



ROTARY UNIONS & ELECTRICAL SLIP RINGS

Wind Energy Applications





ROTARY UNIONS & ELECTRICAL SLIP RINGS

WIND ENERGY APPLICATIONS



ROTARY UNION

DEUBLIN rotary unions allow reliable fluid transmission between stationary and rotating systems. Approved technology combined with global availability makes DEUBLIN the preferred supplier for leading wind turbine manufacturers.

The rotary union is a precision mechanical component performing a critical function to turbine operation. Rotary unions must be designed considering a wide range of media, viscosities, temperatures and pressure ranges as well as fluid velocities, while meeting the highest standards of reliability and service life.

ROTARY UNION



KEY DATA

- 0-25 rpm
- 0-350 bar peak pressure
- -10°C to +70°C ambient operating temperature
- Corrosion classes up to C5M for severe off shore conditions
- High shock resistance
- Multiple passages for fluid and electrical
- Easy lifting
- Customized marking, tracking barcode



ELECTRICAL SLIP RING

DEUBLIN's versatile electrical slip ring designs can be easily configured for transmission of both power and signal and offer a multitude of connection options. The signal channels of the slip rings are designed for compatibility with digital protocols like Ethernet, Profinet, CAN as well as generic sensing and 24V control signals. DEUBLIN slip rings are designed to ensure the integrity of the electrical signal as it passes through the slip ring. The power channels of the slip ring can transmit up to 1000 VAC/DC at up to 250 amps continuous. They can also be utilized for auxiliary operations, such as blade heating.

The slip ring enclosures can be designed to surpass the IEC-60529 IP-66 protection. DEUBLIN slip rings will continue to operate while exposed to mechanical shock and sinusoidal vibration limits of IEC-60721-3-3 class 3M5. DEUBLIN slip rings are designed for high reliability and long service life. DEUBLIN slip rings can be designed to operate in both hot and cold climates.

ELECTRICAL SLIP RING



KEY DATA

- 0-35 rpm
- -40°C to +70°C ambient operating temperature
- High shock resistance
- Power including e-pitch
- Data including all digital protocols
- Easy lifting, lightweight
- FORJ, Encoder can be added
- Customized marking, tracking barcode
- Customized connectors
- Full integration with hydraulic rotary union



ROTARY UNIONS & ELECTRICAL SLIP RINGS

WIND ENERGY APPLICATIONS

COMPLETE SOLUTION FOR PITCH CONTROL

As the proven leader for the manufacture of rotary solutions for wind turbine pitch control, *DEUBLIN* Engineering continues to focus on reliability and performance.

All products are 100% factory tested under operating parameters to ensure that each product is completely operational upon receipt and ready to install.



BENEFITS OF WORKING WITH DEUBLIN

Approved high quality product that has a proven track record for reliable performance over 20 years (TCO) in wind energy applications, based on a 25 year design life.

Reliable components that ensure turbine uptime to enable maximum harvesting of wind energy.

Multilingual customer service teams located around the world to support you when needed.

Global production foot print with localized manufacturing sites in Waukegan/USA, Mainz/Germany, Dalian/China, Bologna/Italy and Diadema/Brazil.

High supply chain safety, *DEUBLIN* has a low dependency on any single industry which means we are a strong asset for your risk management. All *DEUBLIN* sites are run by globally aligned production methods and processes which support **global contingency plans**.

DPS DEUBLIN Performance System, continuous improvement processes and Kanban inventory, support high quality and short lead times.

DEUBLIN WORLDWIDE LOCATIONS



- ★ HQ & Manufacturing
- Manufacturing
- Sales & Service

Since its founding in 1945 as a small, family-owned business, Deublin consistently has adhered to a policy of designing and building the best products of their kind in the world. The result of this policy has been continuous growth through the years, and for this we are grateful to our many loyal customers.

Today, Deublin is the world's largest manufacturer of Rotary Unions, with state-of-the-art factories, technical sales and services, and local stocking in 13 countries on four continents, as well as a worldwide distribution network operating in more than 60 countries. Our global organization and extensive catalog of field-tested products ensure a precise match between each customer's requirements and an engineered solution. Deublin has been part of the HOERBIGER Group since 2019 and forms the core of the Rotary Solution division.

We cordially invite you to visit our modern manufacturing facilities in Waukegan, Illinois, USA; Mainz, Germany; Monteveglio, Italy; Dalian, China; and Diadema, Brazil.



Our Global Headquarters in Waukegan, Illinois, U.S.A.



Mainz, Germany



Bologna, Italy



Dalian, China



Diadema, Brazil

AMERICA

DEUBLIN USA

2050 Norman Drive
Waukegan, IL 60085-6747 U.S.A.
Phone: +1 847 689 8600
Fax: +1 847 689 8690
E-mail: Info-US@deublin.com

DEUBLIN Brazil

Juntas Rotativas de Precisão Ltda.
Av. Fagundes de Oliveira, 538 - A11 - Piraporinha
CEP: 09950-300 - Diadema - SP - Brasil
Tel: +55 11-2455 3245
Fax: +55 11-2455 2358
E-mail: info-BR@deublin.com

ASIA

DEUBLIN Asia Pacific

7 Temasek Boulevard #21-05,
Suntec Tower One, Singapore 038987
Phone: +65 6259-9225
Fax: +65 6259-9723
E-mail: deublin@singnet.com.sg

DEUBLIN Japan

2-13-1, Minamihanayashiki, Kawanishi City
Hyogo 666-0026, Japan
Phone: +81 72-757 0099
Fax: +81 72-757 0120
E-mail: Info-JP@deublin.com

2-6-1-B25092, Nakase, Mihama-ku
Chiba City 261-0023, Japan
Phone: +81 43-307-5163
Fax: +81 43-307-5164
E-Mail: info-JP@deublin.com

2-14-4-907, Marunouchi, Naka-ku
Nagoya City, Aichi 460-0002, Japan
Phone: +81 52-201-0222
Fax: +81 52-201-0223
E-mail: info-JP@deublin.com

HOERBIGER Precision Rotary Union (Dalian) Co., Ltd.

No. 2, 6th DD Street,
DD Port, Dalian, 116620, China
Phone: +86 411-8754 9678
Fax: +86 411-8754 9679
E-mail: Info-CN@deublin.com

Room 15A07, Wangjiao Plaza
No. 175 East Yan'an Road, Huangpu District
Shanghai 200002
Phone: +86 21-5298 0791
Fax: +86 21-5298 0790
E-Mail: Info-CN@deublin.com

DEUBLIN Korea

Star Tower #1003, Sangdaewon-dong 223-25,
Jungwon-gu, Seongnam-si, Gyeonggi-do,
South Korea
Phone: +82-31-8018 5777
Fax: +82-31-8018 5780
E-mail: Info-KR@deublin.com

EUROPE

DEUBLIN Germany

Florenz - Allee 1
55129 Mainz, Germany
Phone: +49 6131-49980
E-mail: Info-DE@deublin.com

DEUBLIN Italy

Via Guido Rossa, 9 - Loc. Monteveglio 40053
Comune di Valsamoggia (BO), Italy
Phone: +39 051-835611
Fax: +39 051-832091
E-mail: Info-IT@deublin.com

DEUBLIN Austria

Lainzer Straße 35
1130 Wien, Austria
Phone: +43 1-8768450
Fax: +43 1-876845030
E-mail: Info-AT@deublin.com

DEUBLIN France

61 Bis, Avenue de l'Europe
Z.A.C de la Malnoue
77184 Emerainville, France
Phone: +33 1-64616161
Fax: +33 1-64616364
E-mail: Info-FR@deublin.com

DEUBLIN Poland

ul. Bierutowska 57-59
51-317 Wrocław, Poland
Phone: +48 71-3528152
Fax: +48 71-3207306
E-mail: Info-PL@deublin.com

DEUBLIN Spain

CLola Anglada, 20
08228 Les Fonts (Terrassa), Spain
Phone: +34 93-221 1223
E-mail: Info-ES@deublin.com

DEUBLIN United Kingdom

6 Sopwith Park, Royce Close, West Portway
Andover SP10 3TS, UK
Phone: +44 1264-33 3355
Fax: +44 1264-33 3304
E-mail: Info-UK@deublin.com

www.deublin.com



**SERVICE AND STOCK ARE AVAILABLE
THROUGHOUT THE WORLD**