



INTELLIREAM® DD-EIP

DIRECT DRIVE ROBOTIC TORCH MAINTENANCE CENTER

Extend the life of your robotic MIG torch and improve cycle time in your robotic welding cell with the Nasarc Intelliream® DD-EIP (Ethernet Industrial Protocol) model. Designed to improve overall welding equipment effectiveness, this robotic torch maintenance center systematically removes and limits spatter accumulation for enhanced productivity.

The Intelliream® DD-EIP model provides additional functionality including: enhanced command and diagnostic signals, direct access to process controls and feature configuration. The complete process is managed by the internal CPU.

PRODUCT ADVANTAGES

Automated Nozzle Reamer:

- Independent reaming cycle uses a high-strength coated reaming bit designed to effectively remove and discard spatter from the nozzle. A two stage de-ringer removes the spatter ring at the bottom of the nozzle before reaming. The automatic retry feature ensures the nozzle is reamed to full depth.

Automated Wire Cutter:

- The innovative pinch-off wire cutter design creates a "V" shape for optimal arc starts. It is powerful and precise enough to handle all wire sizes up to 1/16" mild steel.

Automated Anti-Spatter Sprayer:

- Vortex action sprayer delivers a radial spray pattern to uniformly coat the interior surface of the nozzle and help prevent spatter buildup. The anti-spatter fluid reservoir may be mounted remotely.

Nozzle Gas Flow Sensor:

- Designed to detect and measure adequate gas flow at the point of use.

Nozzle Presence Sensor:

- Post-cleaning, presence sensor ensures the nozzle is secured and ready for the next weld.

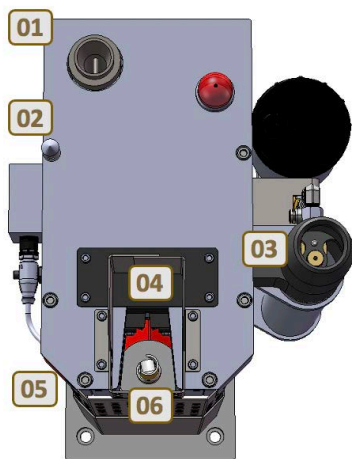
Intuitive User Interface:

- Designed to allow for easy setup, diagnostics and reporting at point of use.

TECHNICAL DATA

Footprint Size:	19" H x 12" L x 10" W
Cutter Speed:	320 RPM
Air Driven Motor:	0.5 HP
Wire Cutter Diameter:	0.030" - 0.0625"
Air Supply:	80 PSI, 17 SCFM
Power Supply:	24 VDC, 0.75 A

PROCESS HIGHLIGHTS



- 01 Nozzle gas flow sensor detects gas flow at the point of use.
- 02 TCP check pin verifies positional accuracy of the tool center point.
- 03 Vortex action sprayer delivers a radial spray pattern to uniformly coat the interior surface of the nozzle.
- 04 Pinch-off wire cutter is integrated in the clamp housing for easy and quick access, minimizing cobot movement.
- 05 Nozzle detect ensures that the nozzle is fastened on the torch.
- 06 Automated reaming cycle uses a high-strength coated reaming bit.

PERFORMANCE

The networked Intelliream® DD-EIP provides additional performance over traditional reamers.

- Ease of installation and seamless integration with controller.
- Troubleshooting via diagnostics at the cobot or PLC.
- Expandable platform for feature upgrades.
- Single connection for multiple cobots.
- Data acquisition of process counters and solenoid/cylinder activation timers.

Interface Wiring

- | | |
|---------------------|-------|
| 1. +24 VDC Actuator | (BRN) |
| 2. +24 VDC Control | (WHT) |
| 3. 0 VDC Control | (BLU) |
| 4. 0 VDC Actuator | (BLK) |

FEATURES & BENEFITS

The Intelliream® DD-EIP torch maintenance center incorporates the following advantages enabled by network connectivity:

- 01 Separate connections for control and solenoid power. The solenoid power may be tied into a safety circuit and interrupted in an emergency condition. The control connection supplies power to the node and sensors in order to maintain network communications.
- 02 Advanced diagnostic and troubleshooting tools helps pinpoint issues and decrease downtime.
- 03 Consumable usage and replacement alerts (anti-splatter fluid, wire cutter, ream bit) assist with preventative maintenance efforts.
- 04 Add-on instruction (AOI) is available for Logix PLCs to cut integration time and costs.

- The electronics are enclosed in the RCM-2N control module. The control module is easily removed from the side of the machine and disconnected without removing the front or rear panels.
- Magnetic sensors are utilized for optimum position accuracy and reliability.
- Dry-run and sensor override modes make setting up and trouble-shooting easier.
- Self-centering grip design for positive traction on all nozzle sizes.
- On-board diagnostics indicate position and fault codes for ease of troubleshooting.
- A status light signals when the unit is operating and flashes diagnostic codes if a fault occurs.

