



INTELLIREAM®DD-IOL

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-IOL (IO-Link™) 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-IOL model provides additional functionality including enhanced command and diagnostic signals. 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:

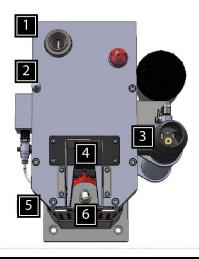
• Designed to allow for easy setup, diagnostics and reporting at point of use.

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, 0.5 A



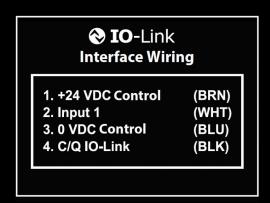
PROCESS HIGHLIGHTS

- **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-IOL provides additional performance over traditional reamers.

- Ease of installation and seamless integration with controller.
- I/O Link™ is available as a port class A device.
- Troubleshooting via diagnostics at the robot or PLC.
- Expandable platform for feature upgrades.
- Single connection for multiple robots.
- Data acquisition of process counters.



INDUSTRY 4.0 FEATURES & BENEFITS

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

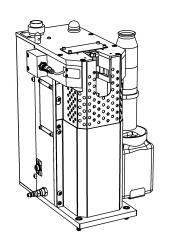
- Cycle counter and preventive maintenance countdown will boost uptime and improve overall equipment effectiveness.
- Add-on instruction (AOI) is available for Logix PLCs to cut integration time and costs.
- Magnetic sensors are utilized for optimum position accuracy and reliability.
- Dry-run and sensor 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.
- Advanced diagnostic and troubleshooting tools help pinpoint issues and decrease downtime.



FLEXIBLE MOUNTING OPTIONS

There are 2 _ ag` f[` Y abf[a` e.

- 1) Mounting Box A mounting box can be used to mount on any fixture or table.
- 2) Floor Mount Stand (various heights available)



ORDERING INFORMATION

STANDARD EQUIPMENT

INTELLIREAM® DD-IOL Spray System TCP Check Pin Status Light De-ringer Fluid Reservoir IRM040001-DD-IOL

FACTORY INSTALLED OPTIONS

Mounting BoxIRX120099-00Mounting Box TrayIRX120099-01Mounting Box Adapter (IRM02/IRM03)IRX120099-03Wire CutterIRW010099-00Nozzle Detect AssemblyIRE120099-02Nozzle Gas Flow SensorNAC40



Reaming Bit, 1/2" IRB010500-00 Reaming Bit, 1/2" Bottleneck IRB010501-00 Reaming Bit, 15.5mm IRB01M155-00 Reaming Bit, 5/8" IRB020625-00 Reaming Bit, 3/4" IRB010750-00 IO-Link Cable, 4 pin, 10m IRE060017-00 Floor Mount Stand, 30" DD IRX120099-30 Anti Spatter Bulk Feed DD IRS120099-06

