



STEEL

ROTARY UNIONS SLIP RINGS COMBINED SYSTEMS

FOR COILERS IN COLD AND HOT ROLLING LINES
AND FOR CONTINUOUS CASTING MACHINES



GAT[®]

MOOG

ROTARY UNIONS

For 40 years, our rotary unions have been ensuring the oil and grease supply of coilers. With the high level of reliability required to withstand even high speeds and extreme pressures, thereby supporting the continuously increasing production rates. This has made us a worldwide well-acknowledged partner of all leading manufacturers of metallurgical and rolling mill technology demanding durable and robust solutions.



ROTOSTAT E

FOR HIGH PRESSURES AND SPEEDS

The tried-and-tested ROTOSTAT E sealing system uses a hydrostatically controlled radial gap seal, ensuring reliable operation even under the most demanding operating conditions. The contactless sealing system has very low friction, reducing wear to the minimum. Cost savings are considerable.



ROTOSTAT N

A SERVICE LIFE SECOND TO NONE

ROTOSTAT N uses also a contactless hydrostatic gap seal. The inverse design ensures that the gap remains constant within few μm even at pressures up to 250 bar. This keeps friction loss to the minimum. ROTOSTAT N rotary unions have been designed for extreme durability.



ROTODISK SW

SPECIAL DESIGN FOR GREASE

We have developed a specific rotary union with axial contact sealing technology to lubricate the coiler mandrel. Extremely wear-resistant silicon carbide mechanical seals ensure high robustness and a long service life. The ROTODISK for grease is available in a one or multichannel design and optionally with an integrated cooling circuit.



ROTOPACK

LEAKAGE-FREE AND WEAR-RESISTANT

Especially for ladle turrets a rotary union was developed that incorporates an elastomer contact sealing system derived from the well-established ROTOPACK series. This rotary union ensures leakage-free operation in a reliable way.

COMBINED SYSTEMS



ROTOSTAT E + ROTODISK D10

EXAMPLE: COILERS IN COLD ROLLING LINES

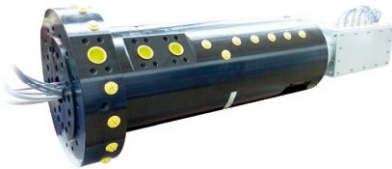
- For high pressures and high speeds
- Speed: 1000 rpm
- 2 channels hydraulic oil / 350 bar / 1 channel water / 4 bar
- 2 channels grease / 250 bar



ROTOSTAT E + ROTODISK SW

EXAMPLE: COILERS IN HOT ROLLING LINES

- Extremely robust, for high flow rates
- Speed: 800 rpm
- 2 channels hydraulic oil / 200 bar
- 1 channel grease / 400 bar / with integrated cooling circuit



ROTOPACK + ROTOFLEX

EXAMPLE: LADLE TURRETS

- Rotary union combined with electrical slip ring
- 16 channels hydraulic oil / 250 bar
- 2 channels air / 1 channel Argon / 16 bar
- Slip ring with 66 poles for the transmission of power, signal and data transmission

CUSTOMER-SPECIFIC COMPLETE SYSTEM FROM A SINGLE SOURCE

The ROTOKOMBI system allows all rotary union and slip ring types to be combined. The result is a complete rotary transmission system from a single source, with perfectly matched interfaces.

OPTIMALLY MATCHED WITH FLEXIBLE EXTENSION OPTIONS

ROKOKOMBI systems ensure that an optimally adapted sealing system is available for any medium. For any type of electrical transmission a corresponding system is selected to ensure adequate reliability. Thanks to the modular design, individual components can be replaced, retrofitted or upgraded as necessary.

THE COMPANY

Moog GAT GmbH with headquarters in Geisenheim, Germany, is a leading international technology company.

Since 1978 Moog GAT has been developing and producing tailored products for the most diverse industry applications in the fluid and sealing technology sectors as well as electrotechnical transmission technology.

Moog GAT is a technology leader in the production of electrical slip rings, rotary unions, precision air bearings, as well as test rig equipment.

Our team of highly qualified engineers and product specialists offers competent expert advice by meeting the requirements of our customers and, choosing from our wide range of products, to deliver a standard or custom-made solution.

We design, produce and distribute high-tech precision products used in machine and plant engineering as well as energy generation worldwide.

The product specialists in our worldwide sales offices ensure that customers receive competent technical advice and that economic considerations are taken into account. All this contributes to the success of our customers.



MADE IN 
GERMANY



Visit our website to find the Moog office nearest you, www.gat-mbh.de

For product information, visit www.gat-mbh.de/en/applications/steel

For service information, visit www.gat-mbh.de/en/contact/service

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