



Made for Motion



BUILT FOR CONSTRUCTION

Reliable solutions for powerful machines

- Drive components
- Brake systems
- Cooling systems

Perfect connection for construction machines. Our drive components.

Product						
		ROTEX	BoWex FLE-PA	BoWex FLE-PAC	MONOLASTIC	BoWex-ELASTIC
Construction machines	Asphalt finishers	■	■	■	■	■
	Cranes	■	■	■	■	■
	Diesel generators					■
	Drainage pumps	■				■
	Forklift trucks		■	■	■	
	Hydraulic excavators		■	■	■	
	Mobile compressors					■
	Road milling machines					■
	Single-drum compactors	■	■	■	■	
	Telescopic handlers		■	■	■	
Wheel loaders		■	■	■	■	

ROTEX® couplings are characterized by small dimensions, low weight and low centrifugal moments while transmitting high torques. They assure power transmission damping torsional vibrations and absorb shocks which are generated by machines operating irregularly.

Mobile machines are mostly driven by I. C.-engines. With hydrostatic drives hydraulic pumps are directly connected, with mobile compressors the compressor unit is directly driven. Connecting both units is realized by BoWex® flange couplings which have to meet a number of specifications, primarily reliable power transmission.



ROTEX®
Torsionally flexible jaw coupling

- Jaw coupling for power transmission damping torsional vibrations
- Axial plug-in, easy assembly, maintenance-free
- Standard spiders made of high-temperature resistant T-PUR®
- T-PUR® operating range from -50 °C to +120 °C, temperature peaks up to +150 °C
- Spline toothings in accordance with DIN and SAE
- Inch and taper bores



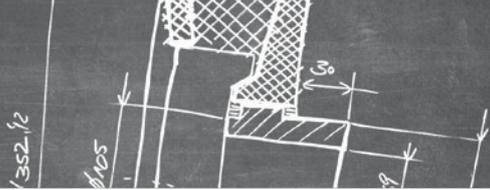
BoWex® FLE-PA
Torsionally rigid curved-tooth flange coupling

- For all hydrostatic drives, e. g. construction and harvesting machines
- High torsion spring stiffness, resonance-free operation
- Maintenance-free due to material combination nylon/steel
- PA flange with high mechanical strength and heat stability
- Numerous flanges available with special connection dimensions
- Torques from 240 to 5,300 Nm



Torque increase

Years of experience with applications at customer sites and additional test series in the KTR test field in Rheine enabled us to determine potentials allowing for an increase of the rated torques with some sizes of this series.



BoWex® FLE-PAC High-quality, torsionally rigid curved-tooth flange coupling

- High torsion spring stiffness, resonance-free operation
- Maintenance-free due to material combination nylon/steel
- PAC flange with high mechanical strength
- Excellent resistance to wear with high load
- Flange dimensions according to SAE or as a special design without additional adapter
- Torques from 240 to 6,600 Nm



MONOLASTIC® One-piece, flexible flange coupling

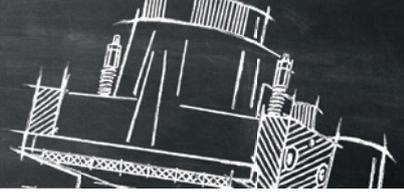
- For driving diesel engine/hydraulic pump up to 300 kW
- Available in different kinds of Shore hardness
- Axial plug-in in combination with the pump spline shaft
- Available for SAE and DIN pump spline shafts
- Flange connection with 3 holes and SAE connection



BoWex-ELASTIC® Highly flexible flange coupling

- For drives of I. C.-engines
- Engine power up to 7,500 kW
- Axial plug-in, easy assembly
- Particularly compact dimensions
- Damping torsional vibrations
- As an example, for driving generators, water pumps, compressors
- Available in hardness 40, 50, 65 and 70 Shore A

Driving is not our only competence, but braking is another one. Our brake systems.



We revolutionized hydraulic brakes and tripled the performance range of electromechanical brakes. Being one out of a few manufacturers only, we are able to provide two different brake systems: the hydraulic brake system **KTR-STOP®** and the electromechanical brake system **EMB-STOP**.



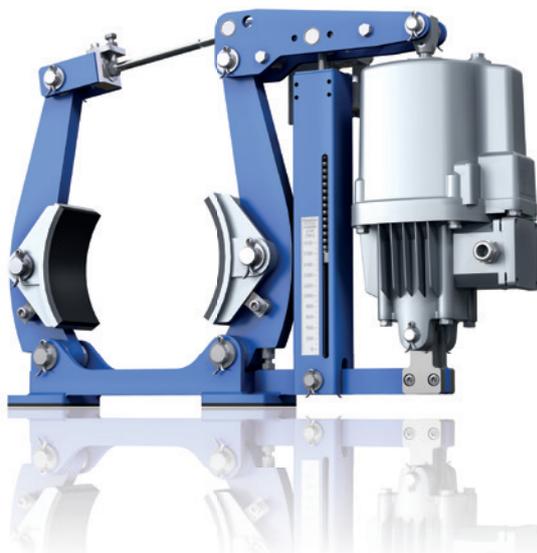
KTR-STOP® YAW M Yaw brake

- Clamping forces up to 203 kN
- Short reaction times subject to small distance between brake pad and brake disk and the small oil volume
- Large pad surface resulting in low surface pressure, small wear of pad and low temperature
- Low maintenance effort because of only few mobile components
- Leakage oil connections prevent leakages on the brake pad
- Brake pads made of various materials available
- Easy replacement of brake pads
- Suitable for harsh ambient conditions



EMB-STOP XS-P Passive floating caliper brake

- Spring-activated (fail-safe), released electromechanically
- Clamping forces up to 12kN
- Various kinds of power supply available
- (400VAC 50/60Hz, 24VDC, etc.)
- „Plug and Play“ and low maintenance
- Extremely fast with triggering the brake (100ms only)
- Mechanical manual triggering of brake possible
- (e. g. for lowering the load)
- Suitable for harsh ambient conditions
- Offshore options
- Integrated switches/sensors: „released“ , „wear“



KTR-STOP® TB T Drum brake

- Design in accordance with DIN 15435
- The fully enclosed spiral element improves protection against damage and dirt
- Adjustable braking torque
- Pins and drawbars/spring drawbars made of stainless steel
- Also available as a disk brake type

In their element with heat. Our cooling systems.

Product			
		Oil/air cooler OAC	Combined cooler MMC
Construction machines	Asphalt finishers	■	■
	Cranes	■	■
	Diesel generators	■	■
	Drainage pumps	■	■
	Forklift trucks	■	■
	Hydraulic excavators	■	■
	Mobile compressors	■	■
	Road milling machines	■	■
	Single-drum compactors	■	■
	Telescopic handlers	■	■
	Wheel loaders	■	■

Heat is generated wherever work is done. And wherever **KTR** products are used, really hard work is often done. That is why **KTR** thought about heat dissipation. The result was implemented via high-performance and efficient cooling systems that are used both in stationary and mobile power packs.



Oil/air cooler OAC

- High-performance cooler net made of aluminium for a maximum static operating pressure of 26 bar
- Applicable for hydraulic oil, gear oil, lubricating oil, motor oil and water-glycol mixture
- Fan drive in 12V, 24V, 230/400V, 400/690V and hydraulic drive
- Maintenance-free and good possibilities for cleaning
- Low sound pressure level
- CE symbol
- With special coating for marine applications (CDP coating + acid-resistant powder coating)
- Segments of the cooler that are difficult to access are protected by a special dipping process
- Such coolers are supplied with a special electric motor protection class IP56. The additional protective coating does not have any effect on the efficiency of the cooler.



Combined cooler MMC

- High-performance cooler made of aluminium to be combined for various media
- Water, oil, charge air and fuel cooler
- Type for harsh operating conditions
- Selection in accordance with customized specifications
- Selection of laminas adapted to the application
- System engineering covering sophisticated overall systems including fans and various kinds of drive technologies
- Thickness of block from 32 to 200 mm
- Cooler geometries adapted to the mounting situation

Compressor cooler

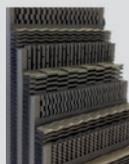


- Modular type two-stage heat exchanger element
- To lower this temperature, aftercoolers are used reducing the moisture content of air at the same time
- Heat exchanger for cooling compressed air in pressure boosting systems
- For engines started with compressed air
- Customized version
- Type for harsh conditions of application
- System engineering following customized and application-specific requirements
- For mobile and stationary systems

Customized Cooling Systems – adapted to our customers' needs.

Our combined coolers **MMC** are tailor-made and adapted to the needs and conditions of the respective application. Used as a water cooler, the **MMC** series tempers the cooling water. Used as an oil cooler it ensures cooling of hydraulic and gear oil, as a charge air cooler it provides for cooling of combustion air. Such a high-performance cooling system meets all requirements on temperature control of media, for example if used as a fuel cooler.

- Design
 - Engineering
 - Production
 - Logistics and quality
- A person in charge



Lamina



fan



drive



combined cooler MMC

Headquarters

KTR Systems GmbH

Carl-Zeiss-Str. 25

D - 48432 Rheine

Phone: +49 5971 798-0

Fax: +49 5971 798-698 or 798-450

E-Mail: mail@ktr.com

For you on site throughout the world: ktr.com > contact

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