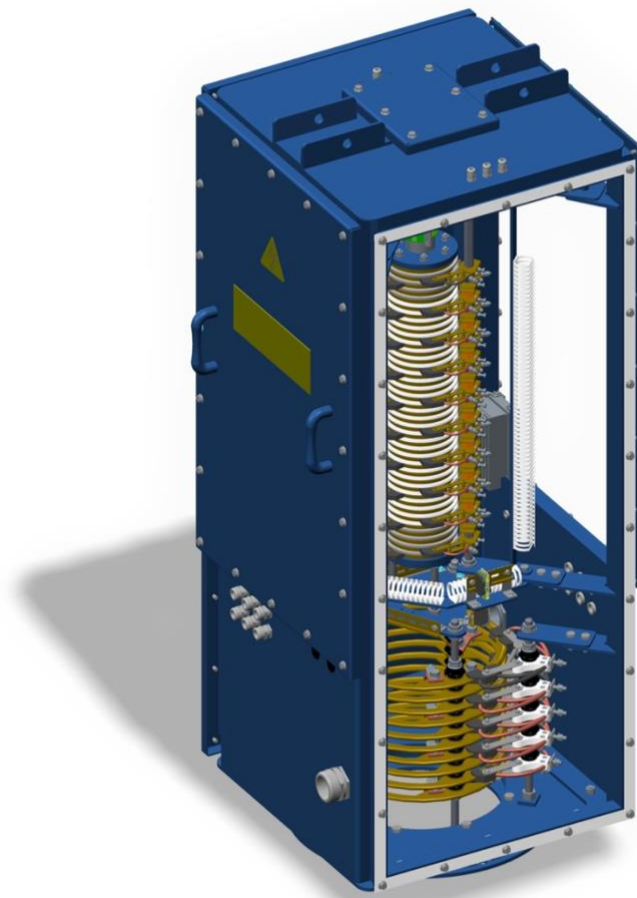




Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

**Your specialist for slip ring assemblies
for use in cranes and cable reels for excavators,
heavy machinery and conveyor systems**



We offer:

- **Project planning, new construction, and conversion according to your specifications or joint technical design on request**
- **Regular maintenance service**
- **Modernisation of your systems and repairs**
- **Immediate assistance in the event of a fault, even with units from other manufacturers**
- **Spare parts service**



Slip ring assemblies from EGB

– in continuous use in industry: in crane systems, conveyor systems, open-cast mining equipment and heavy machinery worldwide –

Our slip ring assemblies are technologically mature and proven transmission systems for power, control signals and data for mobile consumers. In combination with a cable reel, they are the first choice and the perfect technical solution for reliable power and data supply in a wide range of industrial applications.



Quality details and product features of our slip ring assemblies

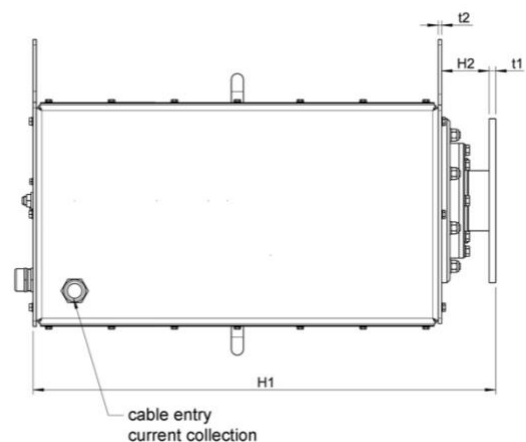
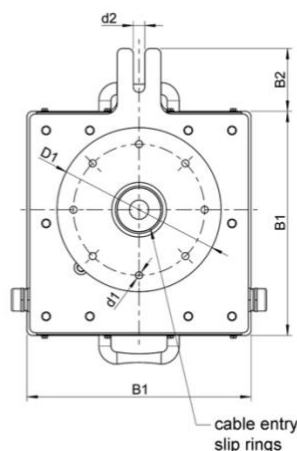
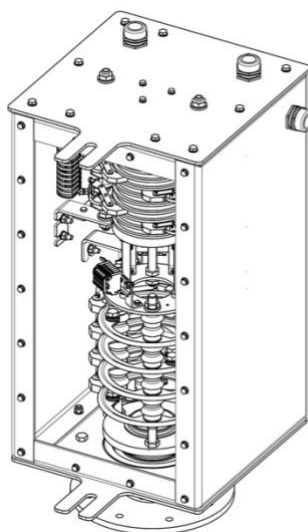
Reliable transmission up to 1,200 A/36 kV, data rates up to 100 Mbit/s thanks to **encapsulated slip ring assemblies**

Can be combined for the **transmission of various media**, in particular **with fibre optic cables (FO)**

Long service life thanks to wear-free, reliable and highly efficient components and therefore **low maintenance cycles**. Completely removable cover for optimum freedom of movement during maintenance work

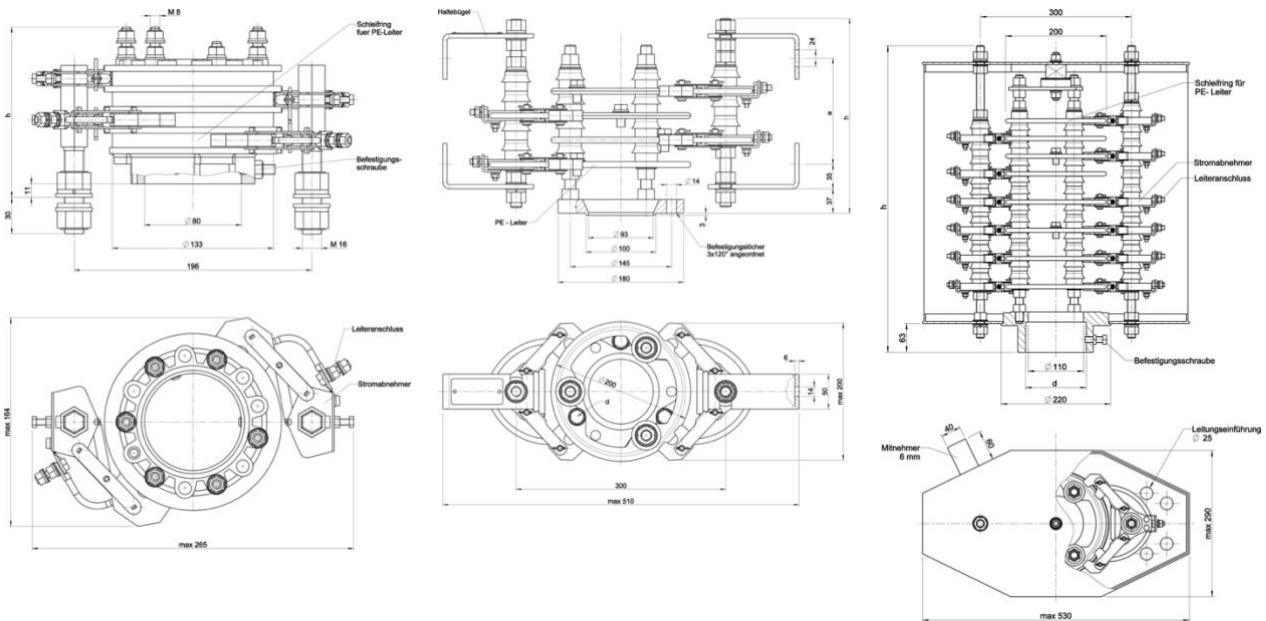
Robust design for 24/7 operation in all weathers. Internal thermally controlled heating for every application

Optimum corrosion protection even under the most aggressive environmental conditions: high-quality corrosion protection in hot-dip galvanised or stainless steel design





Type examples for slip ring assemblies with and without retaining bracket for current collector and mounting flange



Product features of our motorised cable reels

- Wide, spiral or wild-wound reel bodies
- Realisable cable pull-off length of up to 3,000 m, depending on cable diameter and cross-section
- Can be realised in combination with a rotary feed-through for hoses for transferring liquid or gaseous media
- Protection class: IP 55 (standard) to IP 65, higher protection classes on request
- Can be combined with all common motor drives
- High operational reliability even with vibrations and extreme temperatures or temperature fluctuations as well as extreme acceleration forces

Accessories for motorised cable reels

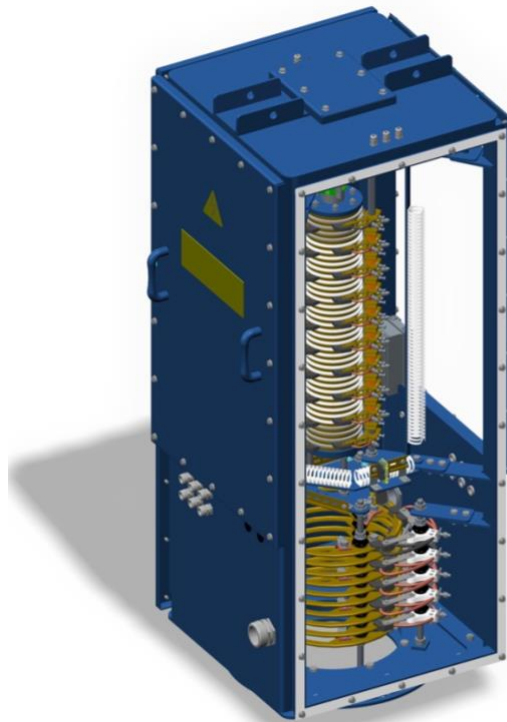
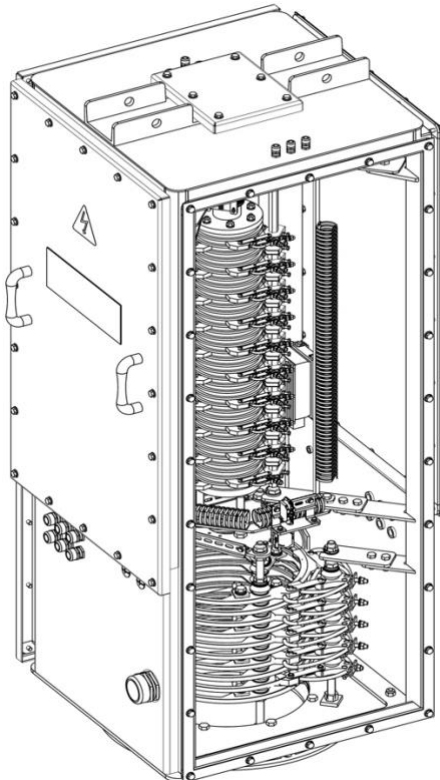
- Strain relief reel and cable pulling grips: to absorb tensile forces at the cable infeed and protect the cable
- Spooling devices: spindle- or chain-driven, these ensure that the cable is wound or unwound in an orderly manner on the reel body
- Cable and reel deflection: deflection of the cable routing
- Cable support rollers and guide roller pieces: Supporting the cable over a distance
- Cable lever frames: for moving the cable during trailing cable operation
- Geared cam limit switch: to monitor the operating states, reel "full" and "empty", overrun of the feed point
- Tear rope switch: for monitoring loose windings
- Heater: recommended for extreme temperatures or temperature fluctuations to prevent condensation
- Protective roofs: protection against external influences



EGB, from the idea to the realisation - everything from a single source

Whether project planning and original equipment, modernisation, maintenance or repair, as a system supplier EGB offers its customers a comprehensive all-round service with expert advice.

With almost 100 years of experience in development, production, installation and commissioning, we are the right partner to realise your projects. Our slip ring assemblies and cable reels are just a small selection from our extensive portfolio of products for the harbour and heavy industry.



Visit us:



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Examples of standardised devices - manufactured according to customer requirements

Specification Table Slip-Ring Assembly without Protection Cap

Model	Rated Voltage (V)	Rated Frequency (Hz)	Number of Slip rings (without PE-Ring)			d	e	h max value	Weight kg/unit (approx.)	
			80 A	200 A	400 A					
A			3					130	4	
			7	-	-			200	6,5	
			10					250	8,5	
B	660 V ~ 220 V -	50, 60				M 8	156	265	12	
							6	261	360	17
							9	366	475	21
							11	436	545	24
							15	576	685	30
							17	646	755	33
							3	218	356	15
							6	387	525	21
							9	556	688	29

Example for Ordering: Slip-Ring Assembly B 11 x 200(A)

Specification Table for Cable Reel Slip-Ring Assemblies

Model	Rated Voltage (V)	Rated Frequency (Hz)	Number of Slip rings (without PE-Ring)		e	l	Weight kg/unit (approx.)
			160 A	400 A			
C	6	50, 60	3	3	146	637	43
	10				202	806	47
D	30				-	-	1370

Example for Ordering: Slip-Ring Assembly B 11 x 200(A)



Specification Table Slip-Ring Assembly without Protection Cap

Model	Rated Voltage (V)	Rated Frequency (Hz)	Number of Slip rings (without PE-Ring)		D H 7 (Fit)	h max value	Weight kg/unit (approx.)
			200 A	400 A			
D	660 V ~ 220 V -	50, 60	3	-	125 or 160	376	24,7
			-	3		467	31
			7	-		488	31
			3	4		607	37
			9	-		544	35
			5	4		663	40
			13	-		656	42
			9	4		775	47
			17	-		768	49
			13	4		887	52
			21	-		880	56
			17	4		999	57
			25	-		992	62
			21	4		1111	63
			27	-		1048	66
			23	4		1167	67

Example for Ordering: Slip-Ring Assembly D 17 x 200(A) - 4 x 400(A)



Information for enquiries about slip ring assemblies

Technical data:

	<u>Ring group 1</u>	<u>Ring group</u>	<u>Ring group 3</u>	<u>Ring group 4</u>	<u>Ring group 5</u>
Rated current	..... A	..... A	..... A	..... A	..... A
Rated voltage	..... V	..... V	..... V	..... V	..... V
	<input type="radio"/> AC <input type="radio"/> DC	<input type="radio"/> AC <input type="radio"/> DC	<input type="radio"/> AC <input type="radio"/> DC	<input type="radio"/> AC <input type="radio"/> DC	<input type="radio"/> AC <input type="radio"/> DC
Duty cycle	..... % ED	..... % ED	..... % ED	..... % ED	..... % ED
Number of rings	..... + PE	..... + PE	..... + PE	..... + PE	..... + PE
Pre-wiring	..... m mm ²	..... m mm ²	..... m mm ²	..... m mm ²	..... m mm ²

Usage: (please tick or add as appropriate)

<input type="radio"/> Main current	<input type="radio"/> Main current	<input type="radio"/> Main current	<input type="radio"/> Main current	<input type="radio"/> Main current
<input type="radio"/> Auxiliary current	<input type="radio"/> Auxiliary current	<input type="radio"/> Auxiliary current	<input type="radio"/> Auxiliary current	<input type="radio"/> Auxiliary current
<input type="radio"/> Control signals	<input type="radio"/> Control signals	<input type="radio"/> Control signals	<input type="radio"/> Control signals	<input type="radio"/> Control signals
<input type="radio"/> Phone/video signals	<input type="radio"/> Phone/video signals	<input type="radio"/> Phone/video signals	<input type="radio"/> Phone/video signals	<input type="radio"/> Phone/video signals
<input type="radio"/> Measuring signals	<input type="radio"/> Measuring signals	<input type="radio"/> Measuring signals	<input type="radio"/> Measuring signals	<input type="radio"/> Measuring signals
<input type="radio"/> data < 100 Mbit	<input type="radio"/> data < 100 Mbit	<input type="radio"/> data < 100 Mbit	<input type="radio"/> data < 100 Mbit	<input type="radio"/> data < 100 Mbit
<input type="radio"/> Fibre optic cable (FO)	<input type="radio"/> Fibre optic cable (FO)	<input type="radio"/> Fibre optic cable (FO)	<input type="radio"/> Fibre optic cable (FO)	<input type="radio"/> Fibre optic cable (FO)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Thermostatically controlled heating

Protection level IP 00 IP 43 IP 54 IP 55 IP 65 IP

Ambient temperature from°C up to°C, Environmental media.....

Speed of rotation rotation/ min, Shock load.....

max. dimension (L x W x H) mm x mm x mm

Free inner diameter (e.g. for a suction pipe or a column) mm

Should the slip ring assembly be retrofitted around a column (separable rings)? yes no

Cable feed-throughs to the slip rings

..... x M 12, x M 16, x M 20, x M 25, x M 32, x M 40, x M 50, x M 63

Cable feed-throughs to the current collectors

..... x M 12, x M 16, x M 20, x M 25, x M 32, x M 40, x M 50, x M 63

Further information / Accessories:

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If you have any queries or require further information, please contact our Head of Technology and Sales:

Mr. Frank-Michael Hirsch e-mail: frank-michael.hirsch@egb-be.de
phone: +49 341 44 81 – 122