

# 450/550/600 AMP WATER-COOLED ROBOTIC TORCHES



**American Weldquip** water-cooled robotic torches offer you unsurpassed performance not found in competitive brands. High quality materials and workmanship go into each torch. Designed and engineered for fewer repairs, lower maintenance costs and increased consumable life ensure a lower cost of ownership.

Choose from two water-cooled torch platforms. Our conventional water-cooled torch incorporates a water-cooled/Kevlar cord power cable bundle or our exclusive “HYBRID” design which combines the ruggedness of an air-cooled torch with the benefits of water-cooling.

Our combination of a heavy-duty torch design with a unique positioning flat, solid torch mount and the ArcSafe™ for collision protection provide a highly accurate, repeatable and low maintenance robotic package for precision welding and maximum productivity.

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 WELDQUIP ADVANTAGE

**ROBUST Water-Cooled Gooseneck Design** – **American Weldquip** water-cooled goosenecks are designed for superior strength and heat dissipation.

All goosenecks are manufactured using a heavy-walled brass outer tube, combined with the additional crimping to the inner tube to provide added rigidity and unparalleled resistance to bending in “crash” situations. There are no o-rings to leak and all water passage joints are silver soldered and 100% quality tested.

Our robust solid gooseneck design ensures less downtime due to less neck changes-outs, increased productivity and lower maintenance when compared to competitive torch designs.

**SECURE WATER-COOLED POWER CABLE SYSTEM** – All **American Weldquip** conventional water-cooled cable designs incorporate a KEVLAR™ cord in the cable bundle. On competitive, conventional water-cooled torches a common problem is the failure of the power cable when excess strain is put on the electrical connections. The Kevlar cord design takes all the “pulling” strain off the cable assembly to help eliminate costly power cable failures and water leaks.

**NEXT-GENERATION HYBRID WATER-COOLED DESIGN** – Experience the advantages of lower maintenance and downtime associated with air-cooled designs and the higher welding amperages and duty cycles of water-cooled.

Utilizing an air-cooled power cable and a water-cooled gooseneck offers a substantially low maintenance robotic torch package as compared to traditional water-cooled power cable designs. You can virtually eliminate water-cooled cable failures all together. Plus, you get the additional security of not damaging the torch if water flow is accidentally stopped or restricted.

**UNIQUE LOCATING FLAT** - All **American Weldquip** robotic torches and mounting arms incorporate a unique locating/positioning flat. The precision machined mating surfaces guarantee repeatable and accurate TCP positioning when changing out components.

**THREAD-ON NOZZLES** – Our heavy walled nozzles thread directly on the gooseneck to provide cooler operation and a longer lasting nozzle system. The course thread, fixed position design feature insures a constant tip to nozzle relationship and consistent welding parameters.

**COMMON CONSUMABLES** – Most torches are designed to utilize the same nozzle, tip, diffuser and liner to help reduce your inventory of consumable parts.

**AVAILABLE OPTIONS** - Internal Air Blast, Voltage and Touch Sensing and Replaceable Nozzle Seats.

**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!

# American Weldquip Total Robotic Package/Productivity Solutions



- **INSULATING DISK** – Designed to insulate robot and controller from welding current. In addition, protects robot in case of non-torch crash in the area of the ArcSafe™.
- **ARCSAFE™ and ARCSAFE™-SW** - provides the maximum collision protection in robotic applications. An inexpensive investment to protect equipment, tooling, reduce or eliminate expensive downtime and maintenance issues.
- **ARCSAFE SOLID MOUNT** - For use with robotic systems that provide software crash protection
- **SOLID TORCH MOUNTS** – CNC machined from solid aluminum bar stock guarantees accuracy and superior rigidity. Will not bend or break. The “Flange Lock” mounting feature insures TCP accuracy and orientation when installing on the ArcSafe™.
- **PRECISION LOCATING FLAT** – Our “Unique” precision machined locating flats between the torch mount and gooseneck provide accurate and repeatable TCP alignment when changing out torches or goosenecks. No keys or pins to come loose or fall out.
- **ROBUST GOOSENECK DESIGN** – Heavy-Duty, durable gooseneck with thick-walled brass outer tube and copper conductor provides superior strength in crash situations. The outer tube is crimped to the inner tube which increases bending resistance insuring less downtime and maintenance costs.
- **LONG LIFE CONSUMABLES** – The thread-on nozzle system, in combination with genuine American Weldquip contact tips and diffusers, work together as a team to provide cooler operation and extended life.



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

The Robo-Quip optimizes all the advanced features in a clean, simple design. It is uncomplicated and does not utilize expensive PC boards or other parts found in competitive brands. All the while, offering the same advanced features such as Ethernet and DeviceNet capabilities.

See Catalog Sheet CAT010 for more information



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.

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

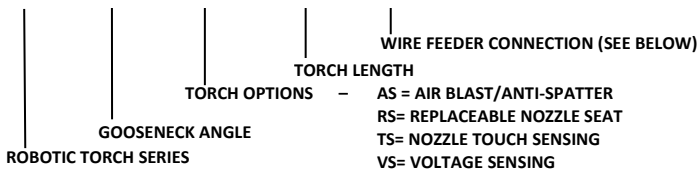
See Catalog Sheet CAT009 for more information

## TORCH RATINGS/STANDARD CONFIGURATIONS

TORCH SERIES	DESCRIPTION	100% Duty Cycle		60% Duty Cycle		TIP SIZE	TIP PART #	DIFFUSER	NOZZLE SIZE	NOZZLE PART #	LINER	INSULATING WASHER	GOOSENECK ANGLE
		CO2	MIXED GAS AR/CO2	CO2	MIXED GAS AR/CO2								
450R	450A Hybrid Air/Water Cooled	450A	375A	475A	450A	.045" (1.2mm) M8	75045014	75004033	5/8" (15.9mm)	75146202	750XX228T	75001004	SPECIFY
550R	550A Hybrid Air/Water Cooled	.550A	425A	575A	550A	.045" (1.2mm) M8	75045014	75004033	5/8" (15.9mm)	75146202	750XX228T	75001004	SPECIFY
600R	600A Water Cooled	600A	500A	625A	600A	.045" (1.2mm) M8	75045014	75004033	5/8" (15.9mm)	75146202	750XX228T	75001004	SPECIFY

## HOW TO ORDER

**550R** - **-22** - **AS** - **-15** - **P** - **A** (Aluminum)



\*\* Specify wire size and/or special configurations when ordering.

## WIRE FEEDER CONNECTION OPTIONS

B - EURO	H5 - HOBART® #5	O - OXO®
C - CENTURY®/POWCON®	K - KOBELCO®	P - PANASONIC®
CL - CLOOS®	L - LINCOLN® (LN7 STYLE)	T - TWECO®/HOBART® #4
D - OTC®/DAIHEN®	LU - LINCOLN® UNIVERSAL	TL - LINCOLN® POWER FEED 10
DP - OTC®/DAIHEN® DP SERIES	LT - L-TEC® 225	TS - TWECO® #5
	M - MILLER®	W - LINCOLN® WIREMATIC

# AMERICAN WELDQUIP

P.O. Box 397 • 1375 Wolf Creek Trail • Sharon Center, OH 44274-0397  
Phone (330) 239-0317 • Fax (800) 949-9353 • Web – www.weldquip.com



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