

WELDDQUIP



LET'S WELD

AMERICAN

AW



SERVICE

QUALITY

SOLUTIONS



What You Can Expect From **AMERICAN WELDQUIP**

Small Company Attention, Large Company Capabilities

We Do It Better Than Anyone Else!!

At **AMERICAN WELDQUIP** we bring together engineering, manufacturing and sales to help excel in our customer service efforts. Our tag line of SERVICE, QUALITY, and SOLUTIONS means something to every one of our employees.

From quick delivery, even on specials, to assessing our customers' requirements and providing solutions to unique issues, we are committed to be there for you.

The **AMERICAN WELDQUIP** Benefits

- ☑ Customer Service Driven Company Philosophy.
- ☑ The Fastest Delivery in the Industry. Our Design Flexibility Provides Quick Delivery Even On Special Products. Standard Product Ships Within 24 hours and Specials Within 5 days.
- ☑ Innovative & Rugged Equipment Designs To Reduce Maintenance and Total Cost of Ownership.
- ☑ We Use Only The Highest Quality Materials and Are Manufactured On State of The Art Automated CNC Equipment.
- ☑ Special Custom Equipment Designs Manufactured to Exact Customer Specifications.
- ☑ Strict Quality Control Standards Ensure The Most Reliable, High Performance Products.
- ☑ Knowledgeable Engineering and Technical Support Staff.
- ☑ Application/Technical Experienced Outside District Sales Managers.
- ☑ Skilled and Dedicated Manufacturing Team Members.
- ☑ All Products Meet RoHS Compliance. Semi-Automatic Torches Are CE Compliant.
- ☑ Engineered and Manufactured in our Sharon Center, Ohio Facility.



AMERICAN WELDQUIP

ABOUT US

Since 1987, **American Weldquip** Inc. has been providing superior customer service and a uniquely designed line of high-quality MIG welding torches and consumables to some of the world's most discriminating welding facilities.

Today, as always, **American Weldquip** remains flexible to the needs and requests of our customers. We are dedicated to working together with our distributors and end-users partners so that we all remain competitive.

At **American Weldquip** we realize your MIG torch investment and consumable usage is one of the major costs in your welding operation. We understand your concerns and have engineered innovative designs to help reduce your total cost of ownership. Through rugged torches, designed to stand up to the roughest welding environments, to heat dissipation management for increased consumable life, we strive to provide solutions to MIG gun related issues better than anyone in the industry. Experience the **Weldquip** Advantage!

OUR CAPABILITIES

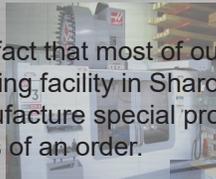
ENGINEERING and DEVELOPMENT

Working with sales and the customer our engineering team can design and provide solutions for custom torch configurations to meet your specific requirements. **American Weldquip** utilizes state of the art 3D development software (SolidWorks) and equipment to ensure the utmost in product design and technology. Our commitment to continuous product improvement guarantees our customers are getting the most innovative, durable and high quality product possible.

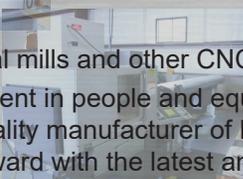


MANUFACTURING

We take great pride in the fact that most of our products are manufactured in-house at our state-of-the-art manufacturing facility in Sharon Center, Ohio. Our flexibility allows us to design, engineer and manufacture special product with a fast turnaround time. Most special products ship within 3 days of an order.



From precision CNC Swiss lathes, vertical mills and other CNC multi-spindle turning centers, **American Weldquip** has made a huge investment in people and equipment. Our commitment is to preserving our reputation as a high quality manufacturer of MIG welding torches and components. We are always moving forward with the latest and the most advanced manufacturing technologies so that we can fully commit to providing the high quality standards our customers expect.



QUALITY ASSURANCE



Everyone at American Weldquip is responsible for quality. Our Quality Manual is our bible and is monitored 100%, every step of the way. With control of the manufacturing process, from each CNC machined part and consumables, to the final torch production, until it is shipped out the door insures that our customers have a trouble-free product.

Our commitment to manufacture as much as possible in-house provides us more control over the manufacturing process and stricter Quality Control measures to insure a trouble-free product.

Our reputation has been built on our engineering capability and our commitment to quality.

COMPLIANCE

All **American Weldquip** products meet the RoHS (Restriction of Hazardous Substances), an environmental law which addresses the European Union directive 2002/95/EC. Semi-Automatic torches meet the CE compliance.

The **AMERICAN WELDQUIP** Product Advantage

Experience the **WELDQUIP ADVANTAGE** to help reduce downtime, maximize production, lower maintenance costs and improve your bottom line.



LONG LASTING CONSUMABLE DESIGNS

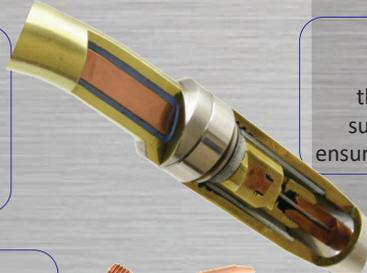
The heavy-duty thread-on nozzle system provides added durability, cooler operation and long life. Genuine American Weldquip contact tips and diffusers work together to provide extended life and superior electrical conductivity. Common consumables between our torch lineup reduces inventory requirements.

THREAD-ON NOZZLE

The heavy walled, nickel plated nozzles thread directly on the gooseneck to provide cooler operation and a longer lasting nozzle system. The coarse thread, fixed position design feature ensures a constant tip to nozzles relationship and consistent welding parameters.

GOOSENECK HEAT DISSIPATION MANAGEMENT SYSTEM

Acting as a radiator, heat is effectively pulled away from the front-end parts. The "HEAT SINK" gooseneck design, coupled with the thread-on nozzle system, quickly pulls and dissipates heat from the front-end allowing you to experience exceptional long consumable life.



SUPERIOR GOOSENECK DESIGN

Heavy duty, durable gooseneck with thick-walled brass outer tube provides superior strength in rough environments ensuring less downtime and maintenance costs.

CONTACT TIPS

Heavy duty, coarse threaded contact tips are designed to provide longer life compared to other manufacturers and offer a superior electrical connection to the tip holder/diffuser. Standard, Heavy-Duty and our own HRT (Heat Resistant Technology) Super Extended life contact tips are available.



COMMON CONSUMABLE PLATFORM ACROSS ALL AMERICAN WELDQUIP TORCHES

Most American Weldquip torches are designed to utilize the same consumables to help reduce your inventory requirements.

LONG LIFE UNICABLE

Manufactured to American Weldquip's strict specifications, all our coaxial power unicables offer a lightweight, cut and burn resistant assembly. All cables have two additional trigger leads for easy field repair should one lead get damaged. The heavy-duty factory crimped cable end fittings insure a secure, positive electrical connection producing lower resistance, less heat generation and added durability. For optimum performance all power cables now utilize a HYTREL® core tube for cut, bend and kink resistance and to insure the best feedability characteristics in all applications.

SPRING STRAIN SUPPORT

Heavy duty but flexible spring cable supports at both the front handle and wire feeder end of the cable assembly help prevent feedability problems in extreme bending applications and relieve cable strain which results in increased power cable life.



BETTER THAN ANYONE

AMERICAN WELDQUIP CUSTOM SOLUTIONS

American Weldquip is capable of providing you custom engineered torches, mounts etc. to meet your specific requirements. Custom-designed torches can normally be completed in a matter of days!



Engineered and manufactured in Sharon Center Ohio.

Since 1987 we have been engineering and manufacturing rugged and dependable semi-automatic, automatic, robotic torches, peripherals and consumables to help our customers lower maintenance costs, increase consumable life and ensure a lower total cost of ownership.

AMERICAN WELDQUIP AIR-COOLED SEMI-AUTOMATIC WELDING TORCHES

260A, 300A, 350A AND 400 AMP CA Series 400A AND 500AMP "COOL-GRIP" Series

Air-Cooled
SEMI-AUTOMATIC

The CA/PG and "Cool-Grip" Series American Weldquip semi-automatic torches offer unsurpassed performance not found in competitive brands. High quality materials and workmanship go into each American Weldquip torch. Designed and engineered for fewer repairs, lower maintenance costs and increased consumable life insure a lower cost of ownership. Don't be fooled by the imitators! Demand genuine American Weldquip products to insure you get the best Service, Quality, Solutions and performance you expect.

The **NEW** "Cool-Grip" Semi-Automatic MIG welding torch has been designed for cooler running operation. The Cool-Grip has been engineered to increase welder comfort levels by providing relief from high temperatures in the handle when welding in higher heat applications. The design allows for cooler operation by inhibiting the transfer of heat that is generated at the welding arc and pulled back into the handle area by way of the gooseneck.

DURABLE TRIGGER DESIGN

TIME TESTED TRIGGER - LIFETIME WARRANTY

Our trigger assembly incorporates a light touch and proven reliable design. The simplicity of the design of this critical component ensures its functional reliability. That is why we decided to offer a lifetime warranty on the switch contact components.



DUAL/MULTI-SCHEDULE/ MILLER CONTINUUM OPTION

The Dual Schedule allows the operator to change between two weld schedules. The Multi-Schedule is a momentary switch and can be used to increase or decrease through numerous preset weld schedules. Both options can be used to change schedules "on the fly".



ERGONOMIC HANDLE DESIGN LIFETIME WARRANTY

Manufactured with durable materials for long life even in the roughest welding environments. Ergonomic and balanced design for increased welder comfort.

EXTENDED TRIGGER OPTION

For increased personal welder comfort. Manufactured from heavy-duty aluminum increases durability and resists breaking as compared to plastic extended triggers.

OTHER AVAILABLE OPTIONS

- Pistol Grip
- Gooseneck Thermal Spring
- Torch Hanger
- Heat Shield
- FLEX-Neck
- HRT - Heat Resistant Technology Contact Tips
- Special Configuration Available

REAR FEEDER ADAPTOR/HANDLE

Options to fit any wire feeder.
New rear adaptor with quick change control cable.

- ✓ "HEAT SINK" Gooseneck Heat Dissipation Management Technology.
- ✓ Extremely Durable, Heavy-Walled Gooseneck Design.
- ✓ Long Lasting, Cool Running Consumable Design.
- ✓ Heavy-Duty Thread-On Nozzle System.
- ✓ Common Consumable Platform Across All American Weldquip Torches.
- ✓ Durable Power Cable for Superior Wear Resistance.
- ✓ Spring Strain Relief Helps Eliminate Feeding Issues.
- ✓ Special Designs, Custom Configurations Available.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of The Quality You Can Trust.



AMERICAN WELDQUIP WATER-COOLED SEMI-AUTOMATIC WELDING TORCHES

600 AMP CG Series with "FLOW-GUARD"

The "BEST IN CLASS" Just Got Better.

Water-Cooled
SEMI-AUTOMATIC

All water-cooled "Cool-Grip" semi-automatic torches are manufactured and shipped standard with a built-in water flow sensor. Just one of the added protections, along with an anti-stretch cord to prevent pulling apart of cable assemblies. American Weldquip is the ONLY torch manufacturer that has added features to its water-cooled torch line up to help guard against expensive torch repairs and downtime.

The **AMERICAN WELDQUIP EXCLUSIVE** integrated flow sensor protects the torch and components against low or no water flow conditions. Tired of melted power cables because of no water flow? If low flow is detected the trigger circuit is deactivated. 80% of water-cooled torch repairs are due to compromised water-cooled power cables because of the lack of water flow.



AMERICAN WELDQUIP'S EXCLUSIVE INTEGRATED FLOW SWITCH

Your protection against damaged torches due to no/low water flow.

ERGONOMIC HANDLE DESIGN LIFETIME WARRANTY

Manufactured with durable materials for long life even in the roughest welding environments. Ergonomic and balanced design for increased welder comfort.

EXTENDED TRIGGER OPTION

For increased personal welder comfort. Manufactured from heavy-duty aluminum increases durability and resists breaking as compared to plastic extended triggers.

UNIQUE SECURED WATER-COOLED POWER CABLE SYSTEM

American Weldquip is the only torch manufacturer to incorporate an "anti-stretch" cord in our water-cooled cable bundle. The anti stretch cord takes all the strain off the water-cooled power cable assembly and helps to eliminate power cable failures.

WATER-COOLED GOOSENECK

All American Weldquip water-cooled goosenecks are designed for superior heat dissipation. The heavy-walled outer tube gives additional strength to stand up in rugged environments. There are no o-rings to leak and all water passage joints are silver soldered and 100% quality tested for leaks.

- ✓ Heavy-Walled Water-Cooled Gooseneck.
- ✓ Extremely Durable, Heavy-Walled Gooseneck Design.
- ✓ Long Lasting, Cool Running Consumable Design.
- ✓ Heavy-Duty Thread-On Nozzle System.
- ✓ Common Consumable Platform Across All American Weldquip Torches.
- ✓ Durable Power Cable for Superior Wear Resistance.
- ✓ Spring Strain Relief Helps Eliminate Feeding Issues.
- ✓ Special Designs, Custom Configurations Available.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



DURABLE TRIGGER DESIGN

TIME TESTED TRIGGER - LIFETIME WARRANTY

Our trigger assembly incorporates a light touch and proven reliable design. The simplicity of the design of this critical component insures its functional reliability. That is why we decided to offer a lifetime warranty on the switch contact components.

OTHER AVAILABLE OPTIONS

- Gun Hanger
- Heat Shield
- Dual/Multi Schedule
- Miller Continuum
- HRT - Heat Resistant Technology Tips



AMERICAN WELDQUIP SEMI-AUTOMATIC

STANDARD TORCH CONFIGURATIONS

GUN SERIES	DESCRIPTION	LINER	CONTACT TIP SIZE	TIP	DIFFUSER	NOZZLE SIZE	NOZZLE	INS. WASHER	GOOSENECK
238CA	260 Amp Air-Cooled	750XX222T	.035"(0.9) - M6 Thread	75035511	75002007	9/16"(15.1MM)	75135601-I	75001003	60°
347CA	300 Amp Air-Cooled	750XX222T	.045"(1.2) - M6 Thread	75045511	75002007	5/8"(15.9MM)	75146204-I	75001005	60°
354CA	350 Amp Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	5/8"(15.9MM)	75146202-I	75001004	60°
407CA	400 Amp Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	5/8"(15.9MM)	75146202-I	75001004	60°
454CA /456CG	400 Amp Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	5/8"(15.9MM)	75146202-I	75001004	60°
500CG	500 Amp Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	5/8"(15.9MM)	75146202-I	75001004	60°
507CG	500 Amp Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	5/8"(15.9MM)	75157501-I	75001006	60°
607CG	600 Amp Water-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	5/8"(15.9MM)	75146202-I	75001004	60°
347PG	300 Amp Air-Cooled - PGrip	750XX222T	.045"(1.2) - M6 Thread	75045511	75002007	5/8"(15.9MM)	75146204-I	75001005	180°
407PG	400 Amp Air-Cooled - PGrip	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	5/8"(15.9MM)	75146202-I	75001004	180°

How To Order
SEMI-AUTOMATIC
TORCHES

TORCH RATINGS

MODEL	RATED AMPERAGE	60% DUTY CYCLE		100% DUTY CYCLE	
		CO2	Mixed Gas (ArCo2)	CO2	Mixed Gas (ArCo2)
238CA	260	260A	230A	230A	210A
347CA	300	300A	270A	270A	250A
354CA	350	350A	320A	320A	300A
407CA	400	400A	350A	350A	325A
454CA/456CG	450	460A	425A	450A	400A
500CG	500	510A	475A	500A	450A
507CG	500	510A	475A	500A	450A
607CG	600	600A	500A	625A	600A

HOW TO ORDER

TORCH SERIES LENGTH FEEDER PIN — OPTIONS — ALUMINUM SETUP
EXAMPLE: 456CG 15 T5 — ET — A

** Specify wire size and or special configuration when ordering if not standard.

Consult website: www.weldquip.com, factory or your AWQ Representative for assistance with part number configuration.

WIRE FEEDER PIN OPTIONS

B - EURO	L - LINCOLN® (LN7 STYLE)	M - MILLER®
D - OTC®/DAIHEN®	LU - LINCOLN® UNIVERSAL	P - PANASONIC®
DP - OTC®/DAIHEN® DP SERIES	TL - LINCOLN® POWER FEED 10	T - TWECO®/HOBART® #4
K - KOBELCO®	W - LINCOLN® WIREMATIC	T5 - TWECO® #5

OPTIONS

ET – EXTENDED TRIGGER	FLX – FLEXIBLE GOOSNECK
DS – DUAL SCHEDULE SWITCH	GL – GASLESS CONSUMABLES
ID – INCREASE/DECREASE (MULTI-SCHEDULE)	TS – THERMAL SPRING
MC – MILLER CONTINUUM SWITCH	

GUN HANGER -75000009 (Must be ordered separately)

HEAT SHEILD – 75000030 (Must be ordered separately)

AMERICAN WELDQUIP AUTOMATIC WELDING TORCH SYSTEMS

300AMP - 500AMP AIR-COOLED

450AMP/550AMP/600AMP WATER-COOLED

The Most Comprehensive, Widest Range Of Automatic Products Like No Other!

Automatic
Torches



- ✓ Designed For Fixed Tooling Applications, Various Configurations In Air and Water-Cooling Are Available To Suit Every Requirement.
- ✓ Choose From Automated Fixed Torch With Any Length Power Cable, Barrel and Rack Mounting, Direct Feeder Mount Or TAM Style.
- ✓ "HEAT SINK" Gooseneck Heat Dissipation Management Technology.
- ✓ Extremely Durable, Heavy-Walled Gooseneck Design.
- ✓ Long Lasting, Cool Running Consumable Design.
- ✓ Heavy-Duty Thread-On Nozzle System.
- ✓ Common Consumable Platform Across All American Weldquip Torches Reduces Inventory Requirements.
- ✓ Durable Power Cable For Superior Wear Resistance. Water-Cooled Versions Are Available In Our Low Maintenance HYBRID Design Which Utilizes An Air-Cooled Power Cable.
- ✓ Spring Strain Relief Helps Eliminate Feeding Issues.
- ✓ Adaptable To Most Wire Feed Units.
- ✓ Special Designs, Custom Configurations and Lengths Readily Available.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



Rack or Barrel Mount

**Standard Mount
w/ Cable**

(Water-Cooled Version Shown)

Direct Connect

TAM Style

If you do not see a standard configuration or specific length you need – no problem. Contact us with your special requirements and we will custom design and manufacture a torch to your exact specifications. Most special torches can be shipped within five days.

Don't be fooled by the imitators! Demand genuine American Weldquip products to insure you get the best Service, Quality, Solutions and performance you expect.

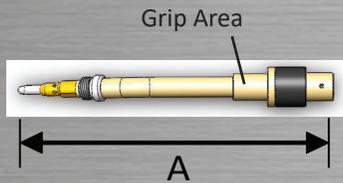
AMERICAN WELDQUIP AUTOMATIC & TAM STYLE

STANDARD TORCH CONFIGURATIONS

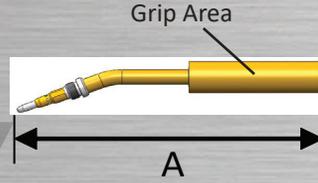
TORCH SERIES	DIMENSION "A"	GRIP Ø	GRIP LENGTH	NECK ANGLE	STD TIP SIZE	TIP PART #	DIFFUSER	INSULATING WASHER	NOZZLE BORE SIZE	NOZZLE PART #
300A	9.60"(243.96mm)	1"(25.4mm)	1.25"(31.75mm)	180°	.035(0.9mm)-M6	75035511	75002007	75001003	9/16"(15.1mm)	75135601-I
400A	9.60"(243.96mm)	1"(25.4mm)	1.25"(31.75mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
500A	9.60"(243.96mm)	1"(25.4mm)	1.25"(31.75mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
450A	9.60"(243.96mm)	1"(25.4mm)	1.25"(31.75mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
550A	9.60"(243.96mm)	1"(25.4mm)	1.25"(31.75mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
600A	9.60"(243.96mm)	1"(25.4mm)	1.25"(31.75mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
500A Direct Mount	9.60"(243.96mm)	N/A	N/A	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75157501-I
550A Direct Mount	9.60"(243.96mm)	N/A	N/A	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
400A Barrel/Rack Mount	7.1875(182.56mm)	1.375"(34.92mm)	6.0"(152.4mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
500A Barrel-Rack Mount	7.1875(182.56mm)	1.375"(34.92mm)	6.0"(152.4mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
550A Barrel-Rack Mount	7.1875(182.56mm)	1.375"(34.92mm)	6.0"(152.4mm)	180°	.045(1.2mm)-M8	75045014	75004033	75001004	5/8"(15.9mm)	75146202-I
300A-T TAM	See Below	1.125"(28.57mm)	See Below	180°	.035(0.9mm)-M6	75035511	75002007	75001003	9/16"(15.1mm)	75135601-I
400A-T TAM	See Below	1.125"(28.57mm)	See Below	180°	.045(1.2mm)-M8	75045014	75004033	75004033	5/8"(15.9mm)	75146202-I
450A-T TAM	See Below	1.125"(28.57mm)	See Below	180°	.045(1.2mm)-M8	75045014	75004033	75004033	5/8"(15.9mm)	75146202-I
550A-T TAM	See Below	1.125"(28.57mm)	See Below	180°	.045(1.2mm)-M8	75045014	75004033	75004033	5/8"(15.9mm)	75146202-I
600A-T TAM	See Below	1.125"(28.57mm)	See Below	180°	.045(1.2mm)-M8	75045014	75004033	75004033	5/8"(15.9mm)	75146202-I

How To Order
AUTOMATIC

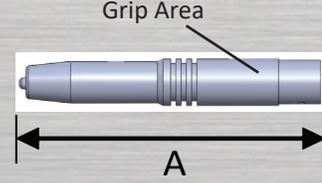
300-600 Amp Standard



Barrel/Rack Mount



TAM Style



TORCH RATINGS

MODEL	COOLING TYPE	60% DUTY CYCLE				100% DUTY CYCLE	
		RATED AMPERAGE	CO2	Mixed Gas (ArCo2)	CO2	Mixed Gas (ArCo2)	
300A	Air-Cooled	300	350A	300A	300A	270A	
400A	Air-Cooled	400	425A	400A	400A	325A	
450A	Water-Cooled	450	475A	450A	450A	375A	
500A	Air-Cooled	500	525A	500A	500A	410A	
550A	Water-Cooled	550	575A	550A	550A	475A	
600A	Water-Cooled	600	625A	600A	600A	525A	

HOW TO ORDER

PART NUMBER CONFIGURATION

STANDARD/RACK/DIRECT MOUNT TORCHES

EXAMPLE: GUN SERIES 500A - NECK ANGLE 180 MOUNT TYPE DM=DIRECT MOUNT OPTIONS AS - CABLE LENGTH 10 FEEDER PLUG T5 - ALUMINUM SETUP A

RM=RACK MOUNT
BM=BARREL MOUNT

TAM STYLE TORCHES

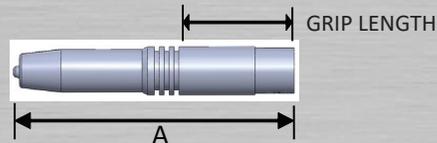
EXAMPLE: GUN SERIES 450A - TAM SERIES T BARREL LENGTH L OPTIONS AS - CABLE LENGTH 10 FEEDER PLUG T5 - ALUMINUM SETUP A

** Specify wire size and/or special configurations when ordering if not the standard.

Consult website: www.weldquip.com, factory or your AWQ Representative for assistance with part number configuration.

TAM STYLE BARREL LENGTH SELECTION

(S) = SHORT - Dim "A" = 6" (152.4mm) / Grip Length = 2.875" (73.02mm)
 (BLANK) = STANDARD - Dim "A" = 8.75" (222.25mm) / Grip Length = 4.75" (120.65mm)
 (L) = LONG - Dim "A" = 12" (304.8mm) / Grip Length = 8.00" (203.20mm)



WIRE FEEDER PIN OPTIONS

- | | |
|--------------------------------------|--------------------------------------|
| B - EURO | TL - LINCOLN® (POWER FEED 10) |
| D - OTC®/DAIHEN® | W - LINCOLN® (WIREMATIC) |
| DP - OTCV/DAIHEN® | M - MILLER® |
| K - KOBELCO® | P - PANASONIC® |
| L - LINCOLN® (LN7 STYLE) | T - #4 STYLE |
| LU - LINCOLN® (UNIVERSAL PIN) | T5 - #5 STYLE |

OPTIONS

- AS** - ANTI-SPATTER/AIR BLAST
RS - REPLACEABLE NOZZLE SEAT
 (Standard on TAM Torches except on S - Short Barrel Length)
FS - FLANGE STOP

AMERICAN WELDQUIP OFFSET/OVER-ARM ROBOTIC TORCHES

300AMP - 500AMP AIR-COOLED

450AMP/550AMP/600AMP WATER-COOLED

Over thirty years of engineering and field experience at **American Weldquip** has allowed us to produce an extremely rugged, reliable, and low maintenance robotic MIG welding system.

ROBOTIC
OFFSET/OVER ARM

- ✓ American Weldquip's Extremely Durable, Heavy-Walled Robotic Goosenecks Are Designed For Superior Strength and Heat Dissipation.
- ✓ ROBUST GOOSENECK DESIGN – Provides Unparalleled Resistance To Bending In "Crash Situations. Ensuring Less Downtime, Increased Productivity and Lower Maintenance When Compared To Competitive Torch Designs.
- ✓ "HEAT SINK" Gooseneck Heat Dissipation Management Technology.
- ✓ **FLAT OUT THE BEST** - Unique TCP Locating Flat.
- ✓ Long Lasting, Cool Running Consumable Design.
- ✓ Heavy-Duty Thread-On Nozzle System.
- ✓ Common Consumable Platform Across All American Weldquip Torches Reduces Inventory Requirements.
- ✓ Durable Power Cable For Superior Wear Resistance. Water-Cooled Versions Are Available In Our Low Maintenance HYBRID Design Which Utilizes An Air-Cooled Power Cable.
- ✓ Spring Strain Relief Helps Eliminate Feeding Issues.
- ✓ Adaptable To Most Wire Feed Units.
- ✓ Special Designs, Custom Configurations Available.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



TCP LOCATING FLAT

NO KEYWAYS - Our unique "LOCATING FLAT" flat between the mounting arm and the gooseneck means no keys to come loose or fall out. The precision CNC machined locating positioning flat has proven over and over again to be "**FLAT OUT THE BEST**" design to guarantee you repetitive TCP placement when changing out torches or goosenecks.

CUSTOM SOLUTIONS

American Weldquip is capable of providing you custom engineered torches, mounts etc. to meet your specific requirements. Custom-designed torches can normally be completed in a matter of days!

AVAILABLE OPTIONS

- Air Blast
- Wire, Voltage and Nozzle Touch Sensing
- Wire Brake
- Replaceable Nozzle Seats

HRT - Heat Resistant Technology Extended Life Contact Tips

WIRE BRAKE



550/600 AMP
WATER-COOLED
W/ARCSAFE



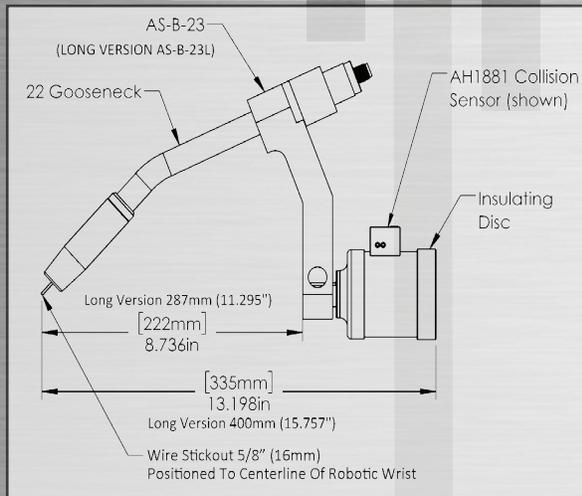
AMERICAN WELDQUIP'S TOTAL ROBOTIC PACKAGE/PRODUCTIVITY SOLUTIONS

- ArcSafe , ArcSafe-SW and Arcsafe Solid Mount Collision Protection - See Page 11
- Solid Torch Mount Arms - See Page 12
- Insulating Disks - See Page 12
- HRT Extended Life Consumables - See Page 32
- Robo-Quip Robotic Nozzle Cleaning Station - See Page 16
- Quip-Mist Anti-Spatter - See Page 18

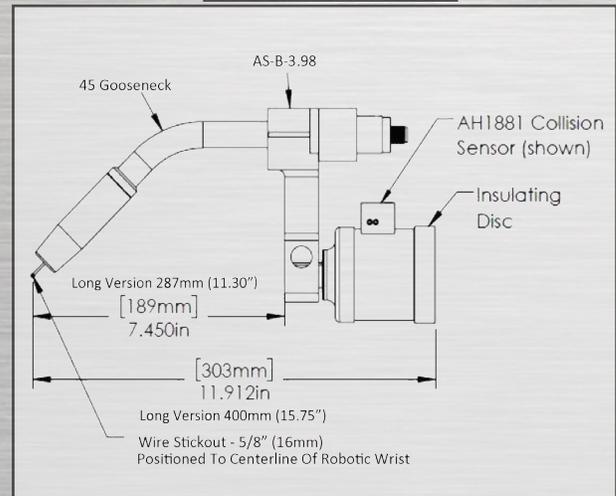


STANDARD TORCH CONFIGURATIONS

**22 DEGREE
AIR/WATER-COOLED
STANDARD & LONG VERSION**



**45 DEGREE
AIR/WATER-COOLED
STANDARD & LONG VERSION**



**How To Order
ROBOTIC
OFFSET ARM**

TORCH SERIES	DESCRIPTION	LINER	STD. TIP SIZE	TIP PART #	DIFFUSER	INS. WASHER	NOZZLE BORE SIZE	NOZZLE PART #
300R	300 Amp Air-Cooled	750XX222T	.035"(0.9) - M6 Thread	75035511	75002007	75001003	9/16"(15.1MM)	75135601-I
400R	400 Amp Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	75001004	5/8"(15.9MM)	75146202-I
500R	500 Amp Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	75001004	5/8"(15.9MM)	75146202-I
450R	450 Amp Hybrid Water-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	75001004	5/8"(15.9MM)	75146202-I
550R	550 Amp Hybrid Water-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	75001004	5/8"(15.9MM)	75146202-I
600R	600 Amp Water-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	75001004	5/8"(15.9MM)	75146202-I

TORCH RATINGS

MODEL	COOLING TYPE	60% DUTY CYCLE			100% DUTY CYCLE	
		RATED AMPERAGE	CO ₂	Mixed Gas (ArCo ₂)	CO ₂	Mixed Gas (ArCo ₂)
300R	Air-Cooled	300	350A	300A	300A	270A
400R	Air-Cooled	400	425A	400A	400A	325A
450R	Water-Cooled/Hybrid	450	475A	450A	450A	375A
500R	Air-Cooled	500	525A	500A	500A	410A
550R	Water-Cooled/Hybrid	550	575A	550A	550A	475A
600R	Water-Cooled	600	625A	600A	600A	525A

HOW TO ORDER

PART NUMBER CONFIGURATION

EXAMPLE: **GUN SERIES** 500R - **NECK** 22L - **TORCH OPTIONS** AS - **CABLE LENGTH** 04 - **FEEDER PLUG** LU - **ALUMINUM SETUP** A

** Specify wire size and/or special configurations when ordering if not the standard.

Consult website: www.weldquip.com, factory or your AWQ Representative for assistance with part number configuration.

WIRE FEEDER PIN OPTIONS

B - EURO	TL - LINCOLN® (POWER FEED 10)
D - OTC®/DAIHEN®	W - LINCOLN® (WIREMATIC)
DP - OTCV/DAIHEN®	M - MILLER®
K - KOBELCO®	P - PANASONIC®
L - LINCOLN® (LN7 STYLE)	T - #4 STYLE
LU - LINCOLN® (UNIVERSAL PIN)	T5 - #5 STYLE

OPTIONS

AS - AIR BLAST
RS - REPLACEABLE NOZZLE SEAT
TS - NOZZLE TOUCH SENSE
VS - VOLTAGE SENSING
WS - WIRE TOUCH SENSE
WB - WIRE BRAKE

ACCESSORIES

PART #	DESCRIPTION
200TT230-.625	ROBOTIC TEACH TIP (230 SERIES TIP WITH .625" (15.9mm) WIRE STICKOUT
750TT014-.472	ROBOTIC TEACH TIP (014 SERIES TIP WITH .472" (11.9mm) WIRE STICKOUT
750TT014-.500	ROBOTIC TEACH TIP (014 SERIES TIP WITH .500" (12.7mm) WIRE STICKOUT
750TT014-.590	ROBOTIC TEACH TIP (014 SERIES TIP WITH .590" (15mm) WIRE STICKOUT
750TT014-.625	ROBOTIC TEACH TIP (014 SERIES TIP WITH .625" (15.9mm) WIRE STICKOUT
750TT014-.750	ROBOTIC TEACH TIP (014 SERIES TIP WITH .750" (19mm) WIRE STICKOUT
750TT511-.472	ROBOTIC TEACH TIP (511 SERIES TIP WITH .472" (11.9mm) WIRE STICKOUT
750TT511-.590	ROBOTIC TEACH TIP (511 SERIES TIP WITH .590" (15mm) WIRE STICKOUT
750TT511-.625	ROBOTIC TEACH TIP (511 SERIES TIP WITH .625" (15.9mm) WIRE STICKOUT
A-1932	STRAIGHT N' EASY WIRE STRAIGHTENER **
A-2251	HEAVY-DUTY STRAIGHT N' EASY WIRE STRAIGHTENER **

** See Conduit Accessories Page 28 for connector selection.

AMERICAN WELDQUIP ARCSAFE™ COLLISION SENSORS

The ArcSafe™ and ArcSafe -SW provide the maximum collision protection in robotic applications

The ArcSafe utilizes an integrated switch designed to prevent damage to the robotic end of arm equipment and/or tooling. In the event of a crash the ArcSafe signals an E-Stop function of the robot, shutting down the system and avoiding costly damage to the torch, robot or production line components.

The ArcSafe-SW is specifically designed for use where crash protection is integrated into the robotic software package. Most integrated robotic collision detection software systems take time to come to a complete stop - especially with high speed movements. This is where the ArcSafe-SW offers additional protection over solid mount devices. The 20 degree deflection feature incorporated into the ArcSafe-SW provide additional protection over other solid mount type devices. This additional safe guard provides the extra protection required to reduce or eliminate bent goosenecks, cracked insulating disks and damaged tooling.

The ArcSafe Solid Mount is for use with robotic systems with software crash protection. The solid mount provides the necessary connection between the robot wrist and the torch.

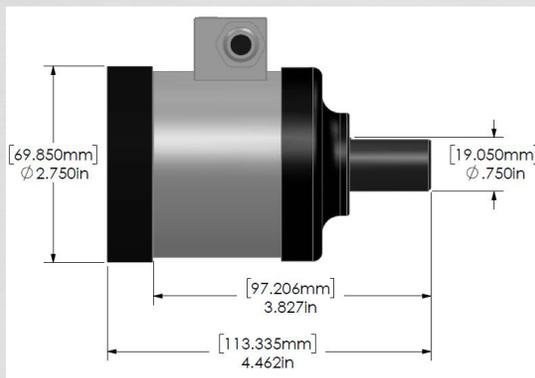
- ✓ Highly Repeatable – Resets to +.002" (+.04mm)
- ✓ Rugged Design – Hardened Tool Steel In Contact and Wear Points.
- ✓ Common Work Envelope – Interchangeability When Changing Out Competitive Brands.
- ✓ Robust E-Stop Control Cable/Connector – Heavy Control Cable and Robust Connector Mean Less Downtime Because Of Cable Issues.
- ✓ Protection in Mx, My, Mz and Fz Directions
- ✓ Arm Mounting Post – Hardened Tool Steel and Flat Surface For Fast and Precise Wedge Pin Mounting Of Torch Arms.
- ✓ Quick Field Replaceable Switch Assembly.
- ✓ Easy Sensitivity Adjustment.
- ✓ Air Assist - Standard
- ✓ Quick Installation – Only Four Screws With Common Allen Key Wrench.
- ✓ Protective Seal Boot – Keeps Weld Spatter Out Of Mounting Screws and Other Critical Areas For Reduced Downtime and Maintenance.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



Technical Specifications – ArcSafe, ArcSafe-SW

Weight - 1lb. 9 oz. (.709 KG)
Repeatability - + .002" (+ .04mm)
Range Of Travel - 20° Pivot, 360° Rotation
 .50" (12.7mm) Compression

Spring Force-
 Mx, My = 93 in-lbs
 Mz = 168 in.lbs.
 Fz = 172 lbs.



ArcSafe ArcSafe-SW



ArcSafe Solid Mount



HOW TO ORDER

PART NUMBER	DESCRIPTION
AH1881	ARCSAFE ROBOTIC COLLISION SENSOR
ASW2000	ARCSAFE-SW FOR USE WITH ROBOTIC COLLISION DETECTION SOFTWARE
AS-B-A	ARCSAFE SOLID MOUNT
	** See Page 12 for insulating disk selection

ROBOTIC
ACSAFE

AMERICAN WELDQUIP ROBOTIC TORCH MOUNT/INSULATING DISK

Torch Mounting Arms and Insulating Disks Are Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



TORCH MOUNTING ARMS

CNC machined from solid aluminum bar stock to guarantee accuracy and rigidity. All American Weldquip brackets incorporate a “Flange Lock” mounting feature which guarantees TCP accuracy and orientation when replacing the ArcSafe or torch mount. The unique, precision machined torch/gooseneck locating flat insures repeatability in the event of torch/gooseneck or arm change out.



HOW TO ORDER

**ROBOTIC
INSULATING DISK
TORCH MOUNTS**

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
AS-B-23	23 DEGREE MOUNTING BRACKET (335MM TCP) FOR USE WITH 22 DEGREE GOOSENECKS
AS-B-23L	23 DEGREE MOUNTING BRACKET (400MM TCP) FOR USE WITH 22 DEGREE GOOSENECKS
AS-B-23L500	23 DEGREE MOUNTING BRACKET (500MM TCP) FOR USE WITH 22 DEGREE GOOSENECKS
AS-B-3.98	90 DEGREE MOUNTING BRACKET (3.98" /101MM CENTER LINE) FOR USE WITH 45 DEGREE GOOSENECKS
AS-B-4.25	90 DEGREE MOUNTING BRACKET (4.25" /108MM CENTER LINE) FOR USE WITH 45 DEGREE GOOSENECKS
AS-B-4.50	90 DEGREE MOUNTING BRACKET (4.50" /114MM CENTER LINE) FOR USE WITH 45 DEGREE GOOSENECKS
AS-B-5.39	90 DEGREE MOUNTING BRACKET (5.39" /137MM CENTER LINE) FOR USE WITH 45 DEGREE GOOSENECKS

INSULATING DISKS

The insulating disk is designed to insulate the robot and controller from welding current in the event of a torch shorting situation. In addition, the disk protects the robot in the case of a non-torch crash in the area of the ArcSafe.

HOW TO ORDER



FOR USE WITH AH1881, ASW2000 & SOLID MOUNT TORCH SYSTEM	
<u>PART NUMBER</u>	<u>ROBOT MODEL</u>
AS-300M	FANUC - S-5, JR55,SR510, S5, KUKA - KR-6, KR-15, PANASONIC - AW-005A, AW-500C, AW-500CL, AW-006A, AW010A, AW-8010,VR-005C, VR-006ALII, VR-006A, VR-006AL, VR-008A
AS-325M	UNIVERSAL ROBOTICS - UR10
AS-400M	ABB- IRB6, 1400,1500, 2000, FANUC - ARCMATE 100, 100i, 120i, S-6, MOTOMAN- MH50-20, HP50-20, SK6, SK16, SK20, OTC - MRV-6, EXV6, EX-V6I, EX-V16, DR4000, DR4200, DR4400
AS-700	NACHI SC06F, SC15F
AS-900	KAWASAKI - RS10L
AS-950	NACHI
FOR USE WITH SOLID MOUNT AS-B-A SETUPS	
<u>PART NUMBER</u>	<u>ROBOT MODEL</u>
AS-300-A	FANUC - S-5, JR55,SR510, S5, KUKA - KR-6, KR-15, PANASONIC - AW-005A, AW-500C, AW-500CL, AW-006A, AW010A, AW-8010,VR-005C, VR-006ALII, VR-006A, VR-006AL, VR-008A
AS-400-A	ABB- IRB6, 1400,1500, 2000, FANUC - ARCMATE 100, 100i, 120i, S-6, MOTOMAN- MH50-20, HP50-20, SK6, SK16, SK20, OTC - MRV-6, EXV6, EX-V6I, EX-V16, DR4000, DR4200, DR4400
AS-350-A	PANASONIC - TA SERIES
AS-500-A	ABB - IRB2600

AMERICAN WELDQUIP ARCSAFE™ ADVANTAGE SERIES

AIR AND WATER-COOLED “THRU ARM” ROBOTIC TORCH SYSTEM

300/500 AMP AND 550 AMP

AMERICAN WELDQUIP's ARCSAFE™ ADVANTAGE Series “Thru the Arm” robotic system offers unsurpassed performance and features not found in competitive equipment. The ArcSafe Advantage Series is designed and engineered using a modular concept and is easily adaptable to all “Hollow Wrist” type robots.

The standard configuration includes the electrical rotary joint common to all robotic systems and the proper insulating adaptor disk which is used on robots with built-in software collision protection. The modular concept makes updating or changing system requirements as easy as adding the necessary modules.

The ArcSafe Advantage Series combination of a rugged heavy-duty torch system, unique gooseneck TCP locating, long life consumables and low maintenance design provide a highly accurate and repeatable “Thru the Arm” robotic package for precision welding and maximum productivity.

Demand genuine American Weldquip products to insure you get the best Service, Quality, Solutions and the performance you expect.



ROBOTIC
ARCSAFE
ADVANTAGE

300/500 AMP
AIR-COOLED

GOOSENECK LINER

Replaceable gooseneck liner system available.

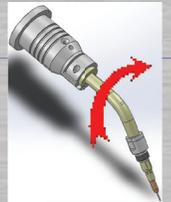
QUICK CHANGE GOOSENECK DESIGN

Heavy-duty, quick change durable gooseneck with thick-walled brass outer tube provides superior bend resistance in crash situations.

360 DEGREE CONTINUOUS ROTATION

The ArcSafe Advantage system unique rotary joint design provides unlimited freedom of 360 degree continuous rotation. This allows for shorter rotational reorientations when weld programming and reduces cycle times by allowing you to program the shortest off-cycle (air movement) path possible. The additional benefit of no cable twisting or torsional strain substantially increases cable life **.

** Water-Cooled version is limited to 360 degree of rotation only.



FLAT OUT THE BEST



TCP LOCATING FLAT

Our unique precision machined “LOCATING FLAT” has proven over and over again to be **“FLAT OUT THE BEST”**. No pins or keys to fall out. The gooseneck incorporates our unique proven design locating/positioning flat with precision machined mating surfaces to guarantee repeatable and accurate TCP positioning when changing out components.

MODULAR DESIGN

The ArcSafe Advantage Series modular design concept system offers flexibility and lower inventory requirements by utilizing a common front housing build platform across multiple robot manufacturer models. The unique and high flexibility features of the ArcSafe Advantage Series Modular design allows you to easily convert the system to water-cooled, add-on the Xtra-Gard Collision Dampener, Nozzle Touch Sense and/or air-blast. If your requirements change you can easily add or update your configuration by adding features to the existing platform instead of purchasing a whole new system.

AMERICAN WELDEQUIP ARCSAFE™ ADVANTAGE SERIES

AIR AND WATER-COOLED “THRU ARM” ROBOTIC TORCH SYSTEM

AMERICAN WELDEQUIP's combination of a heavy-duty torch design with a unique positioning flat, front end rotating electrical joint module and high life consumables provide a highly accurate, repeatable and low maintenance “Thru the Arm” robotic package for precision welding and maximum productivity.

- ✓ The ArcSafe Advantage's Rugged and Simple Design Offers Low Maintenance and Ensures High Productivity.
- ✓ Engineered For The Latest Generation “Thru Arm” Robotic Welding Systems.
- ✓ American Weldquip's Extremely Durable, Heavy-Walled Robotic Goosenecks Are Designed For Superior Strength and Heat Dissipation.
- ✓ ROBUST GOOSENECK DESIGN – Provides Unparalleled Resistance To Bending In “Crash Situations” Ensuring Less Downtime, Increased Productivity and Lower Maintenance When Compared To Competitive Torch Designs.
- ✓ “HEAT SINK” Gooseneck Heat Dissipation Management Technology.
- ✓ **FLAT OUT THE BEST** - Unique TCP Locating Flat.
- ✓ Long Lasting, Cool Running Consumable Design.
- ✓ Heavy-Duty Thread-On Nozzle System.
- ✓ Common Consumable Platform Across All American Weldquip Torches Reduces Inventory Requirements.
- ✓ Durable Power Cable For Superior Wear Resistance. Water-Cooled Versions Are Available In Our Low Maintenance **HYBRID** Design Which Utilizes An Air-Cooled Power Cable.
- ✓ Spring Strain Relief Helps Eliminate Feeding Issues.
- ✓ Adaptable To Most Wire Feed Units.
- ✓ Special Designs, Custom Configurations Available.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



**ROBOTIC
ARCSAFE
ADVANTAGE**

EASILY ADAPTABLE
The insulating adaptor disk adapts the ArcSafe to various robot models. It is designed to insulate the robot and controller from welding current and protect the robot in case of non-torch crash in the area of the ArcSafe.

COLLISION DAMPENING
The Xtra Guard Collision Dampening Unit provides integrated crash protection with a little extra cushion to help prevent gooseneck bending in severe crash situations. The Xtra Guard allows for X and Y deflection of 15 degrees and Z axis of 1/4” to protect the torch, robot and equipment from damage.

AVAILABLE OPTIONS
Water-Cooling
Xtra-Guard Collision Dampener Module
Voltage & Nozzle Sensing
Air-Blast
HRT - Heat Resistent Technology Extended Life Contact Tips
Gooseneck Liner

AMERICAN WELDEQUIP'S TOTAL ROBOTIC PACKAGE/PRODUCTIVITY SOLUTIONS
HRT Extended Life Consumables - See Page 32
Robo-Quip Robotic Nozzle Cleaning Station - See Page 16
Quip-Mist Anti-Spatter See Page 18

**XTRA-GUARD
COLLISION DAMPENER MODULE**



AMERICAN WELDQUIP ARCSAFE ADVANTAGE ROBOTIC SYSTEM

STANDARD TORCH CONFIGURATIONS

SYSTEM SERIES	LINER	TIP SIZE	TIP PART#	DIFFUSER	INS. WASHER	NOZZLE SIZE	NOZZLE PART #	GOOSENECK ANGLE
300 Series - Air-Cooled	750XX222T	.035"(0.9) - M6 Thread	75035511	75002007	75001003	9/16"(15.1MM)	75135601-I	Specify
500 Series - Air-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	75001004	5/8"(15.9MM)	75146202-I	Specify
550 Series - Water-Cooled	750XX228T	.045"(1.2) - M8 Thread	75045014	75004033	75001004	5/8"(15.9MM)	75146202-I	Specify

TORCH SPECIFICATIONS

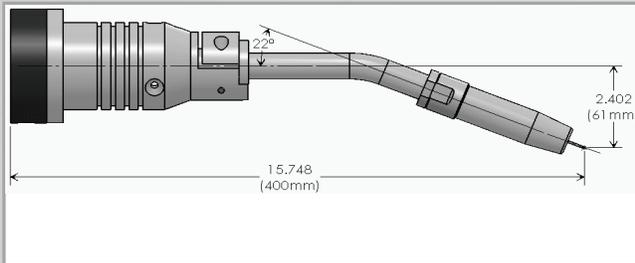
WEIGHTS

300/500 SERIES = 2.2kg

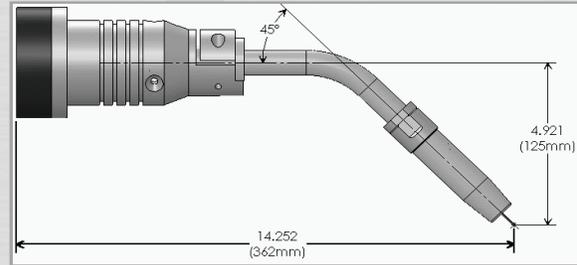
550 SERIES = 2.5kg

DUTY CYCLE @ 100%

SYSTEM SERIES	CO2	MIXED GAS	Ar/CO2
300 Series - Air-Cooled	350A		300A
500 Series - Air-Cooled	500A		400A
550 Series - Water-Cooled	550A		425A



300/500/550 SERIES
22 DEGREE



300/500/550 SERIES
45 DEGREE

HOW TO ORDER

PART NUMBER CONFIGURATION

COMPLETE SYSTEM INCLUDES INSULATING DISK

ARCSAFE ADVANTAGE

SERIES	GOOSENECK/SERIES	ROBOT MAKE	ROBOT MODEL	WIRE FEEDER	OPTIONS
AST	322	F	100iC	LU	AS
	322 - 300 Series 22 Degree	A = ABB	EXAMPLE SHOWN	B = EURO	AS = AIR BLAST
	345 - 300 Series 45 Degree	F = FANUC	FANUC 100iC	D = DAIHEN/OTC	TS = NOZZLE TOUCH SENSE
	522 - 500 Series 22 Degree	K = KUKA		DP = DAIHEN/OTC(DP)	
	545 - 500 Series 45 Degree	M = MOTOMAN		K = KOBELCO	
	622 - 550 Series 22 Degree	O = DAIHEN/OTC		L = LINCOLN (LN7)	
	645 - 550 Series 45 Degree	P = PANASONIC		L10 = LINCOLN PFEED 10	
				LU = LINCOLN UNIVERSAL	
				M = MILLER	
				P = PANASONIC	
				T = T #4	
				T5 = T #5	

** Specify wire size and/or special configurations when ordering if not the standard.

Adaptable to other robot models. Consult website: www.weldquip.com, factory or your AWQ Representative for assistance with part number configuration.

OPTIONS

AS - AIR BLAST

RS - SUPPLIED AS STANDARD - REPLACEABLE NOZZLE SEAT

TS - NOZZLE TOUCH SENSE

VS - SUPPLIED AS STANDARD - VOLTAGE SENSING

AST-2000 XTRA-GUARD COLLISION DAMPENOR MODULE

** MUST BE PURCHASED SEPERATELY WHEN ORDERING SYSTEM. WILL BE SHIPPED WITH THE CORRECT INSULATING ADAPTOR

ACCESSORIES

PART

DESCRIPTION

200TT230-.625	ROBOTIC TEACH TIP (230 SERIES TIP WITH .625" (15.9mm) WIRE STICKOUT
750TT014-.472	ROBOTIC TEACH TIP (014 SERIES TIP WITH .472" (11.9mm) WIRE STICKOUT
750TT014-.500	ROBOTIC TEACH TIP (014 SERIES TIP WITH .500" (12.7mm) WIRE STICKOUT
750TT014-.590	ROBOTIC TEACH TIP (014 SERIES TIP WITH .590" (15mm) WIRE STICKOUT
750TT014-.625	ROBOTIC TEACH TIP (014 SERIES TIP WITH .625" (15.9mm) WIRE STICKOUT
750TT014-.750	ROBOTIC TEACH TIP (014 SERIES TIP WITH .750" (19mm) WIRE STICKOUT
750TT511-.472	ROBOTIC TEACH TIP (511 SERIES TIP WITH .472" (11.9mm) WIRE STICKOUT
750TT511-.590	ROBOTIC TEACH TIP (511 SERIES TIP WITH .590" (15mm) WIRE STICKOUT
750TT511-.625	ROBOTIC TEACH TIP (511 SERIES TIP WITH .625" (15.9mm) WIRE STICKOUT
AST-WCKIT	WATER-COOLED CONVERSION KIT
A-1932	STRAIGHT N' EASY WIRE STRAIGHTENER **
A-2251	HEAVY-DUTY STRAIGHT N' EASY WIRE STRAIGHTENER **

** See Conduit Accessories Page 28 for connector selection.

INSULATING ADAPTOR - Supplied with Advantage System

PART #	DESCRIPTION	PART #	DESCRIPTION
AST-A101	ABB - IRB2600ID, IRB1660ID	AST-K101	KAWASAKI - BA006N SERIES
AST-A101-SD	ABB WITH XTRA-GUARD - IRB2600ID,IRB1660ID	AST-M101	MOTOMAN - ALL EXCEPT MA1440, MA2010 & MA3120
AST-A102	ABB - IRB1600ID, IRB1520ID	AST-M102	MOTOMAN - MA1440, MA2010 & MA3120
AST-A102-SD	ABB WITH XTRA-GUARD - IRB1600ID, IRB1520ID	AST-O101	OTC - B4 SERIES
AST-F101	FANUC - 100iC, 120iC SERIES	AST-O102	OTC - AX-V4 SERIES
AST-F101-SD	FANUC WITH XTRA-GUARD - 100iC, 120iC SERIES	AST-O103	OTC - FD-B6 SERIES
AST-F101WC	FANUC WATER-COOLED VERSION - 100iC, 120iC SERIES	AST-O103-SD	OTC WITH XTRA-GUARD - FD-B6 SERIES
AST-F102	FANAC - 100iD	AST-P101	PANASONIC - TM-1100 thru TM2000
AST-102-SD	FANAC WITH XTRA-GUARD - 100iD	AST-P101-SD	PANASONIC WITH XTRA-GUARD - TM-1100 THRU TM-2000

AMERICAN WELDQUIP ROBO-QUIP NOZZLE CLEANING STATION

The Robo-Quip RQ-5000 Nozzle Cleaning Station has all the advanced features and benefits you are looking for in a robotic nozzle cleaning station.

NO EXPOSED PNEUMATIC OR ELECTRICAL LINES

All electrical and pneumatic lines are contained inside the unit offering protection from physical and UV damage.

SELF-ADJUSTING NOZZLE CLAMP SYSTEM

The Robo-Quip incorporates a self-adjusting nozzle clamping assembly. There is NO NEED to readjust when switching from one size OD nozzle to another.



Engineered and Manufactured
in Our Sharon Center, Ohio Facility
Since 2014

FAST & EASY SETUP

The special SETUP switch allows the activation of the lift cylinder. Allows for easier setup positioning of the robot and nozzle over the reamer blade for a fast and uncomplicated setup procedure.

TCP CHECKING

Supplied as standard is a TCP pointer.

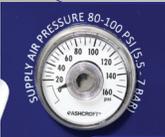
TEST BUTTONS

Test buttons for Cycle and Spray testing.



INLET AIR PRESSURE GAUGE

Easily monitor the required air supply to the reamer.



DIFFERENT COMMUNICATION PROTOCOL OPTIONS



COLOR CODED PNEUMATIC LINES

All pneumatic air lines are color coded to their specific operation for easier identification and service.

MODULAR VALVE MANIFOLD SYSTEM

The use of a completely modular valve terminal offers compactness and easy serviceability. The manifold system offers extremely high flow rates and is easy to service if required.

WIRE CUTTER

The Robo-Quip wire cutter easily cuts a variety of wire types and sizes. It is the perfect option for the Robo-Quip to cut the ball of the end of the wire.

A CLEANER ENVIRONMENT

The Robo-Quip is supplied standard with a debris tray to capture nozzle spatter. In addition, the enclosed anti-spatter spray chamber helps to contain any over spray and capture any excess in a bottle for easy disposal.

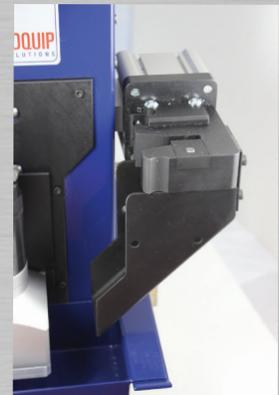
LARGE ANTI-SPATTER RESERVOIR

Hold 50% more anti-spatter solution with the 1 ½ quart reservoir.

ADAPTOR PLATES

Adaptor plates are available for mounting to competitive reamer stands.

DESIGNED FOR EASY MAINTENANCE



**ROBO-QUIP
NOZZLE CLEANING
STATION**

AMERICAN WELDQUIP ROBO-QUIP NOZZLE CLEANING STATION

SPECIFICATIONS

Air Requirements –	80 to 100 psi (5.0 to 7.0 bar) at 8 CFM (7.5 L/S) (Clean Shop Air)
Cutter Speed –	750 – 800 RPM
Reamer Stroke –	2" (50.8mm)
Dimensions –	Length 8" (203.29mm) , Width 8" (203.2mm) , Height x 12" (304.8mm)
Weight –	Robo-Quip w/Wire Cutter – 38 Lbs. (17.237kgs), Shipping Weight – 45 Lbs. 20.412kgs.)
Rated /Operating Voltage –	24 VDC / ±10% of Rated Voltage
Power Consumption -	Max Pull Current = 188mA, Max Holding Current = 62mA

HOW TO ORDER

PART #	DESCRIPTION
RQ-5000	ROBO-QUIP Robotic Nozzle Cleaning Station
RQ-5000WC	ROBO-QUIP Robotic Nozzle Cleaning Station w/ Wire Cutter
RQ-5000E	Ethernet ROBO-QUIP Robotic Nozzle Cleaning Station
RQ-5000EWC	Ethernet ROBO-QUIP Robotic Nozzle Cleaning Station w/ Wire Cutter
RQ-5000D	DeviceNet ROBO-QUIP Robotic Nozzle Cleaning Station
RQ-5000DWC	DeviceNet ROBO-QUIP Robotic Nozzle Cleaning Station w/Wire Cutter
RQ-5000P	ProfiNet ROBO-QUIP Robotic Nozzle Cleaning Station
RQ-5000PWC	ProfiNet ROBO-QUIP Robotic Nozzle Cleaning Station w/Wire Cutter

** Robo-Quip Nozzle Cleaning Station is shipped standard with 5/8" (16mm) Part #RB625 Reaming Blade. Specify reamer blade size when ordering if different then the standard.

OPTIONS

PART #	DESCRIPTION
RQ-0050	32" Reamer Stand
RQ-0075	Spray Enclosure Hose Drainage System – Replaces the excess spray bottle. Includes adaptor, hose and 1-gallon container.
RQ-CMI	Adaptor Plate - Robo-Quip to CMI Stand
RQ-LIN	Adaptor Plate - Robo-Quip to Lincoln Stand
RQ-TRE	Adaptor Plate - Robo-Quip to Tregaskiss Stand
8705BSYS	Quip-Mist 5 Gallon Bulk Feed System

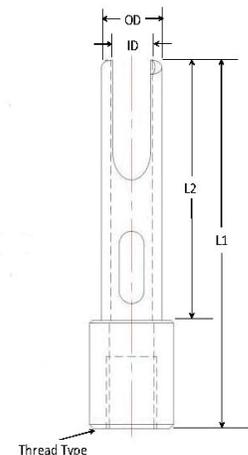
AMERICAN WELDQUIP OEM REPLACEMENT REAMER BLADES

- Manufactured From Tool Steel and Hardened To Guarantee Long Life.
- Dual Cutting Blade Design Provides Additional Cleaning Action and Increased Durability Even In High Weld Spatter Environments.
- Ream Past Diffuser Gas Holes - Using Genuine American Weldquip Robotic Equipment and Consumables With 5/8 Bore Nozzles Will Allow You (in most cases) To Ream and Clear Spatter Accumulation Past The Gas Holes.
- Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



HOW TO ORDER

PART NUMBER	NOZZLE BORE SIZE	OD	ID	L1	L2	THREAD TYPE	REAMER SPECIFIC
RB500	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	
RB-500B	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	3.02"(76.7mm)	1.75"(44.7mm)	Male – M24x1.5	Binzel
RB500-04TRG	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	1.65"(42mm)	1.10"(28mm)	Male - 3/8-24	Tregaskiss
RB560	9/16" (15mm)	.555"(14.1mm)	.433"(11mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	
RB560-01	9/16" (15mm)	.535"(13.5mm)	.393"(10mm)	1.65"(42mm)	1.10"(28mm)	Female - 3/8-24	
RB560-01B	9/16" (15mm)	.535"(13.5mm)	.393"(10mm)	2.11"(53.5mm)	1.10"(28mm)	Male – M24x1.5	Binzel
RB560-01TRG	9/16" (15mm)	.535"(13.5mm)	.393"(10mm)	1.65"(42mm)	1.10"(28mm)	Male - 3/8-24	Tregaskiss
RB625	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	2.69"(68mm)	2.13"(54mm)	Female - 3/8-24	
RB625B	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	3.152"(68mm)	2.13"(54mm)	Male – M24x1.5	Binzel
RB625-01TRG	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	2.69"(68mm)	2.13"(54mm)	Male - 3/8-24	Tregaskiss
RB625-01	5/8" (16mm)	.610"(15.5mm)	.453"(11.5mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	
RB625-02	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	2.95"(75mm)	2.14"(54mm)	Female - 3/8-24	
RB625-03	5/8" (16mm)	.590"(15mm)	.433"(11mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	
RB625-03B	5/8" (16mm)	.590"(15mm)	.433"(11mm)	3.02"(71.4mm)	1.55"(39.4mm)	Male – M24x1.5	Binzel
RB750	3/4" (19mm)	.704"(17.9mm)	.508"(12.3mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	
RB750-01TRG	3/4" (19mm)	.704"(17.9mm)	.508"(12.3mm)	2.56"(65mm)	1.75"(44.7mm)	Male - 3/8-24	Tregaskiss



AMERICAN WELDQUIP QUIP-MIST

Nozzle Conditioner and Anti-Spatter

Safe for People, Parts, The Planet and Your Productivity

American Weldquip introduces a major breakthrough in welding spatter control. QUIP-MIST nozzle conditioner and anti-spatter is a completely safe, "green", environmentally friendly product that really works.

QUIP-MIST is an exceptional performing, eco-friendly product that significantly reduces or eliminates spatter retention on weld nozzles, parts and tooling. Helps to extend the life of consumables, reduces downtime and increases productivity. When exposed to the welding arc the special blended formulation creates a protective barrier on the nozzle preventing spatter adhesion. In addition, when applied to parts, tooling or fixtures, weld spatter accumulation is easily cleaned away.

Extend the life of your consumables and reduce downtime with Quip-Mist Nozzle Conditioner and Anti-Spatter.

- ✓ Helps Extend Consumable Life
- ✓ No Harmful Odors or Fumes
- ✓ No Chlorinated Solvents
- ✓ No Silicone or Hydrocarbons
- ✓ Non-Flammable
- ✓ Non-Hazardous
- ✓ Non-Toxic
- ✓ Biodegradable
- ✓ Water Based
- ✓ Will Not Plug or Clog Feed Lines and Sprayers.
- ✓ Available in 8oz.(236.59ml) Spray, 32 oz(946.35ml), 1 Gallon(3.78L) 5 Gallon(18.92L) and 55 Gallon(208.20L) Containers.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



HOW TO ORDER

PART NUMBER	DESCRIPTION	SIZE	PACKAGING
87008SNC	QUIP-MIST LIQUID	8 OZ (236.59ml)	SAMPLE SPRAY BOTTLE
870032NC	QUIP-MIST LIQUID	32 OZ (946.35ML)	SPRAY BOTTLE
870001NC	QUIP-MIST LIQUID	One US Gallon(3.78 Liters)	JUG
870005NC*	QUIP-MIST LIQUID	Five US Gallons(18.92 Liters)	CUBITAINER
870055NC	QUIP-MIST LIQUID	55 US Gallons(208.20 Liters)	DRUM

*Includes faucet

** QUIP-MIST is a water based product. When not in use it is important to keep the container lids on tight as evaporation can occur reducing the useful life of the product.

TO OBTAIN MSDS SHEETS – VISIT OUR WEBSITE – www.weldquip.com or call 330-239-0317.

Quip-Mist 5 Gallon Bulk Feed System

- ✓ Easy Wall/Screen Mounting Inside or Outside The Welding Cell.
- ✓ Eliminate Entering Robotic Welding Cell To Replenish Anti-Spatter.
- ✓ Fast & Easy Change out Of 5 Gallon Quip-Mist Refill.
- ✓ 5 Gallon Extends Time Between Changes.
- ✓ Designed for use with American Weldquip's Robo-Quip Nozzle Cleaning Station.
- ✓ No more Filling Small Reservoirs On Side Of Nozzle Cleaning Station.
- ✓ Vacuum/Gravity Feed System.

HOW TO ORDER

PART NUMBER	DESCRIPTION
8705BSYS	Quip-Mist 5 Gallon Bulk Feed System(Includes 870005NC Five Gallon Quip-Mist)



QUIP-MIST
ANTI-SPATTER

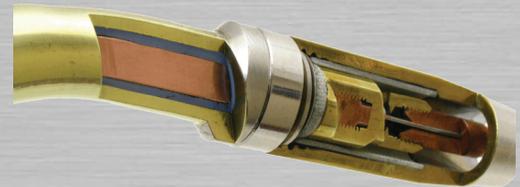
AMERICAN WELDQUIP OEM REPLACEMENT GOOSENECKS

For Use with Genuine American Weldquip Consumables

American Weldquip's competitive goosenecks are designed for fast and easy replacement of existing OEM competitive Robotic or Semi-Automatic styles. Once changed out you will begin to experience the durability and improved performance that you can expect from all American Weldquip products.



- ✓ Custom Fit - Exact Replacement Of Competitive Brand Goosenecks. TCP Is Duplicated and Maintained To Specifications On Robotic Goosenecks.
- ✓ Increased Durability - All Replacement Goosenecks Offer A Heavy-Duty, More Durable Design Than The OEM Originals.
- ✓ Increased Performance - Together, Our Unique Gooseneck and Consumable Design Provides Improved Operating Performance and Long Consumable Life.
- ✓ "HEAT SINK" Gooseneck Heat Dissipation Management Technology.
- ✓ Extremely Durable, Heavy-Walled Gooseneck Design.
- ✓ Long Lasting, Cool Running Consumable Design.
- ✓ Heavy-Duty Thread-On Nozzle System - Provides Cooler Operation and A longer lasting Nozzle System. The Course Thread, Fixed Position Design Feature Ensures A Constant Tip To Nozzles Relationship and Consistent Welding Parameters.
- ✓ Common Consumable Platform - During Conversions To American Weldquip Torch Systems The Replacement Goosenecks Offer You Improved pPerformance On Competitive Torches and A Common Consumable Platform To Reduce Inventory Requirements.
- ✓ Special Designs, Custom Configurations - American Weldquip Will Custom Engineer A Gooseneck To Fit Your Specific Requirement. Custom-Designed Torches Can Normally Be Shipped In A Matter Of Days!
- ✓ Exact Semi-Automatic and Robotic Replacements Available For Binzel, Fronius, Lincoln, Tregaskiss, OTC, Panasonic, SKS, Bernard, Tweco and others.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



COMPETITIVE
GOOSENECKS



Whether you are looking at increasing consumables life on a competitive brand torch or to commonize consumables during a conversion of your plant to American Weldquip torches you can enjoy the benefits of the Weldquip ADVANTAGE. Our uniquely designed goosenecks and consumables act together to give you the performance and durability you require.

AMERICAN WELDEQUIP COMPETITIVE GOOSENECKS

HOW TO ORDER

SEMI-AUTOMATIC GOOSENECKS

AWQ PART NUMBER	TORCH MODEL	AMPERAGE	TYPE	GOOSENECK BEND ANGLE	DESCRIPTION
75004440	BINZEL®	360	AC	45	MB-36
75004049	BERNARD®	300/400	AC	60	Q SERIES, S SERIES, EZ FEED -300 (QT3-60)
75005100	BERNARD®	500/600	AC	60	F SERIES REPLACEMENT
GFRO3403501853-AWQ	FRONIUS®	400	WC	22	AL3000/AW4000
GFRO44.0350.3173	FRONIUS®	500	WC	45	MTB 500
75004046	LINCOLN®	300	AC	45	SP-250, 45°
75003059	LINCOLN®	300	AC	60	MAGNUM 300, 60°
75003060	LINCOLN®	300	AC	45	MAGNUM 300, 45°
75004060	LINCOLN®	400	AC	60	MAGNUM 400, 60°
75004061	LINCOLN®	400	AC	45	MAGNUM 400, 45°
75004075	LINCOLN®	450	AC	60	MAGNUM PRO, 60°
G199625A	MILLER®	300/400	AC	50	ROUGHNECK 300/400 AMP (199625)
400M-PPA	MILLER®	400	AC	180	XR-30 AIR-CLD REPLACEMENT NECK
75003050	TREGASKISS®	300	AC	60	300 AMP
75004058	TREGASKISS®	400	AC	60	400 AMP, (NEW STYLE 407 BODY - HEX CRIMP)
75005059	TREGASKISS®	500	AC	60	500 AMP
75003040	TWECO®	300	AC	45	TWECO #3
75003045	TWECO®	300	AC	60	TWECO #3
75004040	TWECO®	400	AC	60	TWECO #4
75004044	TWECO®	400	AC	60	TWECO SPRAYMASTER
75004045	TWECO®	400	AC	45	TWECO #4
75004048	TWECO®	300	AC	60	TWECO SPRAYMASTER
75004450	TWECO®	450	AC	60	TWECO SUPRA
75005040	TWECO®	500	AC	60	TWECO #5

ROBOTIC GOOSENECKS

AWQ PART NUMBER	TORCH MODEL	AMPERAGE	TYPE	GOOSENECK BEND ANGLE	DESCRIPTION
300R-30RS-FUJI	BINZEL®	300	AC	30	FUJI MODEL REPLACEMENT NECK
GBIN-R5A-45	BINZEL®	500	AC	45	MODEL R5A
GBIN980.0269.1	BINZEL®	400	AC	50	BINZEL G360
GDHN-L6587D	DAIHEN®/OTC®	350	AC	45	350 AMP A/C OTC/DAIHEN REPLACEMENT NECK
300R-45RS-DHN	DAIHEN®/OTC®	300	AC	45	300 AMP A/C OTC/DAIHEN REPLACEMENT NECK
300R-45RS-DHN-K	DAIHEN®/OTC®	300	AC	45	300 AMP A/C OTC/DAIHEN KEYED REPLACEMENT NECK
400R-45-DHN	DAIHEN®/OTC®	400	AC	45	400 AMP A/C OTC/DAIHEN REPLACEMENT NECK
400R-45-DHN-K	DAIHEN®/OTC®	400	AC	45	400 AMP A/C OTC/DAIHEN KEYED REPLACEMENT NECK
450R-22RS-DHN	DAIHEN®/OTC®	450	WC	22	450 AMP A/C OTC/DAIHEN REPLACEMENT NECK
450R-22RS-DHN-K	DAIHEN®/OTC®	450	WC	22	450 AMP A/C OTC/DAIHEN KEYED REPLACEMENT NECK
450R-45-DHN	DAIHEN®/OTC®	450	WC	45	400 AMP A/C OTC/DAIHEN REPLACEMENT NECK
450R-45-DHN-K	DAIHEN®/OTC®	450	WC	45	400 AMP A/C OTC/DAIHEN KEYED REPLACEMENT NECK
GFRO34.0350.2150	FRONIUS®	400	AC	22	FRONIUS REPLACEMENT NECK
GFRO44.0350.2348	FRONIUS®	400	AC	45	FRONIUS REPLACEMENT NECK
GFRO44.0350.2878	FRONIUS®	400	AC	36	FRONIUS REPLACEMENT NECK
GFRO44.0350.3173	FRONIUS®	400	AC	45	FRONIUS REPLACEMENT NECK
400R-45-LIN	LINCOLN®	400	AC	45	LINCOLN REPLACEMENT NECK
400R-45L-LIN	LINCOLN®	400	AC	45	LONG A/C LINCOLN REPLACEMENT NECK
300R-30RS-PANA	PANASONIC®	300	AC	30	PANASONIC REPLACEMENT NECK
300R-30RS-PANA-K	PANASONIC®	300	AC	30	PANASONIC KEYED REPLACEMENT NECK
400R-30-PANA	PANASONIC®	400	AC	30	PANASONIC REPLACEMENT NECK
400R-30-PANA-K	PANASONIC®	400	AC	30	PANASONIC KEYED REPLACEMENT NECK
GPAN-4A07111	PANASONIC®	300	AC	30	PANASONIC REPLACEMENT NECK
GPAN-TCX00168	PANASONIC®	400	AC	20	PANASONIC KEYED REPLACEMENT NECK
300R-22-TRG	TREGASKISS®	300	AC	22	TREGASKISS REPLACEMENT NECK
400R-22-TRG	TREGASKISS®	500	AC	22	TREGASKISS REPLACEMENT NECK
400R-22G2-TRG	TREGASKISS®	500	AC	22	TREGASKISS G2 SERIES REPLACEMENT NECK
400R-45-TRG	TREGASKISS®	500	AC	45	TREGASKISS REPLACEMENT NECK
GTRE405-22QCL	TREGASKISS®	500	AC	22	TREGASKISS REPLACEMENT
GTRE405-45QCL	TREGASKISS®	500	AC	45	TREGASKISS REPLACEMENT NECK
GTRE59G45L	TREGASKISS®	500	AC	45	G2 SERIES TREGASKISS REPLACEMENT NECK
GTRE59G45L+200	TREGASKISS®	500	AC	45	G2 SERIES +200mm TREGASKISS REPLACEMENT NECK

NOTE: Goosenecks are not shipped with consumables. Nozzles, Contact Tips, Gas Diffusers and Insulators must be ordered separately.

AMERICAN WELDKUIP AIR-COOLED SEMI-AUTOMATIC SMOKE EXTRACTION WELDING TORCHES

300A, 400A AND 500 AMP Series

The American Weldquip smoke extraction torches are available in 300, 400, and 500 amp models and are designed for superior weld smoke removal. All models are air-cooled, lightweight, durable, well balanced, and flexible and effectively remove 90% of smoke at the weld zone.

Designed around our robust air-cooled torch line the 347, 407, and 507 offer some of the most desired welder appeal features. From the ergonomic handle design, rotating vacuum hose connection, and adjustable vacuum control, to the lightweight and balanced feel, the design optimizes welder comfort.

The 347, 407, and 507 are designed with you and your welders in mind, to reduce your cost of ownership over other competitive smoke extraction guns on the market today.

The American Weldquip air-cooled smoke extraction MIG welding torches can provide your welders and your company

- Improved work environment
- Reduced operator fatigue
- Increased consumable life
- Reduced downtime
- Lower maintenance costs

ADJUSTABLE VENT CONTROL

Adjustable vacuum suction/air flow volume for precise control of fume collection effects.

ADJUSTABLE FUME NOZZLE

For adjustable front-end control over smoke collection area.

- ✓ Captures Up To 90% Of Weld Zone Smoke.
- ✓ Lightweight, Flexible Vacuum Design Hose.
- ✓ Rotating Vacuum Hose Connection.
- ✓ Adjustable Vacuum Chamber and Fume Nozzle
- ✓ "HEAT SINK" Gooseneck Heat Dissipation Management Technology.
- ✓ Extremely Durable, Heavy-Walled Gooseneck Design.
- ✓ Long Lasting, Cool Running Consumable Design.
- ✓ Heavy-Duty Thread-On Nozzle System.
- ✓ Common Consumable Platform Across All American Weldquip Torches.
- ✓ Manufactured By American Weldquip In Sharon Center, Ohio So You Are Always Guaranteed Of Quality You Can Trust.



ERGONOMIC HANDLE DESIGN

Durable break resistant material. Offers optimum balance for less fatigue. Rotating vacuum hose connection for reduced rotational resistance designed to improve operator comfort.

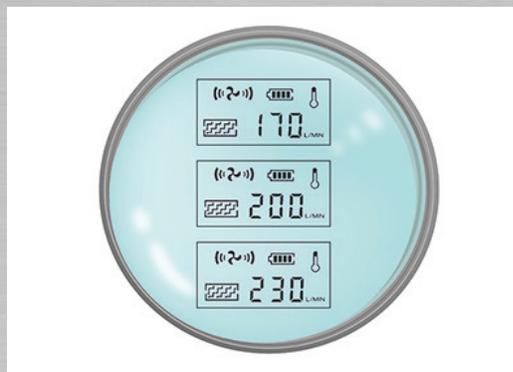
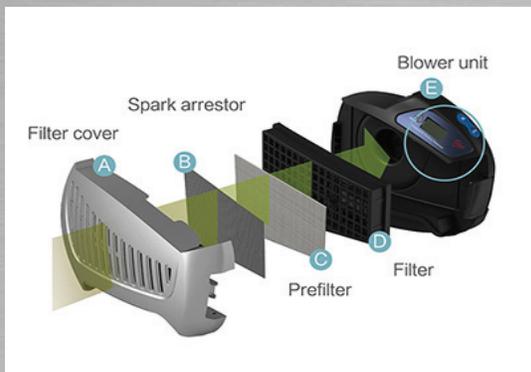
AMERICAN WELDEQUIP BREATH-CLEAN PAPR POWERED AIR PURIFYING RESPERATORS

The BREATH CLEAN is a PAPR Powered Air Purifying Respirator system which supplies clean, filtered, purified air during welding operations. If you are looking to help safe guard welders from potentially dangerous welding fumes the American Weldquip Breath-Clean PAPR Powered Air Purifying Respirator and helmet system can help control and prevent exposure to these fumes. The American Weldquip Breath-Clean PAPR offers a complete system that brings filtered ambient air from your shop and delivers it through the welding helmet. This keeps dangerous welding fumes from the breathable area of the welder. In addition, the flow of the filtered air helps keep welders cool under the helmet.

Other notable features include the battery, which provides as much as 8 hours of filtered breathable air. The large 3.25 x 4 auto darkening lens gives the welder a large viewing area. In addition, the ADF lens is adjustable for Grinding, and welding shades from #3 through 13.



- ✓ Adjustable 3 Level Air Flow Control (170, 200 and 230 lpm).
- ✓ Delivers Continuous Filtered Purified Air Flow.
- ✓ Various Warning for Low Battery, Low Air Flow.
- ✓ Light Weight and Comfortable. Blower Units Light Weight and Slim Design is Comforable and Allows for unrestricted movements.
- ✓ ADF Auto Darkening Lens with Tru Color.
- ✓ Large 3.25" x 4" ADF Auto Darkening Lens.
- ✓ Weld Shade Adjustable from #3 to #13 and Grind Function.
- ✓ Quick Release Padded Belt and Shoulder Straps.
- ✓ CE Certified
- ✓ Supplied With Two Lithium-Ion Rechargeable Batteries.
- ✓ 8 Hours Life From Each Battery.



AMERICAN WELDEQUIP SMOKE EXTRACTION TORCHES

STANDARD TORCH CONFIGURATIONS

TORCH SERIES	DESCRIPTION	STD TIP SIZE	CONTACT TIP	DIFFUSER	NOZZLE BORE SIZE	NOZZLE	INS. WASHER	LINER	GOOSENECK ANGLE
347SM	300 A Smoke Torch	.045(1.2mm)-M6	75045511	75002007	5/8"(15.9mm)	75146204-I	75001005	750XX222T	60°
407SM	400 A Smoke Torch	.045(1.2mm)-M8	75045014	75004033	5/8"(15.9mm)	75146202	75001004	750XX228T	60°
500SM	500 A Smoke Torch	.045(1.2mm)-M8	75045014	75004033	5/8"(15.9mm)	75146202	75001004	750XX228T	60°

TORCH RATINGS

MODEL	RATED AMPERAGE	60% DUTY CYCLE		100% DUTY CYCLE	
		CO2	Mixed Gas (ArCo2)	CO2	Mixed Gas (ArCo2)
347SM	300	300A	270A	270A	250A
407SM	400	400A	350A	350A	325A
500SM	500	510A	475A	500A	450A

HOW TO ORDER

TORCH SERIES **LENGTH** **FEEDER PIN**
EXAMPLE: 407SM 15 T5
 * Specify wire size and or special configuration when ordering if not standard.
 Consult website: www.weldquip.com, factory or AWQ Representative for assistance with part number configuration.

WIRE FEEDER PIN OPTIONS
 B - EURO L - LINCOLN® (LN7 STYLE) M - MILLER®
 D - OTC®/DAIHEN® LU- LINCOLN® UNIVERSAL P - PANASONIC®
 DP - OTC®/DAIHEN® DP SERIES TL - LINCOLN® POWER FEED 10 T - TWECO®/HOBART® #4
 K - KOBELCO® W - LINCOLN® WIREMATIC T5 - TWECO® #5

AMERICAN WELDEQUIP BREATH-CLEAN PAPR SYSTEM

SPECIFICATIONS

PAPR	WELDING HELMET
-Switch - 3 Airflow Levels, On/Off, Automatic Shutdown	-View Area - 3.25" x 4"
-Nominal AirFlow - Level 1: 170L/min, Level 2: 200L/min, Level 3: 230L/min.	-ADF Auto Darkening Lens with True Color
-Filtration Level - TH2 PR SL	-Optical Class 1/1/1/1 (per EN 379)
-Filter Efficiency - 99.996% @ 0.3um	-Replacement Lens - Standard 4 x 5
-Noise Level Max 70dB	-ADF Filter Size - 4.5in. x 5.25in (114mm x 133mm)
-LCD Display - Airflow Level and Data, Battery Life, Filter Status	-Number Of Sensors - 4
-Battery Type Rechargeable Li-ION 4400mAh	-Light Sensitivity Control - Continuous
-Expected Battery Operation Time Level 1>8h, Level 2>6h, Level 3>4h	-Power - Replaceable lithium battery
-Battery Charging Time 3.5 Hours	-Light To Dark Switching Time - 0.08ms
-Warnings(Audible and Vibration) - Low Battery, Plugged Filter, Low Air Flow, High Battery Temperature	-Grind Function - Yes
-Noise Level - Max. 73db	-Variable Shade Adjustable - #3 to #13
-Operating Temperature - 23°F to 131°F (-5°C~55°C)	-Sensitivity - Adjustable
-Belt Size 35-2/5 x 51-2/5 in. (900mm to 1300mm)	-Delay Time - Adjustable 0.1 sec. min. - 0.9 sec. max
-Blower Size - 9-2/5 x 6-1/2 x 2-3/4 in. (240 x 165 x 70 mm)	-Low Battery Indicator - Yes
-Blower Weight - 5.2 lbs (2.4KG)	-Magnifying Lense Capable - Yes
	-Compliance ANSI Z87.1-2010, CSA Z94.3, CE
	-Operating Temperature - 14 - 149 deg. F (-10-65 deg. C)
	-Storage Temperature - -4 - 185 deg. F (-20-85 deg. C)

HOW TO ORDER

PART NUMBER	DESCRIPTION
PAR-1004	BREATH-CLEAN PAPR Powered Air Purifying Respirator System
Includes: Breath-Clean ADF Welding Helmet, Powered PAPR Filtered Blower Unit, HEPA Filter, Prefilter, Spark Arrestor, Padded Belt, Shoulder Straps, Breathing Tube and Cover (2) Clear Cover Lens, (2) Lithium Ion Batteries, Battery Charger, Flow Meter, Tool Bag	

SPARE PARTS

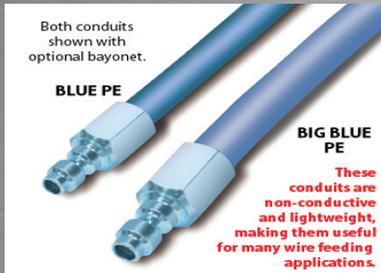
PAPR BLOWER UNIT		ADF WELDING HELMET	
PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
PAR-5001	Filter Cover	PAR-1050	Breath-Clean ADF Welding Helmet
PAR-5002	HEPA Filter	PAR-1075	Clear Lens
PAR-5003	Prefilter	PAR-1080	ADF Auto Darkening Unit
PAR-5004	Spark Arrestor	PAR-1081	ADF Cradle
PAR-5005	Blower Unit	PAR-1082	ADF Inner Protective Lens Holder
PAR-5006	Rechargeable Li-Ion Battery	PAR-1082	Face Seal
PAR-5007	Breathing Tube and Cover	PAR-1083	Head Gear/Air Duct
PAR-5008	Padded Waist Belt		
PAR-5009	Shoulder Strap		
PAR-5010	Air Flow Tester		
PAR-5011	Battery Charger		
PAR-5012	Storage Bag		

How To Order
SMOKE EXTRACTION
PAPR SYSTEMS

AMERICAN WELDQUIP WIRE CONDUIT

WIRE CONDUIT
BLUE/ECR

WIRE CONDUIT



✓ BLUE PE & BIG BLUE PE CONDUIT

Blue PE and Big Blue PE Conduits are designed for soft electrodes and mild steel electrode used at high deposition rates. These non-conductive conduits are lightweight, making them useful for many wire feeding applications.

NON-METALLIC CORE:

Made from high density polyethylene with outstanding mechanical properties and inherent lubricity. No metal core is used in the manufacture of these conduits which is ideal for obtaining x-ray quality welds. Especially useful when welding with aluminum or other exotics, as no metal is available to contaminate the weld. The hard polymer interior reduces drag and promotes smooth feeding.



✓ ERC® & ERC-HD® CONDUIT

The ERC® (Extended Reach Conduit) and ERC-HD® (Heavy-Duty) Conduits are both designed for extended run lengths. They resist wear and reduce feed pressure due to their limited bending. Ideal for stationary applications, they will not stretch or compress, and are electrically insulated.

FLAT WIRE MONOCOIL CORE - The flat wire monocoil core is precision wound from long-lasting, high carbon, hardened steel spring wire for a longer, productive life. Manufactured to larger I.D. clearances which is especially useful in reducing wire drag.

POLYETHYLENE INSULATING JACKET - The thick wall extruded polyethylene jacket reinforces the wire monocoil while limiting bending and resisting "snaking" conditions caused by electrode cast. Superior wire transfer is accomplished due to this reinforcement over long distances with minimal bends.

HOW TO ORDER

LENGTH	BLUE PE PART NUMBER	BIG BLUE PART NUMBER
100' (30.48m)	A-2050-100	A-2051-100
250' (76.20m)	A-2050-250	A-2051-250
500' 304.80m)	A-2050-500	A-2051-500

LENGTH	ECR® PART NUMBER	ECR-HD® PART NUMBER
100' (30.48m)	A-2048-100	A-2049-100
250' (76.20m)	A-2048-250	A-2049-250
500' 304.80m)	A-2048-500	A-2049-500

STRAIN RELIEFS



A-1811-1 - QCI INSULATOR Non-Conductive. Withstands spatter, melting and high temperature of the welding environment. Slides over connectors to insulate and isolate fittings.



A-1873-2 Strain Relief 12" (30cm)
A-1873-1 Strain Relief 48" (121cm)
 Heavy walled rubberized, heat activated tubing provides additional strain relief reinforcement. Can be field installed or factory installed.



SPECIFICATIONS

BIG BLUE PE Conduit:

Recommended for use with soft solid welding electrodes up to 1/16" (1.6mm) diameter and other comparably sized mild steel electrodes. It is not recommended to bend it less than a 16" (40.6cm) radius. Tighter bends may result in increased wire drag and conduit wear.

BLUE PE - .312"(7.9mm) I.D., .460"(11.7mm) O.D

BIG BLUE PE - .400"(10.2mm) I.D., .600"(15.3mm) O.D.

Fitting termination is easily applied by the distributor or end user by cutting to length with a sharp knife or razor and applying the appropriate bayonet.

ERC® - .312"(7.9mm) I.D., .625"(15.9mm) O.D

ECR-HD® - .357"(9.0mm) I.D., .750"(19.1mm) O.D

FLAT WIRE MONOCOIL CORE - The flat wire monocoil core is precision wound from long-lasting, high carbon, hardened steel spring wire for a longer, productive life. Manufactured to larger I.D. clearances which is especially useful in reducing wire drag.

POLYETHYLENE INSULATING JACKET - The thick wall extruded polyethylene jacket reinforces the wire monocoil while limiting bending and resisting "snaking" conditions caused by electrode cast. Superior wire transfer is accomplished due to this reinforcement over long distances with minimal bends.

AMERICAN WELDQUIP WIRE CONDUIT

WIRE CONDUIT



QCC® & QCC-HD® CONDUIT

The QCC® (Quick Connect Conduit) and QCC-HD® (Heavy-Duty) Conduits are constructed to withstand the continuous flexing associated with today's automatic or semi-automatic applications. These conduits are excellent for many "push" systems where the electrode wire is pushed from the feeder to the welding head. They will not stretch or compress, and are electrically insulated.

QCC® Conduit:

Recommended for delivery of solid welding electrodes up to 3/32" (2.4mm) diameter, or cored wires up to 5/64" (2.0mm). Although the QCC® Conduit will bend into a very tight radius, to maintain quality performance it is not recommended to bend it less than a 10" (25.4cm) radius.

QCC-HD® Conduit:

Recommended for delivery of solid welding electrodes up to 1/8" (3.2mm) diameter, or cored wires up to 7/64" (2.8mm). Although the QCC-HD® Conduit will bend into a very tight radius, to maintain quality performance, it is not recommended to bend it less than a 16" (40.6cm) radius.

QCC-R® CONDUIT

The QCC-R® (Radius Duty) is an extremely flexible conduit which combines the reliability of a steel monocoil core with the flexibility of an unreinforced conduit system. It is ideal for applications where a tight bend is necessary, such as in the interior of an articulating arm and confined booms. They have limited stretch and are electrically insulated. Not recommended for "Push" applications.



HOW TO ORDER

LENGTH	QCC® PART NUMBER	QCC-HD® PART NUMBER	QCC-R® PART NUMBER
24" (0.61m)	QCC24	NA	QCC-R24
30" (0.76m)	QCC30	NA	QCC-R30
36" (0.91m)	QCC36	NA	QCC-R36
48" (1.22m)	QCC48	NA	QCC-R48
60" (1.52m)	QCC60	NA	QCC-R60
72" (1.83m)	QCC72	QCC-HD72	QCC-R72
84" (2.13m)	QCC84	QCC-HD84	QCC-R84
96" (2.44m)	QCC96	QCC-HD96	QCC-R96
108" (2.74m)	QCC108	QCC-HD108	QCC-R108
120" (3.05m)	QCC120	QCC-HD120	QCC-R120
144" (3.66m)	QCC144	QCC-HD144	QCC-R144
180" (4.57m)	QCC180	QCC-HD180	QCC-R180
240" (6.10m)	QCC240	QCC-HD240	QCC-R240
300" (7.62m)	QCC300	QCC-HD300	QCC-R300
BULK	90' Length -# A-2046	90' Length -# A-2047	100' Length -# A-2052

STRAIN RELIEFS



A-1811-1 - QCI INSULATOR Non-Conductive. Withstands spatter, melting and high temperature of the welding environment. Slides over connectors to insulate and isolate fittings.



A-1873-2 Strain Relief 12" (30cm)
A-1873-1 Strain Relief 48" (121cm)
 Heavy walled rubberized, heat activated tubing provides addition strain relief reinforcement. Can be field installed or factory installed.



SPECIFICATIONS

QCC® & QCC-HD® - QCC - .198"(5.0MM) I.D., .500"(12.7MM) O.D./ QCC-HD - .265"(6.7MM) I.D., .625"(15.9MM) O.D.

The core is reinforced with multiple strands of preformed high carbon, high tensile steel wire, which permits flexibility, prevents kinking, and reduces fatigue failures associated with single wire unreinforced conduit constructions. The flat wire monocoil core is precision wound from long-lasting, high carbon, hardened steel spring

QCC-R® - .198"(5.0MM) I.D., .510"(13MM) O.D. -

The high carbon, monocoil, round wire metal coiled core provides greater flexibility while maintaining resistance to wear and corrosion. Reinforced by a tightly extruded polyester coating reduces monocoil stretch while maintaining flexibility.

QCC®, QCC-HD® and QCC-R® conduits can be furnished cut to length as a complete assembly with swaged-on male bayonet terminations at each end allowing a quick connection into our extensive line of connectors and adaptor kits. Bulk conduit is available in 90' (27.4m) for QCC®, QCC-HD® and 100' (30.48m) for QCC-R® lengths allowing the bulk conduit to be cut to any desired length and field terminated with a respective QCC® or QCC-HD® Connector, reducing the necessity to stock random lengths.

AMERICAN WELDEQUIP WIRE CONDUIT DURA DOMES

WIRE CONDUIT
DURA-DOMES

Dura-Domes® For Fast N Easy Electrode Payout

DURA-DOMES® protect the operator from accidental contact with the electrode. The electrode is kept clean - repelling grinding dust, slag, spatter, and other airborne contaminants, while providing an economical payout of your welding electrode.

- ✔ **CLEAR DURA-DOMES® Allow 360° View "At A Glance"**
 Widely used by industry, the clear plastic cover allows "At A Glance" inspection of the electrode with a full 360° view. Constructed of impact-resistant clear plastic, the unit resists cracking and breakage.
- ✔ **FAST 'N EASY® INSTALLATION**
 No tools are needed to install Dura-Domes® on fiber drums or square box. Dura-Domes® are designed for use on popular carton sizes world-wide.
- ✔ **ACCESSIBILITY**
 All Dura-Domes® have a clear access/inspection flap that allows access and viewing of the electrode without removing the dome. Heavy-duty insulated rivets keep the flap safely in place.
- ✔ **PE HEAVY-DUTY DURA-DOME®**
 Precision formed Black PE Dura-Dome® is constructed of high density Polyethylene plastic that resists cracking and breakage for extended service life. A clear access/inspection flap is provided to view the electrode.



HOW TO ORDER



DESCRIPTION	PART NUMBER	FOR USE WITH
Dura-Dome 20" Clear	A-1669	20 3/16" (51.3cm) to 20 1/2" (52.1cm) Fiber Reinforced Drum
Dura-Dome 23" Clear	A-1688	23 3/16" (58.9cm) to 23 1/2" (59.7cm) Fiber Reinforced Drum
Dura Dome 26" Clear	A-1942	25 3/4" (65.4cm) to 26 3/8" (67.0cm) Fiber Reinforced Drum
Dura-Dome Black PE 20"	A-2000	20 3/16" (51.3cm) to 20 1/2" (52.1cm) Fiber Reinforced Drum
Dura-Dome 500 Square Clear	A-2025	20" (50.8cm) to 20 1/2" (52.1cm) Square Box

DURA-DOME® REFERENCE GUIDE

MANUFACTURER	PACKAGING	DOMES RECOMMENDATION	MANUFACTURER	PACKAGING	DOMES RECOMMENDATION
AIR LIQUIDE	500# ROUND	DURA-DOME 20"	LINCOLN	500# ROUND	DURA-DOME 20"
	900# ROUND	DURA- DOME 23"		≥600# ROUND	DURA- DOME 23"
ARCOS	250# ROUND	DURA-DOME 20"	MCKAY	500# SQUARE	DURA- DOME 500
	500# ROUND	DURA- DOME 20"		≤500# ROUND	DURA-DOME 20"
ARCTECH	250KG (500#) ROUND	DURA-DOME 23"	NATIONAL STANDARD	≥600# ROUND	DURA- DOME 23"
				400# ROUND	DURA-DOME 20"
				500# ROUND	DURA- DOME 20"
BOHLER	250KG (500#) ROUND	DURA-DOME 20"	PARAMOUNT	900# ROUND	DURA- DOME 23"
				500# ROUND	DURA-DOME 20"
EAGLE	500# ROUND	DURA-DOME 20"	PROSTAR-PRAXAIR	1000# ROUND	DURA- DOME 26"
				275# SQUARE	DURA-DOME 500
ESAB	500# ROUND	DURA-DOME 20"	SANDVIK	550# SQUARE	DURA- DOME 500
	900# ROUND	DURA- DOME 23"		600# ROUND	DURA-DOME 20"
GOLS	500# ROUND	DURA-DOME 20"	THERMAL ARC	500# ROUND	DURA-DOME 20"
	1000# ROUND	DURA- DOME 26"		830# ROUND	DURA- DOME 23"
HARRIS WELCO	150# ROUND	DURA-DOME 20"	TRI-MARK	400# ROUND	DURA-DOME 20"
	250# ROUND	DURA- DOME 20"		600# ROUND	DURA- DOME 23"
	500# ROUND	DURA- DOME 20"			
HOBART	250# (TUBULAR) ROUND	DURA-DOME 23"	WASHINGTON ALLOY	(500#) ROUND	DURA-DOME 20"
	400# (TUBULAR) ROUND	DURA- DOME 20"			
	500# (SOLID) ROUND	DURA- DOME 20"			
	600# (SOLID) ROUND	DURA-DOME 20"			
	600# (TUBULAR) ROUND	DURA- DOME 23"			
HYUNDAI	750# (SOLID) ROUND	DURA- DOME 23"	WELDMARK	500# ROUND	DURA-DOME 20"
	250KG (550#) ROUND	DURA-DOME 20"		1000# ROUND	DURA- DOME 23"
KOBELCO	300KG (660#) ROUND	DURA- DOME 26"			
	200KG (400#) ROUND	DURA-DOME 20"			
	250KG (550#) SQUARE	DURA-DOME 20"			

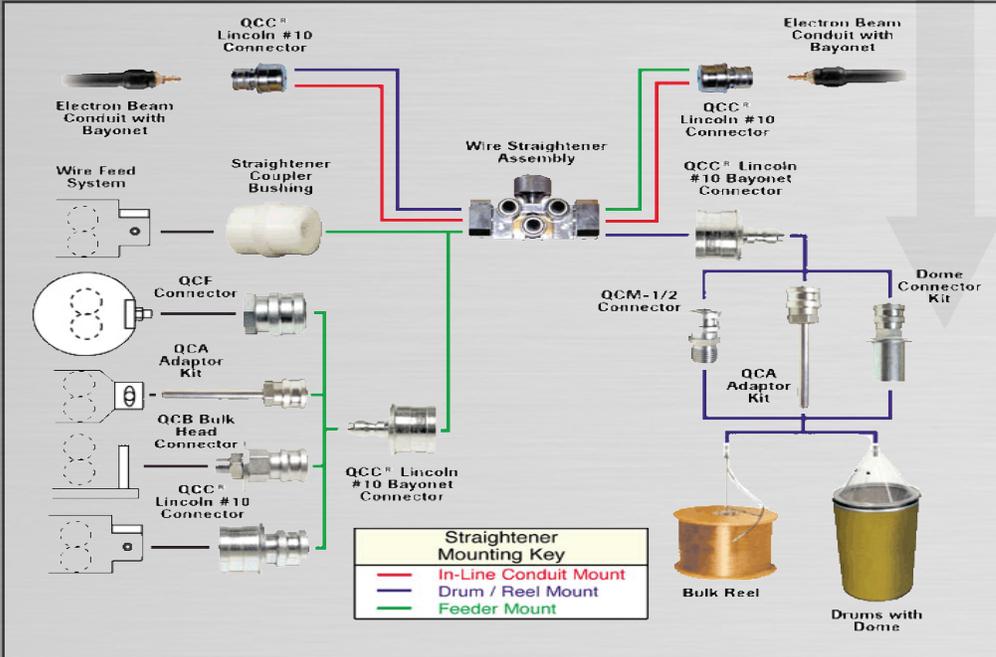
AMERICAN WELDQUIP WIRE CONDUIT ACCESSORIES



STRAIGHT N EASY® WIRE STRAIGHTENER

- ✔ Straightens Welding Wire Electrode for Easy Feeding and Precise Positioning. Can be used to load welding electrode for better "wire to tip" contact.
- ✔ Modular Design Easily Adapts To Wire Feeders, Pay-Out Systems, Or In-Line With Conduits. Remote Mounting In Any Location. Join Two Or More Straighteners Together For Greater Effect.
- ✔ Compact and Lightweight.
- ✔ Electrically Isolated Ball Bearing Straightening Rolls For All Types Of Welding Electrodes From .023"(0.6mm) To 1/8"(3.2mm) Diameter. Requires Adaptors For Quick Disconnect Set Up.

TYPICAL WIRE STRAIGHTENER CONNECTIONS DIAGRAM

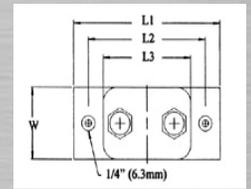
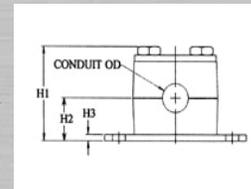
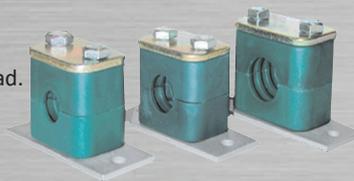


HOW TO ORDER

PART #	DESCRIPTION
A-1932	STRAIGHT N EASY® WIRE STRAIGHTENER
A-2251	HEAVY-DUTY STRAIGHT N EASY® WIRE STRAIGHTENER

CONDUIT CLAMPS

- ✔ Secures Conduits, Limiting Movement and Abrasion.
- ✔ Reduces Flexing and Fatigue At Connections; Distributes Load.
- ✔ Retains Conduit Position For Faster Wire Changes.
- ✔ Electrically Isolates Conduit From Mounting.
- ✔ Allows Precise Conduit Mounting.



HOW TO ORDER

DESCRIPTION	PART #	COMPARIBLE CONDUIT	L1	L2	L3	W	H1	H2	H3
QCC CONDUIT CLAMP - 1/2	A-1939-1/2	QCC/BLUE PE QCC-R	2 3/4" (70mm)	2 13/64" (56mm)	1 21/32" (42mm)	1 3/16" (30mm)	1 11/16" (43mm)	3/4" (19mm)	7/64" (3mm)
QCC CONDUIT CLAMP - 5/8	A-1939-5/8	QCC-HD/ERC/BIG BLUE PE	2 3/4" (70mm)	2 13/64" (56mm)	1 21/32" (42mm)	1 3/16" (30mm)	1 11/16" (43mm)	3/4" (19mm)	7/64" (3mm)
QCC CONDUIT CLAMP - 3/4	A-1939-3/4	ERC-HD	3 5/64" (78mm)	2 33/64" (64mm)	1 31/32" (50mm)	1 3/16" (30mm)	1 13/16" (46mm)	13/16" (20.6mm)	7/64" (3mm)



HOW TO ORDER

PART #	DESCRIPTION
A-1937	EASY BALANCE

EASY BALANCE

- ✔ Zero Gravity Effect With Constant Balance Through The Cycle. Not A Spring Retractor.
- ✔ Reduces Conduit Whipping.
- ✔ Reduces Stress On Associated Equipment.
- ✔ Prevents Kinking Of Conduit.
- ✔ Retracts To The Same Position Without Over Travel.
- ✔ Long 4' (1.2m) Retract Range.
- ✔ Handles Most Applications With A 2.5 lbs. (1.1kg) Load Capacity.

AMERICAN WELDQUIP WIRE CONDUIT CONNECTORS AND ADAPTOR KITS



- ✓ Choose From A Wide Variety Of Connectors and Adaptor Kits To Fit Numerous Wire Feeders and Applications.
- ✓ QBC Bulk Head Connectors
- ✓ QCC Coupler
- ✓ QCC, QCC-HD, QCC-R Conduit Connectors
- ✓ ECR and ERC-HD Conduit Connectors
- ✓ Wire Feeder QCA Adaptor Kits
- ✓ Dura-Dome Connectors
- ✓ Straight "N Easy Wire Straightener Feeder Connectors
- ✓ Coupler Mounting Blocks

CONDUIT CONNECTORS

HOW TO ORDER

FOR USE WITH	PART NUMBER	DESCRIPTION		INCLUDES
QCC CONDUIT	A-1831	QCC CONNECTOR		A-1862 COMPRESSION NUT, A-1646 FERRULE, A-1645 BAYONET
QCC-HD CONDUIT	A-1832	QCC-HD CONNECTOR		A-1864-1 COMPRESSION NUT, A-1657 FERRULE, A-1656-1 BAYONET
ERC CONDUIT	A-2056	ERC CONNECTOR / BAYONET		A-1866 COMPRESSION NUT, A-1865 FERRULE, A-1829 CONNECTOR, A-1518 BAYONET
ERC-HD CONDUIT	A-2083	ERC-HD CONNECTOR / BAYONET		A-1868 COMPRESSION NUT, A-1867 FERRULE, A-1830 CONNECTOR, A-1518 BAYONET
BLUE PE	A-1962-1	BLUE PE THREAD-ON BAYONET		A-1962-1 BAYONET
	A-1975	BLUE PE COMPRESSION ASSY.		A-1864-2 COMP[RESSION NUT, A-1974 FERRULE, A-1656-2 BAYONET
BIG BLUE PE	A-1962-2	BIG BLUE THREAD-ON BAYONET		A-1962-2 BAYONET
	A-2056	ERC CONNECTOR AND BAYONET		A-1866 COMPRESSION NUT, A-1865 FERRULE, A-1829 CONNECTOR, A-1518 BAYONET

WIRE FEEDER CONNECTORS

FOR USE WITH	PART NUMBER	DESCRIPTION		INCLUDES
UNIVERSAL ADAPTOR KIT – FITS MOST US FEEDERS	A-1827-1	QCA ADAPTOR KIT		BUSHINGS - A-1517-4, 7/8"(22.0MM), A-1517-2, 3/4"(19.0MM), A-1517-6, 11/16"(17.5MM), A-1517-3, 5/8"(15.8MM), A-1517-1, 1/2"(12.7MM), A-1517-5, 15/32"(12.0MM)
FEEDERS WITH 3/8"(9.5MM) ID INLET X 2-11/16"(6.8CM) LONG	A-1985	QCA ADAPTOR		
MILLER R115 FEEDERS OR FEEDERS REQUIRING EXTENDED GUIDE TUBE- 3/8"(9.5MM) TO 7/8"(22MM) INLET X 4 7/16"(11.2CM) LENGTH	A-1827-3	ERC CONNECTOR / BAYONET		BUSHINGS - A-1517-4, 7/8"(22.0MM), A-1517-2, 3/4"(19.0MM), A-1517-6, 11/16"(17.5MM), A-1517-3, 5/8"(15.8MM), A-1517-1, 1/2"(12.7MM), A-1517-5, 15/32"(12.0MM)
LINCOLN® #10 SERIES WIRE FEEDERS; FITS INTO 1-1/4" (31.7MM) DIAMETER	A-1791	QCC LINCOLN #10 CONNECTOR		
FEEDERS WITH 1/4" NPT FEMALE INLET	A-1686	QCM – ¼ CONNECTOR		
FEEDERS WITH 1/2" NPT FEMALE INLET	A-1828	QCM – ½ CONNECTOR		
HOBART® OR EQUAL WITH 3/4"-16 FEMALE INLET	A-1883	QCM HOBART 2400 CONNECTOR		
FEEDERS WITH 1/2"-20 FEMALE INLET; CUSTOM ADAPTATIONS	A-1823	QCB BULK CONNECTOR		
FEEDERS WITH 1/4" NPT MALE INLET	A-1685	QFC CONNECTOR		

AMERICAN WELDEQUIP WIRE CONDUIT CONNECTORS AND ADAPTOR KITS

HOW TO ORDER

WIRE FEEDER CONNECTORS CONT.MISC. CONNECTORS

FOR USE WITH	PART NUMBER	DESCRIPTION		INCLUDES
FEEDERS WITH 3/8"-24 MALE INLET	A-1858	QFC CONNECTOR 3/8-24		
OTC® OR EQUAL WITH 7/16"-20 MALE INLET	A-1748	QFC OTC CONNECTOR 7/16-20		
HOBART® OR EQUAL WITH 1/2"-20 MALE INLET	A-1683	QFC HOBART CONNECTOR 1/2-20		
FEEDERS WITH M14X1 MALE INLET	A-1684	QFC METRIC CONNECTOR M14X1		
PANASONIC® OR EQUAL WITH 9/16"-18 MALE INLET.	A-1682	QFC PANASONIC CONNECTOR 9/16-18		

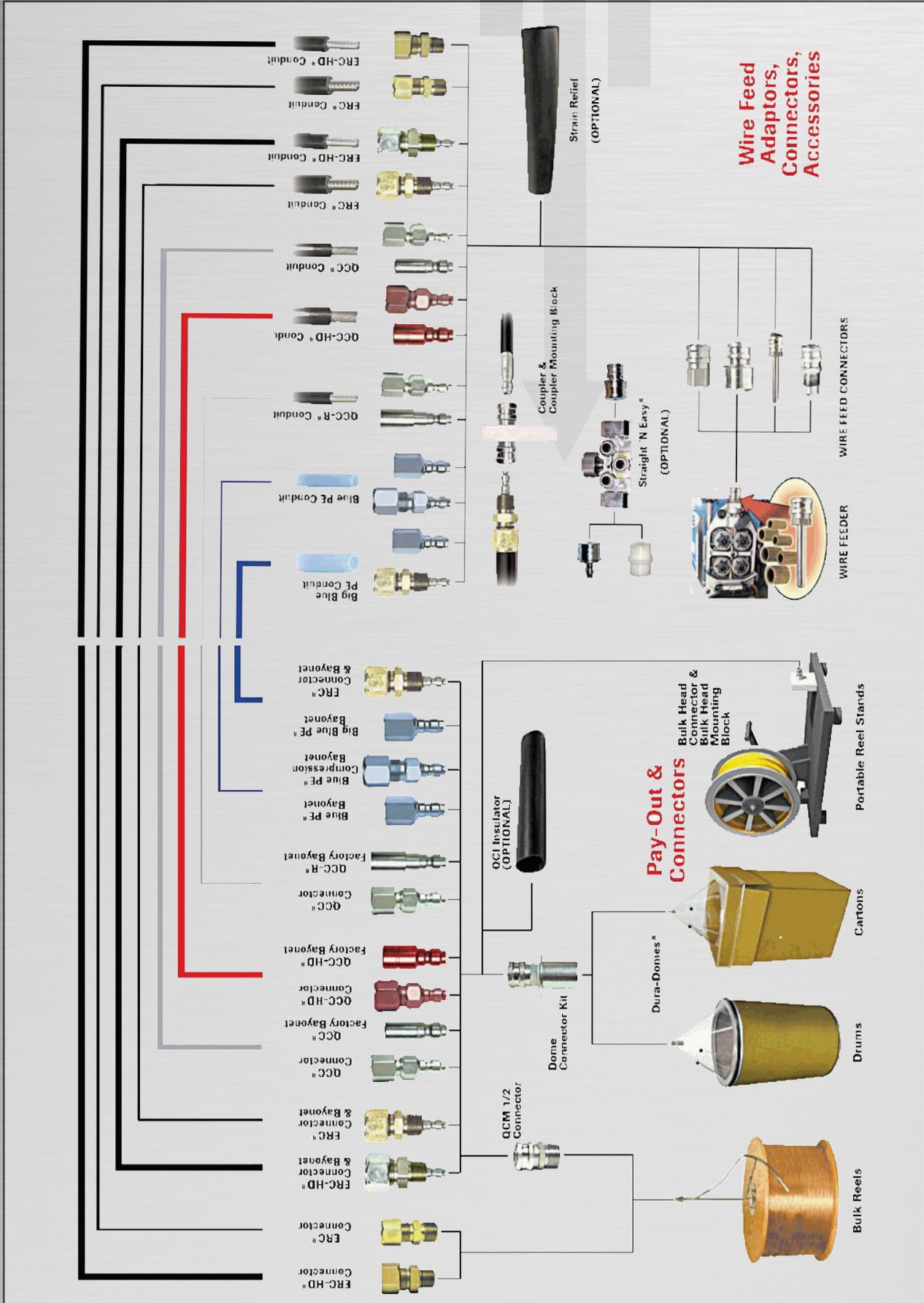
PAY-OUT CONNECTORS

FOR USE WITH	PART NUMBER	DESCRIPTION		INCLUDES
SOME DOMES WITH SET SCREWS. – SIZES 3/8"(9.5MM) TO 7/8"(22MM) DIAMETER	A-1827-1	QCA ADAPTOR KIT		BUSHINGS - A-1517-4, 7/8"(22.0MM), A-1517-2, 3/4"(19.0MM), A-1517-6, 11/16"(17.5MM), A-1517-3, 5/8"(15.8MM), A-1517-1, 1/2"(12.7MM), A-1517-5, 15/32"(12.0MM)
ALL DURA DOMES, MOST WIRE MANUFACTURER DOMES – SIZE 9/16"(14.3MM) TO 7/8"(22MM) DIAMETER	A-1826	DOME CONNECTOR KIT		
MOST DE-REELING ARMS WITH 1/2" NPT THREADS	A-1828	QCM-1/2 CONNECTOR		
OLDER DE-REELING ARMS WITH 1/4" NPT THREADS	A-1686	QCM-1/4 CONNECTOR		
ACCO® PAGE CONNECTIONS WITH 7/16" -20 THREADS	A-1748	QCF OTC CONNECTOR 7/16-20		
PANASONIC CONNECTIONS WITH 9/16"-18 THREADS	A-1682	QCF PANASONIC CONNECTOR 9/16-18		
PORTABLE REEL PAY-OUT – CUSTOMER EQUIPMENT	A-1823	QCB BULK HEAD CONNECTOR		

MISC. CONNECTORS

FOR USE WITH	PART NUMBER	DESCRIPTION	
REELS OR CUSTOM INSTALLATIONS WHERE THREADS ARE NOT PROVIDED	A-1823	QCB BULK HEAD CONNECTOR	
ISOLATES THE QBC BULK HEAD CONNECTOR	A-1825	BULK HEAD MOUNTING BLOCK	
EXTENDING CONDUIT SYSTEMS	A-1810	QCC COUPLER	
ELECTRICALLY ISOLATES AND REMOTELY MOUNTS QCC COUPLER	A-1824	COUPLER MOUNTING BLOCK	

AMERICAN WELDQUIP WIRE CONDUIT CONNECTOR FLOW CHART



AMERICAN WELDEQUIP TIG-POINT TUNGSTEN GRINDER

PATENT # 3305149

UNIQUE Longitudinal Tungsten Electrode Grinding and Precision Cut-Off All In One Machine

The TIG-Point system offers precision longitudinal grinding of tungsten electrodes for use in TIG and Plasma welding applications. Setup and grinding operations are quick, safe, and reliable. The TIG-Point can be configured for grinding, polishing and cutting providing longer tungsten life, consistent arc parameters and improved performance over other grinding methods.

TIG-POINT
TUNGSTEN GRINDER



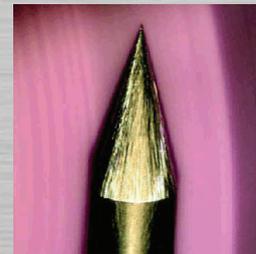
FEATURES

- ✓ Fast, safe and consistently reliable longitudinal tungsten point grinding.
- ✓ Tig-Point grinds, polishes and cuts Tungsten.
- ✓ Increased TIG and Plasma electrode Life.
- ✓ Universal guide for all standard electrode diameters and lengths.
- ✓ Portable, easy to handle.
- ✓ Adjustable grinding angle from 15° to 120°.
- ✓ Sharpens electrodes from .020"(.508mm) to 1/4"(6.35mm).
- ✓ Can grind electrodes as short as 5/8"(15.875mm).

Why Longitudinal Grinding?

In the manufacture of tungsten electrodes the molecular structure of the grain runs in a longitudinal direction. Lateral grinding has a detrimental effect on the smooth surface of the electrode.

The rough surface variations caused by lateral grinding causes the arc to wander and the tungsten to overheat causing undesirable weld arc characteristics and reduced tungsten life. By utilizing longitudinal grinding with the tungsten grain direction the arc is narrow and bell shaped and very stable. The tungsten electrode has a lower thermal load and therefore longer life.



SPECIFICATIONS

TIG-POINT –	120 Volt, 2 Amp, 1/10 HP
Tungsten Diameters -	.020(.508mm) to 1/4" (6.35mm)
Range of Angle –	15° - 120°
Minimum Electrode Length -	1-1/2"(38.1mm), Down to 5/8"(15.74mm) with optional support.
Revolutions Per Minute -	3450RPM
Vacuum System(Optional) –	120 Volt, 10Amp, 4.5 HP, 6 Gallon
Protection -	IP 54
Dimensions and Weights -	
Single Spindle	13.78" x 12.60" x 9.84" (35 x 32 x 25 cm) - 40 lbs. (18.0 kg)
Dual Spindle-	16.25" x 12.60" x 9.84" (41 x 32 x 25 cm) - 43 lbs. (19.5 kg)

HOW TO ORDER

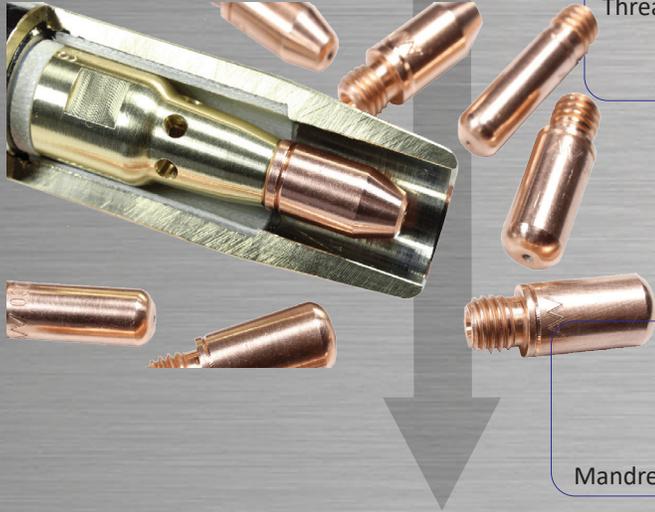
PART NUMBER	DESCRIPTION
520000	TIG-POINT Single Spindle Tungsten Grinder
520001	TIG-POINT Dual Spindle Tungsten Grinder with Cutoff Wheel

		OPTIONS	
PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
520501	Riser Mount * REQUIRED FOR DUAL SPINDLE	520619A	Short Electrode Support 1/16"(1.574mm)
525500	Base Cabinet	520619B	Short Electrode Support 3/32"(2.381mm)
525550	Vacuum System	520619C	Short Electrode Support 1/8"(3.175mm)
525600	High Intensity Work Light	520619D	Short Electrode Support 5/32"(3.968mm)
525650	Combo Light and Magnifier	520619S	Short Electrode Support .040"(1.016mm)
520608	Cleaning Rubber for Cam	520602	Corundum Grinding Wheel – 80 Grit
520403	Diamond Dresser	520603	**Corundum Grinding Wheel – 120 Grit
520400	TIG-Point Dressing Fixture	520604	Corundum Polishing Wheel – 150 Grit
520607	Whetstone for Cleaning Diamond Wheel	525606	Diamond Wheel – 150 Grit
520617	Roll Point(Hand Held Tool)	520625	Combo – Rough and Polishing Wheel

** Supplied with Unit

AMERICAN WELDQUIP'S CONSUMABLE SYSTEM

Genuine **American Weldquip** heavy-duty thread-on nozzles, contact tips and diffusers work together to provide added durability, extended life, cooler operation and superior electrical conductivity.



HEAVY WALLED NOZZLES

Machined from solid brass or copper bar stock.
Thread-on design for durability and excellent heat transfer characteristic.
Straight inside bore provides a thick wall for superior life.
Available in Nickel plate or bare finish.

GAS DIFFUSER SYSTEM

All diffusers are manufactured in brass.
Precision-machined to tight tolerances.
Designed for maximum and efficient gas flow.

CONTACT TIPS

Available in high conductive DSP copper and HRT Materials.
Precision-machined with tightly held tolerances.
Special design thread to keep the tip tight.
Mandrel drawn ID and OD for tight tolerances and smooth inside bore finish.

MADE IN THE USA

Manufactured By American Weldquip In Sharon Center, Ohio
So You Are Always Guaranteed Of Quality You Can Trust.



LINERS

Manufactured with high carbon music wire for added durability. For excellent feed characteristic all liners are tin-zinc coated and have smooth inside profiles.

COMMONIZE CONSUMABLES

All **American Weldquip** torches have a common consumable platform.
This means you can reduce your inventory requirements by utilizing the same consumables across different torch models.

HRT - HEAT RESISTANT TECHNOLOGY XTRA Long Life Contact Tip

- Superior hardness and wear resistance.
- High electrical conductivity for improved arc transfer and arc starting compared to other copper alloy tips.
- High performance, unaffected by higher operating temperatures.
- Outperforms other Tip Materials
 - 5X the life over C12200 copper
 - 3X the life over CRZR and CUCRZR
- Mandrel Drawn for superior bore tolerance and finish.
- Substantially increases schedule cycle time tip change-outs.
- Lower operating costs and reduce downtime from arc failures and unscheduled tip changes.
- Manufactured in Sharon Center, Ohio.



CONSUMABLES

AMERICAN WELDEQUIP'S CONSUMABLES

CONTACT TIPS



- ✓ American Weldquip Contact Tips Are Only Manufactured Using High-Quality, Highly Conductive Copper Materials.
- ✓ Tips Are Available In DSP Copper and Special Extended Life HRT (Heat Resistant Technology) Materials.
- ✓ All Contact Tips Are CNC Precision-Machined With Tightly Held Tolerances and Offer A Special Thread Design To Keep Tips Tight.
- ✓ All Tip Material Outside and Inside Diameters Are Mandrel Drawn For Tight Tolerance and A Smooth Inside Bore Finish.

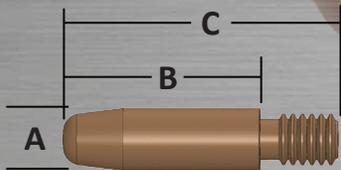


HOW TO ORDER

AMERICAN WELDEQUIP STANDARD DUTY COPPER (CU) - M6 THREAD

PACKAGE QUANTITY OF 25, 100 and 1500 - ORDER PER PIECE

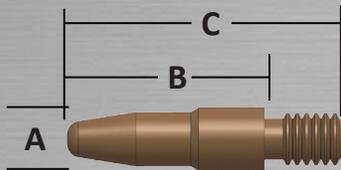
WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
.023" (.6mm)	75023511-25	25	.034"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.023" (.6mm)	75023511	100	.034"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.023" (.6mm)	75023511-1500	1500	.034"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.030" (.8mm)	75030511-25	25	.038"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.030" (.8mm)	75030511	100	.038"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.030" (.8mm)	75030511-1500	1500	.038"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.035" (.9mm)	75035511-25	25	.044"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.035" (.9mm)	75035511	100	.044"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.035" (.9mm)	75035511-1500	1500	.044"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.040" (1.0mm)	75040511-25	25	.050"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.040" (1.0mm)	75040511	100	.050"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.040" (1.0mm)	75040511-1500	1500	.050"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.045" (1.2mm)	75045511-25	25	.053"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.045" (1.2mm)	75045511	100	.053"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.045" (1.2mm)	75045511-1500	1500	.053"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"



AMERICAN WELDEQUIP TAPERED STANDARD DUTY COPPER (CU) - M6 THREAD

PACKAGE QUANTITY OF 25, 100 and 1500 - ORDER PER PIECE

WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
.030" (.8mm)	75030511T-25	25	.038"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.030" (.8mm)	75030511T	100	.038"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.030" (.8mm)	75030511T-1500	1500	.038"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.035" (.9mm)	75035511T-25	25	.044"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.035" (.9mm)	75035511T	100	.044"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.035" (.9mm)	75035511T-1500	1500	.044"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.040" (1.0mm)	75040511T-25	25	.050"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.040" (1.0mm)	75040511T	100	.050"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.040" (1.0mm)	75040511T-1500	1500	.050"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.045" (1.2mm)	75045511T-25	25	.053"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.045" (1.2mm)	75045511T	100	.053"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"
.045" (1.2mm)	75045511T-1500	1500	.053"	CONTACT TIP (STANDARD)	.285"	.897"	1.25"



AMERICAN WELDEQUIP'S CONSUMABLES

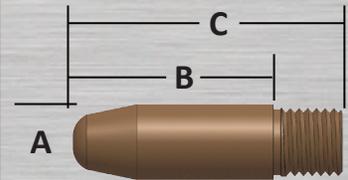
CONTACT TIPS

HOW TO ORDER

AMERICAN WELDEQUIP HEAVY DUTY - M8 THREAD

PACKAGE QUANTITY OF 25, 100 and 1500 - ORDER PER PIECE

WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
.030" (.8mm)	75030014-25	25	.038"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.030" (.8mm)	75030014	100	.038"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.030" (.8mm)	75030014-1500	1500	.038"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
035" (.9mm)	75035014-25	25	.044"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
035" (.9mm)	75035014	100	.044"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
035" (.9mm)	75035014-1500	1500	.044"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.040" (1.0mm)	75040014-25	25	.050"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.040" (1.0mm)	75040014	100	.050"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.040" (1.0mm)	75040014-1500	1500	.050"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.045" (1.2mm)	75045014-25	25	.054"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.045" (1.2mm)	75045014	100	.054"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.045" (1.2mm)	75045014-1500	1500	.054"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
3/64" (1.2mm)	75047014-25	25	.057"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
3/64" (1.2mm)	75047014	100	.057"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
3/64" (1.2mm)	75047014-1500	1500	.057"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.052" (1.3mm)	75052014-25	25	.061"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.052" (1.3mm)	75052014	100	.061"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
.052" (1.3mm)	75052014-1500 1	500	.061"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
1/16" (1.6mm)	75062014-25	25	.073"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
1/16" (1.6mm)	75062014	100	.073"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
1/16" (1.6mm)	75062014-1500	1500	.073"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
1/16" (1.6mm)	75062015-25	25	.076"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
1/16" (1.6mm)	75062015	100	.076"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
1/16" (1.6mm)	75062015-1500	1500	.076"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
5/64" (2.0 mm)	75078014-25	25	.087"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
5/64" (2.0 mm)	75078014	100	.087"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
5/64" (2.0 mm)	75078014-1500	1500	.087"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
3/32" (2.4mm)	75093014-25	25	.106"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
3/32" (2.4mm)	75093014	100	.106"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"
3/32" (2.4mm)	75093014-1500	1500	.106"	CONTACT TIP (HEAVY DUTY)	.345"	.908"	1.22"



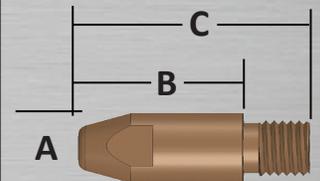
CONSUMABLES
CONTACT TIPS

OEM BRAND COMPATIBLE CONTACT TIPS

BINZEL® COMPATIBLE CONTACT TIPS (M8 Thread)

PACKAGE QUANTITY OF 25, 100 and 1500 - ORDER PER PIECE

WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
.035" (.9mm)	20035230-25	25	.044"	BINZEL® STYLE CONTACT TIP	.393"	.775"	1.09"
.035" (.9mm)	20035230	100	.044"	BINZEL® STYLE CONTACT TIP	.393"	.775"	1.09"
.035" (.9mm)	20035230-1500	1500	.044"	BINZEL® STYLE CONTACT TIP	.393"	.775"	1.09"
.045" (1.2mm)	20045230-25	25	.054"	BINZEL® STYLE CONTACT TIP	.393"	.775"	1.09"
.045" (1.2mm)	20045230	100	.054"	BINZEL® STYLE CONTACT TIP	.393"	.775"	1.09"
.045" (1.2mm)	20045230-1500	1500	.054"	BINZEL® STYLE CONTACT TIP	.393"	.775"	1.09"
.052" (1.3mm)	20052230-25	25	.061"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
.052" (1.3mm)	20052230	100	.061"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
.052" (1.3mm)	20052230-1500	1500	.061"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
1/16" (1.6mm)	20062230-25	25	.069"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
1/16" (1.6mm)	20062230	100	.069"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
1/16" (1.6mm)	20062230-1500	1500	.069"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
5/64" (2.0mm)	20078230-25	25	.087"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
5/64" (2.0mm)	20078230	100	.087"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"
5/64" (2.0mm)	20078230-1500	1500	.087"	BINZEL® STYLE CONTACT TIP	.345"	.775"	1.09"



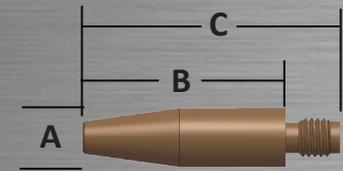
AMERICAN WELDEQUIP'S CONSUMABLES - CONTACT TIPS

HOW TO ORDER

MK® COMPATIBLE CONTACT TIPS

PACKAGE QUANTITY OF 25, 100 and 1500 - ORDER PER PIECE

WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
.035" (.9mm)	G621-0397-25	25	.044"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0397	100	.044"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0397-1500	1500	.044"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
3/64" (1.3mm)	G621-0393-25	25	.061"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0393	100	.061"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0393-1500	1500	.061"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
1/16" (1.6mm)	G621-0394-25	25	.073"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0394	100	.073"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0394-1500	1500	.073"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
5/64" (2.0 mm)	G621-0395-25	25	.087"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0395	100	.087"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"
	G621-0395-1500	1500	.087"	MK® STYLE CONTACT TIP	.345"	1.070"	1.57"

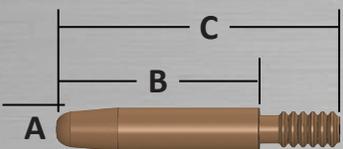
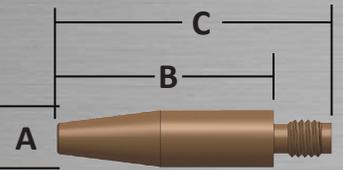
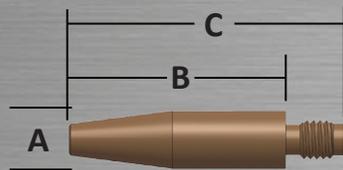


CONSUMABLES
CONTACT TIPS

OTC®, PANASONIC®, TOKINARC® COMPATIBLE CONTACT TIPS (M6 Thread)

PACKAGE QUANTITY OF 25, 100 and 1500 - ORDER PER PIECE

WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
.030" (.8mm)	75030122-25	25	.038"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75030122	100	.038"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75030122-1500	1500	.038"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
.035" (.9mm)	75035122-25	25	.044"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75035122	100	.044"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75035122-1500	1500	.044"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
.045" (1.2mm)	75045122-25	25	.054"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75045122	100	.054"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75045122-1500	1500	.054"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
.052" (1.3mm)	75052122-25	25	.061"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75052122	100	.061"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
	75052122-1500	1500	.061"	OTC®, PANASONIC®, TOKINARC®	.345"	1.458"	1.77"
.030" (.8mm)	75030211-25	25	.038"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75030211	100	.038"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75030211-1500	1500	.038"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
.035" (.9mm)	75035211-25	25	.044"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75035211	100	.044"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75035211-1500	1500	.044"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
.040" (1.0mm)	75040211-F-25	25	.050"	OTC® PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75040211-F	100	.050"	OTC® PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75040211-F-1500	1500	.050"	OTC® PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
.045" (1.2mm)	75045211-25	25	.054"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75045211	100	.054"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75045211-1500	1500	.054"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
.044" (1.2mm)	75045211-F-25	25	.054"	OTC® PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75045211-F	100	.054"	OTC® PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75045211-F-1500	1500	.054"	OTC® PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
.052" (1.3mm)	75052211-25	25	.061"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75052211	100	.061"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75052211-1500	1500	.061"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
.062" (1.6mm)	75062211-25	25	.073"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75062211	100	.073"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
	75062211-1500	1500	.073"	OTC®, PANASONIC®, TOKINARC®	.345"	1.310"	1.66"
.035" (.9mm)	75035511V-25	25	.044"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
	75035511V	100	.044"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
	75035511V-1500	1500	.044"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
.040" (1.0mm)	75040511V-25	25	.050"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
	75040511V	100	.050"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
	75040511V-1500	1500	.050"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
.045" (1.2mm)	75045511V-25	25	.053"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
	75045511V	100	.053"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"
	75045511V-1500	1500	.053"	OTC®, PANASONIC®, TOKINARC®	.285"	1.310"	1.66"



AMERICAN WELDQUIP'S CONSUMABLES

HRT - "HEAT RESISTANT TECHNOLOGY"

EXTENDED LIFE CONTACT TIPS

NEW Advanced Contact Tip Technology for High Wear Resistance and Superior Electrical Conductivity



- ✓ Superior Hardness and Wear Resistance.
- ✓ High Electrical Conductivity For Improved Arc Transfer and Arc Starting As Compared To Other Copper Alloy Tips.
- ✓ High Performance, Unaffected By Higher Operating Temperatures.
- ✓ Outperforms Other Tip Materials.
 - 5X The Life Over C12200 Copper
 - 3X The Life Over CRZR and CUCRZR
- ✓ Mandrel Drawn For Superior Bore Tolerance and Finish.
- ✓ Substantially Increases Scheduled Cycle Time Tip Change-Outs.
- ✓ Lower Operating Costs and Reduce Downtime From Arc Failures and Unscheduled Tip Changes.
- ✓ Manufactured In Our Sharon Center, Ohio USA Facility.

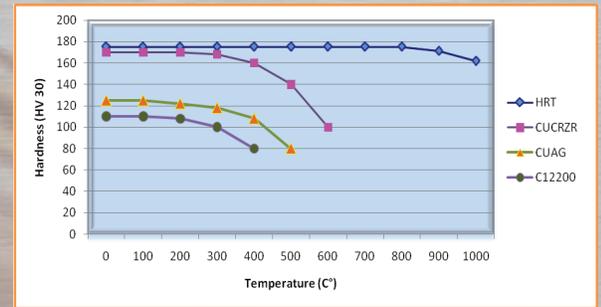


CONSUMABLES
HRT CONTACT TIPS

What is HRT – Heat Resistant Technology

Heat generated from the welding process is a major influence affecting your contact tip life. This heat tends to anneal and soften the copper tip material thus, increasing the weld wire abrasion, micro arcing, and decreased conductivity on the ID bore causing premature tip failure. The higher the operating temperature the worse the performance. Different tip material formulations, such as Copper Chrome Zirconium, have been used over the years to increase hardness and help improve tip life.

Hardness at Operating Temperatures



While the introduction of different tip materials may improve wear resistance in certain applications, the harder material with a higher annealing temperature sacrifices electrical conductivity which can lead to poor arc starting characteristics. The NEW AMERICAN WELDQUIP HRT contact tips are engineered to provide unsurpassed resistance to annealing at high operating temperatures while maintaining excellent electrical conductivity. The outer shell of the tip is made from highly conductive copper for superior electrical conductivity. The inside diameter is comprised of mechanically alloyed copper based compounds. These special copper based composite materials provide a stable microstructure at elevated operating temperatures guaranteeing the high hardness, wear resistance and high electrical conductivity. The tip material is then produced by cold pressing the outer highly conductive copper and the inside diameter composite material. The final finished copper rod is then mandrel extruded to insure a finished tip with excellent ID surface finish and concentricity.



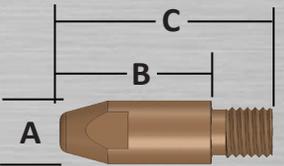
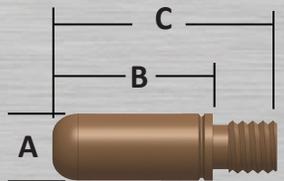
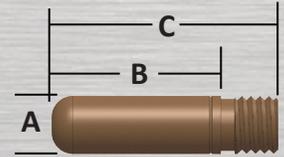
AMERICAN WELDQUIP'S CONSUMABLES

HRT - "HEAT RESISTANT TECHNOLOGY" CONTACT TIPS

HOW TO ORDER

AMERICAN WELDQUIP HEAVY DUTY - M8 THREAD

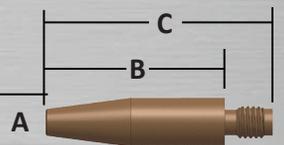
PACKAGE QUANTITY OF 25, 100 and 500 - ORDER PER PIECE							
WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
HRT - .315" (8mm) OD							
.030" (.8mm)	20030400-25	25	.037"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20030400	100	.037"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20030400-500	500	.037"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
.035" (.9mm)	20035400-25	25	.041"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20035400	100	.041"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20035400-500	500	.041"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
.040" (1.0mm)	20040400-25	25	.050"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20040400	100	.050"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20040400-500	500	.050"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
.045" (1.2mm)	20045400-25	25	.054"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20045400	100	.054"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20045400-500	500	.054"	HRT CONTACT TIP (STD)	.315"	.908"	1.22"
.052" (1.3mm)	20052400TT-25	25	.057"	TT HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20052400TT	100	.057"	TT HRT CONTACT TIP (STD)	.315"	.908"	1.22"
	20052400TT-500	500	.057"	TT HRT CONTACT TIP (STD)	.315"	.908"	1.22"
HRT - .394" (10mm) OD							
.035" (.9mm)	20035500-25	25	.041"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20035500	100	.041"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20035500-500	500	.041"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.035" (.9mm)	20035500T-25	25	.041"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20035500T	100	.041"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20035500T-500	500	.041"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.040" (1.0mm)	20040500-25	25	.050"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20040500	100	.050"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20040500-500	500	.050"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.040" (1.0mm)	20040500T-25	25	.050"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20040500T	100	.050"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20040500T-500	500	.050"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.045" (1.2mm)	20045500-25	25	.054"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20045500	100	.054"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20045500-500	500	.054"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.045" (1.2mm)	20045500T-25	25	.054"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20045500T	100	.054"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20045500T-500	500	.054"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.052" (1.3mm)	20052500-25	25	.061"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20052500	100	.061"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20052500-500	500	.061"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.052" (1.3mm)	20052500T-25	25	.061"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20052500T	100	.061"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20052500T-500	500	.061"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
.052" (1.3mm)	20052500TT-25	25	.057"	TT HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20052500TT	100	.057"	TT HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20052500TT-500	500	.057"	TT HRT CONTACT TIP (HD)	.393"	.775"	1.092"
1/16" (1.6mm)	20062500-25	25	.069"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20062500	100	.069"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"
	20062500-500	500	.069"	HRT CONTACT TIP (HD)	.393"	.775"	1.092"



T - Tapered Version

OTC®, PANASONIC®, TOKINARC® COMPATIBLE CONTACT TIPS (M6 Thread)

PACKAGE QUANTITY OF 25, 100 and 500 - ORDER PER PIECE							
WIRE SIZE	PART #	PACKAGE QUANTITY	NOM. I.D.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
.030" (.8mm)	20030411-25	25	.038"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20030411	100	.038"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20030411-500	500	.038"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
.035" (.9mm)	20035411-25	25	.044"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20035411	100	.044"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20035411-500	500	.044"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
.040" (1.0mm)	20040411-25	25	.050"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20040411	100	.050"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20040411-500	500	.050"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
.045" (1.2mm)	20045411-25	25	.054"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20045411	100	.054"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"
	20045411-500	500	.054"	OTC®, PANASONIC®, TOKINARC®	.315"	1.310"	1.66"



CONSUMABLES
HRT CONTACT TIPS

AMERICAN WELDEQUIP'S CONSUMABLES

GAS DIFFUSERS



- ✓ All diffusers are manufactured in brass.
- ✓ Precision-machined to tight tolerances.
- ✓ Designed for maximum and efficient gas flow.
- ✓ Manufactured In Our Sharon Center, Ohio USA Facility

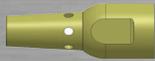


HOW TO ORDER

AMERICAN WELDEQUIP GAS DIFFUSERS

PACKAGE QUANTITY(Order In Multiples) OF 5 - ORDER PER PIECE

PART #	DESCRIPTION	TIP THREAD	RELATIONSHIP TO STANDARD LENGTH	OVERALL LENGTH
<i>For Use With Model #'s 238 / 307 /347 Torches</i>				
75002007S	GAS DIFFUSER - SHORT	M6	-0.060"	1.160" (29.5mm)
75002007	GAS DIFFUSER - STANDARD	M6	0.000"	1.220" (31.0mm)
75002007L	GAS DIFFUSER - LONG	M6	+0.120"	1.340" (34.0mm)
75002007XL	GAS DIFFUSER - XLONG	M6	0.164"	1.385" (35.2mm)
75002033A	GAS DIFFUSER - (347 TO 400 ADAPTOR)	M8	-0.025"	1.195" (30.4mm)
75002007V	GAS DIFFUSER - (MALE THREAD)	M6	N/A	1.000" (25.4mm)
<i>For Use With Model #'s 354/400/407/450/454/500/507/550/600/607 Torches</i>				
75004033S	GAS DIFFUSER - SHORT	M8	-0.163"	1.275" (32.4mm)
75004033	GAS DIFFUSER - STANDARD	M8	0.000"	1.438" (36.5mm)
75004033-GL	TIP HOLDER - GASLESS	M8	N/A	1.438" (36.5mm)
75004033L	GAS DIFFUSER - LONG	M8	+0.092"	1.530" (38.9mm)
75004033XL	GAS DIFFUSER - X-LONG	M8	+0.218"	1.656" (42.1mm)
75004007	GAS DIFFUSER - STD. (400 TO 300 ADPTR.)	M6	+0.018"	1.455" (37.0mm)
75004033V	GAS DIFFUSER - X-LONG (400 TO 300 ADPTR.)	M6	+0.312"	1.750" (44.5mm)
75004033A	GAS DIFFUSER - SHORT (MALE THREAD)	M8	N/A	1.031" (26.2mm)

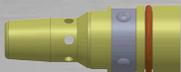


CONSUMABLES
DIFFUSERS

OEM BRAND COMPATIBLE GAS DIFFUSER/TIP HOLDERS

PACKAGE QUANTITY(Order In Multiples) OF 5 - ORDER PER PIECE

PART #	DESCRIPTION	TIP THREAD	RELATIONSHIP TO STANDARD LENGTH	OVERALL LENGTH
OTC®/PANASONIC®/TOKINARC®				
75077405	ROBOTIC TIP HOLDER	M6	NA	NA
75077409	ROBOTIC TIP HOLDER	M6	NA	NA
G016051	ROBOTIC TIP ADAPTOR TOKIN TK-308RR	M6	NA	NA
GDX0201162	ROBOTIC TIP ADAPTOR TOKINARC	M6	NA	NA
TREGASKISS®				
G404-3-M8	RETAINING HEAD - For Use Q/ AWQ Tips	M8	NA	NA
G404-3-M8L	RETAINING HEAD - For Use Q/ AWQ Tips	M8	NA	NA
FRONIUS - MINIMUM ORDER QUANTITIES MAY APPLY				
G4200013928-AWQ	RETAINING HEAD - For Use Q/ AWQ Tips	M8	NA	NA
G4200015122-AWQ	RETAINING HEAD - For Use Q/ AWQ Tips	M8	NA	NA
G4200015540-AWQ	RETAINING HEAD - For Use Q/ AWQ Tips	M8	NA	NA
G4200015605-AWQ	RETAINING HEAD - For Use Q/ AWQ Tips	M8	NA	NA



AMERICAN WELDQUIP'S CONSUMABLES

LINERS



- ✓ Manufactured From High Carbon Music Wire For Added Durability.
- ✓ Tin-Zinc Coated For Improved Feedability.
- ✓ Smooth Inside Profiles For Smooth Wire Feed Characteristics.
- ✓ Liners For Mild Steel, Stainless Steel, Aluminum and Flux Core Wires.



HOW TO ORDER

PART #	LENGTH	I.D.	WIRE SIZE	APPLICATION	DESCRIPTION
'215' SERIES STEEL LINER - .023" - .030" WHITE IDENTIFICATION					
75005215T	5'	.057"	.023"-.030"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
75010215T	10'	.057"	.023"-.030"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
75015215T	15'	.057"	.023"-.030"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
'222' SERIES STEEL LINER - .035" - .045" RED IDENTIFICATION					
75001222T	1'	.069"	.035"-.045"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
75005222T	5'	.069"	.035"-.045"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
75010222T	10'	.069"	.035"-.045"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
75015222T	15'	.069"	.035"-.045"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
75025222T	25'	.069"	.035"-.045"	MS,SS	HIGH CARBON STEEL-ROUND WOUND
'228' SERIES STEEL LINER - .045" - 1/16" BLUE IDENTIFICATION					
75001228T	1'	.080"	.045"-.062"	MS,SS,FC	HIGH CARBON STEEL - ROUND WOUND
75005228T	5'	.080"	.045"-.062"	MS,SS,FC	HIGH CARBON STEEL - ROUND WOUND
75010228T	10'	.080"	.045"-.062"	MS,SS,FC	HIGH CARBON STEEL - ROUND WOUND
75015228T	15'	.080"	.045"-.062"	MS,SS,FC	HIGH CARBON STEEL - ROUND WOUND
75025228T	25'	.080"	.045"-.062"	MS,SS,FC	HIGH CARBON STEEL - ROUND WOUND
'229' SERIES STEEL LINER - 5/64" - 3/32" BLACK IDENTIFICATION					
75001229T	1'	.114"	.078"-.093"	MS,FC	HIGH CARBON STEEL -D SHAPED LINER
75005229T	5'	.114"	.078"-.093"	MS,FC	HIGH CARBON STEEL -D SHAPED LINER
75010229T	10'	.114"	.078"-.093"	MS,FC	HIGH CARBON STEEL -D SHAPED LINER
75015229T	15'	.114"	.078"-.093"	MS,FC	HIGH CARBON STEEL -D SHAPED LINER
75025229T	25'	.114"	.078"-.093"	MS,FC	HIGH CARBON STEEL -D SHAPED LINER
ALUMINUM WIRE APPLICATIONS-'320' SERIES TEFLON LINER - .035"-.045"					
75005320T-J	5'	.062	.035"-.045"	ALUMINUM	TEFLON W/ JUMP LINER
75010320T-J	10'	.062	.035"-.045"	ALUMINUM	TEFLON W/ JUMP LINER
75005320T	5'	.062	.035"-.045"	ALUMINUM	TEFLON
75010320T	10'	.062	.035"-.045"	ALUMINUM	TEFLON
ALUMINUM WIRE APPLICATIONS-'324' SERIES NYLON LINER - .045"-.062"					
75005324T-J	5'	.105"	.045"-.062"	ALUMINUM	NYLON W/ JUMP LINER
75010324T-J	10'	.105"	.045"-.062"	ALUMINUM	NYLON W/ JUMP LINER
75015324T-J	15'	.105"	.045"-.062"	ALUMINUM	NYLON W/ JUMP LINER
75099324	1000'	.105"	.045"-.062"	ALUMINUM	BULK '324' NYLON LINER MATERIAL
75001324T	1'	.105"	.045"-.062"	ALUMINUM	NYLON
75005324T	5'	.105"	.045"-.062"	ALUMINUM	NYLON
75010324T	10'	.105"	.045"-.062"	ALUMINUM	NYLON
75015324T	15'	.105"	.045"-.062"	ALUMINUM	NYLON

LINER REPLACEMENT PART LIST

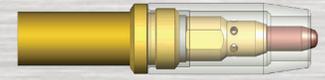
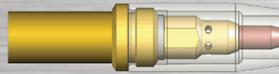
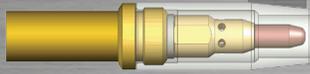
PART #	DESCRIPTION
75077052-AE	LINER ADAPTOR COLLET - EURO TO "T" STYLE LINER
75077052-AH	LINER ADAPTOR COLLET - "H" TO "T" STYLE Liner
75000001	ORING - "T" STYLE LINER
75000002	ORING - EURO AND "H" STYLE LINER
750324-J	12" BRONZE JUMP LINER
AST-950-228	FLOATING LINER COLLET - FOR USE WITH GOOSENECK LINER ON AST ROBOTIC SYSTEMS

CONSUMABLES
LINERS

AMERICAN WELDQUIP'S CONSUMABLES

NOZZLES

HOW TO SELECT NOZZLE FOR DESIRED TIP PLACEMENT



To determine the desired tip placement dimension (Recessed, Flush, Extended) you will need to take the nozzle seat adder for the nozzle series plus, the diffuser length plus, the contact tip length (Dimension "B") plus the desired recess or stickout (negative) dimension. Select the nozzle with the closest measured dimension. Keep in mind there are options for different length diffusers to help achieve the desired tip placement.

300 SERIES Nozzle Adder = .6150"

400 SERIES Nozzle Adder = .6850"

500 SERIES Nozzle Adder = .7300"

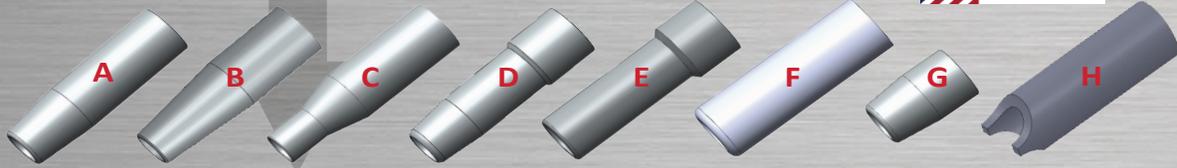
EXAMPLE: - 400 SERIES CONSUMABLES

Add .6850" (Nozzle Series Adder-SEE ABOVE) + Diffuser Length(75004033) =1.438" + Tip Length(750XX014 "B" Dimension)=.908".

Dimensional Stack up = 3.03"

If you select the 75146202-I with an Overall Length of 3.125" the tip recess will be approximately .095" (3/32").

HOW TO ORDER



PART #	DESCRIPTION	TYPE	BORE SIZE	MATERIAL	O.A.L.	INSULATOR
300 SERIES - For Use With Torch Model #'s 238 / 300 / 307						
NI PLATED BRASS						
75133801	NOZZLE - CONICAL	A	3/8" (9.5mm)	NI PLATED BRASS	2.820" (71.6mm)	NONE REQ.
75133802	NOZZLE - BOTTLE NOSE	C	3/8" (9.5mm)	NI PLATED BRASS	2.820" (71.6mm)	NONE REQ.
75133803	NOZZLE - BOTTLE NOSE	C	3/8" (9.5mm)	NI PLATED BRASS	3.62" (91.9mm)	NONE REQ.
75135004	NOZZLE - SHORT TAPERED	G	1/2" (12.7mm)	NI PLATED BRASS	1.937" (49.2mm)	NONE REQ.
NI PLATED BRASS WITH INSULATOR						
75135601-I	NOZZLE - CONICAL	A	9/16" (14.2mm)	NI PLATED BRASS	2.820" (71.6mm)	INSTALLED
75135602-I	NOZZLE - CONICAL	A	9/16" (14.2mm)	NI PLATED BRASS	2.545" (64.6mm)	INSTALLED
75135002-I	NOZZLE - TAPERED	B	1/2" (12.7mm)	NI PLATED BRASS	2.820" (71.6mm)	INSTALLED
75135003-I	NOZZLE - BOTTLENOSE	C	1/2" (12.7mm)	NI PLATED BRASS	2.672" (67.96mm)	INSTALLED
400 SERIES - For Use With Torch Model #'s 347/354/400/407/454/450/550/600/607						
NI PLATED BRASS						
75145001	NOZZLE - BOTTLE NOSE	C	1/2" (12.7mm)	NI PLATED BRASS	3.031" (77.0mm)	75001733
75145004	NOZZLE - BOTTLE NOSE	C	1/2" (12.7mm)	NI PLATED BRASS	3.125" (79.4mm)	75001733
75145005	NOZZLE - BOTTLE NOSE	C	1/2" (12.7mm)	NI PLATED BRASS	2.820" (71.6mm)	75001733
75145003	NOZZLE - TAPERED (LONG)	B	1/2" (12.7mm)	NI PLATED BRASS	3.915" (99.4mm)	NONE REQ.
75146202	NOZZLE - CONICAL	A	5/8" (15.9mm)	NI PLATED BRASS	3.125" (79.4mm)	75001738
75147501	NOZZLE - CYLINDRICAL	F	3/4" (19.0mm)	NI PLATED BRASS	3.125" (79.4mm)	75001738
75146501S	NOZZLE - SPOT	H	5/8" (15.9mm)	NI PLATED BRASS	3.437" (87.3mm)	75001738
NI PLATED BRASS WITH INSULATOR						
75144301-I	NOZZLE - SMALL CONICAL	D	7/16" (11.1mm)	NI PLATED BRASS	2.820" (71.6mm)	INSTALLED
75144302-I	NOZZLE - SMALL CONICAL	D	7/16" (11.1mm)	NI PLATED BRASS	3.125" (79.4mm)	INSTALLED
75145001-I	NOZZLE - BOTTLE NOSE	C	1/2" (12.7mm)	NI PLATED BRASS	3.031" (77.0mm)	INSTALLED
75145004-I	NOZZLE - BOTTLE NOSE	C	1/2" (12.7mm)	NI PLATED BRASS	3.125" (79.4mm)	INSTALLED
75145005-I	NOZZLE - BOTTLE NOSE	C	1/2" (12.7mm)	NI PLATED BRASS	2.820" (71.6mm)	INSTALLED
75145601-I	NOZZLE - TAPERED	B	9/16" (14.2mm)	NI PLATED BRASS	3.125" (79.4mm)	INSTALLED
75145602-I	NOZZLE - SMALL CONICAL	D	9/16" (14.2mm)	NI PLATED BRASS	2.820" (71.6mm)	INSTALLED
75145603-I	NOZZLE - SHORT TAPERED	G	9/16" (14.2mm)	NI PLATED BRASS	2.375" (60.3mm)	INSTALLED
75146202-I	NOZZLE - CONICAL	A	5/8" (15.9mm)	NI PLATED BRASS	3.125" (79.4mm)	INSTALLED
75146201-I	NOZZLE - BOTTLE NOSE	E	5/8" (15.9mm)	NI PLATED BRASS	3.125" (79.4mm)	INSTALLED
75146205-I	NOZZLE - CONICAL	A	5/8" (15.9mm)	NI PLATED BRASS	3.031" (77.0mm)	INSTALLED
75146206-I	NOZZLE - SHORT CONICAL	G	5/8" (15.9mm)	NI PLATED BRASS	1.875" (47.6mm)	INSTALLED
75146207-I	NOZZLE - SHORT CONICAL	G	5/8" (15.9mm)	NI PLATED BRASS	2.187" (55.6mm)	INSTALLED
75146209-I	NOZZLE - BOTTLE NOSE	E	5/8" (15.9mm)	NI PLATED BRASS	2.820" (71.6mm)	INSTALLED
75146204-I	NOZZLE - CONICAL	A	5/8" (15.9mm)	NI PLATED BRASS	2.820" (71.6mm)	INSTALLED
COPPER						
75145002C	NOZZLE - TAPERED	B	1/2" (12.7mm)	NI PLATED COPPER	3.125" (79.4mm)	75001738
75145002CU	NOZZLE - TAPERED	B	1/2" (12.7mm)	BARE COPPER	3.125" (79.4mm)	75001738
75146202C	NOZZLE - CONICAL	A	5/8" (15.9mm)	NI PLATED COPPER	3.125" (79.4mm)	75001738
75146202CU	NOZZLE - CONICAL	A	5/8" (15.9mm)	BARE COPPER	3.125" (79.4mm)	75001738
75146204C	NOZZLE - CONICAL	A	5/8" (15.9mm)	BARE COPPER	2.820" (71.6mm)	75001738
75146205CU	NOZZLE - TAPERED	B	5/8" (15.9mm)	BARE COPPER	3.031" (77.0mm)	75001738
75147501CU	NOZZLE - CYLINDRICAL	F	3/4" (19.0mm)	BARE COPPER	3.125" (79.4mm)	75001738
COPPER WITH INSULATOR						
75146202C-I	NOZZLE - CONICAL	A	5/8" (15.9mm)	NI PLATED COPPER	3.125" (79.4mm)	INSTALLED
75146202CU-I	NOZZLE - CONICAL	A	5/8" (15.9mm)	BARE COPPER	3.125" (79.4mm)	INSTALLED
75146204CU-I	NOZZLE - CONICAL	A	5/8" (15.9mm)	BARE COPPER	2.820" (71.6mm)	INSTALLED
75146208CU-I	NOZZLE - SHORT CONICAL	G	5/8" (15.9mm)	BARE COPPER	1.350" (34.3mm)	INSTALLED

CONSUMABLES
NOZZLES

AMERICAN WELDQUIP'S CONSUMABLES

NOZZLES

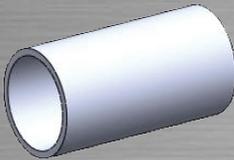
HOW TO ORDER

PART #	DESCRIPTION	TYPE	BORE SIZE	MATERIAL	O.A.L.	INSULATOR
500 SERIES - For Use With Torch Model #'s 507						
NI PLATED BRASS						
75157501	NOZZLE - CONICAL	A	3/4" (19.0mm)	NI PLATED BRASS	3.187" (81.0mm)	75001740
75156201	NOZZLE - TAPERED	B	9/16" (14.2mm)	NI PLATED BRASS	2.670" (67.8mm)	75001740
NI PLATED BRASS WITH INSULATOR						
75156201-I	NOZZLE - TAPERED	B	9/16" (14.2mm)	NI PLATED BRASS	2.670" (67.8mm)	INSTALLED
75157501-I	NOZZLE - CONICAL	A	3/4" (19.0mm)	NI PLATED BRASS	3.187" (81.0mm)	INSTALLED
COPPER WITH INSULATOR						
75157001CU-I	NOZZLE - CONICAL	A	11/16" (17.46mm)	BARE COPPER	3.187" (81.0mm)	INSTALLED
WATER-COOLED NOZZLES						
75166201	CONICAL, TRD ON, HOSE BARBS	A	5/8" (15.9mm)	BARE COPPER	3.125" (79.4mm)	75001738
75166203	CONICAL, SWIVEL, QUICK DISC.	A	5/8" (15.9mm)	BARE COPPER	3.125" (79.4mm)	75001738
75166202M	CONICAL, TRD ON, QD(12" TUBES)	A	5/8" (15.9mm)	BARE COPPER	3.125" (79.4mm)	75001738
75166204M	CONICAL, SWIVEL, HOSE BARBS	A	5/8" (15.9mm)	BARE COPPER	3.125" (79.4mm)	75001738
75167501	CONICAL, SWIVEL, COMPRESSION	A	3/4" (19.0mm)	BARE COPPER	3.125" (79.4mm)	75001740
75167502M	CONICAL, SWIVEL, HOSE BARBS	A	3/4" (19.0mm)	BARE COPPER	3.125" (79.4mm)	75001740

NOZZLE INSULATORS

PACKAGE QUANTITY(Order In Multiples) OF 5 - ORDER PER PIECE

SEE NOZZLE SELECTION PAGE 40 AND 41 FOR PROPER NOZZLE INSULATOR PART NUMBER



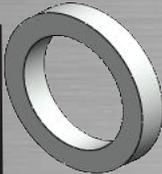
PART #	DESCRIPTION	DIMENSIONS
75001733	NOZZLE INSULATOR (SHORT) -	.7850"(20mm) x .750"(19mm)
75001735	NOZZLE INSULATOR (SHORT) -	1.375"(35mm) x .750"(19mm)
75001738	NOZZLE INSULATOR -	1.50"(38mm) x .750"(19mm)
75001740	NOZZLE INSULATOR -	1.50"(38mm) x .850"(21.5mm)

INSULATING WASHERS

PACKAGE QUANTITY(Order In Multiples) OF 5 - ORDER PER PIECE

PART #	DESCRIPTION	TORCH SERIES
75001003	INSULATING WASHER - GREEN TRACER	238, 307, 300, AST 300 Series
75001004	INSULATING WASHER - RED TRACER	354, 400, 407, 450, 454, 500, 550, 600, 607, AST-500 Series
75001005	INSULATING WASHER - BLUE TRACER	347, 447
75001006	INSULATING WASHER - BLACK TRACER	507, 555

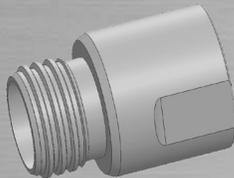
CONSUMABLES
INSULATORS



REPLACEABLE NOZZLE SEATS

(FOR USE WITH TORCHES SET UP WITH (RS) REPLACEABLE NOZZLE SEAT OPTION)

PART #	DESCRIPTION
75077347	REPLACEABLE NOZZLE SEAT - CONVERTS 300 SERIES TO 400 SERIES NOZZLES
75077357	REPLACEABLE NOZZLE SEAT - FOR USE WITH 500 SERIES NOZZLES
75077800	REPLACEABLE NOZZLE SEAT - FOR USE WITH 300 SERIES NOZZLES
75077850	REPLACEABLE NOZZLE SEAT - FOR USE WITH 400/600 SERIES NOZZLES
75077500	OTC/MILLER NOZZLE SEAT - MICARTA
75077500EL	OTC/MILLER NOZZLE SEAT - MICARTA



AMERICAN WELDEQUIP'S FEEDER PINS

HOW TO ORDER

DIRECT CONNECT FEEDER KITS

FEEDER MFG.	DIRECT CONNECT KIT #	FEEDER PIN #	CONTROL CABLE # (NEW STYLE)	FEEDER MODEL
HOBART 	37677699	37577699	37777500	BETA-MIG SERIES, DIGITAL 2000, DUAL DIGITAL, PORTA FEED, ULTRA FEED, HANDLER SERIES, HEFTY, PORTA-WIRE, 2200 FEEDER
LINCOLN 	37677234	37577234	NA	NA2, NA3, NA4, NA5
	37677699	37577699	37777505	(#4 STYLE PIN/LINCOLN CONTROL CABLE) POWER FEED 10M/25M, LF-72, LN10, LN15, LN25 PRO, SP SERIES, POWERMIG, MIGPAK 10 MIGPAK 55, MIGPAK 100, WIREMATIC 250/255, (SHORT LINCOLN STYLE) LN4, LN5, LN6, LN7, LN8, LN9, LN22, LN25, SUITCASE (LINCOLN STYLE) LN4, LN5, LN6, LN7, LN8, LN9, LN22, LN25, SUITCASE,
	37677831	37577832-BGM	37777505	
	37677832	37577832	37777505	
	NA	37577837	NA	LINCOLN UNIVERSAL
MILLER 	37677705	37577705	37777501	ALL CURRENT MILLER FEEDERS
OTC/DAIHEN 	37677700	37577700	37777503	DAIHEN® / OTC®
	37677701	37577701	37777503	DP SERIES, CM741, CMRE-741, AF4001
PANASONIC 	37677999	37577999	37777504	ALL PANASONIC FEEDERS
TWECO 	37677699	37577699	37777500	#2, #3 & #4
	37677930	37577930	37777500	#5

OTHER FEEDER PINS AVAILABLE- SEE www.weldquip.com OR CONSULT THE FACTORY

EURO TO FEEDER ADAPTOR KITS

FEEDER MFG.	EURO KIT #	ADAPTOR PLUG #	GUIDE TUBE #	FEEDER MODEL
HOBART	37177699	37077699	37377699	BETA-MIG SERIES, DIGITAL 2000, DUAL DIGITAL, PORTA FEED, ULTRA FEED, HANDLER SERIES, HEFTY, PORTA-WIRE, 2200 FEEDER
LINCOLN	37177234 37177699	37077234 37077699	37377237 37377699	NA2, NA3, NA4, NA5 (#4 STYLE PIN) POWER FEED 10M/25M, LF-72, LN10, LN15, LN25 PRO, SP SERIES, POWERMIG, MIGPAK 10 MIGPAK 55, MIGPAK 100, WIREMATIC 250/255 (LINCOLN STYLE) LN4, LN5, LN6, LN7, LN8, LN9, LN22, LN25, SUITCASE
MILLER	37177705	37077705	37377705	ALL CURRENT MILLER FEEDERS
OTC/DAIHEN	37177700 37177701	37077700 37077701	37377700 37377701	DAIHEN® / OTC® DP SERIES, CM741, CMRE-741, AF4001
PANASONIC	37177999	37077999	37377999	ALL PANASONIC FEEDERS
TWECO	37177699 37177930	37077699 37077930	37377699 37377930	#2, #3 & #4 #5

SPARE PARTS

PART #	DESCRIPTION
37577705-N	FEEDER PLUG LINER RETAINING CAP – MILLER/OTC DP SERIES
38277001-N078	FEEDER PLUG LINER RETAINING CAP - OTC
38277001-N191	FEEDER PLUG LINER RETAINING CAP – OTC (When Using Aluminum Liner)
37577102	O-RING MILLER PIN
37677102	O-RING #4 PIN
75000021	O-RING #5 PIN
38660000	MALE WATER HOSE QUICK DISCONNECT (1)
38660001	FEMALE WATER HOSE QUICK DISCONNECT (1)

American Weldquip Inc. is a leading manufacturer and world-wide supplier of quality MIG torches, consumables and robotic peripherals.

Headquartered in Sharon Center, Ohio our business philosophy for over 32 years has been to provide our customers with exceptional personalized customer service, innovative solutions in tough applications and an outstanding quality product.

What does that mean for you?

SERVICE

Our dedicated world-class engineering and manufacturing team can supply you with standard or specialty designed product faster than anyone in the industry. Ninety-nine percent of special products can be engineered, manufactured and shipped in less than 5 days.

Unlike others in the industry, that only sell product over the phone or internet and offer you virtually no support, you can count on **American Weldquip** to be there when you need us.

QUALITY

We take great pride in the fact that most components that go into our products are produced in-house, in the USA. Integrated with our Quality Assurance procedures, the additional controls allow us to monitor incoming materials and the manufacturing process more closely. Insuring you, our customer, that you will receive, and can count on, a 100% Genuine American Weldquip quality product in both materials and workmanship.

SOLUTIONS

American Weldquip provides custom solutions to our customers that other manufacturers shy away from. We engineer durable torches, consumables and custom configured torch designs that improve your weld quality, increase productivity, lower MIG torch cost of ownership and improve your bottom line. Our robust torch designs assure you that they will stand the test of time in the roughest environments.

If you are looking for a committed supplier that is dedicated to offering you the highest quality product, innovative solutions to your complex welding torch issues and focused customer service support and not just a low cost, low quality, generic alternative - American Weldquip is your answer.

For more product information, technical literature, ROHS (Restriction of Hazardous Substances) updates and more please visit our website at www.weldquip.com.

Demand genuine **American Weldquip** products to insure you get the best Service • Quality • Solutions and performance you expect.

www.weldquip.com



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