



MATERIAL HANDLING IN MOTION

Solutions for Indoor Material Handling

Perfect connection for indoor material handling. Our drive components.

Products						
Applications	ROTEX ®	BoWex*	ROTEX® GS	ROTEX® GS ZR3	TOOLFLEX®	RADEX [®] -NC
Packaging machines		—				
Industrial robots						
Linear guiding						
Food processing machinery						
Filling systems						
Warehouse technology						
Cranes						
Conveyors						
Recycling machinery						
Machine tools						



ROTEX®

Torsionally flexible jaw couplings

- Jaw coupling for power transmission damping torsional vibrations
- Axial plug-in, easy assembly, maintenance-free
- Standard spiders made of high temperature-resistant T-PUR
- Application range of T-PUR from 50 °C to + 120 °C, temperature peaks up to + 150 °C



BoWex[®]

Curved-tooth gear couplings

- Material combination: nylon / steel
- Compensating for shaft misalignment: axial, radial, angular
- Axial plug-in, simplified assembly
- Operative range -25° C to +120° C
- Torques from 5 to 2,500 Nm



ROTEX® GS

Backlash-free servo couplings

- Backlash-free, vibration-reducing jaw-type coupling
- Axial plug-in, maintenance-free
- Electrically insulating
- Failsafe
- Torques from 0.2 to 5,850 Nm
- Ambient temperatures from 50 °C to + 150 °C possible (dependent on spider)
- Couplings for machine tools, automation, power transmission, medical technology, packaging technology



ROTEX[®] GS ZR3 Intermediate shaft couplings

- Intermediate shaft coupling with bonded aluminium pipe
- Easy radial coupling assembly because of split coupling hub
- Replacement of spider without shifting the driving and driven side
- Lengths up to 4 metres are possible without intermediate bearing dependent on speed and size
- Low mass moment of inertia by using aluminium

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COUNTEX®	KTR-SI	KTR-SI FRE with ROTEX®	SYNTEX [®] -NC	Precision joint	Clamping sets	KTR -STOP® NC	DATAFLEX*



TOOLFLEX®

Metal bellow-type couplings

- Backlash-free metal bellow-type coupling
- Maintenance-free
- Ambient temperatures up to + 200 °C possible (dependent on size)
- Torques from 0.1 to 600 Nm
- Couplings for power transmission, automation, medical technology, packaging technology, machine tools



COUNTEX®

Shaft encoder couplings

- Backlash-free, torsionally stiff shaft encoder coupling
- Maintenance-free
- Axial plug-in
- Electrically insulating
- Shaft diameter up to Ø 14 mm possible
- Ambient temperatures from -40° C to +160° C possible



RADEX[®]-NC Servo lamina couplings

- Backlash-free, torsionally stiff servo lamina coupling
- Maintenance-free
- Ambient temperatures up to + 200 °C possible
- Torques from 2.5 to 300 Nm
- Couplings for automation engineering, power transmission, medical technology



KTR-SI

Overload systems

- For torques up to 8,200 Nm
- Ratchet and synchronous as well as fail-safe and idle rotation type
- High response and repeating accuracy
- Switching off with load via sensing by limit switch
- Can be combined with ROTEX[®]



KTR-SI FRE with ROTEX[®] Overload systems

- Idle-rotation safety clutch (load-separating)
- High repeating accuracy
- The intelligent further development to the shear pin coupling and hydraulic overload systems
- Setting range to 60,000 Nm (higher torques on request)
- Torsionally flexible and maintenance-free
- Axial plug-in shaft-to-shaft coupling



Precision joint

Joint center piece and two hub shells

- Precision single/double joint
- Max. speed up to 400 RPM
- Max. diffraction angle = 45° per joint
- Available with finish bore H7; if requested, with feather keyway, square or hexagon bore
- Also available as a clamping hub



SYNTEX[®]-NC Backlash-free safety clutch

- Backlash-free torque transmission
- Overload protection up to 550 Nm
- Light-weight design for low mass inertia
- Short reaction times
- Large bore diameters
- Declining spring characteristic



CLAMPEX[®] Clamping elements

- Backlash-free shaft-hub connection
- Centering of shaft and hub by the clamping set
- No additional hub centering required
- Simultaneous transmission of torque and axial force
- Transmissible torques from 6 Nm to 1,640,000 Nm



KTR-STOP® NC

Passive clamping and braking systems

- Passive braking and clamping system with failsafe function
- Absorption of axial loads
- Multifunctional use
- Usable as plug-in system
- For different application fields (machine tools, general engineering, etc.)
- Hydraulically released system



DATAFLEX®

Torque measuring

- Reliable values measured in machine monitoring, process control, test bench technology
- Measuring ranges: 10 Nm to 20,000 Nm
- Inaccuracy < 0.1% of the terminal value</p>
- Double channel speed measurement up to 720 pulses/revolution
- Integrated f/U converter for analog speed output
- Contactless measurement
- Space-saving combination

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Coupling configurator

During the final stages of planning time is often running out.

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Measuring displacements during operation Project CAS

CAS (Coupling Alignment Scan) monitors radial and angular displacements of the coupling during the operation signalling serious shaft displacements immediately. In order to retrace loads with various operating conditions, CAS records the curve of displacements.

The system consists of a double-cardanic steel lamina coupling in combination with a sensor measuring the direction and extent of shaft displacements of both lamina sets and calculating the displacement of the coupling.

Main applications:

- chemistry/petrochemistry
- oil/gas
- hot water and heat media
- energy and wastewater technology

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