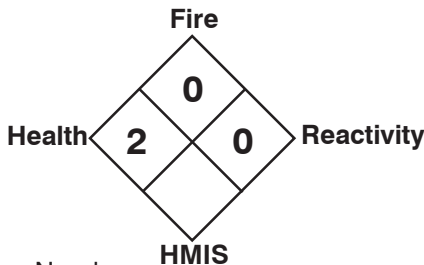
MISTIC METAL MOVER II IS:

- Environmentally Friendly
- Water Washable
- Bio-degradable
- The **SAFE** Performance Fluid For All Your Needs

Ordering Information:

Part No.	Description	# / Case	Weight / Case
MM-16	1 Pint Can	12	16 lbs.
MM-1G	1 Gallon Can	2	19 lbs.
MM-5G	5 Gallon Can	1	42 lbs.
MM-55G	55 Gallon Drum		445 lbs.

Original formula also available, call for information.



Saves you time, tools and money !



**Lubricant for working with
Aluminum, Brass,
Bronze, Copper and Plastics.**

**An Outstanding Tapping Fluid
Non-Toxic**

Easily cleaned with vapour de-greasing,
or simply with strong detergent.



Ordering Information:

Part No.	Description	# / Case	Weight / Case
AL-16	1 Pint Can	12	16 lbs.
AL-1G	1 Gallon Can	2	18 lbs.
AL-5G	5 Gallon Can	1	42 lbs.
AL-55G	55 Gallon Drum		435 lbs.

ALUMICUT® is a superior lubricant for working with aluminum, as well as working with brass, bronze, mild steel, copper and plastics. Formulated especially for non-ferrous materials, it forms an effective extreme-pressure lubricating boundary between tool and work surface, making otherwise difficult operations a breeze.

This versatile lubricant can be used for drilling, tapping, threading, broaching, punching, grinding, stamping and forming... and many, many other tooling operations of shop or industry. Its effectiveness allows precision machining of all types of materials - from 3003 all the way up to 6061 !

ALUMICUT eliminates galling, gouging and tearing of material, plus instantly stops metal chip pile-up on tools and extends tool life considerably. Even use with belt sanders increases the life of the belt *five times*. It allows for machining to closer tolerances, and leaves an ultra smooth finished work surface which requires only ordinary cleaning in preparation for subsequent processing steps.

ALUMICUT can be misted, recycled, and is safe and easy to use. It is non-toxic and bio-degradable, and will not cause drying or cracking of skin. It is totally non-corrosive to aluminum, magnesium, titanium or steel.

Among The Many Alumaticut Users:

- kimberly-clark
- NASSCO
- NCR
- Reynolds Aluminum
- TVA
- U.S. Navy
- *Your Customers... (hopefully soon !)*

HIGH HEAT REFLECTIVE ALUMINIZED HAND SHIELD



Aluminized layer reflects 95% radiant heat, offering cool comfort and extending usage of welding gloves. Split cowhide under layer offers extra heat insulation. Unique leather and elastic strap design offers excellent fit, comfort and minimized strap burn out. Double Kevlar® stitching seam offers extra durability.



Part No.	Description
44-3006	PFR Rayon for high radiant heat welding
44-3008	Fibreglass for high spatter welding

SWEATSOPAD HELMET COMFORTER

Sweat absorbent 100% fleecy cotton and air cushion layer offer excellent comfort, minimize “helmet-head” and helmet slippage, and eliminates the frustration of wearing a helmet over a sweat band. Flame retardant treated and Velcro fastener offer extra safety.



Part No.	Description
20-3100V	Fits helmet head gear without suspender
20-3200V	Fits helmet head gear with suspender

OUR BEST GLOVE



Selected cowhide splits specially tanned for twice the wear. One piece lined back. Added comfort and dexterity assured by the wing thumb design. Exclusive leather welt used in all vulnerable seams. All seams are lock stitch. 5”

Part No.	Description
505	5 Finger Glove (13cm) cuff.

OUR BEST ONE FINGER MITT

This one finger mitt is also from selected cowhide splits and is specially tanned for twice the wear. One piece lined back and all the characteristics and features of the 505 glove. 5”



Part No.	Description
501	1 Finger Mitt (13cm) cuff.

ECONOMY GLOVE



Great values at a low cost. These gloves are made of soft, pliable, comfortable cowhide splits. All seams are lock stitched and vulnerable seams leather welted. Size Extra Large. 5” (13cm) cuffs, wing thumb.

Part No.	Description
505-i	Econo 5 Finger Glove

ECONOMY ONE FINGER MITT

Another great value at a low price. These one finger mitts are also made of soft, pliable, comfortable cowhide splits. They have the same features as the 505-i. 5” (13cm) cuff, wing thumb.



Part No.	Description
501-i	Econo 1 Finger Mitt

GRAIN DEERSKIN GLOVES FOR MIG & TIG WELDING



Top grain deerskin offers excellent comfort and finger tip control. 4” length cuff provides wrist and forearm protection against contact heat, flame and cut. Kevlar® stitching provides extra seam durability. Deerskin by nature is soft and pliable.

Part No.	Description
10-2304x	Deerskin Tig Glove
<i>Substitute x for size. Small to X-Large</i>	

WORK GLOVES

These gloves are ideal for light welding jobs, or handling cylinders. Shoulder split leather palm, index finger and tips. Knuckle strap, elastic at wrist and lined palm. 2½” cotton band top. Also available with pigskin grain leather palm.



Part No.	Description
66B	Split Leather Glove
76PB	Pigskin Glove



GOLDEN BROWN LEATHER JACKET

Select split cowhide offers good comfort, heat, flame and abrasion resistance. Welled seams at shoulder offers extra seam durability. Double Kevlar® stitching, double leather reinforcement and riveted stress points offer extra durability. Roll-up collar with Velcro and multiple snaps cuff allow comfortable adjustment.

Part No.	Description
44-2130x	30" Jacket
<i>Substitute x for size.</i>	
<i>Small to XXX-Large</i>	

STEERSOTUFF LAVA BROWN LEATHER JACKET

Side split cowhide offers excellent comfort, heat, flame and abrasion resistance. Lined sport-jacket raglan shoulder design offers excellent freedom of upper body movement. Double T90 5 ply Kevlar® stitching, double leather reinforcement and riveted stress points offer extra durability. Electrical insulated snaps and rivets, spatter guard and flame retardant cotton lined roll-up collar offer extra protection and safety.

Part No.	Description
44-7300x	30" Jacket
<i>Substitute x for size.</i>	
<i>Medium to XXX-Large</i>	

**GOLDEN BROWN LEATHER SLEEVES
23" LENGTH**

Select split cowhide offers good comfort, heat, flame and abrasion resistance. Over-the-shoulder elastic hanging strap offers excellent comfort. Double Kevlar® stitching, and riveted stress points offer extra durability.
(18" may vary slightly)

Part No.	Description
SLL18	18" Sleeves
44-2023	23" Sleeves

CAPES SLEEVES AND BIBS

Select split cowhide offers good comfort, heat, flame and abrasion resistance. Open back design offers cool comfort. Welled seams at shoulder offers extra seam durability. Double Kevlar® stitching, double leather reinforcement and riveted stress points offer extra durability. Roll-up collar with Velcro and multiple cuff snaps allow comfortable adjustment.



Part No.	Description
44-2028x	23" Cape Sleeves
44-2014	14" Bib
44-2020	20" Bib
<i>Substitute x for size.</i>	
<i>Small to XXX-Large</i>	

GOLDEN BROWN LEATHER BIB APRON

Select split cowhide offers good comfort, heat, flame and abrasion resistance. Self-balancing strap system allows comfortable even weight distribution on user. Double Kevlar® stitching, and riveted stress points offer extra durability.

Part No.	Description
44-2136	24"x36" Bib Apron
44-2142	24"x42" Bib Apron
44-2148	24"x48" Bib Apron

**GOLDEN BROWN LEATHER CHAP
40" LENGTH**

Select split cowhide offers good comfort, heat, flame and abrasion resistance. Open back design offers cool comfort. Double Kevlar® stitching, and riveted stress points offer extra durability. Fits 32" to 44" waist.



Part No.	Description
44-2440	40" Leather Chap

CLOTHING ALSO AVAILABLE IN FLAME RETARDANT AND HEAVY DUTY "STEERSOTUFF" LEATHER. CALL FOR DETAILS.

FIBERGLASS Welding Helmets

SUPERGLAS™

Reliable, Heavy Duty Protection



MODEL 706
2" x 4¼" Lift Front

TOUGH HELMETS FOR TOUGH JOBS

Specially formulated SuperGlas™ material and rugged construction meets the needs of the most demanding welding environments. Self-extinguishing, smooth helmets deflect sparks and spatter. Reinforced crown, throat and edges resist cracking. All operating parts can be easily and economically replaced to lower service life cost.

Full size, curved bottom design accommodates OSHA required protective spectacles; respirators and hearing protection while blocking smoke and fumes.

EXCEPTIONAL COMFORT

As tough as SuperGlas™ helmets are, they are easy on the welder. Extremely lightweight. Equipped with Fibre-Metal®'s classic 3-C free floating headgear that balances and stabilizes the helmet while providing multiple adjustments for individual fit, feel and a better view of the work. A well protected, comfortable welder stays on the job longer and produces more no matter how tough the job.



MODEL 880 WIDE VISION
24 square inches of unobstructed viewing area with Flash Barrier.



MODEL 706
2" x 4¼" Lift Front
Molded-in glassholder, telescoping lid provides a seal against light leak.

THE ORIGINAL PIPELINER™: DESIGNED FOR THE SPECIFIC NEEDS OF PIPE WELDERS

Molded from SuperGlas Plus™, a material formulated for lightweight and strength, Pipeliner™ provides everything pipe welders need in a helmet to be safe and productive under the harshest welding conditions. Impervious to moisture, impact resistant Pipeliners™ will not crack, chip or split. Compact design allows access to areas where there is no room for a standard helmet. Comfortable, functional headgear uses a constant-fit rubber headband for frequent re-adjustments as pipe welders move about their work. Also available with a ratchet headgear for use where space limitations are not as severe.



Pipeliner™ Style (Color: White)
110P – (With 1-CP rubber headband suspension)
110 – (With 1-CR ratchet headgear)



Pipeliner™ ADF (Color: White)
110PPBM10–
(With 1-CP rubber headband suspension)
Pipeliner™ style helmet with High Performance auto darkening shade 10 filter lens

THERMO PLASTIC Welding Helmets

TIGERHOOD™

Classic

PROVIDES A
PRODUCTIVITY
EDGE



MODEL 906

SEE THE DIFFERENCE QUALITY MAKES

Tigerhood™ Classic contains the features that make lightweight thermoplastic welding helmets popular with today's welders. What makes it stand out is its performance and comfort enhancing extras that help welders produce more with fewer injuries.

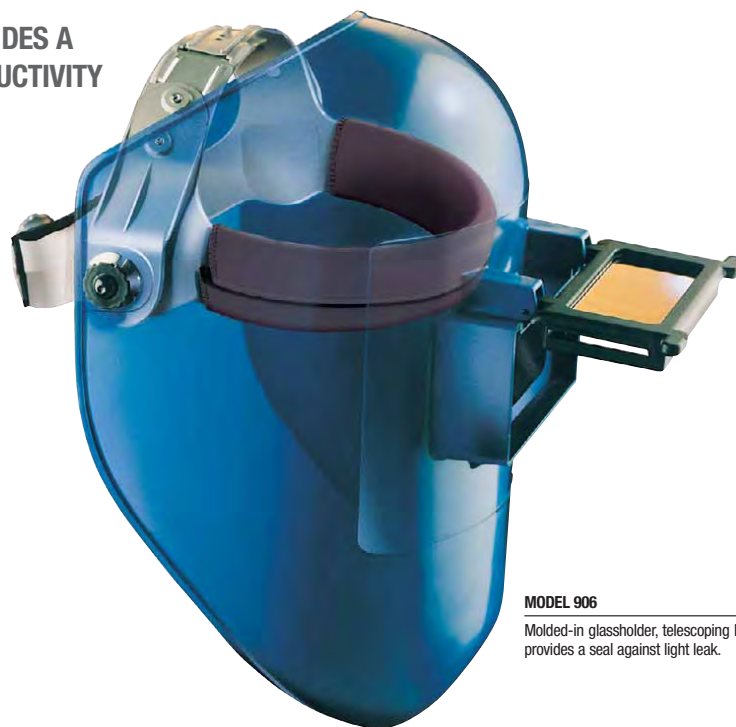
Molded from Noryl®, job proven superior in welding related performance characteristics, Tigerhood™ Classic is the workhorse of thermoplastic helmets. It maintains its high performance level across a wide spectrum of welding processes and working conditions.

Tigerhood™ Classic has a high welder satisfaction rating because it helps welders do their job better. When welders do their job better – you gain a productivity edge.

EXCLUSIVE AIRFLOW DESIGN

Tigerhood™ Classic's unique design provides extended throat protection while blocking fumes and smoke from the face. Size and shape allows air to circulate, to help clear any smoke and fumes that seep in.

(If hazardous fumes are present, appropriate respirators must be worn.)



MODEL 906

Molded-in glassholder, telescoping lid provides a seal against light leak.



MODEL 990

24 square inches of unobstructed viewing area with Flash Barrier



MODEL 910

Lightweight molded-in stationary glassholder with Flash Barrier.



MODEL 998

Lightweight molded-in stationary glassholder with Flash Barrier.

COLORS AND SILVER COATING ALSO AVAILABLE

Molded-in colors eliminate chipping, peeling and fading. Smooth, seamless shell deflects sparks and spatter reducing the risk of burn through. Silver coating exceeds standards for abrasion, adhesion, wear and weathering and deflects heat to lower the temperature for welder comfort. Available in black, gray, and blue. Can be imprinted. All models complete with shade 10 filter lens installed.

EXTRAORDINARY COMFORT

Tigerhood™ Classic sets the standard for comfort. Its exclusive 3C, free floating headgear with multiple wearing adjustments; and its ability to comfortably accommodate protective spectacles and respirators, improves welders quality of work life. Comfortable welders have less downtime and produce more each working day. Available with shade 10 filter plate installed.

THERMO PLASTIC Welding Helmets

TIGERHOOD™

Futura™



MODEL 2006
2" x 4¼"
Lift-Front Glassholder

THE FUTURE OF WELDING PROTECTION BEGINS WITH TIGERHOOD™ FUTURA™

The Tigerhood™ Futura™ represents the latest in welding helmet technology and performance. An innovative, streamlined design combined with an exceptionally high performance material help welders make more and better welds.

Available in Three Styles: Model No. 2090 - Wide Vision, Model No. 2006 - Lift-Front Glassholder, Model No. 2001 - Stationary Glassholder

- Streamlined shape designed to work with required spectacles or respirators.
- Classic 3-C free floating headgear balances and stabilizes helmet for maximum productivity.
- Easy-to-use front loading glassholder increases protection, reduces down-time.
- Extremely lightweight for comfort; sturdy and durable for extended service life.
- Stocked in black, blue and silver coating.

THE FUTURE OF WELDING PROTECTION



2001



2090

THE TIGERHOOD™ FUTURA™ OUT PERFORMS OTHER THERMOPLASTICS

- Greater heat resistance
- Better dimensional stability at elevated temperatures
- Higher melting point
- Higher impact resistance
- Ultra-smooth finish sheds spatter better
- More chemical, scratch, and crack resistant
- Can be imprinted
- Comes with shade 10 filter plate installed

WELDING Accessories

LEATHER WELDING HOODS

Top Quality, tough, flexible chrome leather hoods for use in hard to get to areas where there is no room for standard helmets. Lift-front glassholder. Screened ventilation ports.

INSPECTORS' HANDSHIELDS

Folding shields offer convenience and protection for inspectors, engineers, foremen and others who observe arc welding for short periods of time. Formed from quality leather. Folds to fit in pocket.

Deeply offset, pliable headband fits head contours comfortably. Overhead band with multiple adjustments helps position the glassholder for the best view of the weld and a comfortable working position. Exclusive "free-floating" arms balance and stabilize the helmet while minimizing pressure points. Strip-proof ratchet head size adjustment provides small increment sizing. Model 3C performs well in hot or cold; is unaffected by age; does not crack or break. In models where free-floating arms are impractical, unique mounting brackets are used.

Traditional, black quilted, flame retardant, short visor model plus exclusive four-panel design to cover more head and hair area. Four panel models can be pulled down to help protect the ears when necessary. Unique SuperCool™ water-activated cooling cap provides relief from the heat when soaked in water. Rugged UltraWarm™ winter cap is lined with soft pile for warmth and comfort, when the temperature drops.

Your choice of soft terry cloth (FM44TV); shearing wool (FM66); soft-grain leather (FM67); soft, absorbent cotton cushioned with Velcro® closure (FM68). Circulating air evaporates sweatband moisture for cooling effect.

EXTENDED OR SHORT TERM PROTECTION



MODEL 870 LIFT FRONT

Welder can lift lid to position or inspect work.



MODEL 465

2" x 4¼" Stationary glassholder,
Shield folds to 4¾" x 6¾"



MODEL 475

2" x 4¼" Stationary glassholder,
Shield folds to 3½" x 6¼"

CUSTOM-FIT REPLACEMENT HEADGEAR



MODEL 3C

Standard Headgear



MODEL 1CP

Replacement Neoprene Strap
Model 1PS



MODEL 1CR

Pipeliner™ (Ratchet)



MODEL 1UL

Ultralite (Ratchet)

UNDER HELMET WELDERS CAPS



MODEL BQWCEM

FR-Black Quilted



MODEL FMSCWC

SuperCool™ water activated
cooling cap.



MODEL WC470

Four-panel design,
reversible print/solid.
100% cotton.



MODEL SWWWIC10

UltraWarm™ winter cap.
Four panel design.
100% cotton.

COMFORT ENHANCING SWEAT BANDS



FM44TV



FM67



FM66



FM68

WELDING Accessories

Model 5000 Speedy-Loop™ provides easy on/off welding helmet mounting on protective caps. Fully adjustable to better fit Fibre-Metal® caps and major competitive brands. Model 4000 Quick-Lok™ provides more permanent mounting for longer term or high activity applications. Model 6000 Quick-Lok™ mounting blades for quick and easy mounting of Fibre-Metal® welding helmets on protective caps with mounting slots.

WELDING HELMET PROTECTIVE CAP COMPONENTS



Blades pivot for easy measuring of eleven most specific fillet dimensions. Measures concave or convex seams. Stainless steel blades, etched increments. 1/8" thru 1" and metric equivalents. Fits in 4 1/2" x 2" case. Carry in pocket.

WELD FILLET GAGE



Universal design coupled with high performance insulator material and reliable brass, cam-locking connectors result in a solid electrical contact, the ability to withstand weathering and a snug fit to seal out dirt and to protect against electrical shock.

CABLE CONNECTORS



COMBINATION Head, Face & Eye Protection

Most of Fibre-Metal®'s welding helmets, faceshields, protective masks and welding goggles can be combined with protective headwear by utilizing any one of our three combination systems to provide the exact degree of protection and comfort required.

5000 ADJUSTABLE SPEEDY™ MOUNTING LOOP SYSTEM for frequent on/off use with protective caps. Welding helmets, faceshields, goggles, etc. may be mounted while the cap is on the head. No tools or modified caps required. (Does not affect ANSI rating.)

4000 QUICK-LOK™ SYSTEM for secure, long-term combination use. (4002) Quick-Lok™ mounting blocks are screwed onto the protective cap. Welding helmets, faceshields, goggles, etc. are equipped with (4001) Quick-Lok™ cups which can be securely mounted onto and removed from the cap - without tools.

6000 SLOTTED BLADE SYSTEM for use with most popular brands of slotted caps. Fibre-Metal® protective wear that is equipped with our (4001) Quick-Lok™ mounting cups, can be mounted on slotted caps by simply adding our 6000 Slotted Cap Blades.

CAP PEAK MOUNTED FACESHIELDS

FM70 fully dielectric-mounting bracket provides a positive seal to keep debris from filtering between cap and shield. The shield may be pivoted above the cap between uses without removing the cap. Designed to fit on the front peak of our E2 and P2 caps.

FM71 mounting bracket offers the same features as the FM70, but is designed for our full brim protective hats (E1 series).

FH66 aluminum mounting bracket offers the same design and features as the FM70, but manufactured from extruded aluminum. Lightweight dual-channel bracket is designed to fit on the front peak of our E2 and P2 caps.

HIGH PERFORMANCE PROTECTIVE MASK

Radiant or blasts of heat are reduced without loss of ventilation or vision by stainless steel screen. Screen mounts to a lightweight fiberglass shell at eight points. Also available with .060 acetate window (622CL).

PROTECTIVE CAP/WELDING HELMET COMBINATIONS



MODEL 4906 Helmet
E2QRW Cap



MODEL 5906 Helmet
E2RW Cap



MODEL 6906 Helmet
Slotted Cap

PROTECTIVE CAP/FACESHIELDS COMBINATIONS



MODEL F4400



MODEL F5400



MODEL F6400

PROTECTIVE CAP/WELDING GOGGLE COMBINATIONS



F4055



F5055



F6055

PEAK MOUNTED FACESHIELDS BRACKETS FOR USE WITH PROTECTIVE CAPS



P2NW Cap
FH66 Bracket
4199CL Window



E2RW Cap
FM70 Bracket
4178TVGY Window



E1RW full brim Hat
FM71 Bracket
4178CL Window

HIGH PERFORMANCE PROTECTIVE MASK



5621 Mask
P2NRW Fiberglass Hard Hat

HIGH PERFORMANCE Faceshields



MODEL F500 W/4199GDTVGY
Gold plated for High heat applications - TruView Gray inside

Made from Noryl®, the same material used in our welding helmets, High Performance faceshields are stronger, more durable and more heat resistant than ordinary faceshields.

They contain our exclusive Channel Grip System, which mounts windows and locks them in place in a deep recessed channel to form a perfect seal from dust, dirt and debris.

F300: Exceptionally lightweight and comfortable. Fits easily over today's spectacles with space for air circulation to prevent fogging. Accommodates a full selection of standard size (8" x 11½") windows.

F400: Deeper 4" crown protector extends protection without increasing weight. Incorporates wide-vision (8" x 17") wraparound windows and screens which provide 40% more protective area than standard size faceshields. Fits easily over required spectacles or respirators. Available with choice of 3-C Headgear or three protective cap mounting mechanisms.

F500: Broader, deeper 7" crown protector and wide wraparound window provides an extra margin of protection when harsh working conditions require it. Available with choice of 3-C Headgear or three protective cap mounting mechanisms.

TOP QUALITY PROTECTION FOR VIRTUALLY EVERY JOBSITE FACE HAZARD



MODEL F500
Shown with 4199CL



MODEL F400
Shown with 4178CL



MODEL F300
Shown with 4118CL

High Performance faceshields as designated are SEI certified to comply with current ANSI standards. SEI certification is your assurance of consistent quality and performance.

- Inquire about FMX full graphic faceshield headgears

FACESHIELD WINDOWS

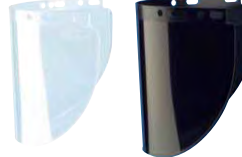
Standard Size



4118

Available in Clear and Dark Green
Fits F300 Series

Wide Vision



4178
4178IR/UV34
178IR/UV5
4178IR/UV8

Also available in S178 Steel Screen, Dark Green and True Color Gray
Fits F400, F500 Series, FH66, FM70 and F71 series.

Extended View



4199
S199 Steel Screen

Also available in 4199 IR/UV3, IR/UV5, and Dark Green
Fits F400 and F500 Series, and FH66.

Fibre-Metal® faceshield windows are injection molded from propionate, which is superior to other window materials in every significant performance characteristic. They are preformed at the factory to the exact curve of our crown protectors for easy installation, an exact fit and a perfect seal against dust, dirt and debris. All High Performance windows are .060" thick for an extra margin of protection, yet they cost no more than ordinary .040" thick windows. Available in three sizes, in clear, special tints, shades 3, 5 and 8 (4178 only). High Performance windows provide a degree of protection and a price point for every application and budget. All windows meet ANSI Z87.1+ standard for eye and face protection and CSA Z94.3.

COMFORT ENHANCING SWEAT BANDS



FM44TV



FM67



FM66



FM68

Your choice of soft terry cloth (FM44TV); shearing wool (FM66); soft-grain leather (FM67); or soft, absorbent cotton (FM68). Circulating air evaporates sweatband moisture for cooling effect.

HIGH PERFORMANCE Faceshields

Designed and engineered for Plasma arc cutting

Fibre-Metal® High Performance Face-shields provide a wide range of protection for oxy-acetylene welding, cutting, plasma arc cutting and brazing.

Plasma Arc rays produce intense bright, ultraviolet and infrared rays that can burn eyes. Always wear eye and face protection to shield from the arc's rays.

Injection molded, Fibre-Metal® 4178IRUV8 window provides the best protection available for Plasma Cutting. Our Shade 8 Plasma Cutting Window is engineered using the original and best radiation absorber for consistent protection throughout the window.

The American Welding Society (AWS) recommends the following shades for Plasma cutting:

Up to 100 amps	Shade 8
100-200 amps	Shade 10
200-400 amps	Shade 12
Over 400 amps	Shade 14

4178 IRUV Shade 8



4178IRUV8 show on FM70 on E2RW



4178IRUV8 show on F400

The 4178IRUV8 Plasma Cutting Window fits the following Fibre-Metal® headgears and brackets:

- F400 series
- F500 series
- FH66 aluminum cap bracket
- FM70 dielectric cap bracket
- FM71 dielectric full brim hat bracket

Features	Benefits
Injection molded from high grade propionate	<ul style="list-style-type: none"> • Job proven in every performance characteristic related to cutting
Size is 8" x 16½"	<ul style="list-style-type: none"> • Most popular size window protects maximum face area without affecting movement
Preformed at factory to exact curve of Fibre-Metal® deflectors	<ul style="list-style-type: none"> • Makes installation easy and quick to minimize downtime. • Forms positive seal with the deflector to eliminate sparks, dust, or debris
Contains IREX IR/UV absorber	<ul style="list-style-type: none"> • Absorptive protection is engineered into the window, not surface coated, so the window will not lose its protective qualities. • IREX provides consistent shading throughout the window.
Lightweight	<ul style="list-style-type: none"> • High strength to weight ratio • Lightweight reduces fatigue, stress, and strain on neck muscles • Improved productivity

Roughneck[®]

P2

Fibre-Metal[®] Roughneck Protective Caps

Fibre-Metal Roughneck caps with the SuperEight[®] suspension are the industry standard for heavy duty protection. Built for strength, toughness and durability, the Roughneck P2 series of injection-molded fiberglass caps have earned a solid reputation on construction sites, in steel plants, foundries, forges, fabrication shops, chemical plants and other extreme jobsite environments.

Available in two versions to meet a variety of workplace conditions, Roughneck caps are built to provide exceptional crack resistance and handle hard knocks in the toughest places – without developing the nicks and cracks seen in other fiberglass caps.

Roughneck P2A:

The P2A series tolerates heat up to 370° while delivering a long service life under many adverse conditions.

Roughneck P2HN:

The P2HN series is designed for high performance at extremely elevated temperatures up to 500°. In these extreme environments, air circulating over the sweatband lowers the temperature inside the cap – an important comfort feature in high heat applications.

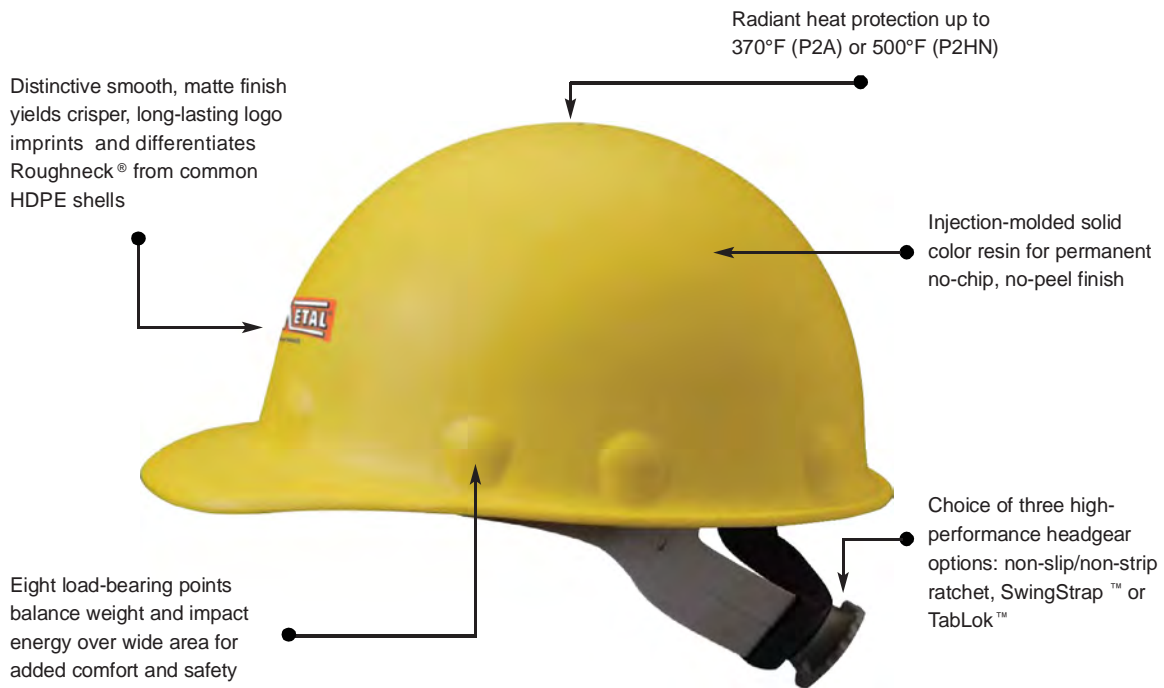
Roughneck Features:

- Proprietary injection-molded fiberglass compound offers exceptional impact and crack resistance and is eight times stronger than common high density polyethylene (HDPE) cap shells.
- Best-in-class heat resistance. Meets ANSI-Z89.1-2009 impact resistance tests at extreme temperatures of up to 370°F (P2A) and up to 500°F (P2HN).
- Solid color resin provides a permanent, no-chip, no-peel finish. Available in nine popular colors.
- Smooth, matte finish makes logo imprints crisper and cleaner, so your official company caps look better and last longer.
- The technically-advanced SuperEight suspension balances and spreads weight over a wide area for added comfort and impact protection.
- Available with the famous Fibre-Metal non-slip/non-strip ratchet, SwingStrap™ or TabLok™ headgear.
- Ready to use with the industry's most versatile Quick-Lok[®] or Speedy[®] Loop helmet attachment system for faceshields and welding helmets.
- For added assurance of performance, all Roughneck caps are factory-assembled and SEI third-party certified to meet ANSI Z89.1-2009 Type I Class G (including Quick-Lok[®] model) and CSA Z94.1-2005 Type I Class G or C (Class C for Quick-Lok[®] model) in both forward and reverse.



by Honeywell

TAKE A CLOSER LOOK



See the Difference Quality Makes

Protective Performance and Personalized Fit

When it comes to selecting a cap, protective performance should be the number one consideration, but wearer comfort is a very close second. Uncomfortable caps will not be worn. Fibre-Metal® caps provide extraordinary comfort through quality components and their ability to provide a personalized fit.

Exclusive Smooth Crown Design

Unlike competitive designs, which require reinforced ribs, ridges and slots to perform adequately, the smooth crown design of the Roughneck® cap eliminates the risk of trapping a falling object, which can adversely affect the impact reduction capability of a protective cap. Its appealing design also increases wearer acceptance.

SuperEight® Suspension and Impact Energy Control System

The technically-advanced SuperEight suspension, with its eight load-bearing points, balances and spreads weight over a wide area for added comfort. If impacted, the SuperEight suspension becomes an impact energy control system that reduces force by breaking it down into smaller increments for each load bearing point to handle while spreading it over a greater area. The Fibre-Metal smooth crown shells and eight-point Impact Energy Control System interact with complete precision for exceptional performance unattainable in ordinary caps.

How the SuperEight System Works

- **Smooth shell flexes/deflects**

On impact, the smooth shell flexes, absorbing and dissipating some impact energy. Because there are no ribs, ridges or slots to trap impacting objects, they are deflected away.

- **Suspension loading**

Reduced impact energy is passed to the suspension system at eight scientifically determined points around the cap.

- **Impact energy dispersal**

The eight energy absorbing suspension connections, — twice as many as ordinary caps — disperse the energy over a greater area of the head, reducing its concentration, and the risk of failure, at any one point.

- **Suspension function**

The technically-advanced suspension system stretches in a predictable, controlled manner, absorbing still more impact energy. The remaining impact energy, reduced to ANSI-specified levels by the precise interaction of the cap's components, is passed to the body's natural shock absorbers.



by Honeywell



Roughneck® Protective Cap Headgear

Select the industry's only 360° padded sweatband; the first and still the best strip-proof, crack-proof ratchet headband; or patented SwingStrap™ that combines the benefits of both with the added ability to convert from the front wearing position to the rear wearing position without having to reverse the suspension or headband. Fibre-Metal headbands can not only be tightened or loosened, but can also be raised, lowered or tilted for individual comfort while the cap remains squarely in position. Choose from three options to meet your individual needs.

1

- Adjustable TabLok™ 360° padded sweatband (replacement model W3F - not shown)

2

- Strip-proof, crack-proof ratchet headband (replacement model 3RW3). SEI-certified in both forward and reverse position.

3

- SwingStrap reversible ratchet: patented design converts from front-wearing position to rear-wearing position when a welding helmet or faceshield is mounted; no need to reverse the suspension or headband (replacement 3SW3)



SuperEight suspension with non-slip/non-strip ratchet (replacement MODEL 3RW3)



SwingStrap reversible ratchet headgear (replacement MODEL 3SW3)



TabLok Suspension
MODEL W3F



Ratchet Suspension
MODEL 3RW3



SwingStrap Suspension
MODEL 3SW3

Replacement Sweatbands

Unlike ordinary caps, SuperEight® sweatbands can be easily removed and cleaned, or replaced. Your choice of soft cotton jersey (FM69), terry cloth (44RTV) or 360° vinyl-wrapped foam sweatband (S2FV).



MODEL FM69



MODEL FM44RTV



MODEL S2FV

Combination Protection

For multi-hazard conditions, protective caps must be used in combination with a variety of eye and face protection equipment. For greater cost savings, productivity and convenience, most Fibre-Metal® welding helmets, faceshields, protective masks and welding goggles can be combined with Roughneck protective caps by utilizing any one of our three combination systems to provide the exact degree of protection and comfort required.

Speedy® Loop Mounting System

For frequent on/off use with protective caps. The Speedy Loop is fully adjustable to fit any style of hard hat. Welding helmets, faceshields and goggles may be mounted while the cap is on the head. No tools or modifications required. (Does not affect ANSI rating.)

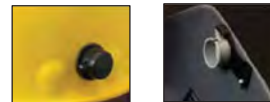


Adjustable Speedy Loop Mounting System
MODEL 5000

Quick-Lok® Mounting System

For secure long-term combination use. Quick-Lok mounting blocks come pre-installed exclusively on Fibre-Metal hard hats or sold separately as a kit. Quick-Lok mounting blocks are screwed onto the protective cap. Welding helmets, faceshields, and goggles that are equipped with Quick-Lok cups can be securely mounted onto and removed from the cap – without tools.

Quick-Lok System
MODEL 4000



Quick-Lok mounting block on cap exterior (left) and Quick-Lok mounting cup on welding helmet interior (right).



Peak Mount Bracket

Peak-mounted brackets provide a positive seal to keep debris from filtering between cap and faceshield. The shield may be pivoted above the cap between uses without removing the cap. FH66 is aluminum for high heat applications.

FM70 (not shown) is for fully dielectric applications.



Peak mounted bracket with 4199CL Window
MODEL FH66

Custom-imprint your Roughneck®

Printed protective caps are highly visible – they enhance corporate image, reinforce safety programs and identify trades on the job. The smooth, matte finish of a Roughneck cap makes imprints crisper and cleaner so your official company caps look better and last longer. Logos, safety slogans and union identification look impressive, thanks to our advanced printing technology. Advantages include:

- Large print areas
- Multiple print locations
- Multi-color imprinting
- Low minimum order quantities
- Fast turnaround
- High visibility tape option
- Professional art service available



by Honeywell

ORDERING INFORMATION



White (-01)

TabLok	P2AW01
SwingStrap	P2ASW01
SwingStrap, Quick-Lok	P2AQSW01
Ratchet	P2ARW01
Ratchet, Quick-Lok	P2AQRW01
High heat, Ratchet	P2HNRW01
High heat, Ratchet & Quick-Lok	P2HNRW01



Yellow (-02)

TabLok	P2AW02
SwingStrap	P2ASW02
SwingStrap, Quick-Lok	P2AQSW02
Ratchet	P2ARW02
Ratchet, Quick-Lok	P2AQRW02
High heat, Ratchet	P2HNRW02
High heat, Ratchet & Quick-Lok	P2HNRW02



Gray (-09)

TabLok	P2AW09
SwingStrap	P2ASW09
SwingStrap, Quick-Lok	P2AQSW09
Ratchet	P2ARW09
Ratchet, Quick-Lok	P2AQRW09



Black (-11)

TabLok	P2AW11
SwingStrap	P2ASW11
SwingStrap, Quick-Lok	P2AQSW11
Ratchet	P2ARW11
Ratchet, Quick-Lok	P2AQRW11



Brown (-12)

TabLok	P2AW12
SwingStrap	P2ASW12
SwingStrap, Quick-Lok	P2AQSW12
Ratchet	P2ARW12
Ratchet, Quick-Lok	P2AQRW12



Red (-15)

TabLok	P2AW15
SwingStrap	P2ASW15
SwingStrap, Quick-Lok	P2AQSW15
Ratchet	P2ARW15
Ratchet, Quick-Lok	P2AQRW15
High heat, Ratchet	P2HNRW15



Strong Orange (-46)

TabLok	P2AW46
SwingStrap	P2ASW46
SwingStrap, Quick-Lok	P2AQSW46
Ratchet	P2ARW46
Ratchet, Quick-Lok	P2AQRW46
High heat, Ratchet	P2HNRW46



Blue (-71)

TabLok	P2AW71
SwingStrap	P2ASW71
SwingStrap, Quick-Lok	P2AQSW71
Ratchet	P2ARW71
Ratchet, Quick-Lok	P2AQRW71
High heat, Ratchet	P2HNRW71



Green (-74)

TabLok	P2AW74
SwingStrap	P2ASW74
SwingStrap, Quick-Lok	P2AQSW74
Ratchet	P2ARW74
Ratchet, Quick-Lok	P2AQRW74
High heat, Ratchet	P2HNRW74



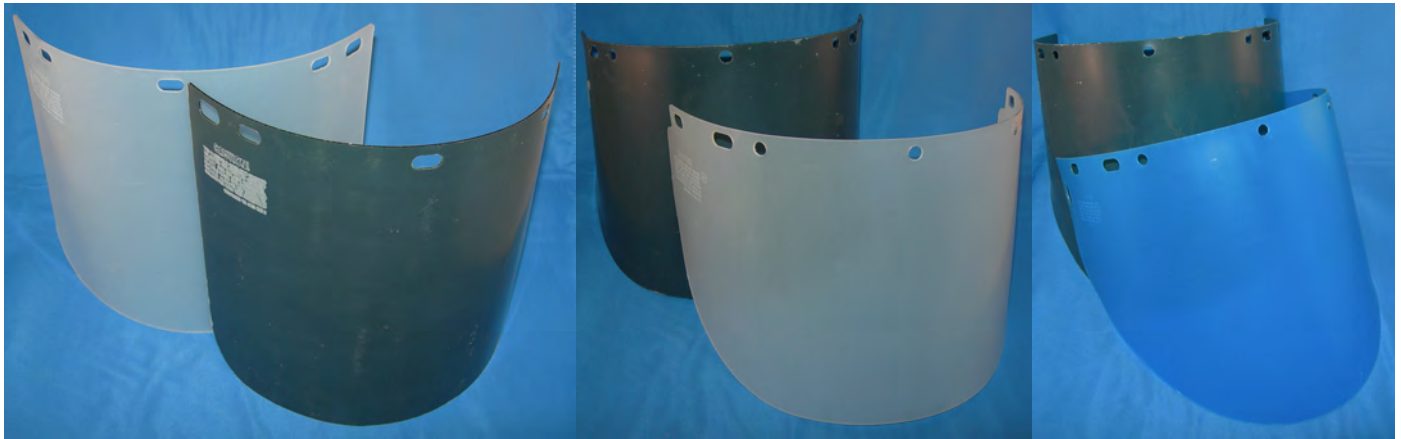
Replacement Suspensions

Adjustable TabLok headband	W3F
Strip-proof, crack-proof ratchet headband	3RW3
SwingStrap reversible ratchet headband	3SW3

Replacement Sweatbands

Soft cotton jersey	FM69
Terry cloth	FM44RTV
360° vinyl-wrapped foam	S2FV

FACESHIELD WINDOWS SUITABLE FOR USE WITH FIBRE-METAL



- Molded windows (except UV4199C & UV4199-05)
- Clear, dark green and shade 5 available
- All windows have a protective covering, as shown in pictures above.

UV4118MC 8" x 11" Clear
UV4118MDG 8" x 11" Dark Green

UV4178MC 8" x 16½" Clear
UV4178MDG 8" x 16½" Dark Green

UV4199MC 9¾" x 19" Clear
UV4199MDG 9¾" x 19" Dark Green
UV4199C 9¾" x 19" Clear FLAT
UV4199-05 9¾" x 19" Sh. 5 FLAT

COVER LENS SUITABLE FOR USE WITH HORNELL/3M & MILLER HELMETS



Part No.	Description
Hornell / 3M Style	
04-0270-00	9000 10-pack Outside Lens
04-0280-00	9000 X & F 5-pack Inside Lens
04-0290-00	9000 F & V 5-pack Inside Lens
UV327H	XL 5-pack Outside Lens
Miller Style	
UV326M	Elite 5-pack Outside Lens
UV326H	Elite 5-pack Inside Lens

Clear Glass

Part No.	Description
GP-2	2" x 4¼" Crystal Clear Glass Dispenser Pack (100 pieces per pack)
GP-4	4½" x 5¼" Crystal Clear Glass (per piece)

Plastic Cover Plates

PP-2	2" x 4¼" Clear CR-39, 1000 Hour Plates
G20-SP24	2" x 4¼" Clear Polycarb
PP-4	4½" x 5¼" Clear CR-39, 1000 Hour Plates
G20-SP45	4½" x 5¼" Clear Polycarb

Non-Hardened Shaded Plates

Part No.	Description
LW2PFS-xx	Shades 3-14, 2" x 4¼" Filter Plates
LW4PFS-xx	Shades 3-14, 4½" x 5¼" Filter Plates Meets ANSI Specs for Infra-Red and Ultraviolet Protection

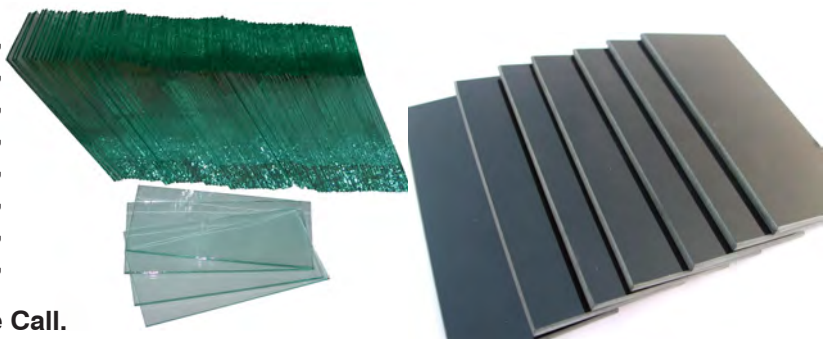
Hardened Shaded Plates

MW2H-xx	Shades 4-14, 2" x 4¼" Filter Plates
MW4H-xx	Shades 4-14, 4½" x 5¼" Filter Plates

* Substitute "xx" for shade required.

Plastic Magnifier Plates

18075	0.75 Diopter Magnifier Plate, 2" x 4¼"
18100	1.00 Diopter Magnifier Plate, 2" x 4¼"
18125	1.25 Diopter Magnifier Plate, 2" x 4¼"
18150	1.50 Diopter Magnifier Plate, 2" x 4¼"
18175	1.75 Diopter Magnifier Plate, 2" x 4¼"
18200	2.00 Diopter Magnifier Plate, 2" x 4¼"
18225	2.25 Diopter Magnifier Plate, 2" x 4¼"
18250	2.50 Diopter Magnifier Plate, 2" x 4¼"



Glass Magnifier Plates Also Available, Please Call.

AUTO-DARKENING WELDING HELMETS



- Variable Shade 4-13
- Solar powered, no battery
- 1/25,000 switching
- 3.78" x 1.85" viewing
- Grinding mode (sh. 3.5)
- Available in black with flames or Red with flames
- Conforms to CSA

Part No.	Description
MW-700S-BK	Black w/ Flames
MW-700S-R	Red w/Flames



- Variable shade 9-13
- Large 3.86" x 2.44" viewing area
- 6,000+ hours of battery
- Standard 4 x 5 cover lens
- Adjustable reaction time
- 4 Arc Sensors
- Weighs less than 1 pound

Part No.	Description
MW-750S-BK	Black



MW-4219A



MW-4212A



MW-4211A

- 3.86" x 1.73" viewing field
- Variable shade 9-13 Light state - sh 4
- Switch to grind mode (shade 4)
- Adjustable sensitivity & delay
- Magnifier lens holder built-in
- 2 year warranty (**Spatter on lens voids warranty!**)

Part No.	Description
MW-4211A	Silver Skulls
MW-4212A	Black Demon
MW-4219A	Black Flames
MW-4200A	Plain Black (not shown)
MW-9910	Outer Lens (10 per pack)
MW-9911	Inner Lens (10 per pack)

Style and Patterns shown on this page are subject to change.

290 SERIES WELDING HELMETS

290 Series Features

- Molded from the World's Toughest Thermoplastic Resin
- Extended crown provides greater overhead protection
- Ideal for all welding applications
- Easy filter replacement
- Rigid bib deflects welding spatter
- Lightweight
- Super Kool™ coating available
- Uses standard size filter, cover, impact & magnifier plates
- Made in USA
- Meets ANSI Z87.1 Standards
- CUL Certified to meet CAN/CSA-Z94.3 Standards
- CE Certified



29501



Quality materials and design features insure the best helmet available for any job. All 290 Series welding helmets are made from Super Tuff™ nylon which is lighter than fiberglass and extremely durable. Our Super Kool™ silver coated models shed spatter without burning and are 30% cooler than uncoated helmets. The patented Sel-Snap™ lens retention system provides easy loading of filter, cover, and protective plates with no gasket required. Extended crown provides greater overhead protection.

Part No.	Description
29301	Black Helmet w/ 2" x 4 1/4" Sel-Snap™ Lift Front
29311	Super Kool™ Silver Coated Helmet w/ 2" x 4 1/4" Sel-Snap™ Lift Front
29411	Super Kool™ Silver Coated Helmet w/ Silver Coated 2" x 4 1/4" Sel-Snap™ Lift Front
29341	Blue Coated Helmet with 2" x 4 1/4" Sel-Snap™ Lift Front
29371	Red Coated Helmet with 2" x 4 1/4" Sel-Snap™ Lift Front
29501	Black Helmet with 2" x 4 1/4" Sel-Snap™ Fixed Front
29511	Super Kool™ Silver Coated Helmet w/ 2" x 4 1/4" Sel-Snap™ Fixed Front
29901	Super Tuff™ Black Helmet with 4 1/2" x 5 1/4" Sel-Snap™ Fixed Front
29911	Super Tuff™, Super Kool™ Silver Coated Helmet w/ 4 1/2" x 5 1/4" Sel-Snap™ Fixed Front
29941	Super Tuff™ Blue Coated Helmet with 4 1/2" x 5 1/4" Sel-Snap™ Fixed Front
29971	Super Tuff™ Red Coated Helmet with 4 1/2" x 5 1/4" Sel-Snap™ Fixed Front
21300	4 1/2" x 5 1/4" Lift Front Adaptor - converts your large view Sellstrom helmet to lift front



29911



29941
Shown with optional 4x5 Lift Front adaptor



29971

TITAN WELDING HELMETS

Titan™ Features

- Designed with the patented “Quick Release” ratchet headgear suspension allowing the user to adjust size & RELEASE at the pull of a knob.
- Extremely durable.
- Rigid bib deflects welding spatter.
- Durable spatter resistant coating
- Easy filter replacement
- Tough nylon shell
- Lightweight, award winning ergonomic design
- Made in USA
- Meets ANSI Z87.1 Standards
- CUL Certified to meet CAN/CSAZ94.3 Standards & CE Certified



BALANCED, ERGONOMIC & LIGHTWEIGHT

Quality materials and design features insure the best helmet available for any job. All Titan® welding helmets are made out of nylon, which is lighter than fiberglass and extremely durable. The patented award winning design of the Titan® provides the user with a balanced, lightweight, ergonomical welding helmet. The 5 1/4" x 4 1/2" front load bezel provides easy loading of filter, cover, and protective plates. Extended crown provides greater overhead protection. Rigid bib deflects welding spatter. Uses standard size filter, cover, impact and magnifier plates and is ideal for all welding applications.



24400



24401



24471



24411



24441

Part No.	Description
24400	Black Titan™ Helmet with Black Bezel
24401	Black Titan™ Helmet with Silver Bezel
24411	Silver Titan™ Helmet with Silver Bezel
24441	Blue Titan™ Helmet with Silver Bezel
24471	Red Titan™ Helmet with Silver Bezel

TITANS WITH ATTITUDE

24400FBC	Canada Flag Titans™ Helmet
24400FYL	Victory Lane Titans™ Helmet
24400FBL	Finish Line Titans™ Helmet
24400FBW	Freedom Titans™ Helmet



24400FBC



24400FYL



24400FBL



24400FBW



Quick-Release Ratchet Head Gear

- Loosens with a pull of the knob
- Tightens with a turn of the knob

Part No.	Description
27001	Replacement Headgear for all Sellstrom Welding Helmets

DP4 MULTI-PURPOSE FACESHIELDS



The patented DP4™ Faceshield combines a clear anti-fog window with a flip-down IR window, providing uninterrupted protection for grinding, brazing and cutting operations. The shield curves naturally to fit facial contours—ensuring reliable protection from splash, particles and flying debris. Ratchet headgear suspension allows user to adjust size and tighten at the turn of a knob. Rugged, polycarbonate window is impact and chemical splash resistant. This convenient system gives you the flexibility to handle various types of grinding, brazing and cutting operations all with one faceshield!



Shade 6 Cobalt Blue option ideal for gas welding applications for aluminum and cast iron as well as in metal, gas and glass furnace operations

Our Shade 8 IR option is the first faceshield in the market to meet ANSI Z49.1 Standards for Plasma Cutting!

Available in Full Face Clear, Shade 3 IR or Shade 5 IR Windows



Ratchet Headgear Included

Part No.	Description
32010	Black Crown, Ratchet Headgear and Clear Anti-Fog Window
32030	Black Crown, Ratchet Headgear and Shade 3 IR Window
32050	Black Crown, Ratchet Headgear and Shade 5 IR Window
32151	Black Crown, Ratchet Headgear with a Clear Anti-fog Window and Shade 5 IR Flip Front Window
32161	Black Crown, Ratchet Headgear with a Clear Anti-fog Window and Shade 6 IR Flip Front Window
32161B	Black Crown, Ratchet Headgear with a Clear Anti-fog Window and Shade 6 Cobalt Blue Flip Front Window
32181	Black Crown, Ratchet Headgear with a Clear Anti-fog Window and Shade 8 IR Flip Front Window
32100	Replacement Clear Anti-Fog Window
32130	Replacement Shade 3 IR Window
32150	Replacement Shade 5 IR Window
32155	Replacement Shade 5 IR Flip Front Window
32166	Replacement Shade 6 IR Flip Front Window
32166B	Replacement Shade 6 Cobalt Blue Flip Front Window
32188	Replacement Shade 8 IR Flip Front Window

IMPULSE® MAGSENSE® AUTO-DARKENING LENS



The Sellstrom Impulse® MAGSENSE® patented auto-darkening filter opto-magnetic detection system is the most fail-safe welding arc recognizing system in the world. This unique product has both optical and magnetic arc detection systems that ensures the filter will never open (turn from dark to light) even if the sensors are blocked. This is achieved through the magnetic field that is created when an arc is struck. With a redundant magnetic arc detection system, the lens will stay dark as long as there is an arc present. The opto-magnetic sensing system is fully adjustable so that you can fine-tune the system to ambient conditions. The Impulse® MAGSENSE® is the perfect auto-darkening welding filter for all welding processes including TIG and TIG pulsing.

Impulse® MAGSENSE® Features

- FAIL SAFE - ABSOLUTELY NO FLICKERING
- Both optical & magnetic arc detection systems, ensuring that the filter will never open (turn from dark to light) even if the sensors are blocked.
- Has the capability to detect light & the magnetic waves that occur during welding operations.
- Great in production applications where lighting issues, close proximity to other welders, smoke, or reflections can confuse other filters.
- Patented variable opto-magnetic sensors can be adjusted from zero to six feet in range.
- Solar powered with dual sensors.
- Variable Shade 9-13
- Switching Speed: Up to 0.1ms
- Active Viewing Area: 1.6" x 3.8"
- **3 Year Warranty - Industry Best!**
(Spatter on lens voids warranty)
- Meets ANSI Z87.1 Standards
- CE Certified



Part No.	Description
27611	Impulse® MAGSENSE® Variable Shade 9-13 Auto Darkening Filter

MAGNIFIER PROTECTIVE EYEWEAR

Sebring® 600 MAG Features

- Bifocal Reader in lens.
- Wide, single piece lens provides incredible clarity and protection.
- Excellent side protection.
- Adjustable temples offer a secure, comfortable fit.
- Meets ANSI Z87.1+ High Impact Standards. CUL Certified to meet CAN/CSA Z94.3 Standards.



Part No.	Description
74615	Clear Frame with Adjustable Temples / Clear Lens with 1.50 Bifocal Reader
74620	Clear Frame with Adjustable Temples / Clear Lens with 2.00 Bifocal Reader
74625	Clear Frame with Adjustable Temples / Clear Lens with 2.50 Bifocal Reader



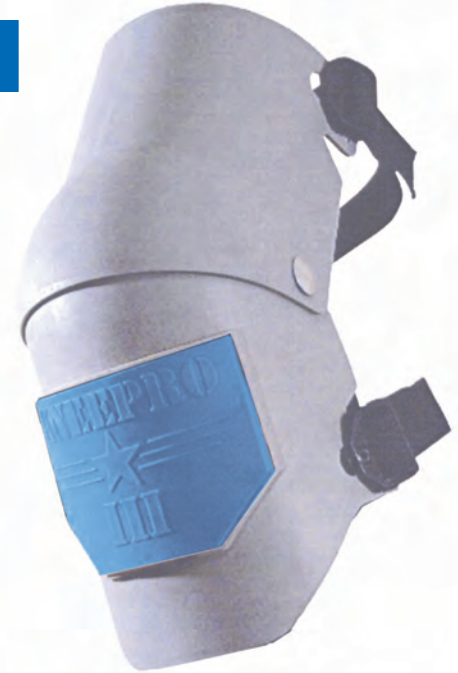
KNEE PROTECTION

Knees pads are important for patella protection (the triangular bone that covers the knee joint). Choose your style based on the type of work or project. Sellstrom provides knee pads in plastic, soft rubber, and more!

Knee-Pro Ultra Flex III™ Knee Pads

Knee-Pro Ultra Flex III™ Features

- Extremely durable hard plastic outer shell with 1/2" closed cell foam pad inside for ultimate comfort.
- Blue Non-Marking Grip-Strip provides the user the security and grip it needs in a knee pad without leaving marks or residue on the work surface.
- Hinged with metal rivet for ease of movement while kneeling or walking.
- Soft elastic woven straps with reinforced sewn ends are attached well above and below the knee.
- Lightweight for all-day use.
- Speed-clips allow for quick attachment and adjustments.



Part No.	Description
96110	1 Pair Knee Pro Ultra in Mesh Drawstring Bag

Kneel-Eze™ Knee Pads

Kneel-Eze™ Features

- Extremely durable, natural sponge rubber molded knee pads.
- Comfortable 2" elastic straps.
- Snug and non-binding.
- Adjustable hook/loop fastening for quick dressing.
- Kneel-Eze® KE-2 Knee Pad includes a super tough second rubber sole.
- Made in USA.



Part No.	Description
96101	Kneel-Eze Knee Pad
96102	Kneel-Eze Knee Pad with rubber sole

PROTECTIVE WELDER'S BIB

- Attaches to the inside of most welding helmets
- Velcro dots provide a convenient and easy way to attach, adjust and remove bib
- Durable
- Protects against sparks and spatter
- Provides protection from infrared and UV rays



Part No.	Description
21100	Leather Welding Bib

FIBREGLASS CLOTH WELDING BLANKETS

Acmetex fiberglass cloth is woven from continuous texturized E-fiberglass yarns and has good chemical and fire resistance. 100% woven texturized fiberglass designed for maximum flexibility using low irritating yarns. Strong, safe and chemical resistant. Maintains physical integrity and protects for excursion. All high temperature fabrics are hemmed on all four sides with high strength thread and have brass grommets on corners and 36" (91.44cm) centers. Custom sizes are available on request.



Heat resistant fabrics and high-temperature fire blankets for all severe heat environments. Typical Applications: High Heat Reflection, Molten Metal Splash, Welding Shields, Freeze Protection, Steam Tracing Insulation, Fire Blankets, Stress Relieving, Lagging, Removable Flange and Valve Covers, Hose and Cable Protection, Expansion Joints, Insulation of Metal Tubing, Pipe Wrap, etc.



24OZ FIBREGLASS WELDING BLANKETS

Properties:

Content/Weave	100% E-Fiberglass Yarn/Plain
Fabric Finish	Plain or 9383(Heat Cleaned)
Weight	24oz/yd ²
Thickness	0.050"
Temperature Resistance	1000°F(540°C)

Part No.	Description
FB246X6	24 oz. 6' x 6' Welding Blanket
FB2410X10	24 oz. 10' x 10' Welding Blanket

35OZ FIBREGLASS WELDING BLANKETS

Properties:

Content/Weave	100% E-Fiberglass Yarn/Plain
Fabric Finish	Plain or 9383(Heat Cleaned)
Weight	35oz/yd ²
Thickness	0.065"
Temperature Resistance	1000°F(540°C)

Part No.	Description
FB356X6	35 oz. 6' x 6' Welding Blanket
FB3510X10	35 oz. 10' x 10' Welding Blanket

POSITIONERS

XT-100



- Optional Features:**
- Dynamic braking.
 - Simple tilt plate accessory for angular work.
 - 10" Table, 12" Table.
 - 230 volt controls for certain off-shore countries.
 - 3-jaw, 5" chuck attaches to table via pre-drilled holes.

Atlas compact welding positioners, built with the welder in mind, are ideally suited for short-to-long run welding jobs requiring fixturing and positioning.

Their ergonomic, low profile keep welding positioners at a comfortable level for the welder working at a standard height work bench.

XT-200



- Optional Features:**
- Dynamic braking.
 - Hollow shaft and Argon fittings for inert gas purge.
 - 12" Table.
 - 230 volt controls for certain off-shore countries.
 - 3-jaw, 5" chuck attaches to table via pre-drilled holes.

Atlas positioners can help boost production on hard to handle jobs requiring circular welding (small spheres and pressure vessels; flange-to-pipe; pipe-to-pipe; etc.) Heavy duty grounding circuit allows use of stick electrode, MIG or TIG welding processes.

500



- Optional Features:**
- Remote control panel.
 - Hollow shaft for gas purge.
 - Optional higher speed ranges. (up to 8.0 RPM)

Selecting The Right Speed Range

To determine the speed range (in RPM's) needed for a particular job, you need to do the following: calculate the arc travel speed (expressed in inches per minute) at which you will weld, and then determine the circumference of the part to be welded by either direct measurement around the outside, or you may multiply the diameter by 3.14 to calculate circumference. Now, apply this simple formula:

$$\text{Arc travel speed} \div \text{part circumference} = \text{RPM}$$

Example:

3" diameter part welded at 35" per minute.
 3" dia. X 3.14 = 9.42" circumference.
 35" speed ÷ 9.42" = 3.7 RPM

This simple exercise will help you select the proper Atlas Welding Positioner for your welding needs.



XT-100 XT-200 500

XT-100

The Atlas Model XT-100 Welding Positioner is a compact machine suited for smaller weldments up to **100 pounds**, properly balanced, and with the table in the horizontal position. The standard **9" table** is driven by a **DC permanent magnet gear head motor** and precision ground and hardened secondary gearing. The grounding circuit handles up to 200 amps of welding current. Model XT-100 is suitable for stick electrode, MIG or TIG processes and is high frequency protected. Operating speed is set on the front control panel by adjusting the solid state **speed control**. The **variable speed foot switch** initiates table rotation and also allows the operator to feather the speed from slow, up to the maximum speed dialled in at the main speed control. A **forward-off-reverse switch** is also provided along with an easily accessible 2 amp fuse for motor overload protection.

XT-100 Specifications

Table Speeds

	Low Speed	Maximum Speed
XT-100 (Standard)	2.5 RPM	11.0 RPM
XT-100-0-2 (Optional)	0.5 RPM	2.8 RPM
XT-100-0-4 “	1.0 RPM	4.7 RPM
XT-100-0-18 “	4.5 RPM	18.5 RPM

Motor

DC Permanent magnet motor

Power Requirement

115 V AC 60 cycle @ 1.3 amps. 10' conductor cord with plug supplied.

Speed Control

Solid State electronic feedback

Start/Stop Control

Rheostat-type foot switch with 10' cord

Dimensions

H = 7.5", W = 11.5", Depth = 9"

Net Weight

32 lbs.

Shipping Weight

34 lbs.

*Listed Table Speeds may vary by \pm 10%. Please specify speed desired when ordering.

XT-200

The Atlas Model XT-200 Welding Positioner handles properly balanced loads up to **200 pounds** with the table in the horizontal position. Model XT-200's unique base tilts the table **130° forward and 15° backward**. Table angle is adjusted by means of a worm gear and locking hand nut. The standard **10" table** is driven by a **DC permanent magnet gear head motor** and precision ground and hardened secondary gearing. The grounding circuit handles up to 200 amps of welding current and features a back mounted threaded stud for securing your ground lug. Model XT-200 is suitable for stick electrode, MIG or TIG processes and is high frequency protected. Operating speed is set on the front control panel by adjusting the solid state **speed control**. The **variable speed foot switch** initiates table rotation and also allows the operator to feather the speed from slow, up to the maximum speed dialled in at the main speed control. A **forward-off-reverse switch** is also provided along with an easily accessible 2 amp fuse for motor overload protection.

XT-200 Specifications

Table Speeds

	Low Speed	Maximum Speed
XT-200 (Standard)	2.4 RPM	9.5 RPM
XT-200-0-2 (Optional)	0.4 RPM	2.3 RPM
XT-200-0-4 “	1.0 RPM	5.2 RPM
XT-200-0-18 “	5.0 RPM	21.0 RPM

Motor

DC Permanent magnet motor

Power Requirement

115 V AC 60 cycle @ 1.3 amps. 5'3" conductor cord with plug supplied.

Speed Control

Solid State electronic feedback

Start/Stop Control

Rheostat-type foot switch with 6' cord

Dimensions

H=9.25", W=10.625", Depth=12.25"

Net Weight

41 lbs.

Shipping Weight

45 lbs.

*Listed Table Speeds may vary by \pm 10%. Please specify speed desired when ordering.

500

The Atlas Model 500 Welding Positioner handles those tough turning jobs with a capacity of up to **500 pound loads**, properly balanced, with the table in the horizontal position. It's **1/4 horse power**, DC permanent magnet motor provides plenty of power and torque. Four brass grounding brushes in contact with the table mounting boss route up to 400 amps of welding current to a **1/2"-13** grounding stud at the rear of the machine. Table speed is set by adjusting the **speed control dial**. A **forward-off-reverse switch** controls table rotation direction. A full speed override switch allows the operator to advance the table at full speed to a new position for intermittent or stitch welding technique. The brake-on-off control allows the operator to select **Dynamic Braking** which stops table rotation almost instantly when the foot control is released. Model 500's foot switch controls the on-off function of the table rotation. A safety enclosure guards the foot switch. All circuit boards, switches and wiring are mounted in the front panel, which can be quickly removed for diagnostics and repair.

500 Specifications

Table Speed

0 - 3.0 RPM

Motor

1/4 HP, DC

Power Requirement

115 V AC 50/60 Hz 10' cord with plug

Start/Stop Control

Foot switch with 8' cord.

Welding Grnd Circuit

400 Amps

Control Panel Functions

Table Rotation

Forward - Off - Reverse

Speed Control

Full Range Precision control with IR compensation

Full Speed Override

On - Off

Dynamic Braking

On - Off

Dimensions

H=10", W=14.5", Depth=15.5"

Net Weight

95 lbs.

Shipping Weight

102 lbs.

*Listed Table Speeds may vary by \pm 10%. Please specify speed desired when ordering.



250 LB. POSITIONER

MODEL NO:
WP-250


(Foot Control CFS-302)

Features:

- 13-3/4" Diameter Table
- 0 to 5.5 RPM Rotation Speed
- Manual Tilt Adjustment
- 115V
- 0 to 90° Tilting Angle
- High Frequency Protected
- Standard w/Foot Control Switch
- Shipping Weight 113 lbs.

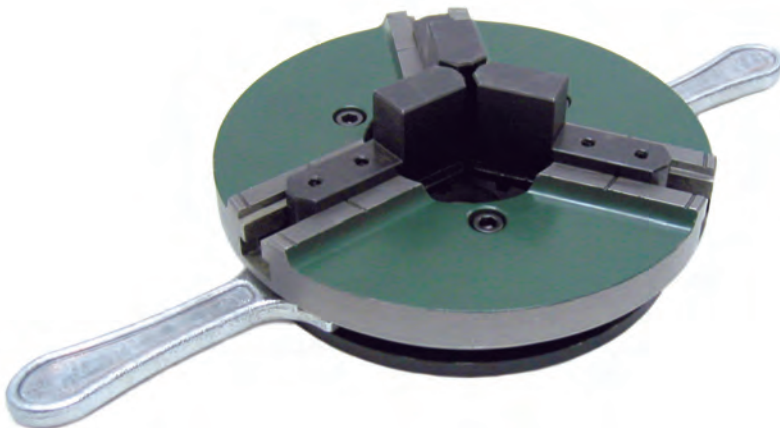
Designed for rotation of lighter work pieces. Will hold 440 lbs. in the horizontal position and 250 lbs. in the vertical position.

Note: C/G of load not to be more than 4" from the center of the turntable and 4" from the face of the turntable.

CHUCK

Features:

- Low Profile
- Self Centering
- Reversible Jaws
- Easy Mounting
- External & Internal Gripping
 - 0" - 8" on O.D.
 - 3" - 11" on I.D.
- Shipping Weight 20 lbs.


MODEL NO:
WPC-11


The above illustration shows the chuck mounted to the PROFAX Welding Positioner WP-250.

500 LB. POSITIONER



(Foot Control CFS-404)

MODEL NO:

WP-500

Features:

- 19-5/8" Diameter Table
- 0.4 - 4 RPM Rotation Speed
- Power Tilt Adjustment
- 115V (230V available)
- 0 to 135° Tilting Angle
- High Frequency Protected
- Standard Fwd./Rev. Foot Control with 12' cord included
- Shipping Weight 580 lbs.

Will hold 500 lbs. in the vertical position and 900 lbs. in the horizontal position. Note: C/G of load not to be more than 6" from the center of the turntable and 6" from the face of the turntable.

1,000 LB. POSITIONER

MODEL NO:

WP-1000

Features:

- 24-1/2" Diameter
- 0.2 to 2 RPM Rotation Speed
- 115V (230V available)
- 0 to 135° Tilting Angle
- High Frequency Protected
- Standard Fwd./Rev. Foot Control
- Shipping Weight 1,200 lbs.

Will hold 1,000 lbs. in the vertical position and 1,750 lbs. in the horizontal position. Note: C/G of load not to be more than 6" from the center of the turntable and 6" from the face of the turntable.



(Foot Control CFS-404)

2,000 LB. POSITIONER

MODEL NO:

WP-2000-4

440V 3PH

Features:

- 35-1/2" Diameter Table
- 0.1 to 1.2 RPM Rotation Speed
- 440V 3 Phase models
- 220V 3 Phase also available
- 0 to 135° Tilting Angle
- High Frequency Protected
- Standard Hand Control Pendant 18 foot
- Optional Foot Control Available
- Shipping Weight 1,640 lbs.



Will hold 2,000 lbs. in the vertical position and 3,500 lbs. in the horizontal position. Note: C/G of load not to be more than 12" from the center of the turntable and 12" from the face of the turntable.

6,000 LB. POSITIONER

MODEL NO:

WP-6000-4

440V 3PH

Features:

- 47-1/4" Diameter Table
- 0.1 to 1.2 RPM Rotation Speed
- 440V 3 Phase models
- 0 to 135° Tilting Angle
- High Frequency Protected
- Standard Hand Control Pendant 18 foot
- Optional Foot Control Available
- Shipping Weight 2,725 lbs.



Will hold 6,000 lbs. in the vertical position and 9,500 lbs. in the horizontal position. Note: C/G of load not to be more than 12" from the center of the turntable and 12" from the face of the turntable.

COMPLETE POSITIONER SPECIFICATIONS

SPECIFICATIONS	WP-250	WP-500	WP-1000	WP-2000	WP-600
CAPACITY VERTICAL	250 LBS.	500 LBS.	1,000 LBS.	2,000 LBS.	6,000 LBS.
CAPACITY HORIZONTAL	440 LBS.	900 LBS.	1,750 LBS.	3,500 LBS.	9,500 LBS.
LOAD CENTER OF GRAVITY	4"	6"	6"	12"	12"
TILT	MANUAL	POWER	POWER	POWER	POWER
TILT ANGLE (DEGREES)	0 - 90	0 - 135	0 - 135	0 - 135	0-135
TILT ANGLE INDICATOR	N/A	N/A	N/A	STANDARD	STANDARD
GROUND CAPACITY	200 AMPS	300 AMPS	500 AMPS	800 AMPS	800 AMPS
GROUNDING DEVICE	CARBON	BRASS	BRASS	ROTARY	ROTARY
HIGH FREQ. PROTECTION	YES	YES	YES	YES	YES
VOLT / AC	115V	115V	115V	440V 3PH	440V 3PH
POWER REQ.	5 AMP	10 AMP	10 AMP	10 AMP	10 AMP
TABLE THICKNESS	9/16"	7/8"	1"	1"	1"
TABLE DIAMETER	13-3/4"	19-5/8"	24-1/2"	35-1/2"	47-1/4"
TABLE CONFIGURATION	3 - SLOT	3 & 4 SLOT	3 & 4 SLOT	3 & 4 SLOT	3 & 4 SLOT
OPTIONAL CHUCK	WPC-6 & 11	WPC-12 & 16	WPC-12, 16 & 20	WPC-16, 20 & 25	WPC-20 & 25
OPTIONAL GRIPPER	-	WPG-22	WPG-22 & 26	WPG-22, 26 & 34	WPG-22, 26 & 34
TABLE HEIGHT (HORIZONTAL)	13-7/32"	25-1/4"	33-11/16"	35-7/8"	43"
TABLE CENTER HEIGHT (VERTICAL)	10-3/64"	21-1/4"	29"	30-3/4"	36-1/2"
THROUGH HOLE	1-1/8"	N/A	N/A	N/A	N/A
TABLE R.P.M.	0 - 5.5	0.4 - 4	0.2 - 2	.2 - 1.2	.1 - 1.2
ROTATION MOTOR H.P.	1/8 H.P.	1/6 H.P.	1/4 H.P.	1 H.P.	2 H.P.
VARIABLE SPEED ROTATION	YES	YES	YES	YES	YES
FOOT CONTROL	SINGLE	FWD./REV.	FWD./REV.	OPT.	OPT.
HAND PENDANT	OPTIONAL	OPTIONAL	OPTIONAL	STANDARD	STANDARD
ANCHOR POINTS	4	4	6	6	6
LEVELING BOLTS	N/A	INCLUDED	INCLUDED	INCLUDED	INCLUDED
UNIT WIDTH	12-1/2"	26"	32-1/4"	36"	47-1/4"
UNIT LENGTH	21"	33-7/8"	48-1/2"	61-1/2"	72"
SHIPPING WEIGHT	113 LBS.	580 LBS.	1,200 LBS.	1,640 LBS.	2,725 LBS.

GRIPPERS



PROFAX NO.	POSITIONER	O.D. CAPACITY	I.D. CAPACITY	WEIGHT
WPG-22	WP-500/WP-1000/WP-2000	1" - 15"	4" - 22"	130 LBS.
WPG-26	WP-1000/WP-2000	1 1/2" - 18"	6" - 26"	235 LBS.
WPG-34	WP-2000	2" - 26"	6" - 34"	365 LBS.

Features:

- Self Centering
- Reversible Jaws
- Easy Mounting

1200 PIPEMATE

The Atlas **dual speed** Model 1200 Pipemate easily rotates pipe and tube sizes from 1 ½" to 17" diameter weighing up to 1,200 pounds (with one end of the pipe supported on an appropriate free turning roller, such as our optional **Idler Rolls**). Two 6" x 2" rubber tired wheels are driven at identical speed and are heat and abrasion resistant. Power is provided by a **DC permanent magnet motor** and hardened secondary gearing. Pipemate features dual speed ranges; **0-35 IPM or 0-70 IPM**. Speed range is changed by removing the side cover and reversing the position of the secondary gears. The **speed control** dial is located on the front panel, along with a **forward-off-reverse switch** and easily accessible 2 amp fuse for overload protection. A broad spectrum, high frequency filter prevents erratic motor operation when TIG welding. The on-off foot switch initiates rotation and is protected by a steel safety enclosure.

An optional, non-powered, Atlas **IDLER ROLL** is an ideal mate for supporting the other end of work pieces. Wheel size, wheel stance and tires are identical to those on the PIPEMATE. A specially designed, heavy duty work stand for the PIPEMATE and IDLER ROLL is also available for welding convenience.

PIPEMATE and IDLER ROLL stand



1200 PIPEMATE

Optional Features:

- Variable Speed Foot Switch.
- 230 volt controls for certain off-shore countries.



1200 PIPEMATE Specifications

Power Requirement	115 V AC 50/60 Hz.
Dimensions	H = 9.25", L = 18", W = 8"
Shipping Weight	56 lbs.

IDLER ROLL



IDLER ROLL Specifications

Non Powered	
Dimensions	H= 9.25", L= 16.75", W= 8"
Shipping Weight	23 lbs.

1200 PIPEMATE STAND Specifications

Dimensions	H=28.125", L=27.5", W=24"
Shipping Weight	22 lbs.

WARRANTY

Atlas, XT-100, XT-200, 500 and 1200 PIPEMATE are warranted against defects in workmanship or materials under normal use (rental service excluded) for a period of 90 days. Liability is limited to the purchase price paid and liability under the aforesaid warranty is limited to replacing or repairing any parts which are defective in workmanship or materials.

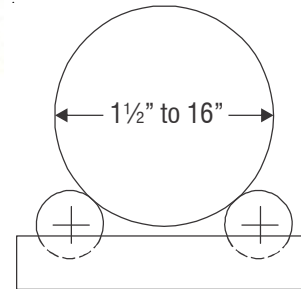


MODEL NO: TR-1500



Features:

- Includes One Drive and One Idler
- 1-1/2" to 16" Diameter
- 0 to 8 RPM Rotation Speed
- 115V
- High Frequency Protected
- Standard w/Foot Control Switch
- Adjustable Drive Tension
- Shipping Weight 146 lbs.

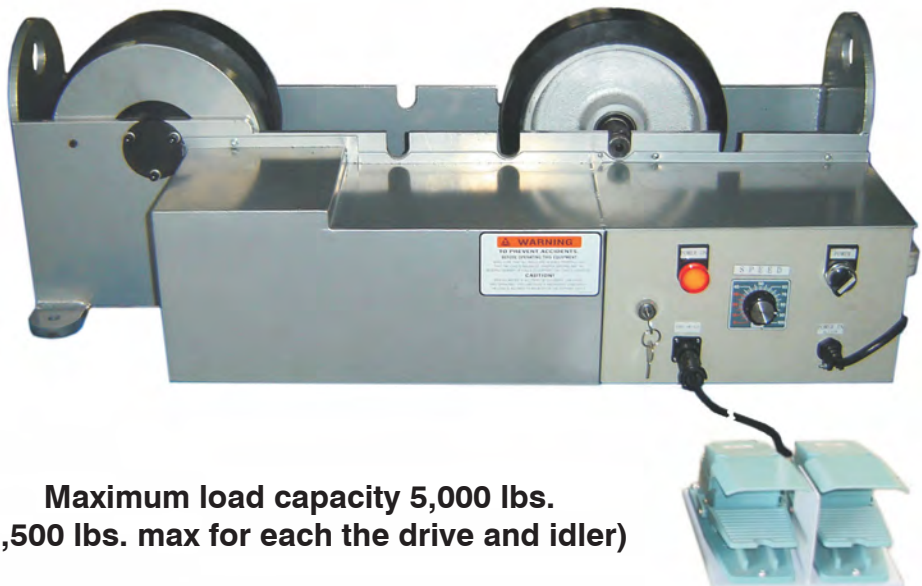


**Maximum load capacity 1,500 lbs.
(750 lbs. max for each the drive and idler)**

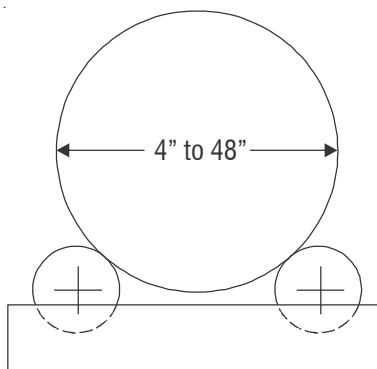
MODEL NO: TR-5000

Features:

- Includes One Drive and One Idler
- 4" - 48" Diameter
- 0 to 5 RPM Rotation Speed
- 115V
- High Frequency Protected
- Standard Fwd./Rev. Foot Control
- Shipping Weight 430 lbs.



**Maximum load capacity 5,000 lbs.
(2,500 lbs. max for each the drive and idler)**



5, 10, 20 & 30 TON TURNING ROLLS ALSO AVAILBLE. CALL FOR DETAILS.

MODEL NO:

TCM-100

Portable Motorized Track Gas Cutting Machine (115V)

Specifications:

- Reliable design with cone drive system
- Accurate straight line cutting and beveling
- Comes with two (2) interlocking one meter track sections
- Ready to mount a 1-3/8" diameter machine torch with 32 pitch rack
- Travel speed up to 32 inches per minute
- 25' power cable
- Shipping weight: 40 lbs.

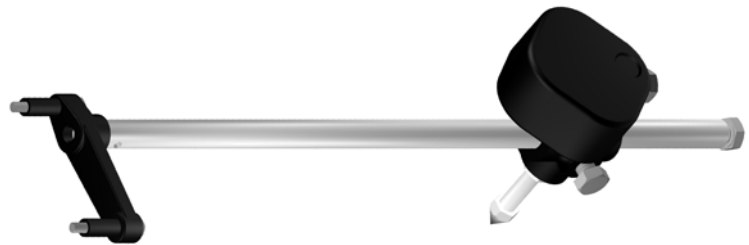


- Additional 1 meter track: PROFAX NO. TCM-1M

Optional Circle Cutting Attachment for TCM-100

MODEL NO:

TCM-100-CC



For cutting 8" through 48" diameters

MODEL NO:

PBM-100

Portable Pipe Beveling & Cutting Machine

Specifications:

- Manually operated pipe beveling & cutting machine
- Simple design allows low maintenance
- Chain system adjusts quickly to diameters from 4" to 24"
- Ready to mount a 1-3/8" diameter machine torch w/32 pitch rack
- Perfect for shop or field work
- Shipping weight: 32 lbs.



- Additional chain available 96": PROFAX NO. PBM-96C



ATLAS SAFETY TOMAHAWKS

MADE ENTIRELY IN THE U.S.A.



COIL HANDLE MODELS

These popular models feature "Flex-O" steel coil hand grips welded to tough steel handle shafts. Heads are "pinned" for safety and reliability. Choose either standard or super duty.

Part No.	Description
G	Chisel & Cross Chisel
H	Cone & Chisel
HSS	Cone & Chisel (Stainless Steel)
HCP	Cone & Cross Chisel
(Super Duty)	
K	Chisel & Cross Chisel
L	Cone & Chisel



WOOD HAND GRIP MODELS

Specially turned hickory hand grips of these models offer user comfort and directional feel.

Part No.	Description
I	Chisel & Cross Chisel
J	Cone & Chisel
JSS	Cone & Chisel (Stainless Steel)
JCP	Cone & Cross Chisel
(Super Duty)	
M	Chisel & Cross Chisel
NCP	Cone & Cross Chisel



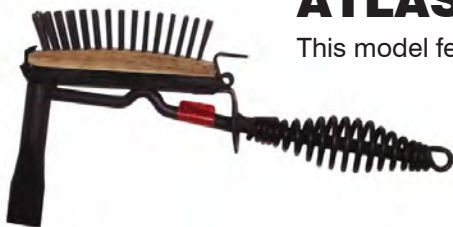
LONG NEK TOMAHAWKS

The Atlas "Long Nek" head design offers 50% greater handle support and protection from handle splinter caused by working over an edge. Select Hickory handles are hand fitted and secured in the head by our unique process which virtually eliminates handle loosening.

Part No.	Description
WH-10	Chisel & Cross Chisel
WH-20	Cone & Chisel
WH-30	Cone & Cross Chisel
WH-40	Curved Cone & Cross Chisel

ATLAS DUAL TOOLS

This model features triple welded brush boxes and top quality replaceable wire brush.



Part No.	Description
A	Chisel

REPLACEMENT PARTS

Part No.	Description
11	Wire Brush for all model Dual Tools
26	13" Wood Handle & Wedge for Long Nek Models

NOTE: The hammers described on these pages are designed and manufactured for cleaning arc welding slag only, unless otherwise indicated in the individual model descriptions. They are neither designed for, nor should they be used for any other purpose. Approved eye protection (preferably goggles or face shields) should be worn.

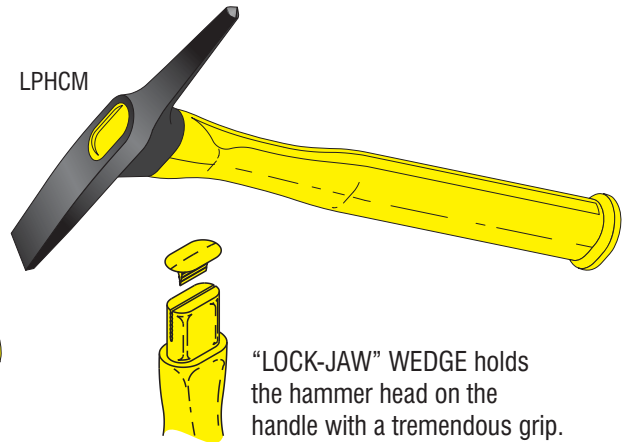
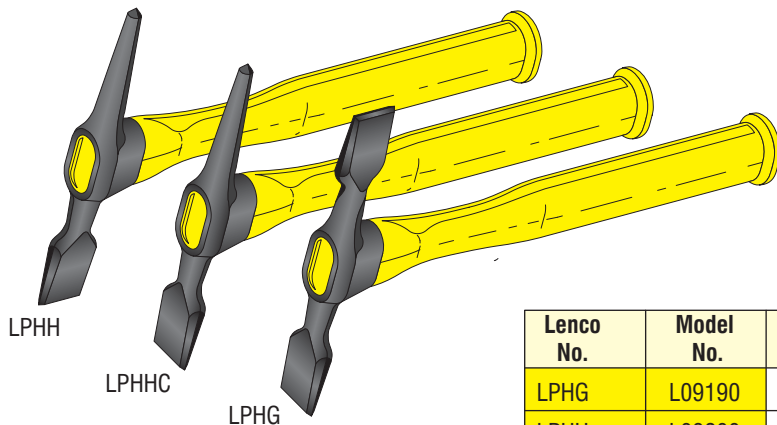




PLASTIC HANDLE HAMMERS

Molded high impact thermoplastic handles are bright yellow with an easy-to-find look. The high impact resistance of these molded handles outlasts wood handles.

- *Reduced Impact Sting*
- *Safety Yellow Color*
- *Ringed Handle End Raises Handle for Easy Pick Up*
- *Splinter Free*
- *Forged Steel Heads*



“LOCK-JAW” WEDGE holds the hammer head on the handle with a tremendous grip.

Lenco No.	Model No.	Description	Length	Weight
LPHG	L09190	Chisel and Cross Chisel	11.75" (305mm)	19 oz. (538g)
LPHH	L09200	Chisel and Pick	11.75" (305mm)	18 oz. (513g)
LPHHC	L09210	Cross Chisel and Pick	11.75" (305mm)	18 oz. (513g)
LPHCM	L09220	Cross Chisel and Pick	11.75" (305mm)	19 oz. (538g)

REPLACEMENT HANDLE

Lenco No.	Model No.	Description
LHRP	L09250	Replacement Plastic Handle for above Models

“BIG MIKE” Hammer



This well-balanced hammer has an extra long 8" (203mm) head with a 1-3/16" (30.15mm) wide blade, good for those hard-to-get-at places.

Lenco No.	Model No.	Description	Length	Weight
LWHCM	L09120	“Big Mike”	11.5" (305mm)	19 oz. (538g)

G.A.L. HI-LO[®]

WELDING

GAGE

MEASURES

INTERNAL

ALIGNMENT

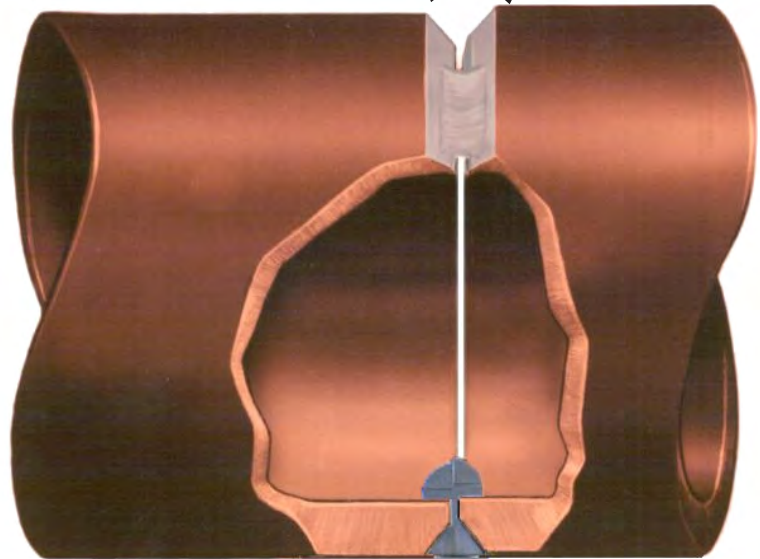
*of pipe after
fit-up/alignment,
cuts radiographic rejects.*

*Measures internal
misalignment of pipe
before and after tacking.*

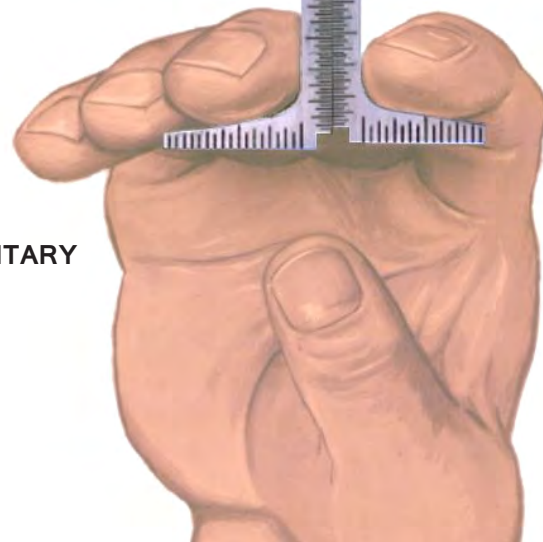
*Measurements read in
standard one side,
metric opposite side.*

SATISFY FIT-UP CODES ASME, ANSI, API & MILITARY

**NEW SLIM
DESIGN**



Patented



Part No.	Description
GAL-1	Standard & Metric

G.A.L. ECONOMY SINGLE PURPOSE HI-LO WELDING GAGE

Available in Standard or Metric. specify when ordering.



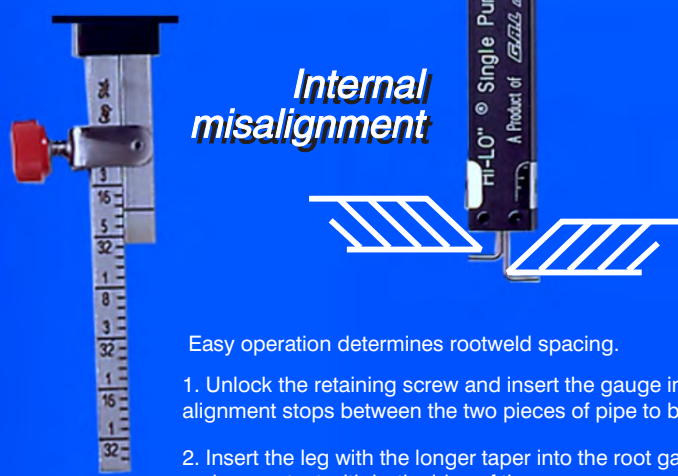
Rootweld space



- You can check the internal alignment of your fit-up quickly with the G.A.L. HI-LO gauge.
1. Unlock the retaining screw. Press the gauge legs beyond the barrel.
 2. Insert the legs (wires) into the root gap space or the two pieces of pipe to be fitted. Turn the gauge 90°, being careful to apply a constant back pressure to the barrel.
 3. Hold the gauge as square as possible with the fitting to obtain an accurate reading. Lock the retaining screw. Reverse the 90° turn and remove the gauge. You're now ready to read the increment opposite the red line.
 4. When the red line aligns with the 1/32 increment line you have a good internal alignment and fit-up. Misalignment can be determined from the zero line by increment markings of 1/16 inch.

1/32 or Zero Line

Eliminates rejects, improves productivity



Internal misalignment

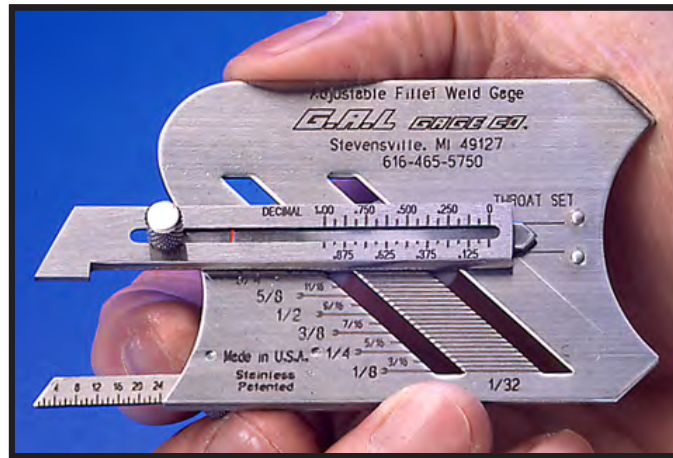
- Easy operation determines rootweld spacing.
1. Unlock the retaining screw and insert the gauge interior alignment stops between the two pieces of pipe to be fitted.
 2. Insert the leg with the longer taper into the root gap until it makes contact with both sides of the gap.
 3. Re-lock the retaining screw, remove the gauge and read it.
 4. The scale is calibrated in fractional dimensions from 1/32 to 3/16 in 1/16 inch increments. The read-out you receive represents the amount of rootweld gap.

Part No.	Description
GAL-2	Standard Econo Hi-Lo
GAL-2M	Metric Econo Hi-Lo



ADJUSTABLE FILLET WELD GAUGE

WITH UNEQUAL LEG MEASUREMENT FEATURE



G.A.L. Adjustable Fillet Weld Gauge is easy to use.



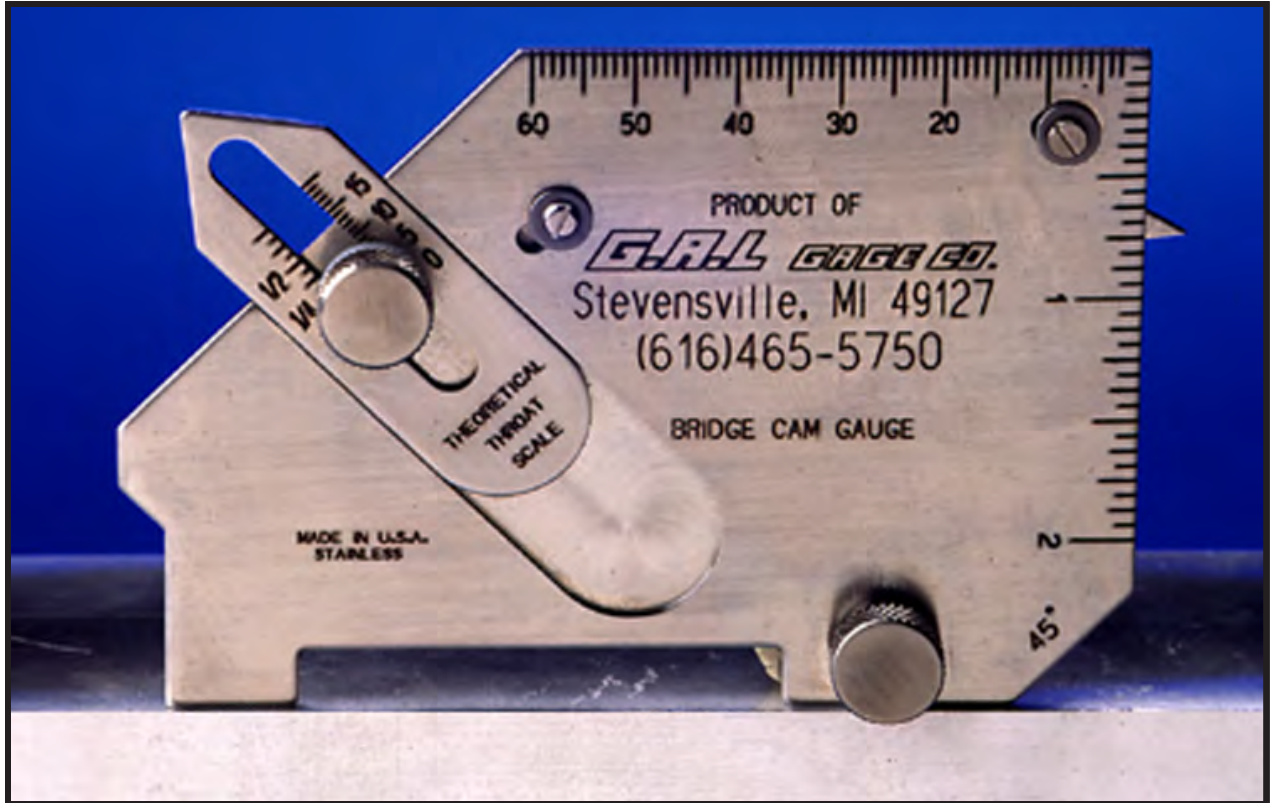
To measure fillet welds place irregular curve edge flush to horizontal toe of weld so the straight edge is in line with the horizontal member.



To measure weld throat thickness place the 45° angle end flush to the horizontal and vertical members. Loosen the thumb screw and slide the pointer until it touches the face of the weld.

Part No.	Description
GAL-3	Standard Gauge
GAL-3M	Metric Gauge

BRIDGE CAM GAUGE

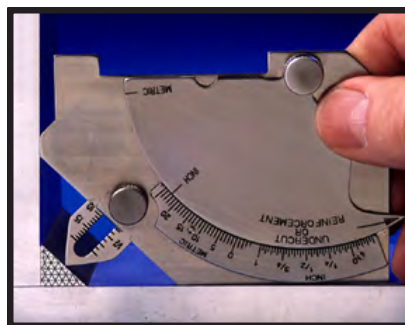


The following measurements are possible either in inches or millimeters.

- Angle of preparation, 0 to 60°
- Excess weld metal (capping size)
- Depth of undercut
- Depth of pitting
- Fillet weld throat size
- Fillet weld leg length
- Misalignment (High-Low)



Excess Weld Metal



Fillet Weld Throat

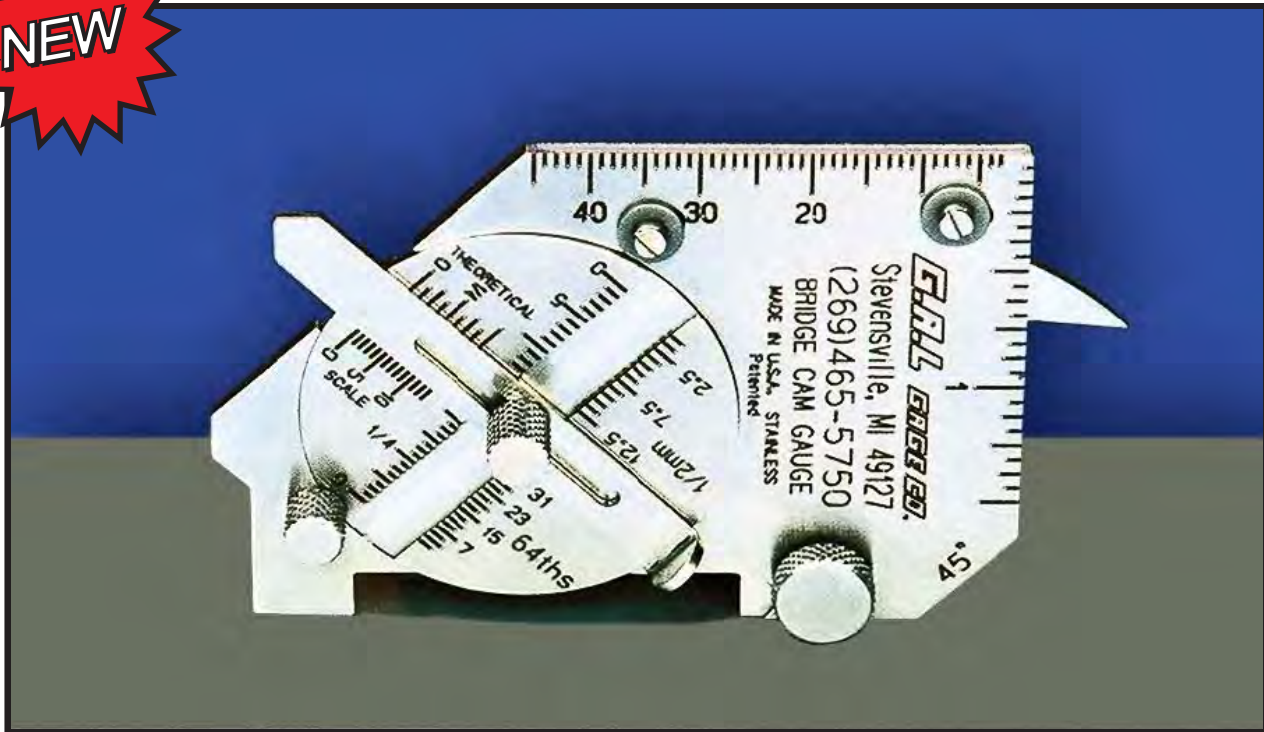


Angle of Preparation

Part No.	Description
GAL-4	Standard & Metric Gauge



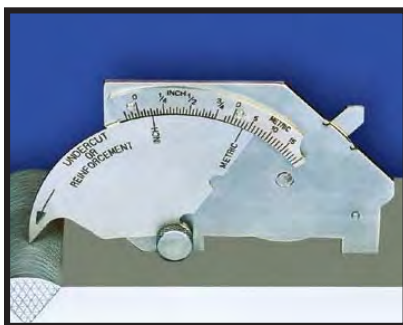
POCKET BRIDGE CAM GAUGE



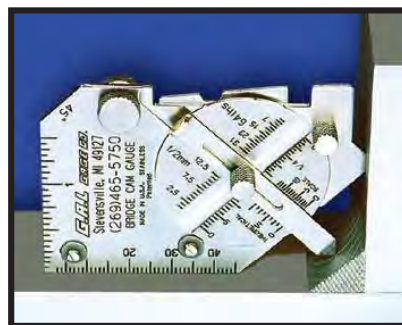
The following measurements are possible either in inches or millimeters.

- Angle of preparation, 0 to 60°
- Excess weld metal (capping size)
- Depth of undercut by 1/32"
- Depth of pitting by 1/32"
- Fillet weld throat size (1/64" or .5mm)(Theoretical and Actual)
- Fillet weld leg length
- Misalignment (High-Low)

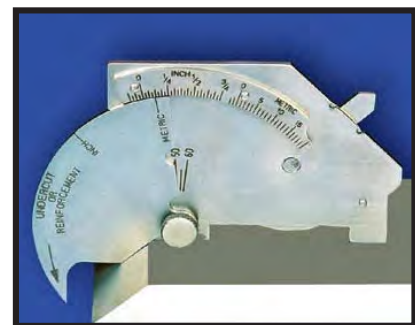
ALL STAINLESS CONSTRUCTION



Excess Weld Metal



Fillet Weld Throat



Angle of Preparation

Part No.	Description
GAL-4A	Standard Gauge

“V-WAC” WELD GAUGE

- ▶ Checks Undercut
- ▶ Checks Crown Height†
- ▶ Checks Porosity
- ▶ Checks Pits
- ▶ All Stainless Steel



Metric or English

Features of the V-WAC™ Gauge

ACCURATE

Undercut depth or crown height scale can be read to 1/32 inch.
 Porosity comparison of 1/8 inch and 1/16 inch.
 Linear gauge in 1/16 inch increments.

EASY TO USE

Pointer is easy to set and a locking screw holds it in position for later reference.
 Figures and increments are etched into surface. They are easy to read and will not rub off.

FAST

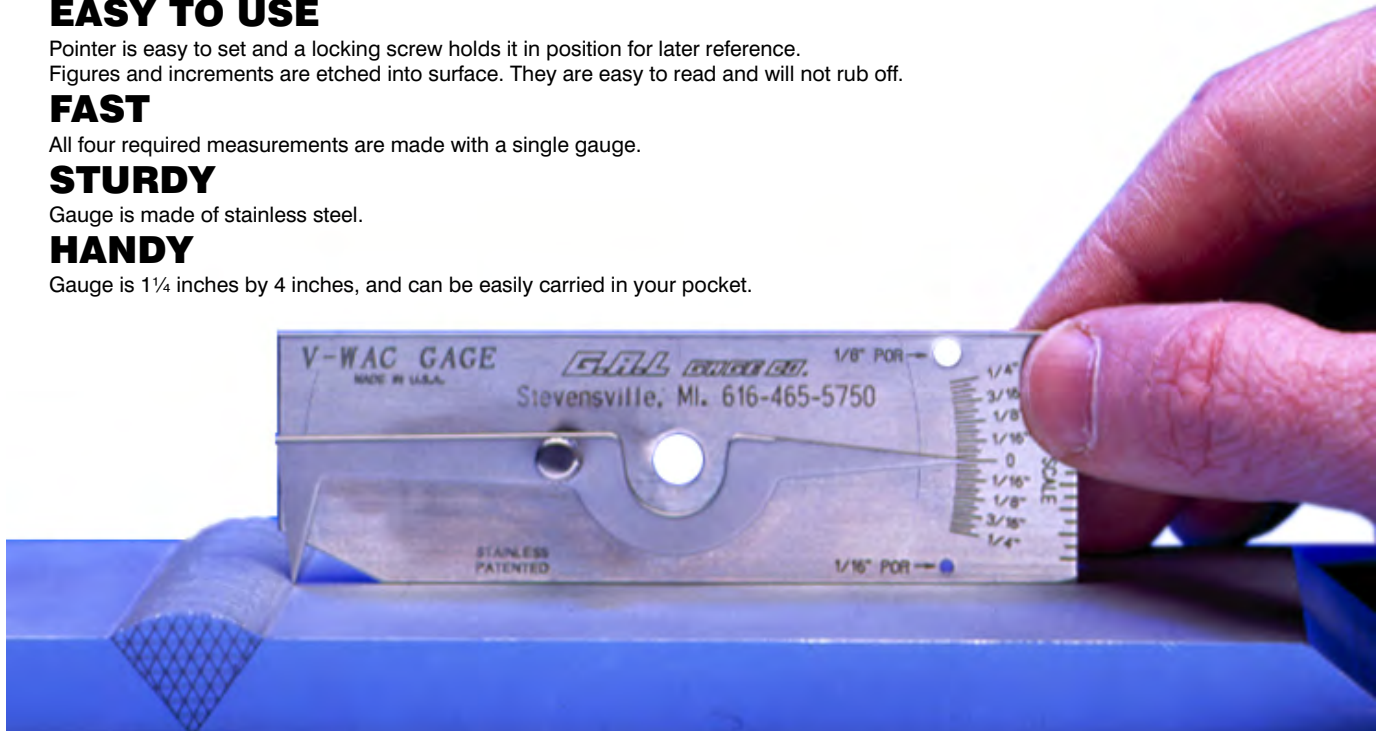
All four required measurements are made with a single gauge.

STURDY

Gauge is made of stainless steel.

HANDY

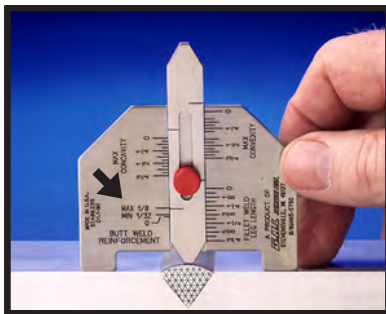
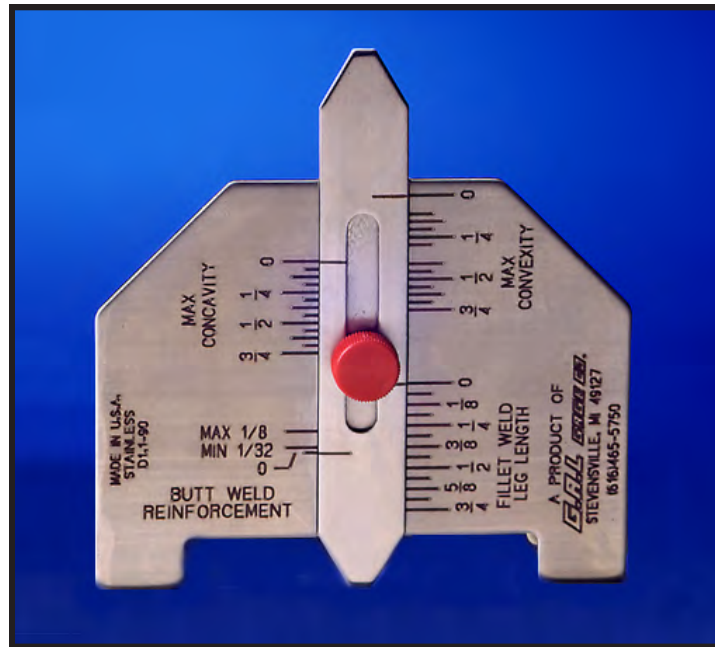
Gauge is 1¼ inches by 4 inches, and can be easily carried in your pocket.



Part No.	Description
GAL-5	Gauge with 1/64" Tolerance
GAL-5-7	Gauge with WTPS Gauge & Block
GAL-5-8	Gauge Set (GAL-5, GAL-8)
GAL-5-7-8	Gauge Set with WTPS Gauge & Block
GAL-5M	Metric Gauge with 1-64" Tolerance

AUTOMATIC WELD SIZE WELD GAUGE

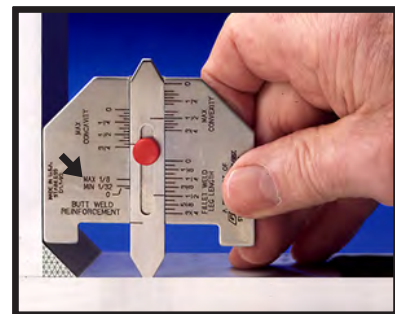
For Accurate Calibration of Butt and Fillet Type Welds.



**CHECK
REINFORCEMENT**



**CHECK THE
THROAT OF
FILLET WELD**



**TO DETERMINE
THE LEG SIZE
OF THE
FILLET WELD**

With the A.W.S. Gauge shown above it is possible to meet specifications of butt and fillet type welds. New redesigned instrument is pocket sized and easy to operate, new feature includes thumb screw which replaces old hard to operate rivet type.

The convexity and concavity sizes have automatically been predetermined in accordance with American Welding Society D.I.I. Paragraph 3.6.

Instrument is precision built of stainless steel with dimensional readings chemically etched and filled for easier reading.

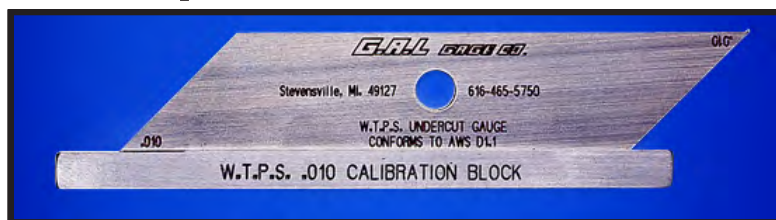
Part No.	Description
GAL-6	Standard Gauge
GAL-6M	Metric Gauge

G.A.L. GAGE WTPS GAUGE

MEASURE UNDERCUT .010 DEEP



Undercut shall be no more than .010 in. (0.25) mm) deep when the weld is transverse to the primary stress in the part that is undercut.



From GAL Gage, Co. WTPS Gauge is precision made from stainless steel all markings and dimensions are laser engraved for ease and clarity when reading.

Gauge set comes with a precision ground calibration block as shown above, each block has been surface ground to .0005 tolerance for exceptional accuracy.

Part No.	Description
GAL-7	Standard Gauge / Calibration Block

7 PIECE FILLET WELD SET



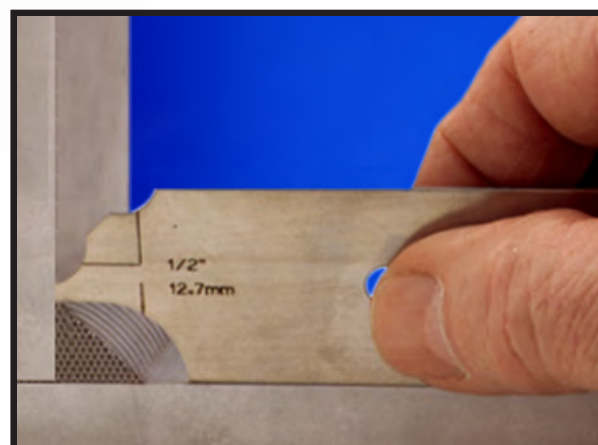
Gage now available with markings on both sides upon request.



- STAINLESS STEEL
- CAN BE CERTIFIED



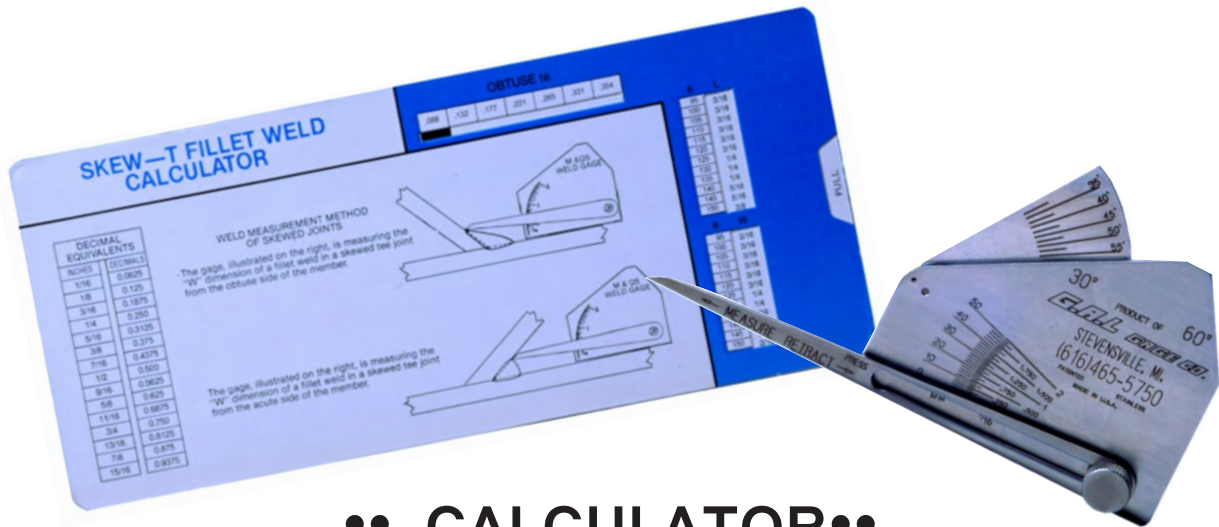
CHECKING FILLET THROAT SIZE



CHECKING FILLET LEG SIZE

Part No.	Description
GAL-8	Standard & Metric Gauge
GAL-8A	Gauge w/ Markings on Both Sides

Patented SKEW-T FILLET WELD GAUGE



•• CALCULATOR ••

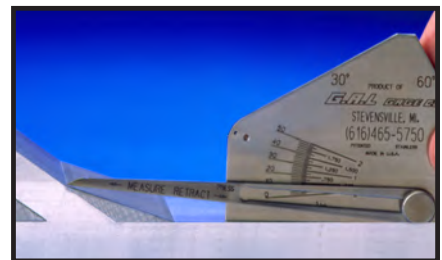
A handy compilation of mathematical relationships between leg length, throats, skew angles and inspection dimensions. A must for designers and inspectors. The perfect companion to the G.A.L. SKEW-T FILLET GAUGE, (Gauge measures in english & metric.)



**ACUTE
SIDE**



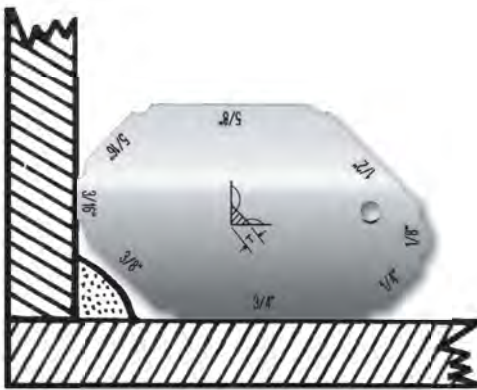
**CHECKING ANGLE OF
VERTICAL MEMBER**



**OBTUSE
SIDE**

Part No.	Description
GAL-9A	Weld Gauge Standard & Metric Gauge
GAL-9B	Weld Calculator Standard & Metic
GAL-9C	Weld Gauge and Calculator Standard & Metic

PRE INSPECTION POCKET FILLET WELD GAUGE



MEASURES THROAT
(Allowable Convexity)



MEASURES THROAT
(Theoretical)



MEASURES LEG LENGTH

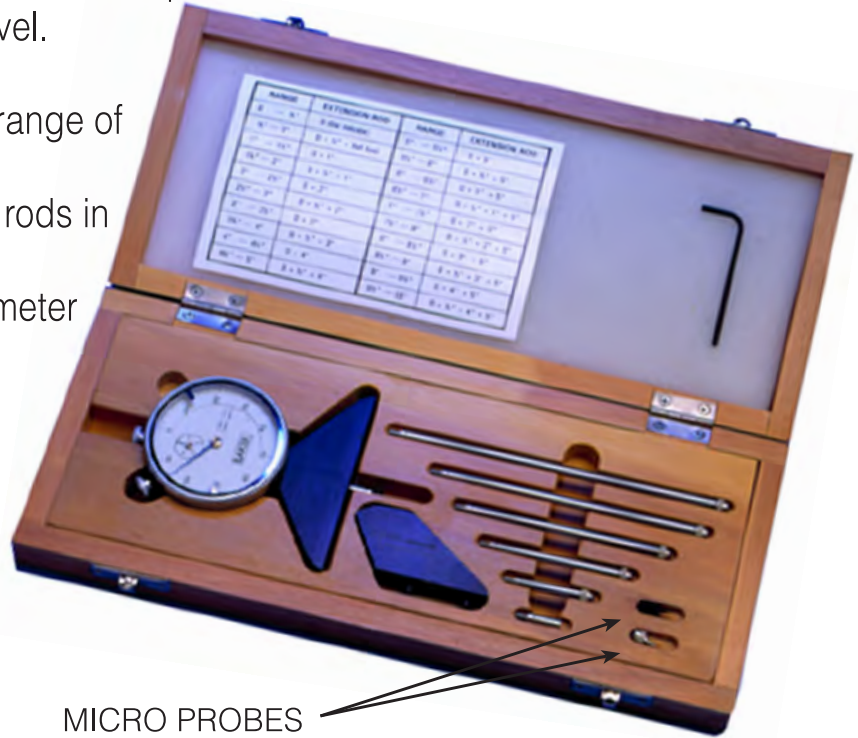


- New Pocket Size - Measures 8 Size Fillets
- Checks Leg Length
- Throat Size, Plus Allowable Convexity
- All Increments Permanently Engraved
- Available in Standard or Metric
- Each Welder can Carry Set for Pre Inspection
- Handy Key Chain Holes Keep Set Together
- Material Anodized Aluminum

Part No.	Description
GAL-10	Standard Gauge
GAL-10M	Metric Gauge

COMBINATION 0" - 10" DIAL/PIT DEPTH GAUGE

- Measuring Range 0 - 10"
- Graduations .001"
- Accuracy meets or exceeds federal specs.
- Continuous dial for 1/2" travel.
- Revolution Counter.
- Uniform pressure over full range of travel.
- Complete with 6 extension rods in fitted case.
- Micro probes for small diameter pits .062 to .025
- Interchangeable Bases.



MICRO PROBES
.062 DIAM. - .025 diam.

GAUGE SHOWN WITH
WELDING BASE AND .062 MICROPROBE ATTACHED



MEASURES UNDERCUT
SOCKET WELD



MEASURES UNDERCUT
BUTT WELD



MEASURES CROWN HEIGHT
BUTT WELD

Part No.	Description
GAL-13	Standard Gauge

“MINI SUB” SOCKET WELD GAUGE

- ▶ Check Throat Dimensions
- ▶ Check Leg Length
- ▶ Checks All Pipe Schedule
- ▶ All Stainless Steel

**NEW
DESIGN**



Sliding Pointer
for Different pipe
Schedules

Sliding Pointer
for Throat
Measurement

Part No.	Description
GAL-14	Standard Gauge

NEW! NEW! NEW!

MINI FILLET WELD KEYS

- ALL GAUGES STAINLESS STEEL



- SET COMES WITH HANDY KEY CHAIN AND POCKET POUCH

- 11 DIFFERENT SIZES IN STANDARD SIZES WITH METRIC EQUIVALENT MARKINGS – 1/8" to 1"



CHECKING WELD LEG SIZE



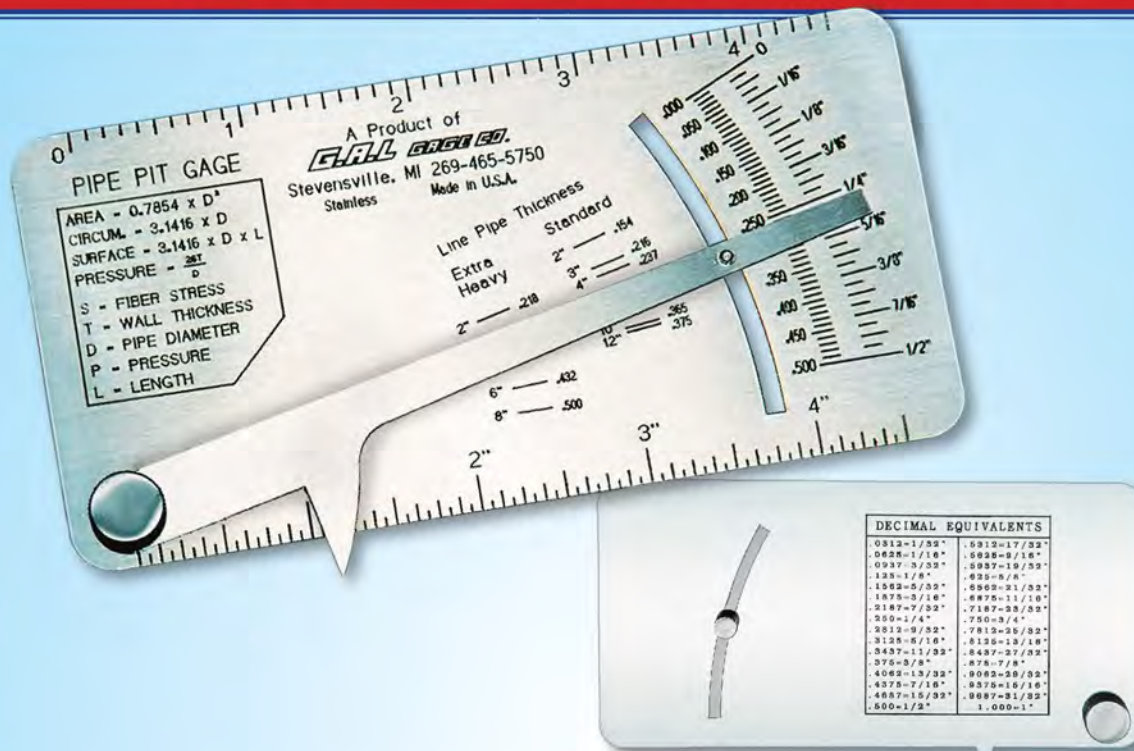
CHECKING WELD DIMENSION OF SKEWED MEMBER



CHECKING THROAT DIMENSION

Part No.	Description
GAL-16	Standard Gauge

PIPE PIT GAGE

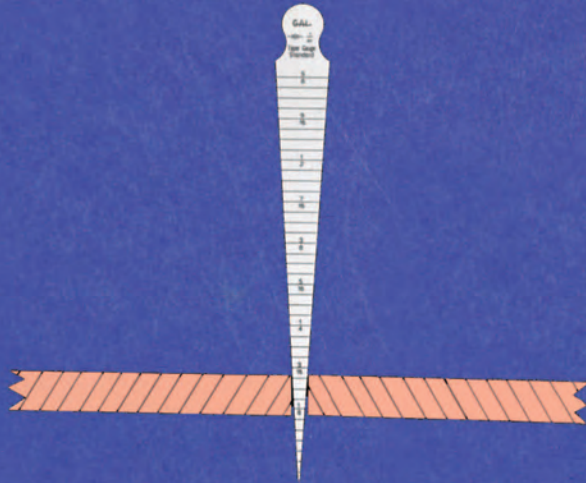


The **G.A.L. PIPE PIT GAGE** will give long life in the field or factory.

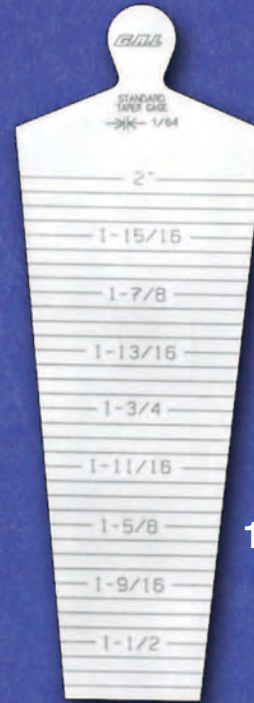
- Range is 0 to 1/2" in 1/64 & .020 increments.
- Arm can be locked in place at any dimension.
- All Stainless Steel
- Gage will fit in shirt pocket and comes in a pocket protector.
- Has handy formulas on front and decimal equivalents on back



Part No.	Description
GAL-17	Standard Gauge



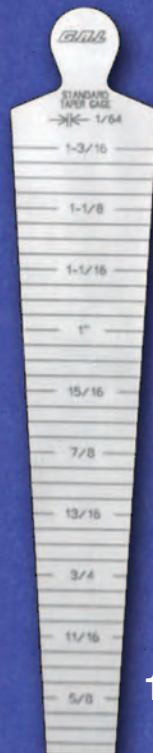
CHECK PLATE FIT-UP



1-3/16"
TO
2"

SUB-28C

Front Side - STANDARD
Back Side - METRIC



5/8"
TO
1-3/16"

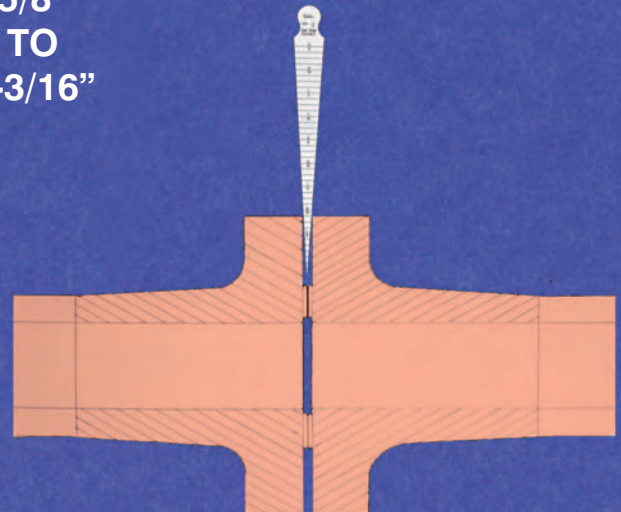
SUB-28

Part No.	Description
SUB-28	Taper Gauge 5/8" to 1-3/16"
SUB-28A	Taper Gauge 1/32" to 5/8"
SUB-28C	Taper Gauge 1-3/16" to 2"



1/32"
to
5/8"

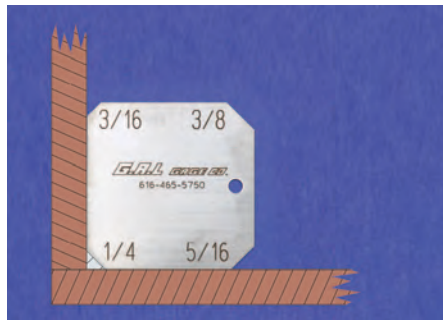
SUB-28A



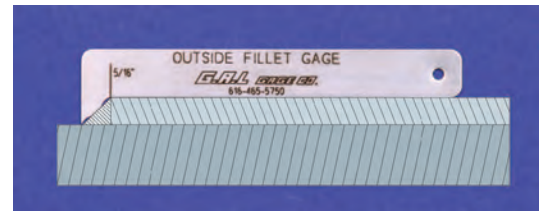
CHECK FLANGE FIT-UP

TAPER GAUGES

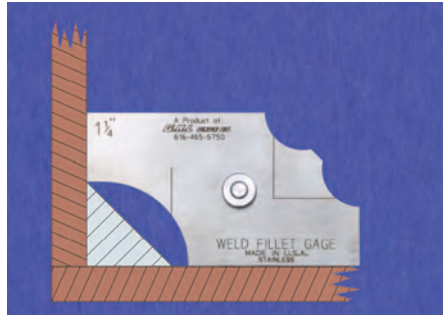
SPECIAL GAUGES SECTION



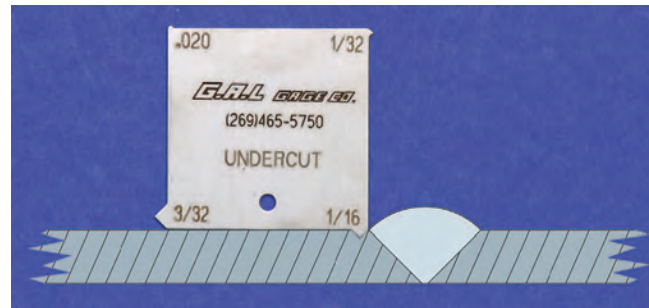
SPECIAL DESIGN FILLET GAUGE



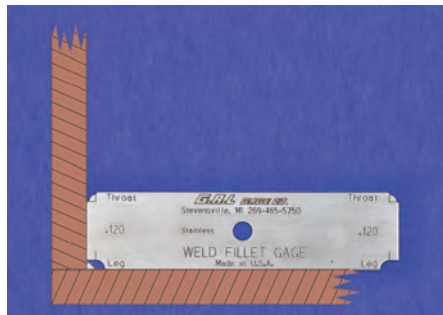
**OUTSIDE FILLET GAUGES,
VARIOUS SIZES AVAILABLE**



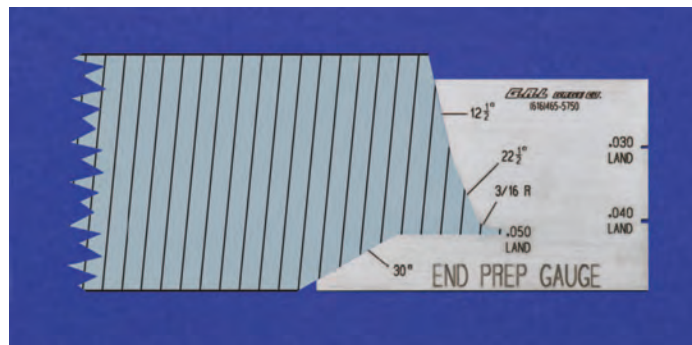
1-1/4" DESIGN FILLET GAUGE



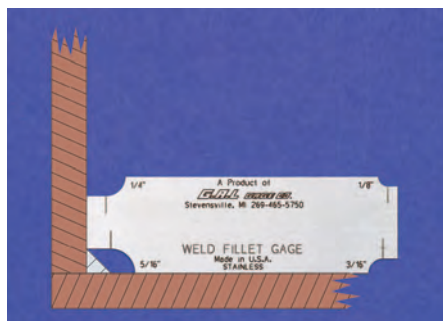
SPECIAL UNDERCUT GAUGE



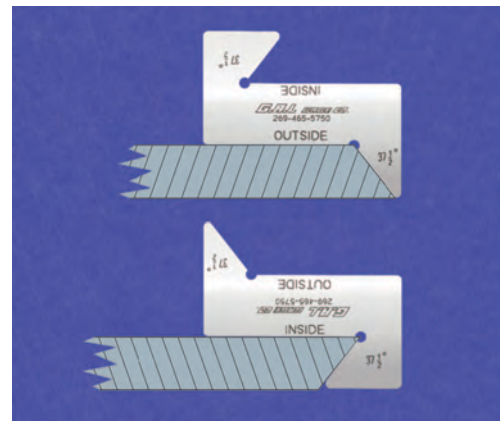
SMALL TOLERANCE FILLET GAUGE



END PROFILE GAUGE - PIPE



**SPECIAL FILLET GAUGE
LEG LENGTH ONLY**



END PROFILE GAUGE - PIPE

- Custom Gauges fabricated to your design or ours
- Tolerances to your specification, logos and identification permanently engraved, quick turnaround
- Automotive • Military • Aerospace

Part No.	Description
SUB-20	Special Design Fillet Gauge
SUB-21	1-1/4" Design Fillet Gauge
SUB-22	Small Tolerance Fillet Gauge
SUB-23	Special Fillet Gauge
SUB-24	Outside Fillet Gauge
SUB-25	Special Undercut Gauge
SUB-26	End Profile Gauge

WELDERS, CWI® INSPECTORS, INSTRUCTORS

NOW YOU CAN DESIGN YOUR INSPECTION TOOL KIT

Specify the tools you need from our catalog to suit your particular needs and we'll put them in kit form with your own personalized nameplate.



Kit Includes:
 V-Wac Gauge (GAL-5)
 Econo Hi-Lo Gauge (GAL-2)
 6" General Scale
 Telescoping Mirror
 Pen Light

WRAP-AROUND POUCH
 MEASURES 9" x 6 1/2" OPEN.
 MEASURES 6 1/2" x 4 1/4" WRAPPED UP.
 FITS IN POCKET.



BRIEF CASE TYPE/LOCK & KEY
 MEASURES 18" x 12 1/2" x 3"

Kit Includes:
 V-Wac Gauge (GAL-5)
 Fillet Weld Gauge (GAL-8)
 WTPS / Block (GAL-7)
 Bridgecam Gauge (GAL-4)
 Economy HI-LO Gauge (GAL-2)
 HI-LO Gauge (GAL-1)
 AWS Gauge (GAL-6)
 Skew-T Fillet Weld Gauge w/ Calculator (GAL-9C)
 Adj Fillet Weld Gauge (GAL-3)
 6" Starrett Scale
 Telescoping Mirror
 Micrometer with Ball
 Magnifier



KIT WITHOUT HANDLE
 MEASURES 13" x 8" x 3"

Kit Includes:
 V-Wac Gauge (GAL-5)
 AWS Gauge (GAL-6)
 HI-LO Gauge (GAL-1)
 Micrometer with Ball
 Telescoping Mirror
 6" Starrett Scale
 Magnifier
 Sturdy Protective Case

Part No.	Description
GAL-12W	Wrap-A-Round Pouch
GAL-12M	Medium Size Kit
GAL-12B	Deluxe Brief Case Kit

GAP-A-LET[®] + SOCKET WELDS

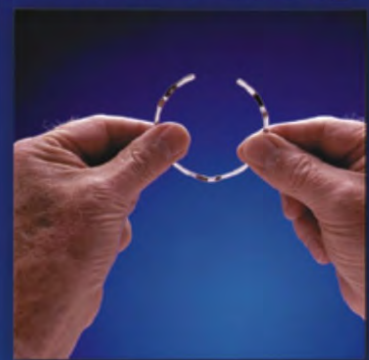
The Common Sense approach to Quick, Safe socket welds

Accept No Substitutes



1/16" Minimum Code Required Gap, Without Measuring, Using GAP-A-LET[®] Socket Weld Contraction Rings Prevents Cracked Welds due to Improper Gapping

Call or write for Catalog, Video & Free Sample Ring...



PATENTED THROUGHOUT THE WORLD

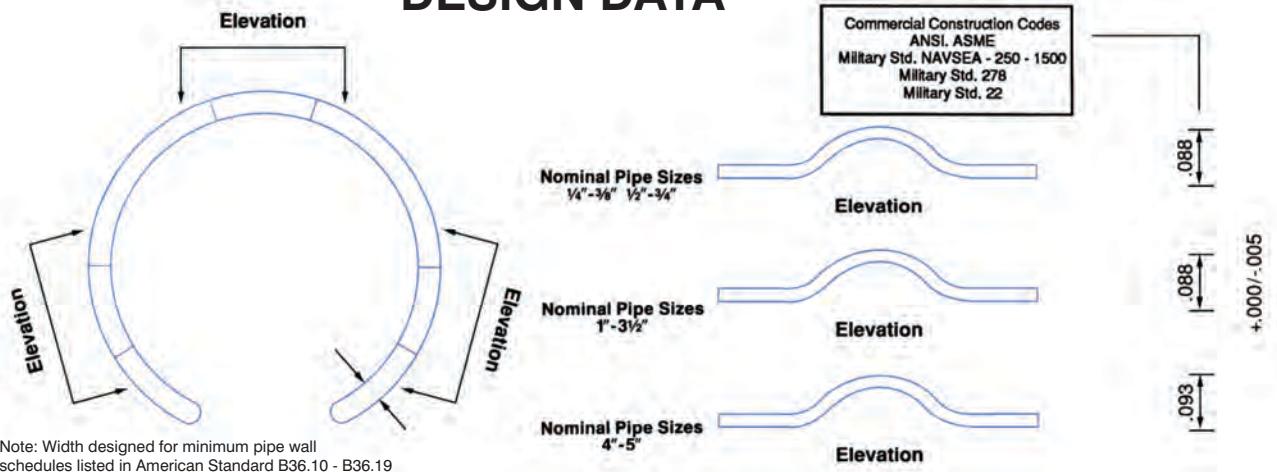
GAP-A-LET®

Socket Weld Contraction Rings

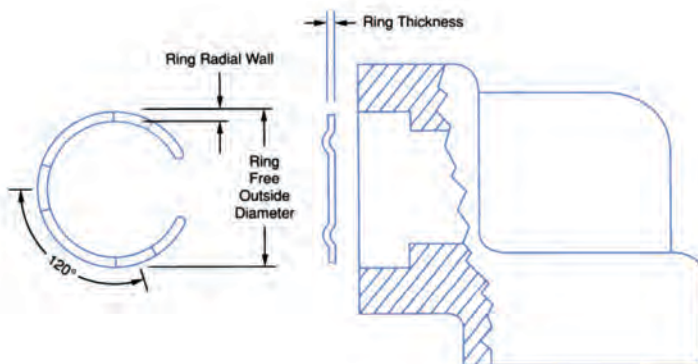


- Proper socket weld fit-up in one-tenth the time.
- Accurate 1/16" min. Gap without time consuming measuring, scribing and pull-out.
- Eliminate cracked welds resulting from improperly gapped joints.
- Meets military and commercial construction code standards.
- Patented - United States, Canada, Germany, United Kingdom and Japan.
- Sizes from 1/4" NPS to 5" NPS.
- Instrumentation tubing sizes 3/8" to 2".
- Boiler tubing sizes as required.

DESIGN DATA



Popular Sizes in stock for immediate delivery 316L Certified Stainless Steel



Standard GAP-A-LET Ring	Fitting	Ring Free Outside Diameter	Ring Wall Radial	Ring Thickness
1/4 NPS	.555	.600	.070	.025
3/8 NPS	.690	.730	.070	.025
1/2 NPS	.855	.880	.070	.025
3/4 NPS	1.065	1.110	.070	.025
1 NPS	1.330	1.385	.105	.030
1 1/4 NPS	1.675	1.780	.105	.030
1 1/2 NPS	1.915	2.020	.105	.030
2 NPS	2.406	2.580	.105	.030
2 1/2 NPS	2.905	3.010	.105	.030
3 NPS	3.500	3.885	.105	.030
3 1/2 NPS	4.000	4.150	.105	.030
4 NPS	4.500	5.110	.103	.040
5 NPS	5.563	5.880	.103	.040

All dimensions are in inches

Part No.	Description
GAPxxx	GAP-A-LET Rings per Pkg. of 20



**Get Proper Socket Weld Fit-Up
In One-Tenth the Time**

GAP-A-LET®

**SOCKET WELD
CONTRACTION RINGS**

PATENTED

- Every socket weld gap, the proper 1/16" minimum required by ANSI 31.1, Section III, ASME, US Navy & Military Codes
- No more scribe and pull out procedure
- No more measuring or guessing gap distance
- And no more cracked welds due to contraction of improperly gapped joints

East to Store, Easy to Distribute

Gap-A-Let socket weld contraction rings come in packages of 20 rings per resealable plastic bag. No messy case of loose rings... No spillings of rings on floor while working. Just hand your welders and fitters the number of packages they need for the day and they're ready to make perfect, premeasured socket welds to code. And the pre-counted contents make inventory and re-ordering easier too. Helps prevent over and under stocking.

Every packet of Gap-A-Let socket weld contraction rings comes with a certified test report verifying the chemical analysis and physical properties of material shipped. While we do guarantee the test reports on the product material, any product can be misused, which in this instance could result in an improper weld. This certification and the use of a Gap-A-Let ring in no way guarantees the quality, condition or durability of the weld. G.A.L. Gage Company will assume no responsibility for damage to the piping system or to component parts due to the use or misuse of this ring.



Portable Ovens For Shop or Field

STORING YOUR ELECTRODES IN KEEN OVENS

Storing electrodes should be a high priority in order to keep them dry and in prime condition. The coating on electrodes absorbs moisture. This moisture will affect the ability of your electrodes to produce a quality weld. Hydrogen from the moisture is released into the metal when heat is applied as in welding. When the weld cools it can become brittle, crack or develop pin holes.

KEEN OVENS ARE DESIGNED AND BUILT TO KEEP YOUR ELECTRODES DRY AND FACTORY FRESH

State-of-the-art design and quality materials go into the manufacturing of Keen ovens. You can depend on Keen for:

- Maintaining optimum temperatures
- Being energy efficient and economical
- Readily available replacement parts

KEEN OVENS COME IN A VARIETY OF MODELS

Keen ovens are available in portable, bench type, or floor models with capacities from 15 to 1500 pounds (6.08-680.4 kg) and lengths up to 36 inches (91.44 cm). Models are also available with temperature ranges from holding to re-bake. All models are 50/60 cycle.

ADVANTAGES OF SELECTING A KEEN OVEN

Several features are combined in making Keen ovens a better choice over competitive models.

SHELVING

The diagonally compartmented shelf creates a natural heat exchanger. When filled with 50 lb. electrode tins, the ½ inch (1.27 cm) air space between the tins allows air to circulate freely throughout the oven. (Storing electrodes on a horizontal shelf cuts off direct circulation and adds oven weight unnecessary for structural strength.) In the Keen oven the weight is evenly distributed and the shelf is stressed to hold its own weight.

CONSTRUCTION

Construction is of heavy gauge steel which is treated and painted with a high gloss, chemical resistant safety blue finish.

ECONOMICAL

The unique balance of thermostatically controlled heat with the interior shelving design allows minimum energy usage for operation at optimal temperature.

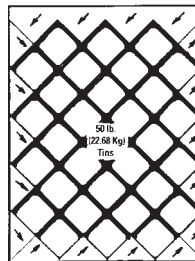


KK-15

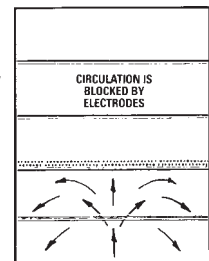
Part No. KK-15

Electrode Capacity
Volts
Watts
Temperature
Insulation
Interior Dimensions
Net Weight
Shipping Weight
Shipping Dimensions

Keen Ovens
Diagonally
Compartmented
Shelf Design



Conventional Shelves
Add Unnecessary Oven
Weight and Cut Off Air
Circulation and Efficiency



Specifications

15 lbs. (6.8 kg) 18" (45.7 cm) rods
120V AC/DC
100W
100°-300°F (38°-149°C)
1" (2.54 cm)
3.3" (8.38 cm) D x 19" (48.26 cm) H
13 lbs. (5.9 kg)
16 lbs. (7.3 kg)
10.5" (26.67 cm) x 9" (22.86 cm)
x 22.75" (57.78 cm)

KK-15WT



Part No. KK-15WT

Electrode Capacity
Volts
Watts
Thermostat
Temperature
Insulation
Interior Dimensions
Net Weight
Shipping Weight
Shipping Dimensions

Specifications

15 lbs. (6.8 kg) 18" (45.7 cm) rods
120V or 240V AC/DC
150W/150W
Factory Preset/Field Adjustable
Preset 275°F (135°C) Range 100°-
300°F (38°-149°C)
1" (2.54 cm)
3.3" (8.38 cm) D x 19" (48.26 cm) H
13 lbs. (5.9 kg)
16 lbs. (7.3 kg)
10.5" (26.67 cm) x 9" (22.86 cm)
x 22.75" (57.78 cm)



KK-50

Part No. KK-50

Electrode Capacity
Volts
Watts
Thermostat
Temperature
Insulation
Interior Dimensions
Net Weight
Shipping Weight
Shipping Dimensions

Specifications

50 lbs. (22.7 kg) 18" (45.7 cm) rods
120V AC/DC
150W
Factory Preset/Field Adjustable
Preset 275°F (135°C) Range 100°-
300°F (38°-149°C)
1" (2.54 cm)
6" (15.24 cm) x 19" (48.26 cm) H
18 lbs. (8.16 kg)
20 lbs. (9.07 kg)
10.5" (26.67 cm) x 9" (22.86 cm)
x 22.75" (57.78 cm)





Bench Type Ovens

PORTABLE OVENS FOR SHOP OR FIELD

These light weight ovens are designed to protect electrodes during transfer from the holding oven to the job. They are light and easy to carry. The square shape gives these ovens greater stability vertically or horizontally. Made from steel, treated, then painted with chemical resistant blue finish. All parts are warranted for one year.

BENCH TYPE OVENS

These models are designed for the small to medium shop. They allow storing at optimum temperature, protecting welds from harmful moisture. These ovens are compact and energy efficient, therefore an economical buy. The KK-200 may be shipped by courier. All bench types are thermostatically controlled. Available in 36" (91.4 cm).

ACCESSORY ITEMS

- Stack Kit for KK-450 - extra leg allows the KK-450 to be stacked 2 or 3 high (can be installed in field).
- Thermometer Kit - for bench and floor type ovens
- Thermometer Accessory - for all KK-15 ovens, this accessory is fitted with a quality bi-metal type thermometer (temperature range is 50° to 550°F) in a stainless steel case allowing welders or inspectors to easily check oven temperature.



KK-TK
Shown Installed
on KK-15 Lid



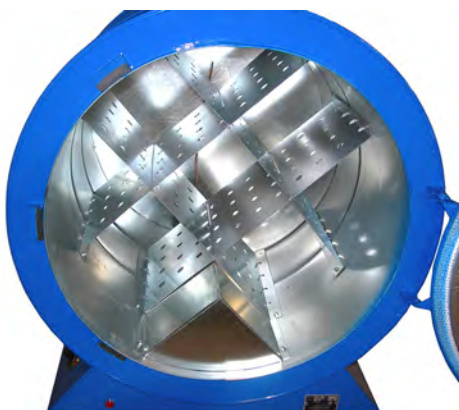
Part No. KK-200

	Specifications
Electrode Capacity	200 lbs. (90.7 kg) 18" (45.7 cm) rods
Volts	120V
Watts	500W
Thermostat	Factory Preset/Field Adjustable
Temperature	Preset 275°F (135°C) Range 100°-300°F (38°-149°C)
Insulation	1" (2.54 cm)
Interior Dimensions	12.5" (31.75 cm) x 12.5" (31.75 cm) x 18.25" (46.35 cm)
Net Weight	51 lbs. (23.3 kg)
Shipping Weight	67 lbs. (30.4 kg)
Shipping Dimensions	19.5" (49.53 cm) x 17.5" (44.45 cm) x 27" (68.58 cm)

Part No. KK-450

	Specifications
Electrode Capacity	450 lbs. (204.1 kg) 18" (45.7 cm) rods
Volts	120V / 240V
Watts	300W / 1200W
Thermostat	Dial Adjustable
Temperature	120V: 150°- 275°F (65°-135°C) 240V: 150°- 550°F (65°-288°C)
Insulation	2" (5.08 cm)
Interior Dimensions	19.5" (49.53 cm) x 20" (50.8 cm)
Net Weight	72 lbs. (32.6 kg)
Shipping Weight	88 lbs. (39.9 kg)
Shipping Dimensions	26" (66.04 cm) x 28" (71.12 cm) x 26" (66.04 cm)
Stack Kit	Available for stacking KK-450 ovens two high

KK-450



**KK-450
Inside**

Other Keen Ovens Available, Call Our Order Desk For Information



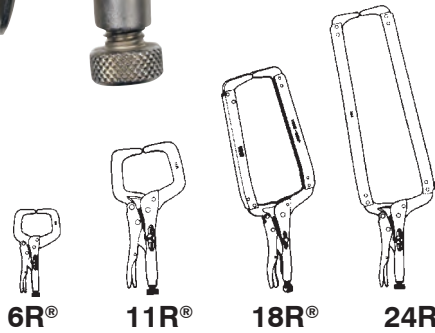


GENUINE VISE-GRIP TOOLS
MADE IN AMERICA

C-clamps with regular tips



Powerful locking mechanism guarantees no slippage.



	6R®	11R®	18R®	24R
Size	6" 150mm	11" 275mm	18" 455mm	24" 605mm
Weight Each	8.5 oz. .25 kg	1 lb, 10.7 oz. .76 kg	2 lb, 11.3 oz. 1.23 kg	3 lb, 7.1 oz. 1.57 kg
Jaw Adjustment	0-2 1/8" 0-53.9mm	0-4" 0-101.6mm	0-8" 0-203.2mm	0-12 1/2" 0-317.5mm
Throat Depth	1 1/2" 38.1mm	2 5/8" 66.7mm	9 1/2" 241.3mm	15 1/2" 393.7mm





GENUINE VISE-GRIP TOOLS
MADE IN AMERICA

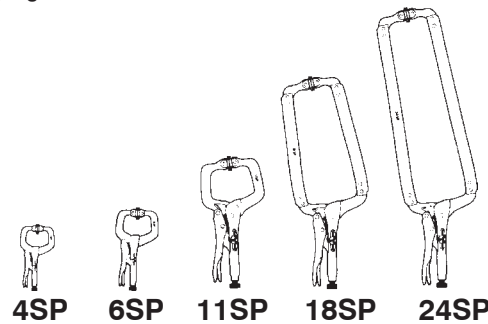


c-clamps with swivel pads



Engineered for balance, ease of handling; many functions can be performed with one hand.

Stays adjusted for repetitive clamping.



	4SP	6SP	11SP	18SP	24SP
Size	4" 100mm	6" 150mm	11" 275mm	18" 455mm	24" 605mm
Weight Each	5.4 oz. .16 kg	8.5 oz. .25 kg	1 lb, 10.7 oz. .76 kg	2 lb, 11.3 oz. 1.23 kg	3 lb, 7.1 oz. 1.57 kg
Jaw Adjustment	0-1 5/8" 0-41.2mm	0-2 1/8" 0-53.9mm	0-4" 0-101.6mm	0-8" 0-203.2mm	0-12 1/2" 0-317.5mm
Throat Depth	1 1/4" 31.7mm	1 1/2" 38.1mm	2 5/8" 66.7mm	9 1/2" 241.3mm	15 1/2" 393.7mm



GENUINE VISE-GRIP TOOLS
MADE IN AMERICA

Locking Chain Clamp



20R® Locking Chain Clamp
Holds and locks around any shape, any size. Adjusts quickly for ratchet action in either direction.



	20R®	20EXT EXTENSION CHAIN	20REP REPLACEMENT CHAIN
--	-------------	------------------------------------	--------------------------------------

SIZE	9" 225MM	18" 455MM	18" 455MM
WEIGHT EACH	1 LB, 11.8 OZ. .79 KG	8.8 OZ. .25 KG	9 OZ. .26 KG
EFFECTIVE CHAIN LENGTH	18" 455MM	18" 455MM	18" 455MM

Locking Sheet Metal Tool



8R® Locking Sheet Metal Tool
Locks to work with powerful grip. Makes all kinds of bending, forming, crimping jobs easier and faster.



8R®

SIZE	8" 200MM
WEIGHT EACH	1 LB, 1.5 OZ. .50 KG
JAW WIDTH	3 1/8" 77.8MM
THROAT DEPTH	1 3/4" 44.4MM



Curved Jaws with Wire Cutter

Wire cutter will handle anything up to 1/4" bolt. One bite cuts smaller wires; progressive bites cut through the big ones.



Each tool is heat-treated for maximum toughness and durability.

Controlled power means a simple hand squeeze can put one ton of pressure between the jaws.



GENUINE VISE-GRIP TOOLS
MADE IN AMERICA

Straight Jaws And Curved Jaws

Heavy-duty jaw grips work of all shapes.

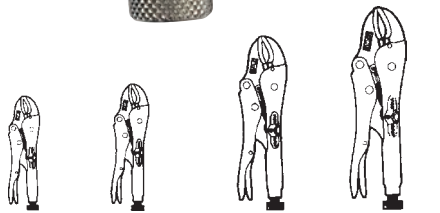
Hang card package allows tool to be tested.

Hang card package allows tool to be tested.

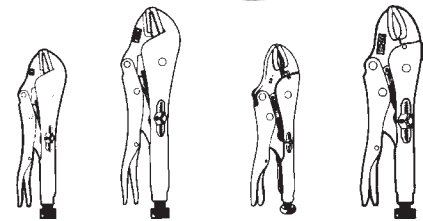


Only the finest high-grade alloy steels are used in VISE-GRIP tools.

Tool locks to the work, leaving both hands free. Powerful jaws and teeth hold on tight, won't slip.



4WR 5WR® 7WR® 10WR®



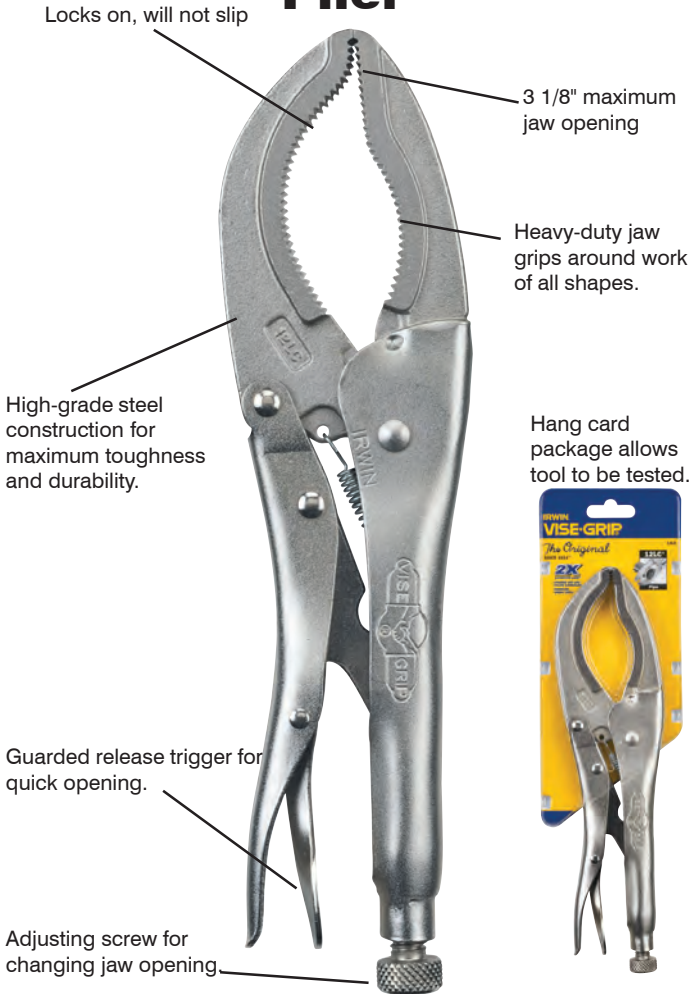
7R® 10R® 7CR® 10CR®

Size	4" 100mm	5" 125mm	7" 175mm	10" 250mm	Size	7" 175mm	10" 250mm	7" 175mm	10" 250mm
Weight Each	4 oz. .12 kg	6.3 oz. .18 kg	12.8 oz. .37 kg	1 lb, 3.6 oz. .56 kg	Weight Each	13.6 oz. .39 kg	1 lb, 4.6 oz. .59 kg	12.8 oz. .37 kg	1 lb, 3.2 oz. .54 kg
Jaw Thickness	7/32" 5.5mm	1/4" 6.4mm	5/16" 7.9mm	7/16" 11.1mm	Jaw Thickness	1/2" 12.5mm	5/8" 15.8mm	5/16" 7.9mm	7/16" 11.1mm
Jaw Adjustment	0-15/16" 0-23.8mm	0-1 1/4" 0-28.6mm	0-1 5/8" 0-41.2mm	0-1 7/8" 0-47.6mm	Jaw Adjustment	0-1 1/8" 0-28.5mm	0-1 5/8" 0-40.7mm	0-1 5/8" 0-40.7mm	0-1 7/8" 0-47.6mm



GENUINE VISE-GRIP TOOLS
MADE IN AMERICA

12LC Large Jaw locking Plier



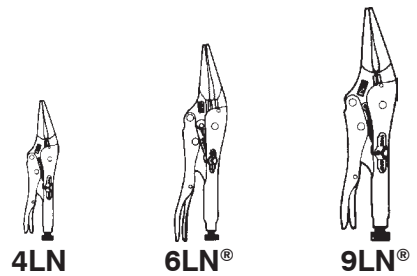
The latest addition to our line-up of Vise-Grip locking pliers has a big grip (up to 3 1/8"). The large jaws and clamping ability make this tool ideal for plumbers, mechanics, welders and others who work with large objects. Also, its convenient size makes it easier to use than bulkier tools, such as pipe wrenches.



Clamps tightly and easily on a variety of shapes for quick welding.

PART No.	WEIGHT EACH	JAW OPENING
12LC	1 LB, 7 OZ. .65 KG	0-3 1/8" 0-79MM

Long Nose With Wire Cutter



Size	4"	6"	9"	
	100mm	150mm	225mm	
Weight Each	4.2 oz. .12 kg	6.8 oz. .20 kg	13.9 oz. .40 kg	
Jaw Thickness	Tip	1/8" 3.1mm	5/32" 4.0mm	3/16" 4.7mm
	Base	1/4" 6.3mm	5/16" 7.9mm	13/32" 10.3mm
Jaw Adjustment	Tip	0-1 5/8" 0-41.2mm	0-2 1/4" 0-57.1mm	0-2 7/8" 0-73mm
	Base	0-11/16" 0-17.5mm	0-1 5/16" 0-33.3mm	0-1 5/16" 0-33.3mm



PELICAN LIGHTS

"THE WORLD'S MOST TECHNICALLY ADVANCED LIGHTING INSTRUMENTS"



MityLite™ 1900 Flashlight (includes batteries)

Unlike conventional flashlights that have a yellowish beam, the MityLite 1900 flashlight uses a hi-intensity Xenon lamp that produces a powerful, bright beam. Use this compact flashlight to cut through thick smoke, fog, and dust. It is submersible and comes with a twist-on shroud. The 1900 is ideal for any situation. Powered by 2 AAA alkaline cells.

Body Material: Xenoy Polymer Resin

Weight: 1.6 oz. COLOURS: Black, Yellow, Orange, Blue, White, Neon Green.

LENGTH: 4.09" DIAMETER:: 1 7/8"

PART NO.: 1900C REPLACEMENT LAMP: 1904



LIGHT SOURCE	Xenon
BATTERIES	2 AA Included
CHARGE TIME	-
VOLTAGE	3
LENGTH	4.09"
WEIGHT w/ BATTERIES	1.6 oz.
WEIGHT w/o BATTERIES	.75 oz.

	FL1 STANDARD	
LIGHT OUTPUT		11 Lumens
RUNTIME (hours/min)		1h 30m
BEAM DISTANCE (meters)		45m
PEAK BEAM INTENSITY (candela)		571cd
WATERPROOF & SUBMERSIBLE		IPX7



SabreLite™ 2000 Flashlight

This powerful flashlight was designed with one thing in mind: SAFETY. It carries a variety of approvals, allowing safe use in many different hazardous environments and conditions. The SabreLite is o-ring sealed with a twist-on shroud and comes with a polarity battery guard tray that safeguards against dangerous "outgassing" of hydrogen from an accidentally reversed cell. It is powered by 3 C alkaline cells, submersible, and has an ABS resin body which resists chemicals, corrosion, and extreme temperatures. Unlike ordinary flashlights that produce a yellow beam, the SabreLite's incredibly bright Xenon lamp produces a powerful collimated white beam. Pelican's SabreLite is the leader in quality and performance.

Body Material: LEXAN EXL Resin

Weight: 6.8 oz. (no batteries)

COLOURS: Black, Yellow, Orange

LENGTH: 4.09" DIAMETER:: 1 7/8"

PART NO.: 2000C REPLACEMENT LAMP: 2004



Underwriters Laboratories



Nemo™ 2000 Flashlight Specifications

	High	
LIGHT SOURCE	Xenon	
BATTERIES	3 C Alkaline (Not included)	
CHARGE TIME	N/A	
VOLTAGE	4.5	
LENGTH	7.79" (19.8 cm)	
WEIGHT w/ BATTERIES	12.8 oz. (0.36 kg)	
WEIGHT w/o BATTERIES	5.31 oz. (0.15 kg)	

	FL1 STANDARD	High
LIGHT OUTPUT		53 LUMENS
RUNTIME (hours/min)		5h
BEAM DISTANCE (meters)		158m
PEAK BEAM INTENSITY (candela)		6234cd
WATERPROOF & SUBMERSIBLE		100m





Rotating Magnetic Work Light

RT-2LT 24 LED Magnetic Work Light

- Sturdy aluminum housing with 24 high intensity LED Lights.
- Head rotates to adjust beam to needed angle.
- Strong magnetic base attaches to any metal surface in seconds.
- Bridges a work light with a high quality flashlight.
- Comes with three AAA batteries.
- Standard Packaging 6
- Weight 4lbs 3 oz.



Display Box
Included in
Standard Pack



RT-48LT 48 LED Magnetic Work Light

- 48 High Intensity LED Lights
- Sturdy Aluminum Housing
- Rotates 360°
- Strong magnetic base attaches to any ferrous metal.
- Rotating head pivots to direct light to needed angle
- Includes (3) AA Batteries
- Std. Pkg. 6
- Wt. 6.5 lbs



RT2-LTCH Rechargeable Magnetic Work Light

- 24 High Intensity LED Lights
- Sturdy Aluminum Red Housing
- Rotates 360°
- Strong Magnetic Base Attaches to any Ferrous Metal.
- Rotating Head pivots to Direct Light to Any Needed Angle.
- Includes a 110 Volt Charger
- Std. Pkg. 6
- Wt. 7.2 lbs

Magnetic Base Mirror



MODEL MX Magnetic Based WELDING AND INSPECTION MIRROR

Heavy duty with extra powerful magnetic base. Perfect for welding in awkward places. Mounts and adjusts in seconds to bring hidden areas into full view. Quick-change 2-1/8" x 3-1/2" replaceable mirror.



THUMB-ACTION QUICK RELEASE LEVER.



THREE STRONG MAGNETS HOLD BASE FIRM.



BALL JOINTS MOVE FREELY, HOLD TIGHT.





Inspection Mirrors FOR ALL ANGLE VIEWING

Original All-Angle Ball Joint Mirrors with brushed finish stainless steel mirror backs.

Fast, accurate visual inspection of hidden areas with an almost limitless number of positions. Double ball joint links swivel mirrors for viewing to 360°. Ullman's precision engineered links are manufactured from tempered spring steel to withstand the stresses of constant repositioning, move freely, hold desired position.

FEATURES:

- Replaceable copper backed clear-view mirrors.
- Telescoping and pocket models.
- Non-rotating inner hex rods on telescopic models prevent mirrors from swinging out of alignment when in use.
- Insulating vinyl grip on all models.

K-2 Rectangular Telescoping Mirror 2-1/8" x 3-1/2" Overall length 11-1/4" Extends to 15-1/4"	S-2 Circular Telescoping Mirror 3-1/4" Diameter Overall length 11" Extends to 15"	C-2 Circular Telescoping Mirror 2-1/4" Diameter Overall length 10" Extends to 14"	E-2 Circular Pocket Mirror 1-1/4" diameter Overall length 8"	B-2 Oval Pocket Mirror 1" x 2" Oval Overall length 8-1/2"	A-2 Circular Pocket Mirror 7/8" diameter Overall length 7-1/2"	HTS-2LT Circular LED Lighted Pocket Mirror 3-3/8" diameter Overall length 7-1/2"
--	---	---	---	--	---	---



A-2T Circular Telescoping Mirror 7/8" Diameter Length 4-1/2" Extends to 18"	E-2T Circular Telescoping Mirror 1-1/4" Diameter Length 4-1/2" Extends to 18-1/2"	B-2T Oval Telescoping Mirror 1" x 2" Oval Length 4-1/2" Extends to 19-1/2"	HTE-2 Circular Telescoping Mirror 1-1/4" Diameter Length 6-1/2" Extends to 35"	HTC-2 Circular Telescoping Mirror 2-1/4" Diameter Length 6-1/2" Extends to 36-3/8"	HTS-2 Circular Telescoping Mirror 3-1/4" Diameter Length 6-1/2" Extends to 29-1/2"	HTA-2T Circular Telescoping Mirror 7/8" Diameter Length 5-5/16" Extends to 27-1/8"	HTE-2T Circular Telescoping Mirror 1-1/4" Diameter Length 5-5/16" Extends to 27-1/2"	HTB-2T Oval Telescoping Mirror 1" x 2" Oval Length 5-5/16" Extends to 28-1/4"
---	---	--	--	--	--	--	--	---



Other mirror sizes and styles available. Replacement mirror glass also available for all styles.





POWER CAT

WELDING FUMES ?

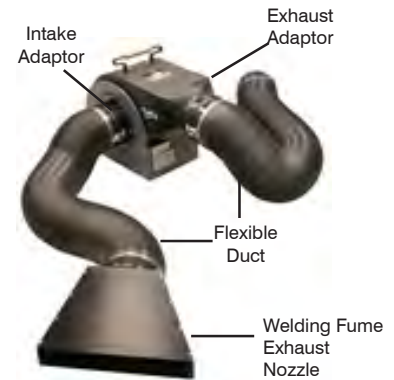
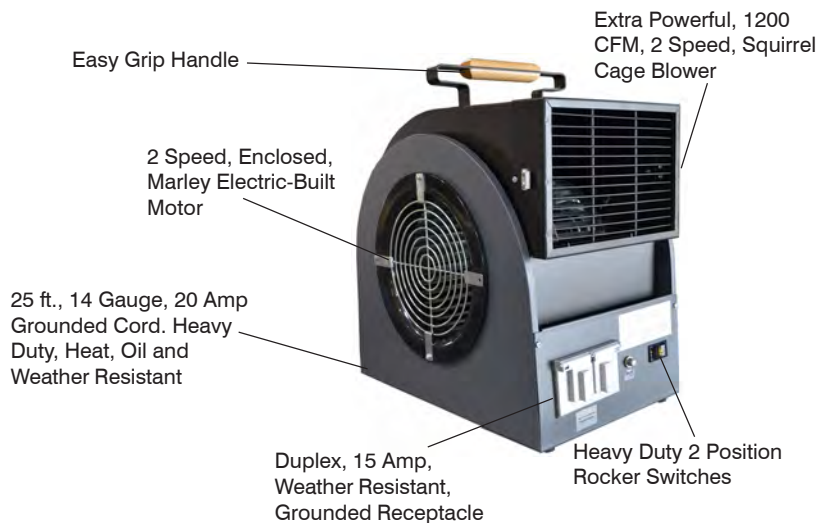
**The Power Cat Eliminates the Problem!
At a Fraction of Conventional Cost!**

Portable unit with high power output—The Power Cat is several units in one: a high velocity blower that can be used for ventilating and cooling. Each is fitted with a duplex electrical receptacle and features a 25 ft., heavy-duty grounded extension cord.

The Power Cat is the essential tool for a variety of tasks. Use it to cool or ventilate a workshop, dry a damp surface, remove harmful fumes from a freshly-painted room, brighten work space underneath a car's hood, or remove irritating smoke from any area. The Power Cat becomes your most trusted working partner. Wherever there's an electrical power outlet, that's where you'll appreciate The Power Cat. With rugged steel construction, The Power Cat is built to last.



THE SUPER CAT



Model 1200XL Super Cat

MODEL 1200XL

Super Cat Specifications

Motor	120 Volts, 60 Hz, High Speed - 4.5 Amps, Low Speed - 2.9 Amps
Blower	High Speed - 1120 CFM, Low Speed - 877 CFM
Receptacle	Duplex, 15 Amp, Grounded, Weather Resistant
Cord	Heavy Duty, 25 ft., 14 Gauge, 20 Amp, Grounded, Heat, Oil and Weather Resistant
Weight	44 lbs

Model 1200IA - Intake Adaptor

Quick-mount fitting easily attaches duct to unit.

Model 1200FD - Flexible Duct

10' Flexible duct to be used with either 1200EA or 1200IA

Model 1200DC - Duct Coupling

Easily attachable connector for additional 1200FD ducts.

Model 1200FE - Welding Fume Exhaust Nozzle

Easily clamps to 1200FD for efficient extraction of welding fumes.

Model 1200EA - Exhaust Adaptor

Easily attaches to connect 1200FD to unit.



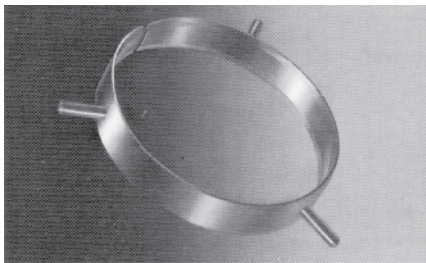
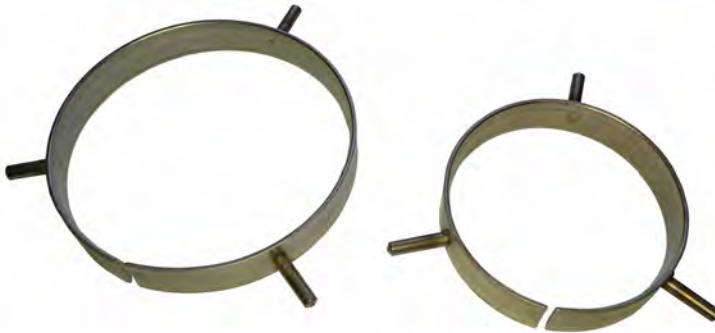
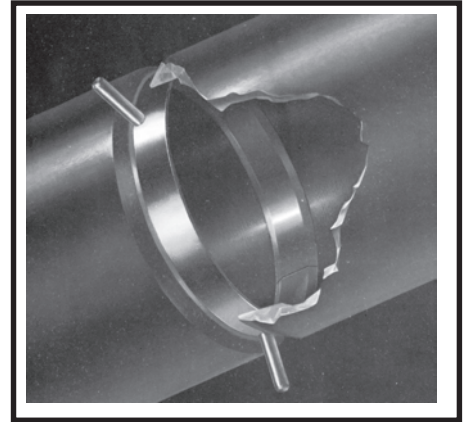


BACKING RINGS™

SIMPLIFY PIPE WELDING AND REDUCE COSTS!

Design Originators Since 1943

Robvon Commercial Backing Rings are designed for quick, easy alignment of pipe or tubing and assure precise close tolerance fit-up. They allow complete penetration and fusion of the weld and radiograph perfect certified welds. The patented NUBS automatically set the weld gap for the root-pass. Internal bevels and flat inner lands assure non-restricted fluid flow. Robvon Backing Rings are available in Carbon Steel, Chrome Alloys, Stainless Steel, Aluminum, Nickel, Cupro Nickel, and other exotic materials.



TYPE CCC

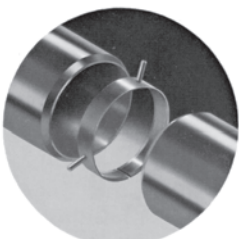
ROBVON TYPE "CCC-NUB" BACKING RINGS are designed for quick easy alignment of pipe where the variation in inside diameters is relatively great. Chamfered NUBS allow close tolerance fit-up and CLEAN STRIKE OFF. The ROBVON NUB diameter automatically sets the welding gap for root pass as the width of the NUB conforms to the diameter of welding rod or electrode. ROBVON rings are bevelled to assure non-restricted fluid flow.



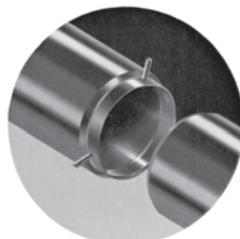
TYPE CC

ROBVON TYPE "CC-NUB" BACKING RINGS are designed to allow quick easy alignment of pipe where the inside diameters are slightly out-of-round. The welder has the choice of STRIKING OFF THE NUBS or leaving them intact. NUBS melt with metal to give complete penetration and fusion. ROBVON rings eliminate the necessity of tack welding and radiograph a perfect certified weld. Type CC-NUB is recommended for automatic welders.

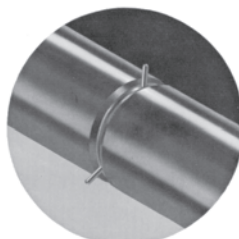
SIMPLIFIED FIT-UP PROCEDURE USING ROBVON BACKING RINGS



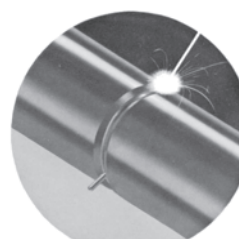
STEP 1



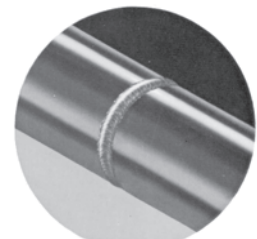
STEP 2



STEP 3



STEP 4



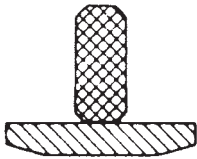
STEP 5

GENERAL BACKING RING SPECIFICATIONS AND PRODUCT DATA

BACKING RINGS QUALIFIED FOR NUCLEAR WORK.
MANUFACTURED UNDER NCA-3800 PROGRAM.

ALL RINGS MARKED ON INSIDE DIAMETER, SIZE,
SCH, HEAT NO., MAT'L SPEC., ROB™

RING TYPES



TYPE CCC - designed for quick easy joint alignment where the variation in inside diameters is relatively great. Chamfered NUBS allow close tolerance fit-up and **Clean Strike Off**.



TYPE CC - designed primarily for automatic welding and to allow quick easy joint alignment where the inside diameters are slightly out-of-round. NUBS can be chipped off or left intact to be melted into first root pass.

Material Specifications**:

Commercial Split Types - CCC, CC

- Carbon Steel ASTM A-109 Temper 4
- Chrome Moly ASTM A-182/ASME SA-182
- Stainless ASTM A-240/ASME SA-240
- Aluminum ASTM A-240/ASME SB-221

- 5083 and 5086 Aluminum cross-section dimensions are: 1/8" x 5/8" and 1/8" x 1"

**** ALL OTHER WELDABLE MATERIALS AVAILABLE UPON INQUIRY; EG. SPECIAL GRADES OF CHROME MOLY, STAINLESS STEEL, NICKEL, AND CUPRO NICKEL, ETC.**

*RINGS MANUFACTURED TO ALL PIPE SCHEDULES, TUBING WALLS, AND METRIC SIZES

Nom. Pipe Size or Tube O.D.	Pipe Schedule or Wall Thickness	No. of Root Opening Spacers Type CC & CCC	Dia. of NUBS	Ring Thickness	Ring Width	Dia. of Land	Ring Weight LBS.
1"		3	1/8"	3/32"	5/8"	3/8"	.052
1 1/4"		3	1/8"	3/32"	5/8"	3/8"	.069
1 1/2"		3	1/8"	3/32"	5/8"	3/8"	.078
2"	A	3	3/16"	3/32"	5/8"	3/8"	.109
2 1/2"	D	3	3/16"	3/32"	5/8"	3/8"	.129
3"	V	3	3/16"	3/32"	5/8"	3/8"	.157
3 1/2"	I	3	3/16"	3/32"	5/8"	3/8"	.180
4"	S	3	3/16"	3/32"	5/8"	3/8"	.203
5"	E	4	3/16"	1/8"	1"	5/8"	.520
6"		4	3/16"	1/8"	1"	5/8"	.625
8"	W	4	3/16"	1/8"	1"	5/8"	.828
10"	H	4	3/16"	1/8"	1"	5/8"	1.068
12"	E	5	3/16"	1/8"	1"	5/8"	1.269
14"	N	5	3/16"	1/8"	1"	5/8"	1.403
16"		5	3/16"	1/8"	1"	5/8"	1.616
18"	O	6	3/16"	1/8"	1"	5/8"	1.830
20"	R	6	3/16"	1/8"	1"	5/8"	2.043
22"	D	6	3/16"	1/8"	1"	5/8"	2.257
24"	E	6	3/16"	1/8"	1"	5/8"	2.471
26"	R	6	3/16"	1/8"	1"	5/8"	2.684
28"	I	6	3/16"	1/8"	1"	5/8"	2.898
30"	N	6	3/16"	1/8"	1"	5/8"	3.112
32"	G	6	3/16"	1/8"	1"	5/8"	3.325
34"		6	3/16"	1/8"	1"	5/8"	3.539
36"		6	3/16"	1/8"	1"	5/8"	3.752
38" & LARGER AVAILABLE ON REQUEST							

ORDERING INFORMATION:

SPECIFY

- QUANTITY
- NPS & SCHEDULE or TUBING O.D. & WALL
- BACKING RING TYPE - CC, or CCC
- MATERIAL & GRADE

ALUMINUM I-BEAM LEVEL



- Advanced frame design assures accuracy
- Top read window
- Beveled endcaps protect vials from shock

Part No.	Description
580-18	18" Aluminum Level
580-24	24" Aluminum Level
580-36	36" Aluminum Level

ALUMINUM MAGNETIC I-BEAM LEVEL



- Advanced frame design assures accuracy
- Top read window
- Beveled endcaps protect vials from shock
- 581 has magnetic edge that holds to ferrous surfaces

Part No.	Description
581-18	18" Magnetic Aluminum Level
581-24	24" Magnetic Aluminum Level
581-36	36" Magnetic Aluminum Level

9" HEAVY DUTY MAGNETIC TORPEDO LEVEL



10" RARE EARTH MAGNETIC TORPEDO LEVEL



- True Blue® vials are accurate to within 0.0005" per inch in all 10 level and plumb working positions
- Heavy-duty extruded aluminum frame
- Vials read plumb, level and 45°.
- Strong-holding magnetic edge
- V-grooved working edge fits on pipe or conduit

Part No.	Description
EM81.9	9" Magnetic Torpedo Level

PRO
LIFETIME WARRANTY

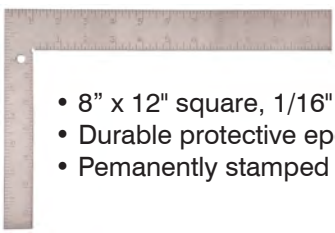


- True Blue® vials are accurate to within 0.0005" per inch in all 10 level and plumb working positions
- Heavy-duty aluminum frame with top read window
- Powerful rare earth magnets for 10 lbs. of holding power
- V-grooved working edge fits on pipe or conduit

Part No.	Description
EM81.10	10" Rare Earth Magnetic Torpedo Level

PRO
LIFETIME WARRANTY

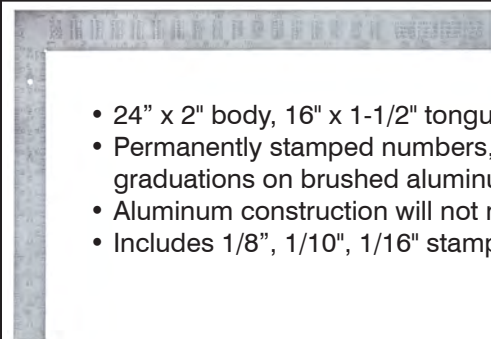
8" X 12" STEEL CARPENTER SQUARE



- 8" x 12" square, 1/16" thick
- Durable protective epoxy finish to prevent rust
- Permanently stamped numbers on solid steel

Part No.	Description
100BLK	8" x 12" Steel Square

16" X 24" ALUMINUM FRAMING SQUARE



- 24" x 2" body, 16" x 1-1/2" tongue, 1/8" thick
- Permanently stamped numbers, rafter tables, graduations on brushed aluminum finish
- Aluminum construction will not rust or corrode
- Includes 1/8", 1/10", 1/16" stamped graduation

Part No.	Description
1140	16" x 24" Aluminum Square

16" HEAVY-DUTY PROFESSIONAL COMBINATION SQUARE



- Precision machined head and true blue vials ensure squareness to .001
- 16" etched stainless steel blade with inch graduations
- Heavy-duty machined square head
- Self-aligning drawbolt, hardened scribe
- True Blue® vial for accuracy

Part No.	Description
E280	16" Heavy-Duty Combo Square

PRO
LIFETIME WARRANTY

12" HEAVY-DUTY PROFESSIONAL COMBINATION SQUARE



- Precision machined head and true blue vials ensure squareness to .001
- 12" etched stainless steel blade with inch graduations
- Heavy-duty machined square head
- Self-aligning drawbolt, hardened scribe
- True Blue® vial for accuracy

Part No.	Description
E250	12" Heavy-Duty Combo Square

PRO
LIFETIME WARRANTY

6" POCKET COMBINATION SQUARE



- Precision machined head and true blue vials ensure squareness to .001
- 6" etched stainless steel blade with inch graduations
- Machined square head
- Self-aligning drawbolt, hardened scribe
- True Blue® vial for accuracy

Part No.	Description
E255	6" Pocket Combo Square

PRO
LIFETIME WARRANTY

12" COMBINATION SQUARE



- 12" satin steel blade with inch graduations
- Machined square head
- Self-aligning drawbolt, hardened scribe

Part No.	Description
230	12" Combo Square

MAGNETIC POLYCAST® PROTRACTOR



- Magnetic base and back
- Easy reading dial with adjustable angle pointer

Part No.	Description
36	Magnetic Protractor

SMALL ANGLE MAGNETIC PROTRACTOR



- Magnetic base
- Full view acrylic vial protractor dial is graduated in 5° increments
- Durable Polycast® construction

Part No.	Description
361	Small Angle Protractor

FLAT SOAPSTONE HOLDERS

SH-400-1 Wypo's Indexable Soapstone Holder

Spring actuator indexes soapstone insert back and forth. A simple press of the thumb is all that's required. Includes a handy pocket clip. Uses 5" x 1/2" x 3/16" soapstone. Includes one piece of soapstone inserted in holder.

SSF500 A Long Time Favourite

This model has an aluminum knurled screw and nut to hold the soapstone in place. Includes a handy pocket clip. Uses 5" x 1/2" x 3/16" soapstone. Includes one piece of soapstone inserted in holder.

MW-SSH Maxweld Flat Holder with Soapstone

Economical flat holder accepts standard size soapstone. Indexible to advance the soapstone. Handy pocket clip included. Includes one piece of soapstone inserted in holder.



SH-400-1

SSF500

MW-SSH

ROUND SOAPSTONE HOLDERS

R-800-1 Wypo's Gripper Soapstone Holder

A turn of the cap releases the soapstone, a turn of the cap locks the soapstone. Features a brass and chrome finish and handy pocket clip. Uses 5" x 1/4" round soapstone. Includes one piece of soapstone inserted in holder.

SH-402 Aladdin's Non Slip Soapstone Holder

Easily adjusted. Holder has a plastic case and a handy pocket clip. Uses 5" x 1/4" round soapstone. Includes one piece of soapstone inserted in holder.

SSR200 Our Finest Soapstone Holder

Solid aluminum construction with built in knurled chuck. Quickly positions and firmly holds soapstone. Uses 5" x 1/4" round soapstone. Includes one piece of soapstone inserted in holder.

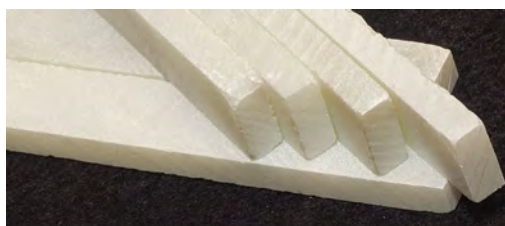


R-800-1

SH-402

SSR200

SOAPSTONE



Part No.	Description
1041	5" x 1/2" x 3/16" No. 1 Select Flat

Part No.	Description
1042	5" x 1/4" Diameter No. 1 Select Round

TIP DRILL KIT

Tough lightweight aluminum body. High quality steel bits for boring, sizing or cleaning small openings. Models with 6 or 12 wire gauge or 12 metric sizes. Jumbo model for larger sizes.



DK100 Contains 12 High Speed Steel Drill Bits
52-74 in even numbers

Index

1st Zinc	188	Dent Puller	181
3-1 Rod	170	Dinse Connectors	97, 100, 112-113
Acetylene Hoses	8	Dinse Tig Connectors	112
Acid Brushes	189	Drill Kit	292
Air Acetylene Torches	5-8	Dual Case	180
Air Filters	104	Duro Holders	89
Air Propane Torches	9-13	Electrode Holders	1, 81, 83, 85-90
Airco Style Tig Torches	137-142	Electropolisher	190-191
Alerco Style Ground Clamps	1	Faceshields	229-230, 237, 241
Alumicut Cutting Fluid	220	Feltip Paint Markers	212, 217
Aluminum Brazing Rods	170-171	Fiberglass Cloth Blankets	244
Aluminum Cylinders	38	Fibre-Metal Style Connectors	1, 227
Aluminum Flux	176	Filler Metals	180
Aluminum Solder	173	Fillet Weld Gauge	2, 227, 258, 264, 266, 269
Anti Heat Compound	10, 184	Fitter Welder Protractor	208
Anti-Spatter	185-187	Flange Aligner	194, 202-203
Aprons	222	Flash Arrestors	39
Arc Gouging Carbons/Torches	101	Flashlights	284-285
Artline Paint Markers	217	Flow Tube Assembly	3
Auto Darkening Helmets	238	Flowmeters	69-72
Automatic Weld Size Gauge	2, 262	Flux	175-177
Backing Rings	288-289	Fume Exhaust Fans	287
Balloon Regulators	73-74	Galvanizer Paint Marker	213
Bench Ovens	277	Galvanizing Bar	172
Beveling Machine	253	Galvanizing Paint	188
Bib	243	Gap-A-Let Rings	274-276
Bloxiide	184	Gasavers	44-45
Brazing Rods	170-171	Glass Cover Plates	237
Bridgecam Gauge	2, 259-260	Gloves	221
Brite Zinc	188	Gouging Carbons/Torches	101
Brushes	3, 189	Grinders - Tungsten	145-150
Burning Bars	75-80	Grippers	250
Cable	102-103	Ground Clamps	1, 84, 91-96
Cable Connectors	1, 82, 85-86, 227	Hand Cutting Torches	55-56
Cable Covers	143-144	Hand Pad/Shield	221
Cable Lugs	85, 98-99	Hard Hats	231-236
Canisters	179	Headgear	226, 240
Cape Sleeves	222	Heat Barrier	10
Carpenter Squares	290	Heating Tips	29, 59-60
Centering Head Tool	196, 204	Heliweld Tig Torches	137-142
Chain Clamp	281	Helmets	223-226, 238-240
Chipping Hammer	3, 254-255	Hi-Lo Welding Gauge	2, 256-257
Chuck	247	Holders - Soapstone	3, 292
Circle Burners	42	Hose Connectors - Tig	112
Circle Ellipse Projector	203	Hotspotter	39
Circle Wiz	195	i-Head Tig Torches	118-133
CO2 Heaters	72, 107	Inspection Mirrors	285-286
Combination Squares	291	Inspector Kits	273
Contactors	108	Jackets	222
Contour Markers	200-210	Jewellers Torch	43
Contour Worker Kit	210	Knee Pads	243
Copper Ferrule	2	Levels	193, 206, 207, 290-291
Cover Plates/Lens	237	Lighters	3, 34-35
Cutting Attachments	53-54	Locking Pliers	279-283
Cutting Fluid	219-220	Low Chloride Marker	216
Cutting Guide	195-199, 209	Lube-Matic Pads	186
Cutting Machine	253	Lugs	85, 98-99
Cutting Tips	18-27	Lumber Crayon	215
Cutting Torches	52-56	Machine - Cutting	253
Cylinder Brackets	36	Machine Cutting Torches	57
Cylinder Stand	8, 10	Machine Plugs	97
Cylinder Wrenches	42	Magnetic Ground Clamp	84, 94
Cylinders	38	Magnetic Torch Guide	197, 209

Index

Magnifier Glasses	242	Socket Weld Gauge	268
Magnifier Plates	237	Soldering Flux	175
Magsense ADF	242	Solders	173-174, 178
Master Marker	188	Solid Paint Marker	214, 218
Metal Marker	211	Spark Lighters	3, 34-35
Midget Torch	43	Speedway Tig Torches	134-136
Mig Guns - Mini	107	Speedy Loop	227
Mig Replacement Parts	4	Splicers	98-99
Mini Mig Gun	107	Spot Gun - Tig	166
Mirrors	285-286	Spot Welders	181-182
Mistic Metal Mover	219	Squares	290-291
Multi-Trammel Heads	205	Stainless Steel Cleaner	190-190
Nozzle Cleaner Tool	3, 185	Stud Connectors	100
Nozzle Dip	3, 185	Sweat Bands	221, 226, 229
Nozzle-Kleen	185	Sweatso Pad Sweatband	221
O-Clamps	40	Swedg-On Tool	99
Ovens	277	Taper Gauges	271
Paint Markers	211-218	Temperature Indicators	183
Panel Receptacle	100	Tempilaq	184
Pencil - Welder	215, 218	Terminal Connector	98
Pincers	40	Tig Adapters	112
Pipe Backing Rings	288-289	Tig Spot Gun	166
Pipe Flange Aligner	194, 202-203	Tig Torches & Accessories	114-142, 154-165
Pipe Pit Gauge	270	Tip Cleaners	3, 33
Pipe Pro Cutting Guide	199	Tip Drill	292
Pipe Wrap	193, 208	Tip Nuts	2
Pipemate	251	Torch Handles	51-52
Piranah Grinders	147-150	Torch Standoff	198
Pit Depth Gauge	267	Torpedo Levels	290
Plasma Cutting Guide	105	Triple X Grip	83
Plasma Filters	104	T-Tape	43
Plastic Cover Plates	237	Tungsten Electrodes	151-154
Pocket Pro Level	193	Tungsten Grinders	145-150
Positioners	245-250	Turning Roll	251-252
Power Output Terminal	100	Twin Hose	37
Pressure Gauges	31	Twister	90
Pro-Mag Level	207	Universal Level	206
Propane Furnace	14	Versi-Mag Holder	204
Propane Hose	15	Vise Grip Tools	279-283
Propane Regulators	15	V-Wac Gauge	261
Protractor	208, 291	Water Coolers	167-169
Pumper Paint Markers	217	Weedburner	39
Quick Connects	39	Weld Positioner	245-250
Quick-Lok	227	Welder Bib	243
Radius Markers	193, 205	Welder Gloves	221
Receptacles	100	Welder Jackets	222
Reflective Hand Shield	221	Welding & Cutting Kits	46-50
Regulators	61-68	Welding Blanket	244
Replacement Flints	3, 34-35	Welding Cable	102-103
Replacement Gauges	31	Welding Gauges	2, 256-273
Resistance Welders	181-182	Welding Helmets	223-226, 238-240
Rheostats	111	Welding Hose	37
Rod Cases	179, 180	Welding Plates Lens	237
Rod Guard Cannisters	179	Welding Tips	19, 22, 25, 28, 58
Rod Ovens	277	Weld-Kleen 350	187
Rotary Ground Clamps	84, 94-96	Whip Cable	2
Sal Ammoniac Bar	172	Whip Cable Connector	97
Scratch Brush	3, 189	Windows	229, 237, 241
Shaded Welding Plates/Lens	237	Wire Kleener Pads	186
Silver Solder	174	Wire Lube Pads	186
Silver Welder Pencil	215, 218	Wizard Wraps	193
Sleeves	222	Wrap - Pipe	193, 208
Slice Torch	78-80	Wrenches	42
Soapstone & Holders	3, 292	WTPS Gauge	263



Lenco Welding Accessories Limited

P.O. Box 1027

Windsor, Ontario CANADA

N9A 6P4

1-800-265-5678

Sales@LencoCanada.com

www.LencoCanada.com

Maxweld
LENCO