

HIGH POWER SLIP RING WITH FIBER OPTIC ROTARY JOINT

Model 130 with FORJ



Moog is a global leader in slip ring and rotary solutions, providing both standard and custom marine products engineered for harsh environments. As a trusted manufacturer of high-performance fluid rotary unions, slip rings, and fiber optic rotary joints (FORJs), our engineering team developed the Model 130 High Power Slip Ring with FORJ—commonly referred to as the “trencher slip ring.” Designed to meet the demands of high-duty workloads, the Model 130 delivers increased power capacity while effectively managing electrical stressors required for continuous operations. Its robust design and versatility make it adaptable across a wide range of subsea terrains.

Key Features:

- 7.2 kV/120 A high power passes to supply 3-phase motors
- 3.6 kV/120 A power passes to supply a 3-phase hydraulic power unit and a 3-phase jet pump
- 1.0 kV/20 A power passes to supply power to the dredging vehicle systems
- 300 V/3.5 A signal passes for control signals
- 12 channel Model 300 fiber optic rotary joint for sensor data
- Model 923 slip ring sensor to monitor temperature and humidity inside the electro-optic slip ring

ADVANTAGES

- Continuous operations
- Reliable performance across variable subsea terrains

APPLICATIONS

- Subsea trenching
- Subsea dredging
- Jet trenching
- Subsea mining



SPECIFICATIONS

TECHNICAL DATA

Electrical High Power Performance	
Voltage	7.2 kV
Current	120 A
Contact Resistance	<5 mOhm
Insulation Resistance	>500 MOhm @ 1000 V
Short Circuit Rating	10 kA, 1 sec. asym.

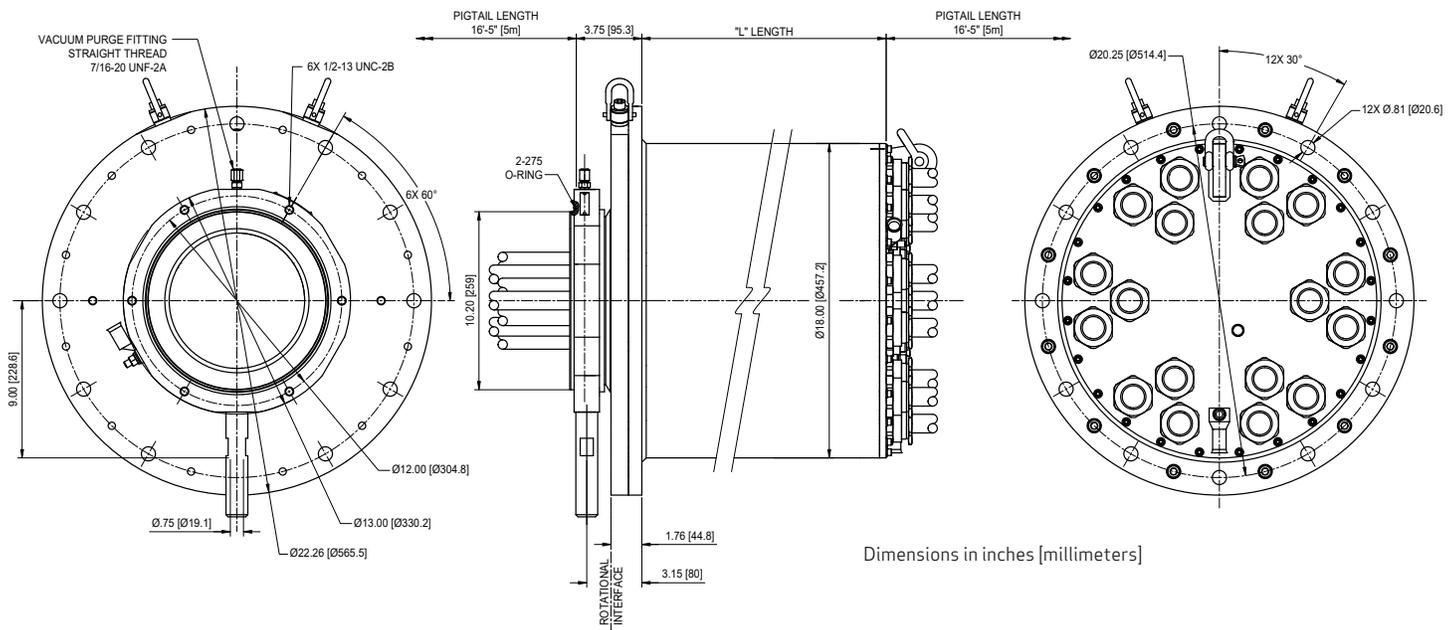
Low Power, Signal and Optical Performance
See Model 176 datasheet

Condition Monitoring Performance
See Model 923 datasheet

Mechanical	
Rotation Speed	5 rpm
Ingress Protection	IP 66
Operating Temperature	-20 to 45 °C
Housing Material	304SS
Length "L"	Custom

Terminations	
Standard	5 m [16 ft] pigtail with cable glands on housing side
Flange and Cable Cover	Two-piece, right-angle, hose nipple adapter
Options	Options
Housing Material	316SS
Design Certification	ABS, DNV, BV, LRS
Submersed Applications	Consult factory

TYPICAL OUTLINE DRAWING



For product information, visit www.moog.com/products/slip-rings/marine-slip-rings

For more information or the office nearest you, contact us online, rotarysolutions@moog.com

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