ID-NOVA™ PLATFORM · ROTARY MANIPULATION

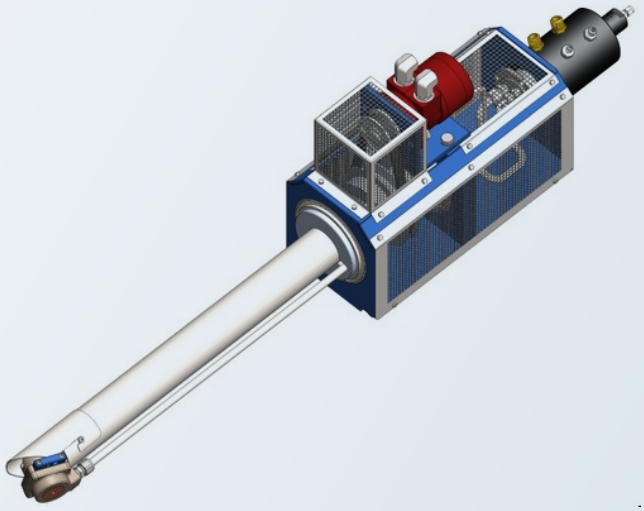
Pulsar

ID-Nova Rotation System

Precision rotary manipulation for
internal diameter coating of landing gear and large, fixed parts.

ROBOT-READY

Mounting for Kuka, Fanuc and ABB automation.



500 RPM	**2.35″**	**20** bar	**~48** kg
Maximum rotational speed	Minimum bore (59.7 mm)	Rotary union rating at 500 RPM	System weight (~105 lb)

OVERVIEW

Built for landing gear and other large, fixed components that cannot be rotated, the Pulsar ID-Nova Rotation System enables high-precision internal diameter coating in bores as small as 2.35″ (59.7 mm). Servo-driven control up to 500 RPM and a multi-circuit rotary union integrate seamlessly with Mini-Nova™ and ID-Nova MK7 torches. Manufactured with Arzell Inc., with universal robot mounting.

TECHNICAL SPECIFICATIONS

Max rotational speed	**500 RPM**
Weight & dimensions	**~105 lb (48 kg); 1220 × 200 × 400 mm (L × W × H)**
Extension tubes	**Up to Ø2.0313″ (51.6 mm) OD, lengths 500–1000 mm**
Rotary union	**Multi-circuit, 316 SS, rated 20 bar at 500 RPM for H_2, O_2, carrier gas, water and air**
Control integration	**ID-Nova H2V, Compact PLC, or standalone with HMI RPM control via EtherCAT**
Safety systems	**Safety controller, NEMA 4/12 enclosure, minimal maintenance**

KEY FEATURES

- Compatible with Mini-Nova™ and ID-Nova MK7 HVOF torches
- Servo-driven precision with indexable positioning
- Multi-circuit rotary union rated for 500 RPM
- Robot-ready mounting for Kuka, Fanuc and ABB
- Emergency stop and redundant safety protection
- Warm Spray compatible with inert gas injection

APPLICATIONS

01 **Landing gear** — Cylinder bores of large, fixed landing gear components.

02 **Aerospace MRO** — Combustion liners and vane interiors.

03 **Power generation** — Turbine housings and large-bore components with fixed mounting.

04 **Automotive & piston engines** — Cylinder bore coating for wear resistance.

05 **Oil & gas tooling** — Downhole component interiors and pump housings ≥ 2.35″ ID.

06 **Industrial & OEM** — Hydraulic cylinders, pipe systems and hard-to-rotate parts.

07 **Hard chrome replacement** — Compliant WC-CoCr coatings for regulatory phase-outs.

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