Through-Bore Slip Rings

High-Performance Power, Signal and Media Transmission
COMPACT SLIP RINGS

Our other available catalogues:

COMPACT SLIP RINGS SOLUTIONS  (256 pages)
[General catalogue]
CAPSULATED MINIATURE SLIP RINGS  (44 pages)
AUTOMATION SLIP RINGS  (32 pages)
PANCAKE SLIP RINGS
- with Housing
- without Housing  (42 pages)
SEPARATE SLIP RINGS  (28 pages)
FASTON SLIP RINGS  (24 pages)
MINIATURE HYBRID SLIP RINGS  (24 pages)
HYBRID SLIP RINGS
- Pneumatic / Liquid + Electric  (72 pages)
HYBRID SLIP RINGS
- Ethernet + Electric  (34 pages)
HYBRID SLIP RINGS
- USB + Electric  (30 pages)
HYBRID SLIP RINGS
- Fiber Optical + Electric  (44 pages)
HYBRID SLIP RINGS
- Coax + Electric  (40 pages)
HYBRID SLIP RINGS
- HD-SDI (1080p)+ Electric  (26 pages)

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The Company

Quality and Safety

B-COMMAND was founded in 1995. Since more than 20 years the company has put its focus on production and sales of electro technical components to all parts of the globe.

In the early years B-COMMAND focused on electro-mechanical control solutions mainly for the national crane market. Throughout the years the sales area was widened to many international countries and the second main product focus became wind power technology. The company started developing and manufacturing of special limit switches for wind turbines which are still one of the major product lines today.

After more than 10 years of growth and success with electro-mechanical products, another different technology division was established: electrical transmission technology.

Due to many analogies with electro-mechanical products and many skilled engineers the new technology focus for transmission of power and signals had been implemented.

In the beginning the products for electrical transmission technology included simple slip rings for transmitting small power ratings from fixed to rotating parts into machines.

Today, in times of Industry 4.0 and industrial networks, the program contains more than 20,000 possible solutions with combined power and signal transmission, high-frequency solutions, different housing types and super-miniature solutions.

Our technical expertise guarantees the right solution for your applications.

Since more than 10 years the company is certified according to DIN EN ISO9001:2015 by TÜV in Germany. All management and production processes are created and approved according to international standards. Especially a flexible production structure allows short delivery times also for small volume orders or prototypes.

The purchasing organization of B-COMMAND is internationally targeted. Raw material and production components are sourced from best-rated suppliers worldwide. A network of specialists for all materials is available for developing the best solution for the customers requirements resulting in a perfect fitting product for all individual projects.

B-COMMAND has an international sales network of distributors and sales partners for all regions. Some of the distributors even offer spare parts or series demand products from their own stock in the different countries.

CONTACT

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All activities at B-COMMAND are focused on customer satisfaction. Creating perfect-fitting technical solutions with best quality for marked-based prices – this is our passion.
Slip Rings Technology

Slip rings are essential electromechanical parts of commercial or industrial machinery. They have to ensure transfer of data, media, energy and electrical signals in best possible conditions. This can only be realized by combination of a targeted design process, selection of best raw materials, professional production conditions, 100% quality control and skilled assembling on customer side.

PREMIUM ENGINEERING

With many years experience and a deep knowledge of all relevant engineering disciplines, B-COMMAND engineering team can provide fast and innovative design solutions for customers around the world. Our engineers are constantly developing new designs and use new materials across a wide spectrum of diverse environments.

In order to ensure only premium-quality products B-COMMAND is able to undertake following tests in our in-house laboratory:

- Humidity Test
- Temperature Test
- Protection Degree Test
- Vibration / Shock Test

- High Pressure / Vacuum Test
- Torque Test
- High Voltage Test
- Large Current Test
- Salt Spray Test
- Load Test

- Electrical Noise Test
- Contact Resistance Test
- Lifetime Test
- Insulation Test
- Frequency Test
- Friction Test

TOTAL QUALITY CONTROL

High production depth is the key to total quality control. Therefore B-COMMAND has established extended electrical and mechanical production capabilities. Different automatic and semi-automatic multiple axis CNC machining centers, grinding machines, milling machines and coating machines offer a wide range of mechanical options during production process. Only experts with long-term knowledge are operating our machinery in order to grant best quality products for our customers.

FLEXIBILITY

For B-COMMAND flexibility is not just a word, it is the basis of our organization. Flexible sales and R&D structures with capacity for extensive project inquiries from our customers are as well allocated as flexible production structures with high-volume series production and also fast-track options for small volume orders.

INNOVATION

The willingness of lifelong-learning and permanent interest in new technological trends sets our engineering team apart. Industrial communication and electrical complexity of everyday life have moved to a new level and they are still developing fast. We keep an eye on all new technologies, new applications, new materials and forward-looking innovations which can improve or re-invent our products.
Slip Rings Applications

WIND POWER TECHNOLOGY
- Small Wind Turbines
- Multi-MW-Turbines
- Signal & Power Transmission

ROBOTIC TECHNOLOGY
- Production Robots
- Inspection Robots
- Packaging Robots

CRANE TECHNOLOGY
- Post Cranes
- Tower Cranes
- Mobile Cranes

PACKAGING TECHNOLOGY
- Packaging Robots
- Filling Machines
- Capping Machines

AEROSPACE TECHNOLOGY
- Drones
- Radars
- Thermal Imaging

CAMERA TECHNOLOGY
- TV-Cameras
- Security Cameras
- Inspection Cameras

AMUSEMENT TECHNOLOGY
- Pendulum Rides
- Observation Wheel
- Merry-Go-Round

STAGE TECHNOLOGY
- Rotating Stages
- Rotating Lights
- Revolving Platforms
Through bore slip rings (also known as «through hole slip ring») are slip rings with a hollow shaft in the center. This series is designed for being installed with a flange on a sleeve bracket and it is offering a free inner space for either connecting the rotor to a rotating shaft of the customer machine or for leading through pipes or cables not affected from rotation.

The hollow shaft slip rings are available with inner diameters from 3mm up to 300mm. The customer can select between slip rings with 2 up to max. 108 rings and power ratings from 2A up to 500A each ring.

The through bore slip rings use the best advanced fiber brush technology and precious metal multi-contacting, they offer low electrical noise for high data rate field bus transmission, low contact pressure for long lifetime and they are maintenance free.

We offer standardized & modularized design and fully customizable products according to the special requirements of customers in different applications. If you have specific customized requirements, please feel free to consult us in order to create the most suitable recommendation for your specification.

### ADVANTAGES
- Many different Housing Dimensions
- Free Inner Space / Hollow Shaft
- Low Contact Resistance
- Long Lifetime
- Maintenance Free
- 360° Continuous Rotation
- Power & Signal Transmission
- Customized Circuit Combinations

### MAIN APPLICATIONS
- Military Devices
- Medical Equipment
- Wind Turbines
- Robotics
- Radar Antennas
- Packaging Machines
- Hose & Cable Reels

### THROUGH-BORE SLIP RING SPECIFICATIONS

#### NUMBER OF CIRCUITS
- 2-48 for power transmission
- 2-144 for signal transmission

#### ELECTRICAL SPECIFICATIONS

**POWER TRANSMISSION CIRCUITS**

- **CURRENT RATING**
  - 10A

- **VOLTAGE RATING**
  - HS003A, HS005A, HS007A, HS007B, HS012A & HS020A: 240VAC/DC, 600VAC/DC
  - HS003A, HS005A, HS007A, HS007B, HS012A & HS020A: 440VAC/DC

- **LEAD CABLE LENGTH**
  - Standard 300mm (Rotor/Stator)

- **ELECTRICAL NOISE**
  - max 10m

- **LEAD CABLE SIZE**
  - Standard: AWG16 Teflon, HS007B: AWG22 Teflon

- **INSULATION RESISTANCE**
  - @ 500 VDC (Power): 500 MΩ
  - @ 500 VDC (Signal): ≥1000 MΩ

- **VOLTAGE RATING**:
  - All other types: 690VAC/DC
  - HS003A, HS005A, HS007A & HS020A: 240VAC/DC
  - HS007B, HS012B & HS020B: 440VAC/DC
  - HS003A, HS005A, HS007A & HS020A: 240VAC/DC
  - All other types: ≥1000 MΩ
  - HS007B, HS012B & HS020B: ≥500 MΩ

- **MECHANICAL SPECIFICATIONS**

**TYPES**

- **WORKING LIFE**
  - Quality Level Common / Industrial: 20 Million Revs
  - Quality Level Industrial: 60 Million Revs

- **ROTATING SPEED**
  - Quality Level Common / Industrial: 0-250 rpm
  - Quality Level Industrial: 0-1000 rpm

- **TEMPERATURE RANGE**
  - 20°C to 60°C

- **CONTACT MATERIAL**
  - Common Quality Level: Precious Metal
  - Industrial Quality Level: Gold-Gold

- **HOUSING MATERIAL**
  - Aluminum Alloy

- **TORQUE**
  - HS003A, HS005A, HS007A & HS012A: 0.1N.m + 0.02N.m/6 rings
  - HS007B & HS020A: 0.1N.m + 0.03N.m/6 rings

- **PROTECTION DEGREE**
  - IP5 (higher or lower on request)
## Through-Bore Slip Rings

### RX-HS003A

**Inner Diameter 3mm**

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### RX-HS005A

**Inner Diameter 5mm**

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### Mounting Hollow Shaft Option 1

- Rotor Lead Wire Exit
- Fix Slip Ring on Rotor Shaft with 4 pcs Screws
- Anti-Rotation Tab (adjustable)

### Mounting Hollow Shaft Option 2

- With 4 sets Screws Locking on the Stator of the Equipment
- The Rotor End Outlet
- Aluminium Collar Ring with 4 sets Screws for Shaft Mount
- Anti-Rotation Tab

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12 13rotarX - miniature slip rings

www.rotarX.com
### RX-HS007A
- **Inner Diameter**: 7mm

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### RX-HS007B
- **Inner Diameter**: 7mm

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## Through-Bore Slip Rings

**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**

### RX-HS012A

**Inner Diameter 12.7mm**

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### RX-HS012B

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**RX-HS012C**

**Inner Diameter 12.7mm**

**Optional Flange Version** (drawing only exemplary, further details on request)

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**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**

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# Through-Bore Slip Rings

## RX-HS012D

**Inner Diameter 12.7mm**

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## Dimensions & Table of Possible Products

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## Through-Bore Slip Rings

**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**

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- **RX-HS020A-QS1-42002S**: 25.4 - 2 2
- **RX-HS020A-QS1-42003S**: 25.4 - 3 3
- **RX-HS020A-QS1-42004S**: 25.4 - 4 4
- **RX-HS020A-QS1-42006S**: 25.4 - 6 6
- **RX-HS020A-QS1-42008S**: 25.4 - 8 8
- **RX-HS020A-QS1-42010S**: 25.4 - 10 10
- **RX-HS020A-QS1-42012S**: 25.4 - 12 12

### RX-HS020B - Inner Diameter 20mm

- **RX-HS020B-QS1-42002S**: 31.6 - 2 2
- **RX-HS020B-QS1-42003S**: 31.6 - 3 3
- **RX-HS020B-QS1-42004S**: 31.6 - 4 4
- **RX-HS020B-QS1-42006S**: 31.6 - 6 6
- **RX-HS020B-QS1-42008S**: 31.6 - 8 8
- **RX-HS020B-QS1-42010S**: 31.6 - 10 10
- **RX-HS020B-QS1-42012S**: 31.6 - 12 12

### Optional Flange Version [Drawing only exemplary, further details on request]

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- **RX-HS020B-QS1-10008S**: 86 10 8 18
- **RX-HS020B-QS1-12006S**: 86 12 6 18
- **RX-HS020B-QS1-14004S**: 86 16 4 18
- **RX-HS020B-QS1-16002S**: 86 18 2 18
- **RX-HS020B-QS1-100024S**: 106.4 - 24 24
- **RX-HS020B-QS1-120024S**: 106.4 - 24 24
- **RX-HS020B-QS1-140024S**: 106.4 - 24 24
- **RX-HS020B-QS1-160024S**: 106.4 - 24 24
- **RX-HS020B-QS1-100030S**: 126.8 - 30 30
- **RX-HS020B-QS1-120030S**: 126.8 - 30 30
- **RX-HS020B-QS1-140030S**: 126.8 - 30 30
- **RX-HS020B-QS1-160030S**: 126.8 - 30 30
- **RX-HS020B-QS1-100042S**: 150.2 - 42 42
- **RX-HS020B-QS1-120042S**: 150.2 - 42 42
- **RX-HS020B-QS1-140042S**: 150.2 - 42 42
- **RX-HS020B-QS1-160042S**: 150.2 - 42 42
- **RX-HS020B-QS1-100048S**: 170.6 - 48 48
- **RX-HS020B-QS1-120048S**: 170.6 - 48 48
- **RX-HS020B-QS1-140048S**: 170.6 - 48 48
- **RX-HS020B-QS1-160048S**: 170.6 - 48 48
### RX-HS025A

**Inner Diameter 25.4mm**

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**Optional Flange Version (Drawing only exemplary, further details on request)**

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**Through-Bore Slip Rings**

### DIMENSIONS & TABLE OF POSSIBLE PRODUCTS
## RX-HS025B

**Inner Diameter 25.4mm**

### Through-Bore Slip Rings

#### DIMENSIONS & TABLE OF POSSIBLE PRODUCTS

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**Note:**
- 10A Signal / 5A Rings
- Model Length (mm) and Number of Circuits for each product are listed.
- Dimensions and specifications are provided for each product variation.
### RX-HS030A

**Inner Diameter 30mm**

#### Dimensions & Table of Possible Products

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**Through-Bore Slip Rings**
RX-HS038A

Inner Diameter 38.1mm

Optional Flange Version (Drawing only exemplary, further details on request)
### RX-HS050A

**Inner Diameter 50mm**

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**Optional Flange Version (Drawing only exemplary, further details on request)**
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Through-Bore Slip Rings

DIMENSIONS & TABLE OF POSSIBLE PRODUCTS

RX-HS050B - Inner Diameter 50mm
**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**

**RX-HS060A**  
**Inner Diameter 60mm**

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**Inner Diameter 90mm**

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### RX-HS120A

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### Through-Bore Slip Rings

**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**

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### RX-HS150A

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**Through-Bore Slip Rings**

### Dimensions & Table of Possible Products
### DIMENSIONS & TABLE OF POSSIBLE PRODUCTS

**Through-Bore Slip Rings**

**RX-HS180A**

**Inner Diameter 180mm**

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**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**

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**RX-HS180A-QS1-00002S**

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**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**
## RX-HS200A

**Inner Diameter 200mm**

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## RX-HS210A

**Inner Diameter 210mm**

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Through-Bore Slip Rings
### RX-HS250A

**Inner Diameter 250mm**

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**MODEL LENGTH (mm) NUMBER OF CIRCUITS**

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## RX-HS300A

**Inner Diameter 300mm**

### Through-Bore Slip Rings

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**DIMENSIONS & TABLE OF POSSIBLE PRODUCTS**
Customized Slip Rings

HYBRID SLIP RING FOR WATER, POWER AND SIGNAL TRANSMISSION
- 12 x 10A power, 1 x gigabit Ethernet, 1 x water leadthrough
- Harting connector for power lines
- Housing material aluminium

MINIATURE METAL HOUSING WITH ELONGATED ROTOR SHAPE
- Special rotor design acc. to customer specification
- 4 x 2A signal rings
- Protection degree IP65

HYBRID MEDIUM SIZE HOLLOW-SHAFT SLIP RING
- 10 x 10A signal transmission + EtherCat signals
- Massive housing for heavy-duty-applications
- Special flange and double-anti-rotation-tabs

MEDIUM SIZE SLIP RING WITH MASSIVE FLANGE
- Axial cable outtake rotor, radial cable outtake stator
- Steel housing in customized color
- Special cable protection sleeve

MEDIUM SIZE SLIP RING WITH MASSIVE FLANGE
- Aluminium rotor flange with customized boreholes
- Flange thickness 13mm
- Protection degree IP65

LARGE SLIP RING FOR MARITIME APPLICATIONS
- Outer diameter 1.4 meters, inner diameter 0.7 meters
- Housing material steel, color similar to maritime vessel
- Inspection porthole
**CUSTOMIZED SLIP RINGS**

**MINIATURE POWER SLIP RING WITH CUSTOMIZED HOUSING**
- 3 x 63A power transmission on minimum space
- Special plastic housing
- Cable color code according to customer requirement

**PANCAKE SLIP RING WITHOUT HOUSING**
- Special diameter according to customer machine
- 2 rings for power transmission
- Brushholder with customized fixing holes and cable

**MINIATURE SIZE SLIP RING WAGO CONNECTORS ON PCB**
- 16 x 2A signal transmission
- Customized PCB with WAGO connectors for cable connection
- Special housing design with anti-rotation-bar

**HYBRID MEDIUM SIZE SLIP RING WITH FIBER OPTIC AND COAX TRANSMISSION**
- Customized housing shape with special rotor design
- Gearwheel teeth shape integrated in rotor design
- FOR Fiber Optic + COAX transmission

**MINIATURE SLIP RING WITH CUSTOMIZED FLANGE**
- 10 x 2A signal transmission
- Flange position and shape customized
- Cable color code according to customer requirement

**LARGE METAL HOUSING WITH POWER / DATA TRANSMISSION**
- Dimensions housing according to customer specification
- 86 Rings (63A, 32A, 16A, HD-SDI, EtherCat, Analogue)
- Special CAT7E data-cable with 10 meter length

**HYBRID MEDIUM SIZE SLIP RING WITH FIBER OPTIC AND COAX TRANSMISSION**
- Customized housing shape with special rotor design
- Gearwheel teeth shape integrated in rotor design
- FOR Fiber Optic + COAX transmission

**MINIATURE SLIP RING WITH 128 RINGS**
- Aluminium housing with rotor flange
- 128 signal rings for data transmission
- Protection degree IP65
SLIP RING WITH INTEGRATED CONNECTORS
- Customized fixation boreholes
- Customized connectors and cable with connectors
- Double anti-rotation-tab on stator side

MEDIUM SIZE HOLLOW-SHAFT SLIP RING WITH CONNECTORS
- 4 x customized connectors for signal transmission
- Aluminium housing with 150mm free inner diameter
- Housing without flange, axial cable outtakes

HYBRID MEDIUM SIZE SLIP RING WITH DOUBLE COAX LINE AND POWER TRANSMISSION
- Customized metal housing without flange
- 2 x COAX lines + several power rings
- Special cable protection sleeve and cable fixation

HYBRID MEDIUM SIZE SLIP RING WITH FIBER OPTIC AND POWER LINES
- Customized aluminium housing without flange
- FOR Fiber Optic + power transmission
- Stainless steel rotor with cable protection sleeve

HYBRID MINIATURE SLIP RING FOR VIRTUAL REALITY APPLICATIONS
- Plastic housing with customized flange
- Power and data transmission by USB and HDMI
- Connectors on rotor and stator side for easy usage
# Request Form Slip Rings

Please fill in all fields below with as much information about your application as possible. Handing over maximum mechanical and electrical information available makes order creation easier for us. If available you can also provide circuit diagrams or 2D/3D files of the mounting position. If you have any questions about this form please contact us.

**Application description (How does slip ring work):**

**USING ENVIRONMENT**
- Indoor
- Outdoor
- High vibration
- High humidity
- Temperature range
- IP degree [min.]
- Altitude

**MECHANICAL PERFORMANCE**
- Working speed rpm
- Max speed rpm
- Operating Frequency
- Max. Outer Diameter mm
- Min. Inner Diameter mm
- Max. Length mm
- Max. pressure [air, liquid] Bar
- Through-bore
- Housing material
- Installation method
- Fixation
- Horizontal
- Vertical
- Shaft
- Flange
- Yes
- No

**ELECTRICAL PERFORMANCE**
- No. of Rings
- Current [amps]
- Working Volts
- Contact Material
- Data Protocol (Fieldbus)
- Gas / Fluidic Transmission
- Others

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**Other requirements:**
- [or drawings in attachment]

**Other requirements:**

- New development
- Replacement existing solution
- Repair / maintenance

**Company Name**

**Address**

**City**

**Country**

**Post Code**

**Fax**

**Phone**

**E-mail**

**Application area**

- New development
- Replacement existing solution
- Repair / maintenance

**Annual qty (PCS)**

**Application description:**

**USING ENVIRONMENT**
- Indoor
- Outdoor
- High vibration
- High humidity

**MECHANICAL PERFORMANCE**
- Working speed
- Max speed
- Operating Frequency
- Max. Outer Diameter
- Min. Inner Diameter
- Max. Length
- Max. pressure [air, liquid]

**ELECTRICAL PERFORMANCE**
- No. of Rings
- Current [amps]
- Working Volts
- Contact Material
- Data Protocol (Fieldbus)
- Gas / Fluidic Transmission

**Other requirements:**
- [or drawings in attachment]

**Other requirements:**