

# Power REAM® II

## Robotic Torch Maintenance Center



Shown: Power REAM II - K2391-2

Maintain high quality and productivity in your robotic MIG welding cell with the Power REAM II from Lincoln Electric. This robotic MIG welding torch maintenance center removes and reduces spatter accumulation for improved welding performance.

The Power REAM II detects excessive spatter build-up, preventing the reamer from fully extending into the nozzle. When this occurs, the reamer retracts and automatically retries.

On-board diagnostic indicator lights and error codes allow trouble-free setup, fast maintenance and easy replacement of standard components.

### Application »

Robotic Fabrication

### Processes »

Reamer, Sprayer, Wire Cutter

### Output »



### Input »



### Product Number »

Power REAM II - K2391-2

### Compatible Robot Arms »

- » FANUC®
- » Yaskawa®
- » ABB®
- » Kuka®
- » Kawasaki®

### Wire Diameter Range »

- » 0.030 – 1/16 in [0.8 – 1.6 mm] solid wire

### MIG Nozzle Outer Diameter (O.D.) Range »

- » 0.625 - 1.25 in [5/8 - 1/4 mm]

## FEATURES

- » **Standard Wire Cutter** – provides consistent wire stickout and removes the ball at the end of the welding wire for superior arc starting performance.
- » **Error Signal Feedback** – Power REAM II returns to the home position signaling the robot to end weld cycle
- » **Reaming Bits** – flute design for discharging spatter
- » **Electronic Components** – mounted in separate enclosure for high reliability and ease of service
- » **Self-centering Gripper** – cross-hatch face with diamond grip provides a secure grip
- » **Spatter Guard** – mounted to the gripper housing keeping debris from entering
- » **Spray Containment Unit** – catch basin collects over-spray to reduce slag and spatter residue left on the reamer & jigs. Quick fitting can connect to the drain-line collecting unused anti-spatter fluid for disposal.

## WHAT'S INCLUDED<sup>[1]</sup>

- » Reaming Station
- » Wire Cutter Assembly
- » Anti-Spatter Sprayer
- » 5/8in (15.9 mm) Reaming Bit
- » Spray Containment Unit

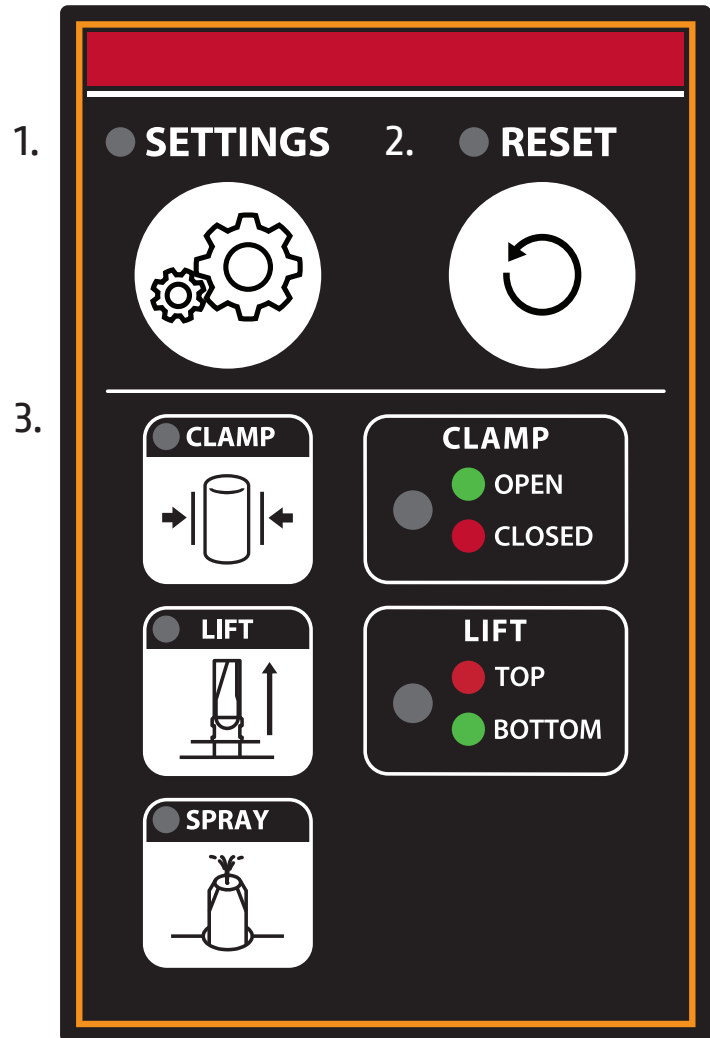
### Note:

Power REAM II does not include the Power REAM Connection Cable







[1] Additional options: Nozzle gas flow sensor and nozzle detection sensor must be factory installed.

## KEY CONTROLS

1. **Reset Control** – Overrides the reamer commands, sending system back to the home position
2. **Settings Control** – Ability to configure features and assist with maintenance of the system
3. **Actuator Control** – Manual operation to assist in programming robot position and troubleshooting



## RECOMMENDED ACCESSORIES TO EXPAND MACHINE CAPABILITIES

	Product Number	Product Name	Description
	K2433-1	Power REAM® Connection Cable	20 feet (6.0m) replacement control cable.
	K2434-1	Remote Power REAM® Reservoir Kit	Includes mounting bracket and fittings to remount the anti-spatter spray reservoir from the top of the reamer to another location within the robotic cell.
	KP2435-1	Reaming Bit 1/2in (12 mm)	Spatter reaming bit for a 1/2in (12 mm) I.D. gun nozzle.
	KP2435-3	Reaming Bit 5/8in (15.9 mm)	Spatter reaming bit for a 5/8in (15.9 mm) I.D. gun nozzle.
	KP2435-5	Reaming Bit 3/4in (19 mm)	Spatter reaming bit for a 3/4in (19 mm) I.D. gun nozzle.
	KP2457-1	Anti-spatter Fluid	1 Gallon

## PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Input Air Pressure and Flow	Rated Output	Input Current	H x W x D inches (mm)	Net Weight lbs. (kg)
Power REAM II	K2391-2	24V DC	80 PSI 15 SCFM	1100 rpm 0.65 HP	0.50A DC	Dimensions with Reservoir 25.9 x 8 x 14.5 (657 x 203 x 368)	62 (28)

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables. Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for more details.

Manufactured at a facility with certified ISO Quality and Environmental Management Systems.

All trademarks and registered trademarks are the property of their respective owners

### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.



The Lincoln Electric Company  
22801 St. Clair Avenue · Cleveland, OH · 44117-1199 · U.S.A.

[www.lincolnelectric.com](http://www.lincolnelectric.com)