Endura-Trac[™] Standard W series

Description

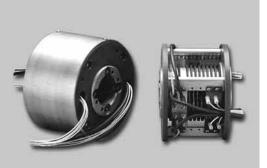
The Endura-Trac[™] series of slip ring assemblies were developed for a wide variety of applications and environments. The flexible design and through-bore capability of up to 3 inches, along with many other options make it ideal for a designer to incorporate into new and retrofit applications. Modular construction allows a range of signal and power combinations with power circuits up to 30 amps and signal circuits up to 5 amps. These slip ring assemblies are a quick turn solution for your application. Off-the-shelf components allow for a delivery which meets your needs.

Features

- Unobstructed bore sizes from 1-1/2 inches to 3 inches
- Up to 24 signal circuits, up to 12 power circuits
- Continuous bidirectional rotation up to 60 rpm
- · All metal dust cover
- · Flying lead wire bundle, 24 inch lead length
- #20 AWG signal lead wire, #12 AWG power lead wire
- Shaft, rotor, or both can rotate
- Leadwires can exit from same or opposite ends of the rotor and stator

Benefits

- · Ease of installation
- Compatible with data bus protocols
- Transfers power, as well as analog and digital signals
- Replaceable brush blocks
- · 27 different combinations of signals and power circuits



Typical Applications

- Packaging machines
- Index tables
- · Paper and film converting
- · Rotary machines
- Machine tools
- Automation equipment
- Medical equipment
- Surveillence equipment
- Inspection equipment

Slip Rings With Through-Bores

Standard W Series Specifications		Options	
Operating Speed	60 RPM	Open frame	
Power Circuits	Up to 12 power circuits: 30 A / 600 volts	 Drive adaptor for stator de-rotation Longer lead lengths Various power and signal 	
Signal Circuits	Up to 24 signal circuits: 5 A / 250 volts		
Terminals	Power circuits - 12 AWG flying leads Signal circuits - 20 AWG flying leads	configurations available	
Temperature Range	-20°C to +80°C		

*Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature.

Bore Size	ID Actual	OD	S	R
1.5 inch (38,1 mm)	1.52 inch (38,61)	5 inch (127,00)	4.033 inch (102,44)	1.896 inch (48,16)
3.0 inch (76,2)	3.02 inch (76,71)	6.50 inch (165,10)	5.488 inch (139,40)	3.396 inch (86,26)

To determine length of overall unit, use the following formulas or contact us for assistance.

xx = Total number of signal rings

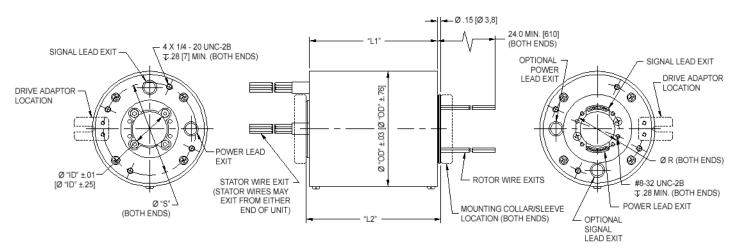
yy = Total number of power rings

L1 = .2(xx) + .4(yy) + .80

L2 = .2(xx) = .4(yy) + 1.09

Number of signal rings (multiples of 4) 12 24 0 4 8 16 20 Number of power rings 0 _ _ _ _ (multiples of 2) 2 _ _ -_ _ _ 4 _ _ _ _ _ 6 -_ _ _ 8 -_ _ 10 -_ 12

Standard W Series Dimensions



Dimensions in inches [millimeters]

Slip Rings With Through-Bores

Endura-Trac[™] Accessories

Our pre-engineered slip rings that feature a flexible design, minimized lead times and maximum reliability

Mounting Guidelines

There are several mounting options available on Endura-Trac[™] products. One of the most important rules to remember when designing the installation of a slip ring is to avoid hard mounting both the rotating and stationary sections. This can transfer concentricity and axial run-out into the slip ring assembly and can adversely affect slip ring life.

Hard Mounting (Fixed Mounting): Any concentricity or axial run-out in the rotating-mechanical system is transferred to the slip ring assembly.

Soft Mounting (Floating Mount): Any concentricity or axial run-out in the rotating-mechanical system is not transferred to the slip ring assembly.

Ideally, the inner portion of the slip ring (ID) should be mounted by attaching a flange directly to it with screws or by using a Mounting Collar Kit that attaches to the slip ring rotor section and connects to the shaft with set-screws. The outer portion of the slip ring (OD) is soft mounted using a Drive Adapter Kit. If the OD is hard mounted in a housing or with a flange, the ID may be soft mounted using a flexible coupling. Hard mounting both the rotor and stator is not recommended.

Mounting Accessories

The Mounting Collar Kit attaches to either end of the slip ring rotor and facilitates mounting to a shaft by means of 2 set-screws located approximately 100° apart. All mounting collars add 0.50 inch to the overall unit length.

Drive Adapter Kits are the perfect solution for soft mounting the stator section of the slip ring. This simple pin-in-slot arrangement prevents system concentricity or axial run-out problems from being transferred into the slip ring.

Mounting Accessories For Standard and Plus W Series					
Bore Size (Inch)	W-Series	Mounting Collar Kit Part Number	Drive Adapter Kit Part Number		
1.5	Standard	W1500086	W1500087		
1.5	Plus	W1500090	W1500087		
3.0	Standard	W3000046	W1500087		
3.0	Plus	W3000069	W1500087		
4.0	Plus	W4000035	W1500087		
6.0	Plus	W6000021	W1500087		
9.0	Plus	W9000019	W1500087		

Replacement Brush Blocks Standard and Plus W-Series					
Bore Size (Inch)	Circuit Type	Part Number			
1.5	Signal	W1500053			
	Power	W1500088			
3.0	Signal	W3000057			
	Power	W3000058			
4.0	Signal	W4000029			
	Power	W4000030			
6.0	Signal	W6000019			
	Power	W6000017			
9.0	Signal	W9000011			
	Power	W9000012			

Replacement brush block assemblies are easy to install with a standard screw driver and socket wrench. They are made of the same reliable silver composite brushes that are provided on the original unit. Contact the factory for assistance. Custom formulations of silver composite brushes with additives can extend brush life or be used in adverse environments.