

# Rotary Transmission of electric power, data, fluids and gases



Slip Ring Bodies

# Slip Ring Bodies designed to meet your requirements



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## A proven, established partner

For many years the Wampfler group has provided a broad range of rotary transmission units. To meet the changing demands of our customers we continuously update and enlarge our product range.

## With our versatile standard programme we offer reliable solutions for our customers' requirements.

Slip ring bodies are used to supply power for many different and varied rotating applications. Examples include slewing cranes, rotating aerators in sewage plants, roundabouts, manipulators, rotary tables, antenna arrays, theatre stages, packing machines, as well as cable reels and many other applications.

Our standard programme enables us to combine slip rings for power and data/signal currents in any number of poles.

Currents up to 1200A and voltage up to 24KV can be handled by our standard range. The slip rings are available from 30 to 320 mm in diameter, and as many as 100 poles can be lined up.

Rotary transmission units for fluid media (water, hydraulic oil, etc.) and gases (compressed air, argon, etc.) are available.

Slip ring bodies can be supplied as an open unit to be integrated into the customers machinery as well as encapsulated versions with an IP 65 housing made of shock-resistant plastic or metal.



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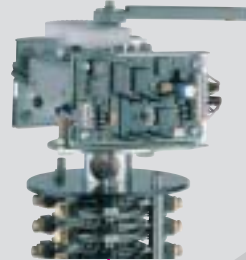
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Shaft encoder and bus-circuit board attached to slip ring body



Double-arm-type-brushes 150A

Sealed cable-entries for wiring

### Figures (left):

1. Open slip ring bodies from 16 to 47A/ 500V with connection board
2. Encapsulated slip ring body for 90A with steel cover
3. Encapsulated slip ring body with plastic cover made of shock-resistant polyamide PA6.6, glass fibre reinforced
4. Transmission with additional 1/2" rotary transmission unit for fluid media and gases
5. Combined slip ring body for main and control current
6. 4x315A/ 24KV with 6 optic fibre rotary transmission unit in housings made of stainless steel
7. Combined slip ring body with 8 x 2 x 400A + 10 x 90A + 36 x 25A + 8 x data

Combined slip ring body  
3 x 250A + PE + 4 x 150A + 4 x data

# ents for signals and current up to 1200A and 24kV



Wiring on terminal board



Multiple brushes for signal and data transmission with higher redundancy



Double-arm-type brushes 90A



Double-arm-type brushes 250A

Rim ball bearing

Slip ring body:  
4 x 90A + 4 x 25A + 4 x Daten

Type	Standard Programme			Feature
	I [mA - A]	U [V]	Ring-ø [mm]	
ES/GS30	mA - 16A	400	30	suitable for data transmission
ES/GS45/1	mA - 25A	400	45	
ES/GS45/2	47A	1000	45	suitable for data transmission
ES/GS45/3	mA - 25A	1000	45	
ES/GS18	mA - 25A	630	102	
ES/GS13	50A	1000	85	
ES/GS15	90A	1000	85	
ES/GS16	100A	1000	110	
ES/GS19	150A	1000	132	
ES/GS21	250 - 500A	1000	210	
ES/GS32	400 - 1200A	1000	320	



## Data transmission

Transmission of analogue signals from 0 to 20mA or 0 to 10V as well as digital signals up to 500kBaud is possible with our standard slip rings.

Example: Data transmission of bus signals as Interbus-S and Profibus. For Baud-rates of more than 500kB and for video transmission special slip rings with high quality materials are available.

## Special features

For your special requirements, contact us. Our application engineers have a wide experience in special applications (diameters >10 m, high rotating speeds, extreme applications, optic fibre (OF), high voltage, etc.) and will be pleased to assist you.

## Easy mounting and maintenance

Ease of mounting and low maintenance are both features of our slip ring bodies. On request the rings and the brushes can be supplied pre-wired completely to terminals outside the housing, depending on individual requirements. All connections are easily accessible and the brushes are very simple to replace.

## CE Approvals

All products comply with current IEC/VDE standards.

Figures (right):

- Rotating injection moulding machine of Krauss-Maffei Kunststofftechnik/ Munich in use at Johnson Control Inerior/ Lüneburg
- Large diameter slip rings on a stretch-foil-packing machine for pallets.
- Slip ring bodies in slewing cranes
- Slip ring body in a lifting platform

# Full-Liner worldwide!



<http://www.wampfler.com>

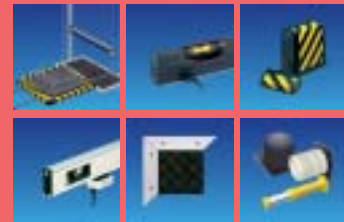
Right round the globe, our numerous subsidiary companies and agents and our 500 staff members are ready to meet your most demanding requirements.

We work in close cooperation with our customers to develop very special solutions, researching new areas of technology and turning them into future-oriented products. To help you reach your targets, we offer you innovative technology with the highest quality, combined with a service that starts with consultation, and doesn't stop after installation.

Our worldwide marketing and communication network ensures a fast and rapid response. All our expertise is at your disposal, wherever you need it.

## Safety Systems

Switch strips, bumpers, spiral cable systems, enclosed small chain systems, sensitive pressure mats, rubber buffers, cellular buffers, damping elements, rubber to metal hoist units, hydraulic buffers.



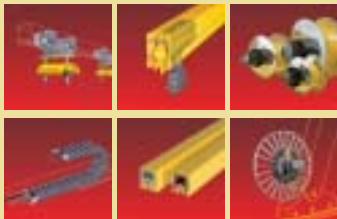
## Handling Systems

Equipment carriers, tool transporters, hand-operated overhead conveyor systems, jib booms, turntables, underslung cranes, cable winders, hose winders, balancers, electrical and pneumatic accessories, workbenches.



## Energy Supply Systems

Cable trolley systems, energy guiding chains, flat cables, round cables, hoses, conductor bar systems, spring-loaded and motor-driven cable reels, slip ring bodies.



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solutions for a moving world