

Slip Rings Product Overview

Slip Rings & Rotary Unions: Product Portfolio

Slip Rings

Wide range for the transmission of data, signal and power

Rotary Unions

For air, hydraulic, water and other fluids

Combinations (Tandem)

Combined solutions of Slip Ring and Rotary Union for power and media



Slip Rings: The Technology

Monofilament Technology

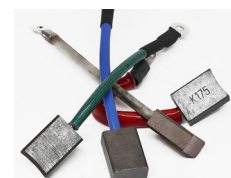
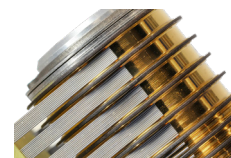
Low contact resistance, low abrasion; for signal and data transmission also for current up to 25A

Polyfilament Technology

Very low contact resistance; for the transmission of signal and high data rate

Graphite composite brushes

Longer life, high speed; for high current from 30 to over 100A; speed up to 1,500 rpm;



Slip Rings: It's all in the details

Conductor Rings

Gold coated, pure copper inside, manufactured with high precision, no oxidation, very low contact friction

Precise coating

Application of precious metal only where it is necessary; Coating optimized in type, class and hardness



Slip Rings: Performance in Rotation

Transmission speed up to

100 Mbps protocols such as Ethernet, EtherCAT, Profinet, Powerlink and others

Speed up to 1,500 rpm

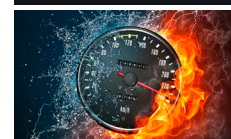
Continuous rotation or according to work cycles

Current up to 100 AMPS

Direct or alternating current

Voltage up to 1,000 V AC* and 1,500 V DC*

* according to the Low Voltage Directive 2014/35/UE



Areas of application

Wind turbines
Semiconductor
Automation
Industrial washing systems

Packaging
Printing technology
Smoothing units
Machine tools

Horizontal drilling technology
Mold making
Injection molding
Welding technology

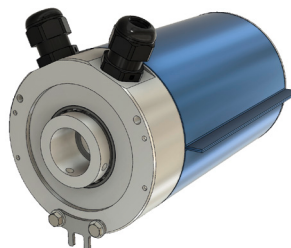
SRC



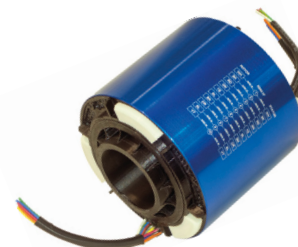
SRD



SRH



SRT



Slip Ring Family

Series	SRC	SRD	SRH	SRT
Features	axial cable outlet on the housing	radial cable outlet on the housing	with central bore	with central bore
Electrical Channels	up to 99	up to 40	up to 50	up to 72 (signal)
Current, max	5 A signal; 60 A power		1 A signal; 10/20/50/100 A power	5 A signal; 10 A power
Data Commun. Speed	100 Mbps		RS485/CanOpen/Profibus	100 Mbit/s
Conductor Ring	gold coated		bronze / silver coated	silver / gold coated
Brushes up to 25 A	Monofilament (<=25 A); Graphite (>25 A)		Metal / Silver graphite	–
Central bore	only SRC-40	only SRD-40	–	–
Protection class	IP 55 – max IP 68	IP 55 – max IP 67	IP 55	IP 51 – max IP 68
Speed, max	1,500 rpm	250 rpm	60 rpm	250 rpm
Voltage, nominal	Voltage 880 V AC/DC; Signal 190 V DC	Voltage 640 V AC/DC; Signal 30 V DC	Voltage 0-500 V AC/DC; Signal 30 V DC	Voltage 0-600 V AC/DC; Signal 30 V DC

Combo

Series	S	L
Features	consists of MPSS Rotary Union and Slip Ring SRC / SRD series	
Media passages	1 - 2 - 4	6 - 8
Passage dimension	Ø 6 - Ø 10 - Ø 12 mm	
Fluids	depending on the design: air, vacuum, hydraulics, water (reduced service life)	
Speed	for slow speeds	
Central bore	30 mm for wire	
Flange connection	yes	
Drainage	between the channels	

