



# **INTELLIREAM®-IOL**

### 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®-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®-IOL model provides additional functionality including enhanced command and diagnostic signals. The complete process is managed by the internal CPU.

**IO**-Link

# 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 Detect Sensor:**

• Post-cleaning, detect 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: H: 20.6", W: 11", D: 12.1"

Cutter Speed: 1100 RPM Air Driven Motor: 0.60 HP

Wire Cutter Diameter: 0.030" - 0.0625"
Air Supply: 80 PSI, 16.5 SCFM
Power Supply: 24 VDC, 0.75 A



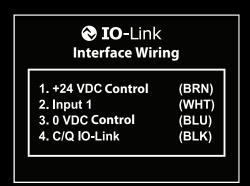
### PROCESS HIGHLIGHTS

- 1 Nozzle gas flow sensor detects gas flow at the point of use.
- 2 TCP check pin verifies positional accuracy of the tool center point.
- **3** Vortex action sprayer delivers a radial spray pattern to uniformly coat the interior surface of the nozzle.
- 4 Pinch-off wire cutter is integrated in the clamp housing for easy and guick access, minimizing robot movement.
- 5 Nozzle detect sensor ensures that the nozzle is fastened on the torch.
- 6 Automated reaming cycle uses a high-strength coated reaming bit.

## **PERFORMANCE**

The networked INTELLIREAM®-IOL provides additional performance over traditional reamers.

- Ease of installation and seamless integration with controller.
- IO-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®-IOL torch maintenance center incorporates the following advantages enabled by network connectivity:

- Advanced diagnostic and troubleshooting tools help pinpoint issues and decrease downtime.
- 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.



# **ORDERING INFORMATION**

### **STANDARD EQUIPMENT**

INTELLIREAM®-IOL

Spray System TCP Check

Status Light De-ringer

Fluid Reservoir

IRM040001-IOL

### **FACTORY INSTALLED OPTIONS**

Wire Cutter IRW010099-00
Nozzle Detect Assembly IRE120099-02
Nozzle Gas Flow Sensor NAC40A

### **ACCESSORIES**

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"	IRX010001-00
Anti Spatter Bulk Feed	IRS120099-06