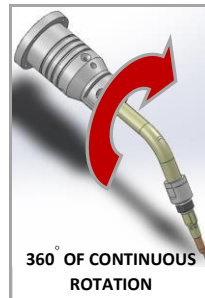


ARCSAFE™ ADVANTAGE SERIES 300/500 AMP AIR-COOLED ROBOTIC TORCH SYSTEM



ENGINEERED FOR THE LATEST
GENERATION THRU THE ARM
ROBOTIC WELDING SYSTEMS



FLAT OUT THE BEST



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. This system design concept allows lower inventory requirements by offering a common front platform across multiple brand name robots. 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.

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. Need crash sensing protection built in to the ArcSafe Advantage? You can easily add the CSU collision sensing unit. Require a wire locking system? Easily add on our Wire Lock module.

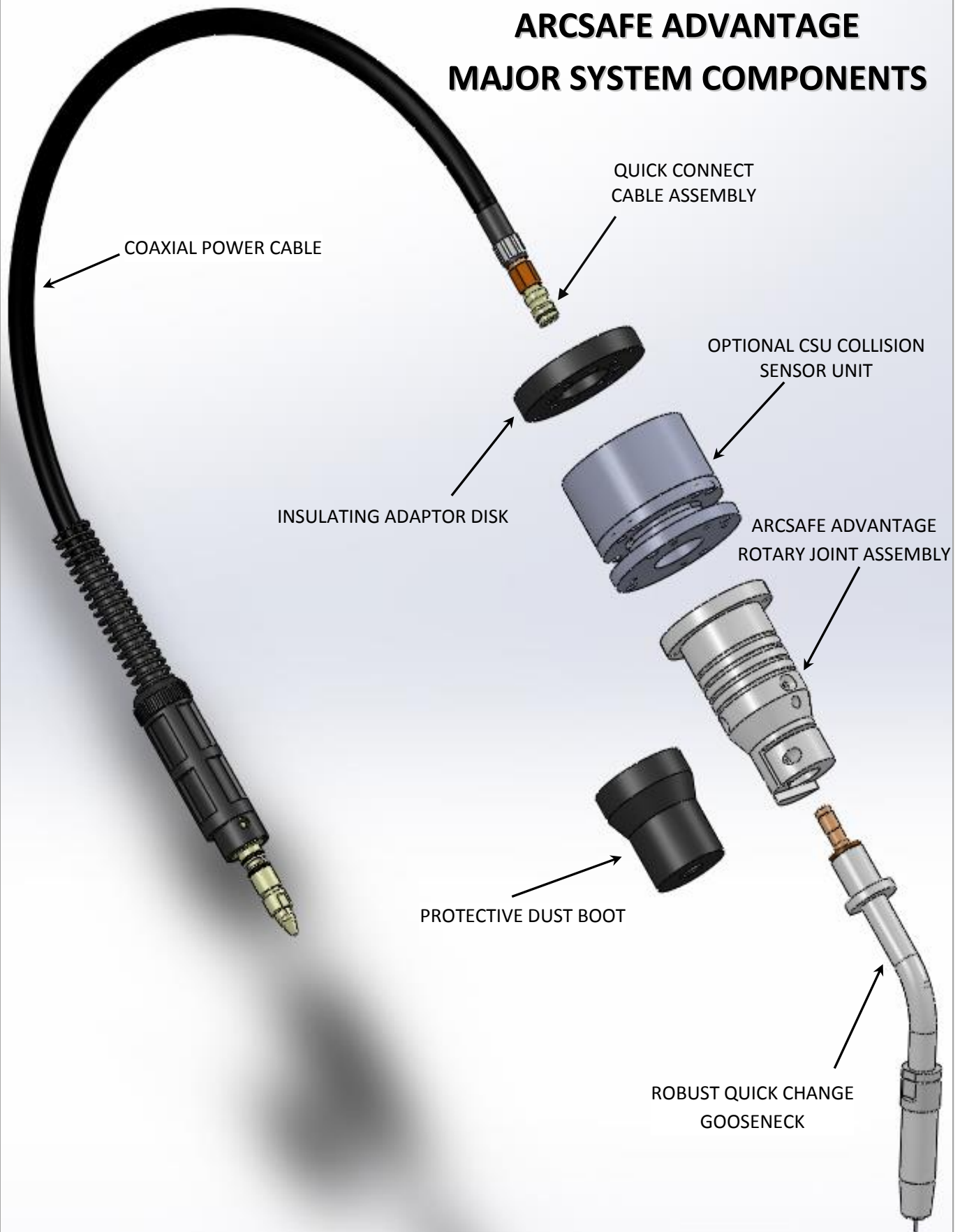
The ArcSafe Advantage systems unique rotary joint provides unlimited, continuous 360 degree rotation. The freedom of rotation allows for shorter rotational reorientations when weld programming. This feature reduces cycle times by allowing you to program the shortest off cycle path possible. The additional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

The Advantage Series quick change gooseneck incorporates our unique and proven "LOCATING FLAT" system. No pins or keys to fall out. American Weldquip's locating positioning flat has proven over and over again to be "**FLAT OUT THE BEST**" design to guarantee you repetitive TCP placement.

Our combination of a heavy-duty torch design with a unique positioning flat, high life consumables, optional CSU for collision protection and wire lock provide a highly accurate, repeatable and low maintenance "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.

ARCSAFE ADVANTAGE MAJOR SYSTEM COMPONENTS



American Weldquip's Total Robotic Package/Productivity Solutions

MODULAR DESIGN



The ArcSafe Advantage Series module design concept system allows lower inventory requirements by offering a common front platform across multiple robot manufacturer models. The unique and high flexibility feature of the ArcSafe Advantage Series Modular design allows you to easily add-on our CSU internal collision sensor unit, wire lock system and air-blast/anti-spatter. The unit's rugged and simple design offers low maintenance, easy repair if required and ensures high productivity.

360 DEGREE CONTINUOUS ROTATION

The unlimited freedom of 360 degree continuous rotation allows for shorter rotational reorientations when weld programming. This feature 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.



QUICK CHANGE GOOSENECK/ PRECISION LOCATING FLAT



The American Weldquip ArcSafe Advantage system utilizes a quick change gooseneck design for easy replacement. 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.

ROBUST GOOSENECK DESIGN

American Weldquip robotic air-cooled goosenecks are designed for superior strength and heat dissipation. Manufactured using a heavy-walled brass outer tube, combined with additional crimping to a thick-walled extruded copper inner tube provide added rigidity and unparalleled resistance to bending in "crash" situations. 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.

The rugged gooseneck design also acts as a radiator to effectively dissipate heat by providing a continuous metal to metal path from the front end parts to keep the consumables running cooler to insure longer life.



LONG LASTING CONSUMABLES/GOOSENECK LINER



Genuine American Weldquip tips, nozzles, diffusers work together to provide cooler operation, extended life and superior electrical conductivity. For even longer tip life try our HRT Heat Resistant Technology contact tips. Most torches are designed to utilize the same nozzle, tip, diffuser and liner to help reduce your inventory of consumable parts.

95% of liner wear and dirt accumulation occur in the gooseneck. Why incur the cost of replacing the whole liner when you do not need to. The ArcSafe Advantage system is supplied as standard with a front loading gooseneck liner. Just remove the consumables, remove the gooseneck liner and install the new one. It is as easy as that and only takes one minute.

INSULATING ADAPTOR DISK



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 SENSING UNIT/WIRE LOCK

The CSU Collision Sensing Unit integrated crash protection circuitry activates the robots emergency stop function in the event of a crash to immediately stop the robot movement. The CSU allows for a spring deflection of 10 degrees to protect the torch, robot and equipment from damage. The CSU offers repetitive accuracy of +/- .010".

The optional wire lock unit is used in wire touch sense applications where it is critical that the wire not move during the touch operation. The wire lock unit is pneumatically controlled.



MADE IN THE USA

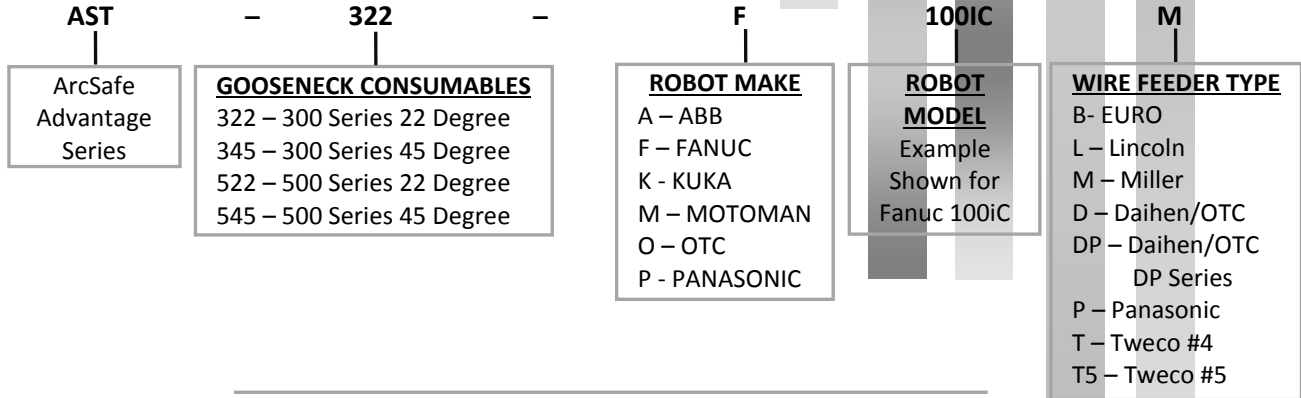


Engineered and manufactured in Sharon Center Ohio. Since 1987 we have been engineering and manufacturing rugged and dependable robotic torches to help our customers lower maintenance costs, increase consumable life and ensure a lower total cost of ownership.

HOW TO ORDER

Part number for the system provides everything you require for the specify robot make and model. Note that the system is for robots with built-in software crash detection. If you require collision sensing in the ArcSafe Advantage you will need to order the AST Collision Sensing Unit Option separately.

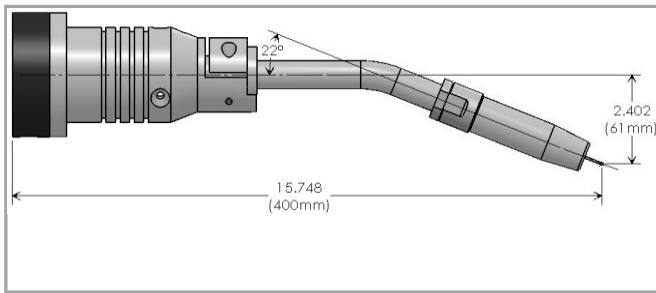
Part Number Configuration



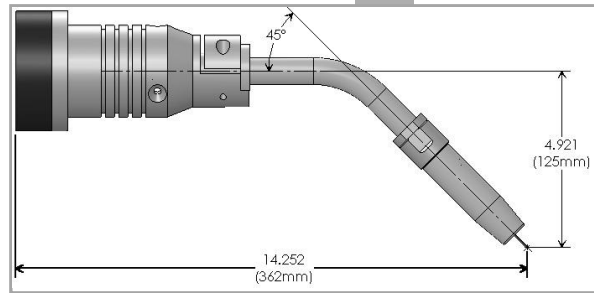
OPTIONS

AST Collision Sensing Unit -	CSU-2500 – Available August 2014
Air Blast Anti-Spatter -	AB-500
Wire Lock Unit -	WL-500

DIMENSIONAL SPECIFICATIONS



**300/500AMP
22 DEGREE**



**300/500AMP
45 DEGREE**

SYSTEMS STANDARDS

GOOSENECK SELECTION	DESCRIPTION	100% Duty Cycle		60% Duty Cycle		TIP SIZE	TIP PART #	DIFFUSER	NOZZLE SIZE	NOZZLE PART #	FEEDER CONNECTION	GOOSENECK ANGLE
		CO2	MIXED GAS AR/CO2	CO2	MIXED GAS AR/CO2							
300 Series	300A Air-Cooled	350A	300A	375A	350A	.035" (1.2mm) M6	75035511	75002007	9/16" (15.1mm)	75135601-I	EURO	Specify 22 or 45
500 Series	500A Air-Cooled	500A	400A	550A	500A	.045" (1.2mm) M8	75045014	75004033	5/8" (15.9mm)	75146202	EURO	Specify 22 or 45

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