

NOZZLE CLEANING STATIONS

ROBOTIC RCS-1000



Optional WC-1000 Wire Cutter

Reduce Cycle Time - Clamp, Ream and Spray In One Location

The RCS-1000 Robotic Nozzle Cleaning Station offers a complete solution for precise and effective spatter removal and nozzle cleaning in robotic applications. Integrated features allow the easy use with any make and models of robotic equipment. The “Through the Cutter Spray” system helps to reduce cycle time which is important in high speed robotic welding environments.

The robust design of the RCS-1000 provides the following features:

- **Quick and Easy Installation** – Quick disconnect fittings and electrical connections provide easy installation.
- **Electronic Cycle Control** – Electronic Cycle Control gives you precise timing and programming of the reaming/spray cycle. In addition, adjustable flow control valves are provided for speed control of the up/down ream cycle.
- **Adjustable Center Spray** – An electronically controlled venturi spray system provides application of anti-spatter thru the center of the cutter blade. Clamp, Ream and Spray in one location to reduce cycle time. A flow control valve provides for more exact control of anti-spatter application.
- **Adjustable 3-Point Clamping System** - The precision 3-point systems allows for exact align of the nozzle to the cutter blade every time. The adjustable v-Block accommodates any diameter nozzle. No need to change out expensive V-Blocks.
- **Easy Maintenance** – Quick access at rear of the unit for fast repair or maintenance. We use quick disconnect air fittings for easy removal of pneumatic parts. Functional test buttons for spray and reamer operation allow fast testing of components. Most individual parts are “off the shelf” meaning you can purchase from local part supply houses.
- **Dual Cutting Blade** - 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.
- **Optional Wire Cutter** - The WC-1000 pneumatic wire cutter is designed to remove the ball end of the welding wire for consistent wire stick-out and provide smoother arc starting. The WC-1000 can be easily mounted in a remote location or directly in the RCS-1000 Nozzle Cleaning Station. The WC-1000 can be used with all make and models of robotic equipment.

MANUAL MCS-500



The MCS-500 Manual Nozzle Cleaning Station offers a complete solution for precise and effective spatter removal and nozzle cleaning in manual semi-automatic applications. Just insert nozzle into the holder and push down. An air motor rotates the cutter blade to effectively clean weld spatter for the interior of the nozzle. Place the torch nozzle in the integrated spray nozzle for anti-spatter application. The robust design provides the following features:

- **Quick and Easy installation** – Quick disconnect fittings provide easy installation.
- **Easy Maintenance** – Quick Access at rear of unit for fast repair, maintenance and anti spatter container. We use quick disconnect air fittings for easy removal of pneumatic components.
- **Dual Cutting Blade** - 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.

Specifications - RCS-1000

Air Requirements – 80-120 psi @8 scfm/Min (Clean Shop Air) --- Cutter Speed – 750 – 800 RPM
 Dimensions – 6.50”(165.1mm) x 6.0”(152.4mm) x 12.0”(304.8mm) --- Weight – 27 lbs.(12.24Kg), 31lbs.(14.061Kg)
 w/ WC1000

Specifications – MCS-500

Air Requirements – 80-120 psi @5 scfm/Min(Clean Shop Air) --- Cutter Speed – 750 – 800 RPM
 Dimensions – 6.375”(160mm) x 9.875”(250mm) x 21.625”(550mm) --- Weight – 15 lbs.(6.80Kg)

How to Order – (Specify Reamer Blade When Ordering)

RCS-1000 Robotic Nozzle Cleaning Station
 WC-1000 Wire Cutter
 MCS-500 Manual Nozzle Cleaning Station
 RS-050 32” Reamer Stand for the RCS-1000

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)	1.76"(44.7mm)	Female - 3/8-24	
RB-500B	1/2" (13mm)	.490"(12.5mm)	.374"(9.5mm)	2.56"(65mm)	1.76"(44.7mm)	Male – M24x1.5	Binzel
RCT-04	1/2" (13mm)	.490"(12.5mm)	.354"(9mm)	1.65"(42mm)	1.10"(28mm)	Male - 3/8-24	Tregaskiss
RB560	9/16" (15mm)	.555"(14mm)	.435"(11mm)	2.56"(65mm)	1.76"(44.7mm)	Female - 3/8-24	
RB560-01	9/16" (15mm)	.535"(13.5mm)	.391"(10mm)	1.65"(42mm)	1.10"(28mm)	Male - 3/8-24	Tregaskiss
RB560-01B	9/16" (15mm)	.535"(13.5mm)	.391"(10mm)	2.11"(53.5mm)	1.10"(28mm)	Male – M24x1.5	Binzel
RB625	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	2.69"(68mm)	2.14"(54mm)	Female - 3/8-24	
RCT-01	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	2.69"(68mm)	2.14"(54mm)	Male - 3/8-24	Tregaskiss
RB625-01	5/8" (16mm)	.610"(15.5mm)	.453"(11.5mm)	2.56"(65mm)	1.76"(44.7mm)	Female - 3/8-24	
RB625-02	5/8" (16mm)	.610"(15.5mm)	.511"(13mm)	2.95"(75mm)	2.10"(54mm)	Female - 3/8-24	
RB625-03	5/8" (16mm)	.590"(15mm)	.433"(11mm)	2.56"(65mm)	1.76"(44.7mm)	Female - 3/8-24	
RB625-03B	5/8" (16mm)	.590"(15mm)	.433"(11mm)	2.81"(71.4mm)	1.55"(39.4mm)	Male – M24x1.5	Binzel

