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.

Designed, Engineered and Manufactured
in our Wadsworth, Ohio Facility
SInce 2014

Robo-Quip pictured above shown with optional wire cutter

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.

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
Functional test buttons for spray and reamer operation allow fast testing of components.

INLET AIR PRESSURE GUAGE
Allows you to quickly and easily monitor the incoming air supply to the reamer.

DIFFERENT COMMUNICATION PROTOCOL OPTIONS
Modbus · EtherNet/IP · DeviceNet · PROFIBUS · PROFINET

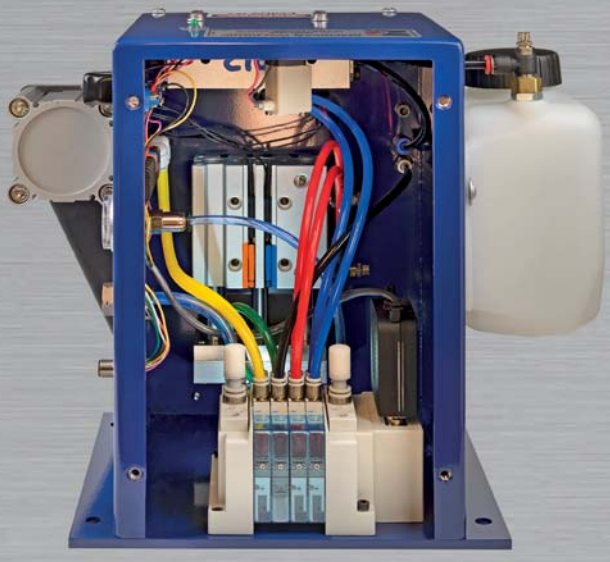
LARGE ANTI-SPATTER RESERVOIR
Hold 50% more anti-spatter solution with the 1 1⁄2 quart reservoir.

ADAPTOR PLATES
Adaptor plates are available for mounting to competive reamer stands.

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 up to 1/16 (1.6mm). It is the perfect option for the Robo-Quip to condition 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.



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

ENGINEERED FOR EASY MAINTENANCE
All components are easily accessible for testing and/or maintenance.

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 –	500 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-5000M	ModBus ROBO-QUIP Robotic Nozzle Cleaning Station
RQ-5000MWC	ModBus 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

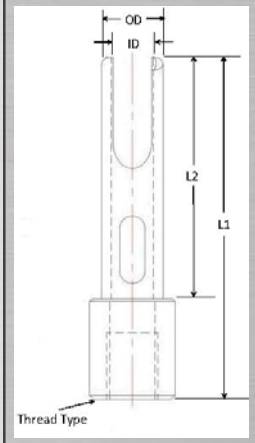
** Robo-Quip Nozzle Cleaning Station is shipped standard with 5/8"(16mm) Part #RB625 Reaming Blade. Specify reamer blade size when ordering if different then the standard.

OPTIONS

PART #	DESCRIPTION
RG-RB625	Alignment Tool for 5/8"(16mm) Nozzles- *Other sizes availble, consult the factory or your AWQ representative.
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
RQ-0054	Robo-Quip Guard Kit
RQ-0056	Robo-Quip with Wire Cutter Guard Kit

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 Wadsworth, Ohio so you are always guaranteed the quality you can trust.**

HOW TO ORDER

PART NUMBER	BLADE TYPE	NOZZLE BORE SIZE	OD	ID	L1	L2	THREAD TYPE	REAMER SPECIFIC
RB500	DUAL	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	AWQ
RB500B	DUAL	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	3.02"(76.7mm)	1.75"(44.7mm)	Male – M24x1.5	Binzel
RB500-04TRG	DUAL	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	1.65"(42mm)	1.10"(28mm)	Male - 3/8-24	Tregaskiss
RB500S	SINGLE	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	AWQ
RB560	DUAL	9/16" (15mm)	.555"(14.1mm)	.433"(11mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	AWQ
RB560-01	DUAL	9/16"(15mm)	.535"(13.5mm)	.393"(10mm)	1.65"(42mm)	1.10"(28mm)	Female - 3/8-24	AWQ
RB560-01B	DUAL	9/16" (15mm)	.535"(13.5mm)	.393"(10mm)	2.11"(53.5mm)	1.10"(28mm)	Male – M24x1.5	Binzel
RB560S	SINGLE	9/16" (15mm)	.555"(14.1mm)	.433"(11mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	AWQ
RB560-01TRG	DUAL	9/16" (15mm)	.535"(13.5mm)	.393"(10mm)	1.65"(42mm)	1.10"(28mm)	Male - 3/8-24	Tregaskiss
RB625 (STANDARD)	DUAL	5/8" (16mm)	.610"(15.5mm)	.511(13mm)	2.69"(68mm)	2.13"(54mm)	Female - 3/8-24	AWQ
RB625B	DUAL	5/8" (16mm)	.610"(15.5mm)	.511(13mm)	3.152"(68mm)	2.13"(54mm)	Male – M24x1.5	Binzel
RB625S	SINGLE	5/8" (16mm)	.610"(15.5mm)	.511(13mm)	2.69"(68mm)	2.13"(54mm)	Female - 3/8-24	AWQ
RB625-01TRG	DUAL	5/8" (16mm)	.610"(15.5mm)	.511(13mm)	2.69"(68mm)	2.13"(54mm)	Male - 3/8-24	Tregaskiss
RB625-01	DUAL	5/8" (16mm)	.610"(15.5mm)	.453"(11.5mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	AWQ
RB625-02	DUAL	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	2.95"(75mm)	2.14"(54mm)	Female - 3/8-24	AWQ
RB625-03	DUAL	5/8" (16mm)	.590"(15mm)	.433"(11mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	AWQ
RB625-03B	DUAL	5/8" (16mm)	.590"(15mm)	.433"(11mm)	3.02"(71.4mm)	1.75"(44.7mm)	Male – M24x1.5	Binzel
RB750	DUAL	3/4" (19mm)	.704"(17.9mm)	.508"(12.3mm)	2.56"(65mm)	1.75"(44.7mm)	Female - 3/8-24	AWQ
RB750-01TRG	DUAL	3/4" (19mm)	.704"(17.9mm)	.508"(12.3mm)	2.56"(65mm)	1.75"(44.7mm)	Male - 3/8-24	Tregaskiss