

ROBO-QUIP ROBOTIC NOZZLE CLEANING STATION



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.

- **SELF-ADJUSTING NOZZLE CLAMP SYSTEM**
The Robo-Quip incorporates a self-adjusting nozzle clamping assembly. There is NO V-BLOCK and NO NEED to readjust when switching from one size OD nozzle to another. The precision 4-point systems allows for exact alignment of the nozzle to the cutter blade every time.

- **DIFFERENT COMMUNICATION PROTOCOL OPTIONS**



- **NO EXPOSED PNEUMATIC OR ELECTRICAL LINES**
All electrical and pneumatic lines are contained inside the unit offering protection from physical and UV damage.
- **INLET AIR PRESSURE GAUGE**
Easily monitor the required air supply to the reamer.
- **FAST & EASY SETUP**
The special SETUP switch allows for fast, easy setup by allowing positioning of the robot and nozzle over the reamer blade for an uncomplicated setup procedure.
- **MODULAR VALVE MANIFOLD SYSTEM**
The use of a completely modular valve terminal offers compact and easy serviceability. The manifold system offers extremely high flow rates and is easy to service if required.
- **EASY MAINTENANCE**
Quick access at rear of the unit for fast repair or maintenance. All "quick disconnect" pneumatic air lines are color coded to their specific operation for easier identification and service.
- **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.
- **TCP CHECKING**
Supplied as standard is a TCP pointer.
- **TEST BUTTONS**
Functional test buttons for spray and reamer operation allow fast testing of components.
- **OPTIONAL 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.

Specifications – RQ-5000

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 Voltage –	24 VDC

How to Order – (Specify Reamer Blade When Ordering)

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-5000D	DeviceNet ROBO-QUIP Robotic Nozzle Cleaning Station w/Wire Cutter
RQ-0050	32" Reamer Stand

OPTIONS

RQ-0075	Spray Enclosure Hose Drainage System – Replaces the excess spray bottle. Includes adaptor, hose and 1-gallon container.
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REAMER BLADES

Manufactured from tool steel and hardened to guarantee long life. The dual cutting blade design provides additional cleaning action and increased durability even in high weld spatter environments. Automating your robotic nozzle cleaning operation saves you downtime, increases production and reduces costs.

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

