



Couplings for material handling

Intelligent components for safe drives

Made for Motion



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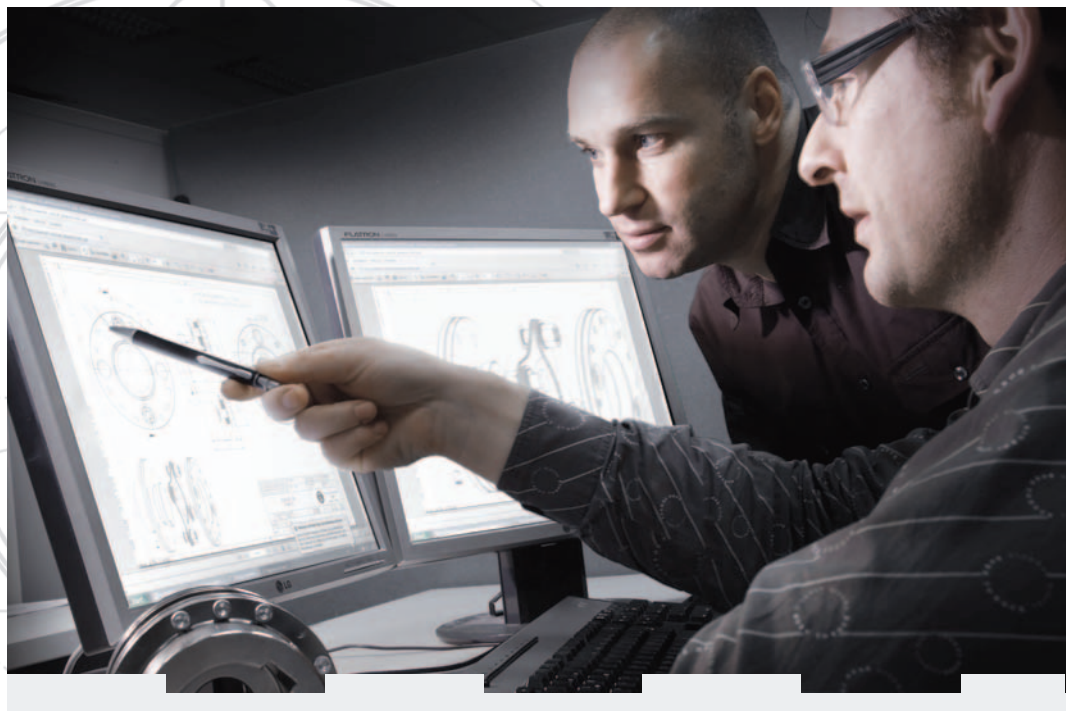
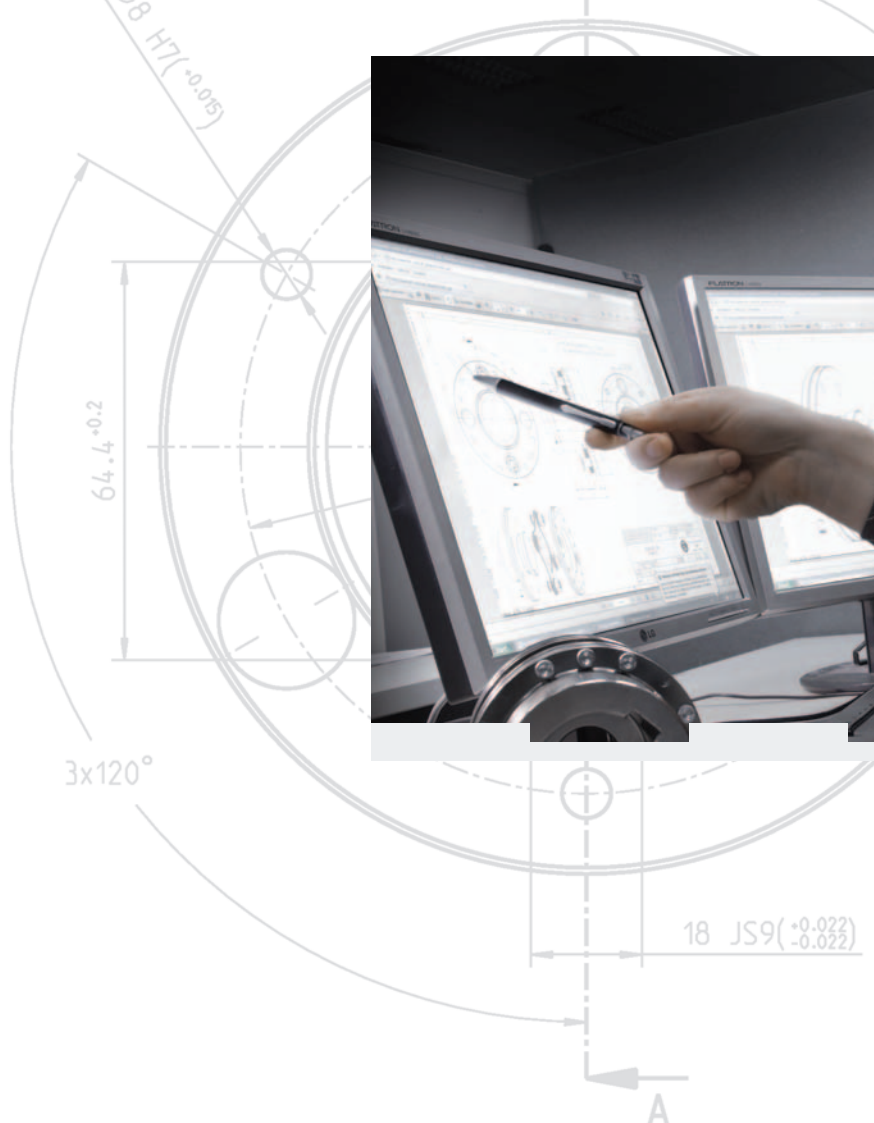
If you want to set things in motion: KTR

Competence meets creativity

As a leading manufacturer of high-quality drive components, KTR supplies mechanical couplings, clamping sets, torque limiters, torque measuring systems and hydraulic components all over the world. With more than 50 years experience in power transmission we are trendsetters in the development of coupling technology and offer customised solutions to all industries. The KTR trademark characterises quality and innovation, speed, reliability, flexibility and a close working relationship with customers.

Having started with the curved-tooth gear coupling® BoWex® and the torsionally flexible jaw coupling ROTEX®, KTR has built up an extensive product portfolio covering torques from 0,15 to over 750.000 Nm. The production by KTR's in-house, up-to-date machinery ensures that the couplings are made to the utmost accuracy. The couplings having a unit weight of up to 2 tons. Flexible automation ensures a quick and low-cost production even if the product has to be customised to meet customers individual specifications. KTR produce several million couplings a year.

Even though KTR's standard product portfolio is quite extensive, it only represents a fraction of the different options available. KTR is not only a subcontractor but also a solution provider. The knowledge gained from thousands of applications in the field allows us to find optimum, low-cost solutions for customised applications. We will consult you during the planning stage providing drawings and prototypes or arranging for local discussions if required. Every year KTR produces more than 10.000 new products ordered by customers. This trend increases year on year. This leads to many special products becoming standard items: We permanently give vital ideas to the Power Transmission technology – in cooperation with our customers.



Accuracy meets speed

KTR products are evidence of well-designed, quality components resulting in improved characteristics of the drive system and as a consequence, a longer service life. It is our aim to continually improve the quality of our products and services. We can analyse the stiffness of components by utilising FEM (Finite Element Method) system and we can also perform torsional vibration calculations for entire drive systems. In our in-house Research and Development Centre we test our products on accurate test benches in realistic operating conditions. Our main objective is to provide the uppermost satisfaction to our customers.

Our technical sales engineers and our well-trained sales staff will be pleased to give you advice. KTR provides you with extensive services online, too: At www.ktr.com you can request information, including our product catalogue, 3D-CAD-models and assembly instructions. Depending on your application you can select your drive component from of more than 3.500 standard products. Having selected which one is the right component for your application by using our online calculation program, you are now in a position to order the products by

contacting your nearest KTR company. Alternatively our Euro shop is open 24 hours a day.

Our latest scheduling system SAP ERP ensures an optimum networking with our customers and allows for a quick and reliable delivery service. A selection of 3.500 couplings and hydraulic components are permanently available from stock. For orders placed by 2:00pm we guarantee the despatch of orders the same day! In the KTR Logistics Centre the overall flow of goods is supervised by radio-controlled barcode scanning. Leading distribution partners ensure delivery on time. Our tracking and tracing system allows you to follow the progress of your order at all times. KTR supplies to every location in the world.

For further details about us and our products:
www.ktr.com



We can make life easier for you!

You are an expert in travelling cranes, floor cranes, bridge cranes or gantry cranes. For continuous transporters, ground level transporters, cable control, chain hoists, wrapping machines and palletising robots. KTR is the right partner for you. Our engineers are experts in the drive systems of such machines.

Efficiency and speed have increased along with the degree of automation of material flow technology. Transport, transshipment and storage systems are becoming more sophisticated. Processes are optimised to reduce costs and delivery times. Packaging machines operate more accurately and at the same time, faster and with more flexibility. Everybody knows: time is money.



We protect drive systems from stress

Drive technology has to realize whatever a machine is supposed to be. KTR couplings for materials-handling technology, lifting technology and intralogistics are mainly characterised by high power density, i. e. a compact design with high efficiency.

KTR couplings are designed in a way that they compensate reliably for shaft misalignment caused by inaccuracies in production or heat expansion. At the same time they absorb high dynamic loads by dampening, for example, start and shock loads. In this way they provide for stressless, i.e. quick, safe and economic drives, while increasing the service life of the overall system.

We support you with your work

With KTR the selection of the ideal coupling system for your individual application is stressless, too: Our application engineers are pleased to advise and support you with your selection. It goes without saying that this does not only apply for our catalogue programme, but also for tailor-made solutions and new developments following your specifications. You assign us a task which our engineering department will sort out for you.



Make efforts about transportation!

KTR offers you a wide range of couplings, clamping sets and torque limiters for the transportation of bulk material, for storing and distributing, filling up and packing, giving comfortable lifting and accurate positioning with the utmost speed. In this case our technically advanced products are the most suitable for use in this area from an economical point of view.

- The axial plug-in, maintenance-free, failsafe and torsionally flexible jaw coupling ROTEX® is often used on crane drives where shaft displacements have to be compensated for and vibrations have to be dampened
- The type ROTEX® AFN-SB with integrated brake disk is ideal, for example, for harbour cranes, overburden dredgers and other large machines. The disk brake is simply mounted on the driven side, since that is where the bigger mass moment of inertia becomes effective.
- The axial plug-in, failsafe, maintenance-free ROTEX® GS is backlash-free in addition. Due to its high power density it ensures a power transmission free from vibrations which is important with elevator drives.
- The backlash-free, torsionally stiff, maintenance-free steel laminae coupling RADEX®-N with a laminae design optimised by FEM (Finite Element Method) for accurate torque transmission from 15 to 280,000 Nm is suitable both for hoisting plants and wrapping machines.
- The double-cardanic types RADEX®-N NANA and RADEX®-N NNZ which correspond to the short version are characterised by the ability to compensate for high displacements with low restoring forces: they are perfectly suitable for wrapping machines and robotics.
- For a frictionally engaged connection between shaft and belt pulley for infinitely variable positioning of synchronous belt drives you require the reusable CLAMPEX® clamping sets: they are compact, powerful and low-cost.

Protecting man and machine.

Overload may cause blockages, jams and collisions on hoisting plants that not only endangers the machine but also the operator and other personnel. A torque limiter, as a mechanical overload system, offers protection against this danger: It separates the drive from the machine as soon as the torque set is exceeded. This is the quickest and safest solution!

For drives with low to average speeds and torques up to 400 Nm, e.g. synchronous belt drives on wrapping machines, our patented, backlash-free overload system SYNTEX® is preferred. Choosing the integrated solution provides you with a low-cost safety coupling.

For rugged drives with low requirements to response and repeating accuracy, i. e. chain drives and V-belt pulleys, the torque limiter RUFLEX® ensures a reliable overload protection up to 6.800 Nm.

KTR safety couplings are also available as a retrofit solution. You can retrofit high quality drive components with RUFLEX®, KTR-SI or SYNTEX® to protect them from destruction or early wear and in this way reduce life cycle costs.

Products for other servo applications are listed in our catalogue "Catalogue for machine tools". Moreover, we are pleased to produce special couplings and components based on your specifications. Get the support from our application engineers to select the optimum KTR products for your application!



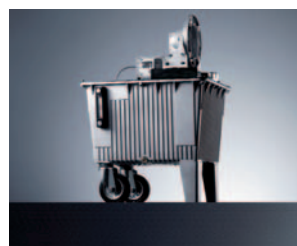
Couplings for Material Handling

				
Product	ROTEX®	POLY-NORM®	REVOLEX® KX	BoWex®
High-rise warehouse technology	●			●
Automatic small parts warehouses	●			●
Belt conveyor drives	●	●	●	
Transshipment/displacing systems	●	●	●	●
Warehouse lifts	●			●
Cranes	●	●		
Hoisting equipment	●			
Unit load conveyors	●	●	●	
Bulk material conveyors	●	●	●	
Bucket conveyors	●	●	●	
Worm conveyors	●	●	●	
Floor conveyors	●			

				
RADEX®-N	ROTEX® GS	BoWex® FLE-PA	CLAMPEX®	RUFLEX®/SYNTEX®
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Measuring System
DATAFLEX® Torque measuring shaft



Hydraulic Components
 Bellhousings
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 Damping elements
 Oil tanks
 Accessories
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