

Power REAM®

Processes

Reamer, Sprayer, Wire Clipper

Product Number

K2391-1

See back for complete specs

Input Power

24V DC

Input Air Pressure and Flow

80 PSI

15 SCFM

Rated Output

1100 rpm, 0.65 HP

Input Current

0.50A DC

Weight/Dimensions (H x W x D)

62 lbs. (28 kg)

With Reservoir

24.9 x 8.9 x 13.2"

(633 x 228 x 337 mm)

Robotic Torch Maintenance Center

Maintain high quality and productivity in your MIG robotic welding cell with the Power REAM® from Lincoln Electric. This automatic nozzle cleaning station removes and reduces spatter accumulation for improved welding performance.

FEATURES

- ▶ **The Power REAM® delivers features unmatched in current competitive models** - The design of the Power REAM® offers a simple pushbutton “No Error” programming technique, with the added advantage of interactive process monitoring.
- ▶ **The Power REAM® is the only reamer to offer an automatic retry feature** - It detects when excessive spatter builds up, preventing the reamer from fully extending into the nozzle. When this occurs, the reamer retracts and automatically retries.
- ▶ **Diamond-shaped clamp design** - Provides a positive, self-centering grip on all nozzle sizes.
- ▶ **Input and output signals** - Easily configured, allowing simple integration for all makes and models of robot systems.
- ▶ **Vortex action anti-spatter sprayer** - Uniformly coats the inside of the nozzle for superior protection against weld spatter build-up.
- ▶ **Maintenance features** - On-board diagnostic indicator lights and error codes allow trouble-free setup, fast maintenance, and easy replacement of standard components.
- ▶ **Standard integrated wire clipper** - Provides consistent wire stickout and removes the ball end of the welding wire to provide superior arc starting performance for .030” - 1/16” (0.8-1.6mm) solid wires.



WHAT'S INCLUDED

K2391-1 Includes:

- ▶ Reaming Station (5/8” reamer bit included).
- ▶ Spray System.
- ▶ Wire Cutter.
- ▶ 20 ft. (6.0m) Input Cable.

INPUT



OUTPUT



1

1 YEAR WARRANTY
PARTS AND LABOR
AÑOS DE GARANTIA
PARTES Y MANO DE OBRA
ANS DE GARANTIE
PIÈCES ET MAIN D'OEUVRE

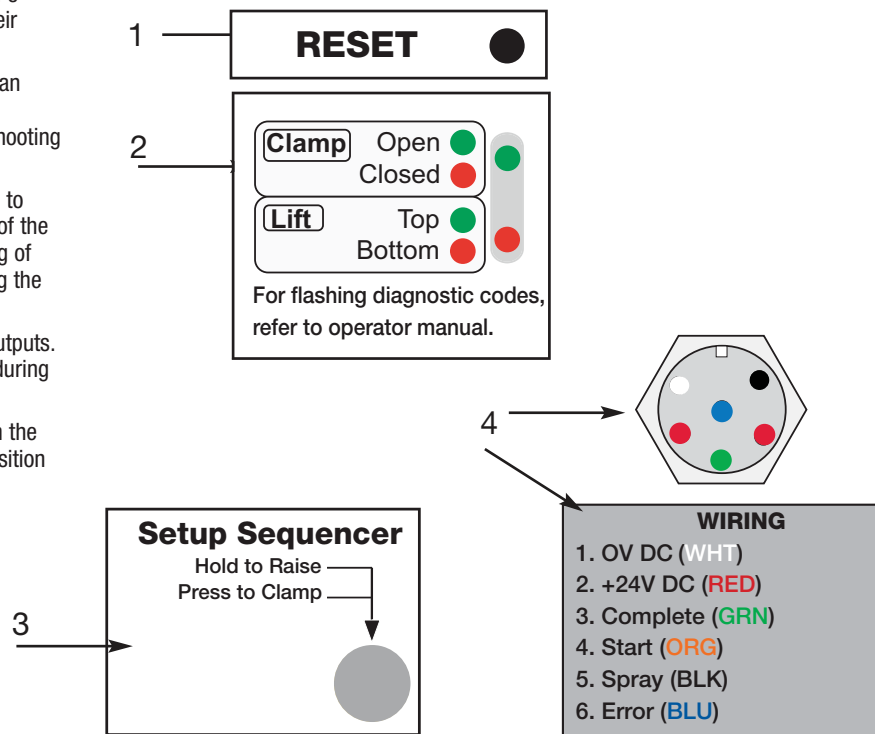
PERFORMANCE

The Power REAM® controls the entire reaming process with its internal microcontroller. Every aspect of the reaming cycle is commanded, monitored and checked by the controller. The feedback signal to the robot is a true “complete” signal indicating that the entire sequence has been executed without error.



KEY CONTROLS

- 1 Fail-safe reset pushbutton overrides the microcontroller’s commands to the cylinders and sends them back to their home position.
- 2 Diagnostic LEDs are visible to an operator and provide an indication of the position of the air cylinders. If an error occurs, corresponding flash error codes make troubleshooting much easier.
- 3 “No Error” programming: The setup pushbutton is used to sequence the reamer solenoids for easy programming of the correct position the very first time. Subsequent pressing of the button will raise the reaming head (without spinning the ream bit), then grip and release the nozzle.
- 4 Easy configuration of sinking vs. sourcing inputs and outputs. No need to open the case to set internal dip-switches during installation!
-Error signal feedback to the robot: If an error occurs in the process, then the Power REAM® returns to its home position and sends an error signal to the robot.



QUALITY AND RELIABILITY

- Powerful constant torque drive system provides non-stall capability. The motor travels with the reaming bit, a design feature that aids reliability and extends motor service life, up to 2.4 million cycles.
- Reaming bits are precision manufactured from tool steel with titanium nitride coating.
- Dry-run feature helps prevent accidental damage to the unit.
- Synchronous timing belt does not allow slippage, avoiding excessive belt wear.
- Wire cutter jaws designed for up to 90,000 cycles.
- One-year warranty on parts and labor.

RECOMMENDED ACCESSORIES TO EXPAND MACHINE CAPABILITIES

GENERAL OPTIONS



Power REAM® Robot Cable
20 feet (6.0m) replacement control cable. Reamer side has a thread on connector. Controller side has stripped wires for connection to a terminal strip.
Order K2433-1



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.
Order K2434-1



Reaming Bit 1/2" (12 mm)
Spatter reaming bit for a 1/2" (12 mm) I.D. gun nozzle.
Order KP2435-1



Reaming Bit, 5/8" (15.9 mm)
Spatter reaming bit for a 5/8" (15.9 mm) I.D. gun nozzle.
Order KP2435-3



Reaming Bit, 3/4" (19 mm)
Spatter reaming bit for a 3/4" (19 mm) I.D. gun nozzle.
Order KP2435-5



Anti Spatter Fluid
1 Gallon
Order KP2457-1



Power REAM® Utility Stand
Lifts Power REAM® to convenient work height.
Order L10412-51

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®	K2391-1	24V DC	80 PSI 15 SCFM	1100 rpm, 0.65 HP	0.50A DC	with reservoir 24.9 x 8.9 x 13.2 (633 x 228 x 337) without reservoir 19.5 x 8.9 x 13.2 (495 x 228 x 337)	62 (28)

**For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables.
Visit www.lincolnelectric.com for more details.**

CUSTOMER ASSISTANCE POLICY

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