

PART OF EXCELLENCE

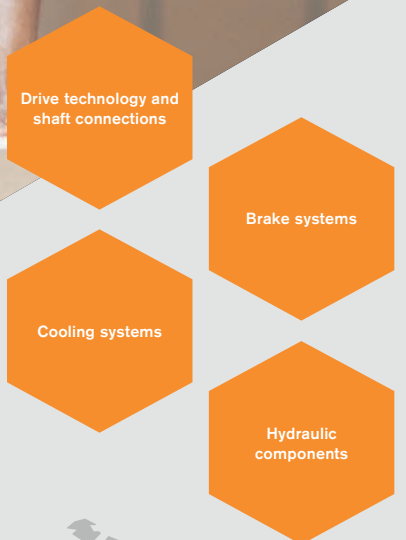
Maximum precision in complex systems

Components for Automation,
Packaging machines, Intralogistics,
Food & Beverage



Made for Motion





KTR worldwide – Our locations for quality and service.

- Headquarters (Rheine / Germany)
- 24 subsidiaries
- 90 sales partners
- More than 1,200 employees worldwide

KTR Systems – Solutions across industries for a global market.

As a progressive and innovative knowledge partner for our customers, we actively shape the technological future. By consciously responding to the needs of our customers and having a deep understanding of their technology, it is possible for us to develop cross-industry solutions. In doing so, we always strive for excellence and optimise existing approaches. And this has been the case since 1959.

PART OF EXCELLENCE

Our philosophy of PART OF EXCELLENCE is reflected in every single component and service we provide. With our expertise and innovation, we achieve top performance together with our customers. KTR is at home in industrial markets on all continents with more than 500 employees at its headquarters in Rheine, more than 1,200 employees worldwide, 24 subsidiaries and over 90 sales partners. As a **leading manufacturer of high-quality drive technology, braking and cooling systems and hydraulic components** KTR is a reliable partner for all companies that want to keep moving. As a leading expert in these fields, we take pride in offering our versatile solutions in the following industry:



→ Automation

Industrial automation requires durable, precise drive components for accurate positioning and exact repeatability.



→ Packaging machinery

Components that are used in packaging machines must impress with their repeatability, reliability and precision.



→ Intralogistics

For the various requirements of intralogistics, couplings and overload systems must be maintenance-free, wear-free and, of course, reliable.



→ Food & Beverage

In addition to the high demands on durability and maintenance-free operation, the strict hygiene requirements of the food industry must also be met.



Our components for Automation, Packaging machines, Intralogistics, Food & Beverage

From linear units to conveyor belts – even if the challenges differ, from a drive technology perspective there are requirements and application profiles that apply to (almost) all applications.

Systems must be repeatable and precise in order to be efficient and reliable. A backlash-free and wear-free design not only increases efficiency, but also extends service life and minimises operating costs. In addition, maintenance-free systems with robust overload protection are essential for safe and uninterrupted operation. Compact and space-saving designs not

DRIVE COMPONENTS

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ROTEX® GS
Backlash-free jaw coupling



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TOOLFLEX®
Metal bellow-type coupling



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RADEX®-NC
Backlash-free servo laminae coupling



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ROTEX®
Torsionally flexible jaw coupling



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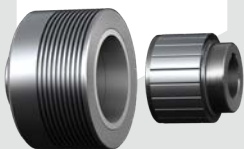
CLAMPEX®
Clamping set



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MINEX®-H
Hysteresis coupling



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BoWex®
Curved-tooth gear coupling®



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RADEX®-N
Steel laminae coupling



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Precision joint



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DATAFLEX®
Torque measuring shaft



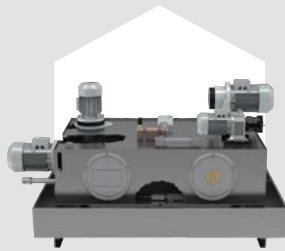
COOLING SYSTEMS

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You can find more information on our website www.ktr.com/en/industries

only make mounting easier, but also ensure flexible assembly and adaptation to different environments. Last but not least, durability is a decisive factor that contributes significantly to the overall efficiency of the systems. KTR has developed numerous components for all these requirements. Our products are primarily used in the following sectors:

Applications

Automation

- Servo drives
- Industrial robots
- Linear units
- Screw drives
- Automated production lines

Packaging machinery

- Capping machines
- Filling machines
- Labelling machines
- Cartoning systems
- Palletisers

Intralogistics

- Conveyor systems
- Storage systems
- Cranes
- Automated transport systems
- Order picking systems

Food processing machinery

- Processing machines
- Mixers
- Cutting machines
- Beverage manufacturing machines
- Dough and baking machines

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RUFLEX®
Torque limiter



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SYNTEX® -NC
Backlash-free safety coupling



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KTR-SI Compact
Backlash-free Safety coupling



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HIGH LIGHT

ROTEX® ZRS
Torsionally flexible intermediate shaft coupling



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NEW!

MONITEX® BT
Torque measuring coupling hub



KTR SYSTEMS

You can also find more components in our comprehensive four product catalogues in the download area:



www.ktr.com



◊ Whether brakes, coolers, hydraulic components or, above all, drive elements such as couplings and clamping sets, our broad product portfolio for **automation and intralogistics** and sets the course for long-term and trusting partnerships. The focus is on you and your challenges. We make our contribution with passion and creativity, true to our motto **PART OF EXCELLENCE**.

DRIVE COMPONENTS

ROTEX® GS is a three-part servo coupling backlash-free under prestress (elastomer coupling). The various hub versions and different Shore hardnesses provide the optimum coupling for each application in automation technology.

- Easy assembly

- Low-priced

- Good visual inspection of wear and estimation of service life

- Electrically insulating to interrupt leakage current

0.2 to 5,850 Nm nominal torque

1

ROTEX® GS
Backlash-free jaw coupling



2

TOOLFLEX®
Metal bellow-type coupling



TOOLFLEX® is a torsionally stiff and flexible metal bellow-type coupling (all-metal coupling) with a bellow made of stainless steel and coupling hubs made of aluminium. The coupling hubs of our metal bellow-type coupling in size 55 and 65 and as a type KN are made of steel. The metal bellow ensures optimum compensation of axial, radial and angular displacements with conformal torque transmission.

- Backlash-free, torsionally stiff pin & bush coupling made of metal

- Offsetting radial, axial and angular displacements

- Non-positive bellow-hub-connection

- Application range up to +200 °C

2.5 to 3,200 Nm nominal torque

3

RADEX®-NC
Backlash-free servo laminae coupling

RADEX-NC® is the double-cardanic standard series with spacer. This type allows for conformal torque transmission while compensating for axial, radial and angular displacements. The backlash-free servo couplings RADEX-NC® are provided with clamping hubs or clamping ring hubs.

- Backlash-free servo laminae coupling

- Maintenance-free

- Max. ambient temperatures of +200 °C

- Torsionally stiff

- Double-cardanic coupling design



KTR offers the
right solution for
every application in
automation industry

Couplings

Torque limiters / overload couplings

Clamping sets

Precision joints

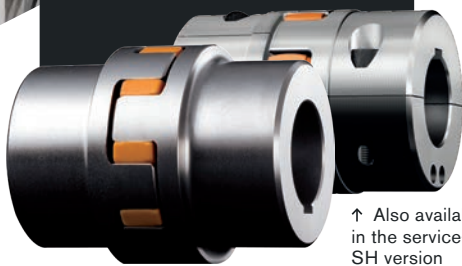
Torque sensors

4

0 to
35,000 Nm
nominal
torque

ROTEX®

Torsionally flexible
jaw coupling



↑ Also available
in the service-friendly
SH version

ROTEX® torsionally flexible jaw couplings are elastomer couplings characterized by a compact design. In spite of low weights and mass moments of inertia of the elastomer couplings they are able to transmit high torques.

Jaw coupling for power transmission damping torsional vibrations

Axial plug-in, easy assembly, maintenance-free

Standard spiders made of high-temperature resistant **T-PUR®**

CLAMPEX®- clamping sets (clamping elements) enable backlash-free and frictionally engaged connection between cylindrical shafts without keyway and hub and are preferred as an alternative to a feather key connection considering their benefits.

Backlash-free shaft-hub-connection

Simultaneous transmission of torque and axial force

Maintenance-free

Operating temperature from -20 °C to +160 °C

530 to
68,000 Nm
nominal
torque

5

CLAMPEX®
Clamping set



6

RUFLEX®

Torque limiter



The **RUFLEX®** torque limiter provides for load-holding, frictionally engaged overload protection. When the torque set is exceeded, the drive element slips. As soon as the occurring torque decreases, the torque limiter automatically continues to transmit the torque.

Low-priced

Load-holding overload protection up to 12,000 Nm

Integration of customised drive components

Available from stock without bore

The backlash-free safety clutch **SYNTEX®-NC** is an overload clutch with a low weight and mass inertia. Large borehole diameter and assembly-friendly clamping ring version are further features of the extremely compact overload clutch.

- Backlash-free

- Maintenance-free

- Safety couplings as a ratchet and synchronous type

- Precision 10 %

- Corrosion-protected

0 to
550 Nm
nominal
torque

7

SYNTEX®-NC

Backlash-free
safety coupling



8

KTR-SI Compact

Backlash-free
Safety coupling



Our range of **KTR-SI Compact** safety couplings comprises the backlash-free, load-separating safety coupling as a flange type (KTR-SI Compact FT) and with backlash-free servo couplings (KTR-SI Compact with ROTEX® GS). The backlash free ball engagement system is made of high-quality Q & T steel.

- Safety couplings as a ratchet and synchronous type

- Maintenance-free

- Hardened surfaces

- Precision 10 %

- Corrosion-protected

The **MINEX®-H** hysteresis coupling transmits the torque from the driving to the driven element without contact via magnetic forces (wear-free torque transmission). Having reached the maximum torque, the MINEX®-H hysteresis coupling switches to slipping operation, thus ensuring wear-free torque limitation.

- Maintenance-free hysteresis coupling by contactless torque transmission by means of magnetic forces

- Wear-free torque limitation

- Load-holding

- Very good repeatability of torque

0 to
10 Nm
nominal
torque

9

MINEX® -H

Hysteresis coupling



10

BoWex®

Curved-tooth gear coupling®



The double-cardanic curved-tooth gear coupling **BoWex®** suitable for all applications of mechanical engineering and hydraulics. The material pairing of nylon/steel in our gear coupling enables maintenance-free operation and eliminates the need for grease or oil lubrication.

- For all applications in the field of mechanical engineering and hydraulics

- Maintenance-free due to material combination nylon/steel

- Taper and inch bores for hydraulic pumps

↑ Also available as a carbon fibre-reinforced sleeve



More components
can be found at:
[www.ktr.com/de/en/
products/drive-technology/](http://www.ktr.com/de/en/products/drive-technology/)

All-steel couplings with laminae sets made of high-strength and stainless spring steel. The steel laminae sets of our laminae couplings, such as the **RADEX®-N**, were developed based on FEM calculations.

All-steel coupling/laminae coupling

Backlash-free, torsionally rigid and maintenance-free

Wear-free

High displacement figures

Application range up to +280 °C

0 to
280,000 Nm
nominal
torque

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RADEX®-N

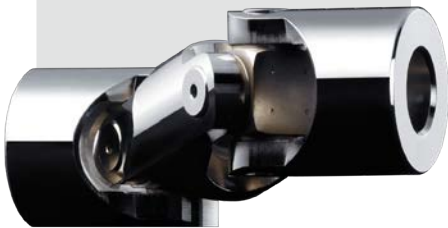
Steel laminae coupling



12

Max.
permissible
speed
1,000 1/min

Precision joint



Precision joints consist of a joint centre piece and two hub bodies connected by straps. Bearing of the joint heads is made by plain or needle bearing selected based on the kind of application. This bearing allows Precision joints to compensate for significantly larger angular displacements compared to other coupling types. Precision joint acc. to DIN 808.

Type G / GD: Single or double precision joint with plain bearing

Type H / HD: Single or double precision joint with needle bearing

Type GA / HA: Extendable double precision joint

Type X / XD: Precision joint made of stainless steel

Max. diffraction angle = 45° per joint

Precise measuring of torque and speed is an indispensable part of modern drive technology with its variable and dynamic drives. The **DATAFLEX®** torque sensor has two measuring ranges calculating four parameters at the same time: torque, speed, rotation angle and rotation direction.

Available in eleven sizes from 10 Nm to 20 kNm

Dual-range sensor 5:1

Inaccuracy 0.1 %

Integrated speed measurement

Direction signal

Output signal ± 10 volts

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DATAFLEX®

Torque measuring shaft



Serviceability,
safety and reliability!
That is what KTR
couplings stand for!



0 to
520 Nm
nominal
torque

ROTEX® ZRS
Torsionally flexible
intermediate
shaft coupling

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Illustration:

- 1 **Easy assembly and disassembly**
via four screws only
- 2 **The core of the coupling**
spiders available in various
degrees of hardness, making the
pump run perfectly smooth
- 3 **Internal geometry machined**
tailor-made for elastomer
- 4 **Half shell hubs**
half shell couplings allow radial
assembly and disassembly



More information can be found at:
www.ktr.com/de/en/products/rotex-torsionally-flexible-jaw-couplings/rotex-zrs

ROTEX® ZRS jaw coupling for bridging smaller and bigger shaft distances. The lightweight ZRS made of high-strength aluminium captivates by a very high overall stiffness. The high stiffness of the aluminium pipe arises from the structure consisting of two pipes that are connected via webs – the ROTEX® cams. The critical bending speed of the coupling is positively affected; shaft distances up to 4,000 mm can be bridged subject to the very low bending.

ROTEX® GS ZR1 | Standard with 2 jaw couplings and intermediate shaft



ROTEX® GS ZR3 | Standard with bonded or welded hubs



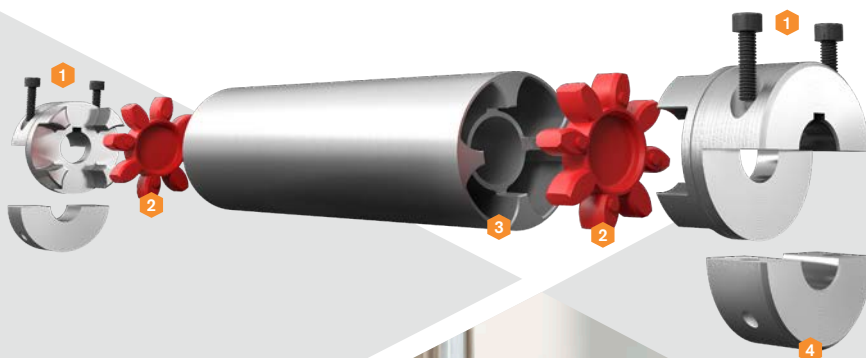
Double-cardanic jaw coupling with half shells (half shell coupling) and intermediate shaft (cardan shaft)

Lightweight made of high-strength aluminium convinces by a very high overall stiffness for bridging large shaft distances

Good damping properties due to double arrangement of spiders

Intermediate pipe flexibly supported in the GS spider and radially dismountable

Available in five sizes



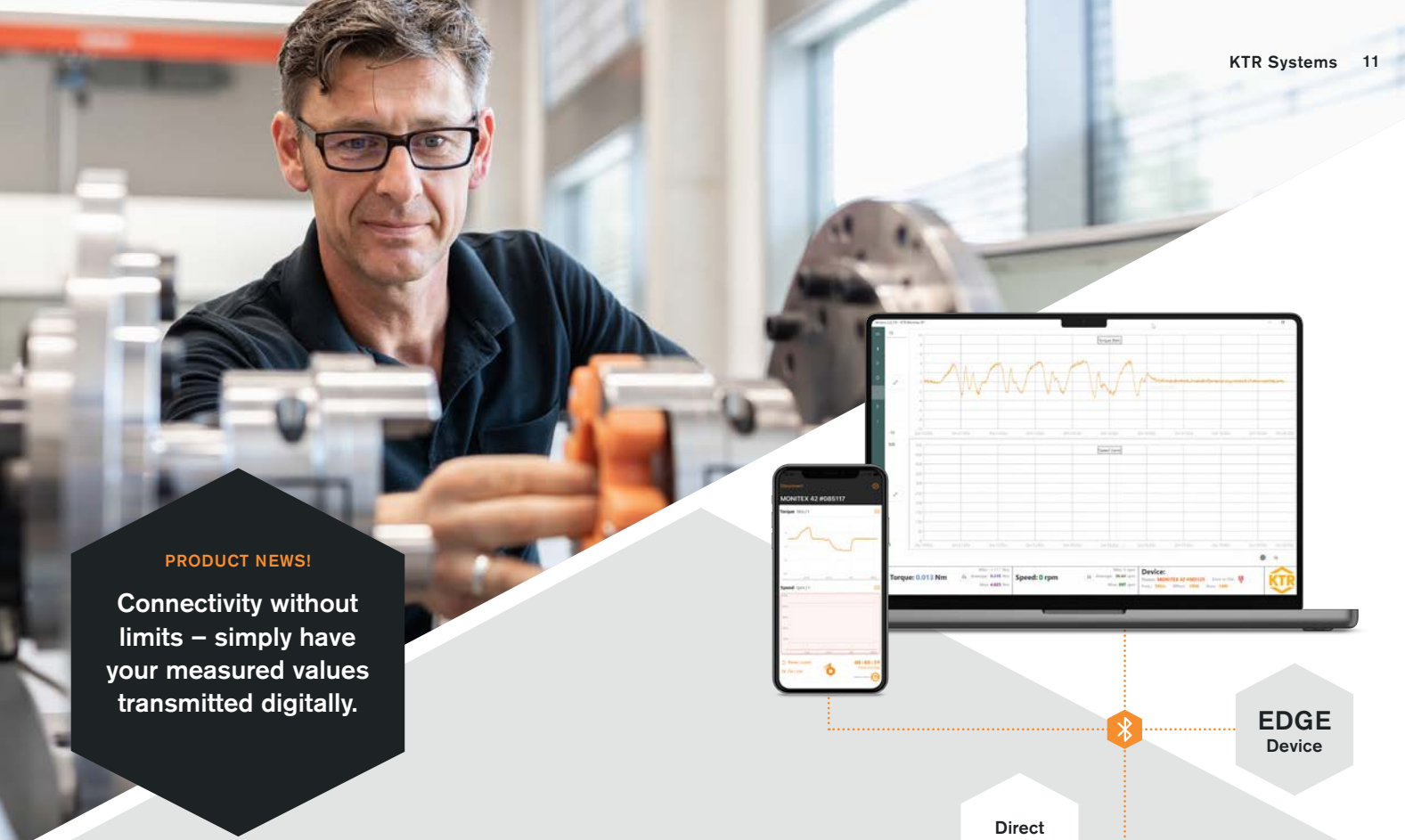
KTR FOCUS

Staying one step ahead of the competition with precision

Our products are specially designed to meet the requirements of precise and reliable applications. They guarantee repeat accuracy, precise positioning and are also maintenance-free and wear-free, which ensures their longevity. Thanks to our in-house quality control, we ensure that no product leaves our premises untested. These strict tests allow us to continuously ensure the reliability and high performance of our components.

Maximum expertise and precision in decades of KTR quality.





PRODUCT NEWS!
 Connectivity without limits – simply have your measured values transmitted digitally.

KTR FOCUS

ROTEX® goes digital – MONITEX® BT, the coupling hub that measures torque

The **MONITEX® BT** torque sensor is a torque-measuring coupling hub for measuring torque and speed. MONITEX® BT is a ROTEX® coupling hub with an integrated measuring system for measuring torque and speed. Subject to its short design the system can replace a standard ROTEX® hub in many cases while easy to assemble. The inductive energy supply is implemented by an inductive head that is fitted radially to the coupling with a maximum distance of 10 mm. As soon as the system is switched on, the meas-

ured torque and speed data are sent by the MONITEX® BT via bluetooth and can be received by a smartphone, a tablet or a PC via the free MONITEX® BT app.

- Complete unit including coupling hub

- Integrated display

- Free app for IOS and Android

- Free software for Windows

- Contactless power supply

Illustration:

- 1** Measuring hub

- 2** Cap screws

- 3** Flange hub



EDGE Device

Direct readability



MONITEX® BT
 Torque measuring coupling hub

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NEW!

Digital-to-analog-converter (DAC)
 Converter



COOLING SYSTEMS

KTR Systems is a manufacturer of high-quality cooling systems based in Rheine. As a customised product or standard solution, multimediuum cooler, oil/air cooler or oil/water cooler for forklift trucks, for example or stationary hydraulics, optionally available as ATEX version, powerful and efficient.

Oil / Air cooler

Oil / Water cooler

MMC combined cooler – mobile machinery cooler

Cooling systems
 Customised solutions –
 for every application



More components
 can be found at:
[www.ktr.com/de/en/
 products/cooling-systems](http://www.ktr.com/de/en/products/cooling-systems)



OAC cooler



MMC cooler

HYDRAULIC COMPONENTS

For almost 60 years we have provided the industry with a continuously growing range of hydraulic components from our in-house development and manufacturing: accurate selection, high-quality processing, quick availability and low prices. Our range of hydraulic components includes bellhousings and accessories.

Aluminium or steel tanks

Bellhousings type PG made of aluminium or cast iron

Foot flanges and gaskets

Damping rings and damping rods

Tank heaters

Temperature control and temperature monitoring

Oil sump pans, cleaning covers and oil level indicators



Plate heat exchanger

BRAKE SYSTEMS

Whoever talks about driving must be able to slow down – KTR is a manufacturer of brakes. The “Competence Center for Brake Systems” is located in Schloß-Holte-Stukenbrock in Eastern Westphalia and the headquarters of KTR Brake Systems GmbH. **Being one of the few manufacturers worldwide, KTR provides three different brake systems: the hydraulic KTR-STOP, the electromechanical EMB-STOP and the pneumatic KTR-STOP PB.** Our brake systems are globally used in various industries. Customer preference and parameters of the application decide upon the selection of the right brake.



Floating caliper brakes

Fixed caliper brakes

YAW brake

Thruster brakes

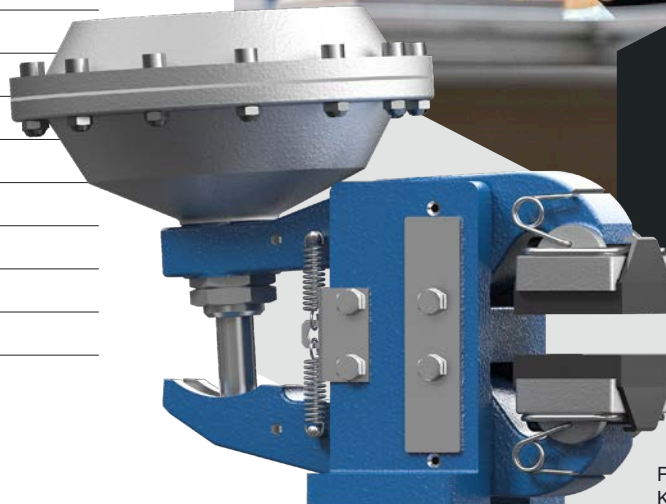
STOP-BLOCK-TURN System

Electronic control system

Rotor lock/locking pin

Caliper brakes

Hubs with brake disks



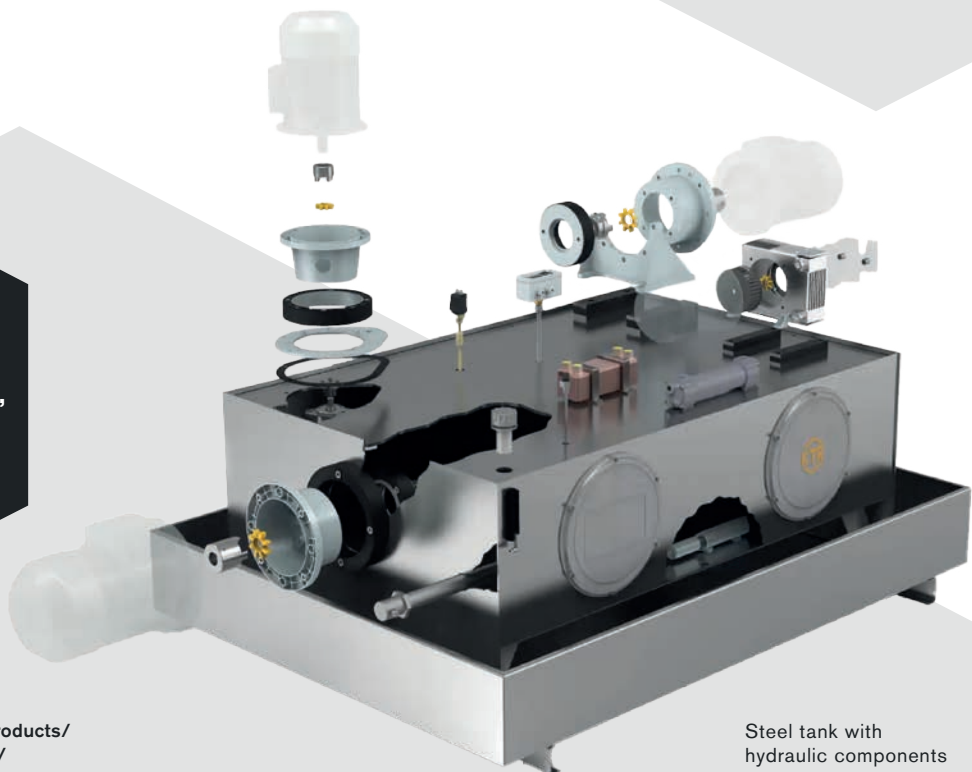
Brake systems
Opposites attract:
the brake portfolio
of KTR

Pneumatic caliper brake
KTR-STOP® PB



More components
can be found at:
[www.ktr.com/de/en/
products/brake-systems/](http://www.ktr.com/de/en/products/brake-systems/)

Hydraulic components
Accurate selection,
high-quality processing,
short-term availability
and low prices



Steel tank with
hydraulic components



More components
can be found at:
[www.ktr.com/de/en/products/
hydraulic-components/](http://www.ktr.com/de/en/products/hydraulic-components/)

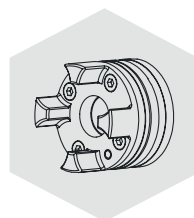
KTR FOCUS

The variety of ROTEX® GS

Due to the numerous applications of ROTEX® GS for many different mounting situations, this coupling system is available with various hub types. The different hub types can be randomly combined within one size.

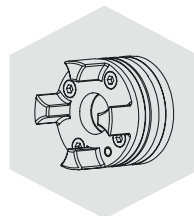
The heart of our couplings is the innovative spider. We offer numerous different spiders, each suitable for different temperature ranges and with varying Shore hardnesses. This includes an FDA-certified spider with chemical resistance especially for the food sector. Thanks to this modular system, we can configure the coupling exactly to your specific needs.

TYPES OF HUBS → ROTEX® GS



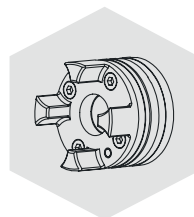
2.9

Compact type clamping hub C with axial slot, with feather keyway. Positive-locking power transmission with additional friction fit. Surface pressure of the keyway connection is reduced. Type 2.9 from size 24 as standard, size 7 – 19 type 2.9 single slotted



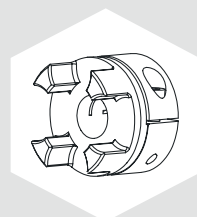
6.0

Clamping ring hub. Integrated frictionally engaged shaft-hub-connection for the transmission of higher torques. Screwing on elastomer side. Suitable for high speeds.



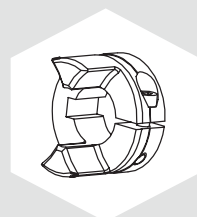
6.1

Precision clamping ring hub Operating principle. equal to type 6.0, but highly accurate machining with slight modifications of design.



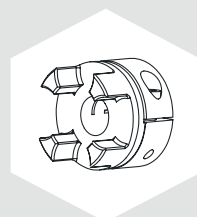
1.0

with feather keyway and setscrew. Positive-locking power transmission, permissible torque depending on the permissible surface pressure. Not suitable for backlash-free power transmission with heavily reversing operation.



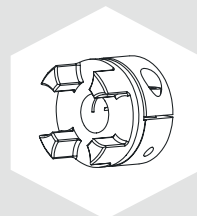
2.1

Clamping hub single slot with feather keyway. Positive-locking power transmission with additional friction fit. The friction fit avoids resp. reduces reverse backlash. Surface pressure of the keyway connection is reduced. Type 2.1 up to size 14 as standard.



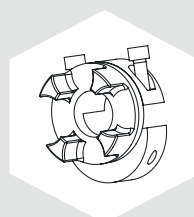
2.5

Clamping hub double slot without feather keyway. Frictionally engaged, backlash-free shaft-hub-connection. Transmittable torques depending on bore diameter. Type 2.5 from size 19 as standard. (For ATEX Cat. 3 only)



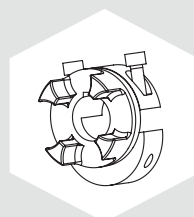
2.6

Clamping hub double slot with feather keyway. Frictionally engaged shaft-hub-connection. Transmittable torques depending on bore diameter. Type 2.5 from size 19 as standard. (For ATEX category 3 only)



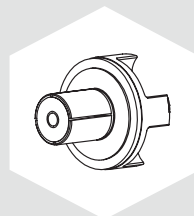
7.5

Clamping hub type DH without feather keyway for double-cardanic connections. Frictionally engaged, backlash-free shaft-hub-connection for radial assembly of coupling. Transmittable torques depending on bore diameter. Torque specification see page 142. Up to size 14 standard. (For ATEX Cat. 3 only)



7.6

Clamping hub type DH with feather keyway for double-cardanic connections. Positive shaft-hub-connection with additional friction fit for radial assembly of coupling. The friction fit avoids resp. reduces reverse backlash. Surface pressure of the keyway connection is reduced.



9.0

Expansion hub. Frictionally engaged connection for hollow shaft. Transmittable torques depend on bore diameter and hollow shaft.

ROTEX® GS
one coupling in over
18
hub designs for every application



↓
Longevity thanks to certified KTR quality

↓
“If a coupling is designed correctly, it only needs to be replaced in exceptional cases.”
 Rene Edelbusch
 KTR Systems

KTR FOCUS

One coupling, for a lifetime

We guarantee this through minimal wear and precise design. Our conviction is strong: if a coupling is designed correctly, it only needs to be replaced in exceptional cases.

Our products have always been sustainable, as it is often not necessary to replace them. How can we ensure this? Our specialised product managers have extensive knowledge of every potential application scenario for their products. This expertise enables a customised configuration of each coupling, guaranteeing optimum functionality and outstanding durability.

KTR FOCUS

Unique and inimitable – the flexible KTR spider

The flexible spiders for the GS series are available in five different kinds of Shore hardness injected in different colours, either as a torsionally soft or hard material. These five spiders with different kinds of Shore hardness allow to easily adjust the ROTEX® GS to the individual conditions of an application considering the torsional spring stiffness and the vibration characteristics. The flexible prestress varies depending on

the coupling size, the spiders/materials and the production tolerances. Resulting from it is the axial plug-in force. Along with an increasing hardness of the spider the torques to be transmitted and the stiffness of the spider increase, too. Along with reduced hardness of the spider the ability of compensating for displacements and damping the spider increases.

Description of spider hardness [Shore]	Colour	Material	Permanent temperature	Max. temperature (short-time)	Available for coupling size	Typical applications
80 ShA-GS		Polyurethan	-50 to +80	-60 to +120	Size 5 to 19	_ drives of electric measuring systems
92 ShA-GS		Polyurethan	-40 to +90	-50 to +120	Size 5 to 38	_ drives of electric measuring and control systems _ main spindle drives
53 ShD-GS-FDA		Polyurethan	-30 to +90	-40 to +120	Size 19 to 38	_ food processing machines, packaging machines, medical equipment
98 ShA-GS		Polyurethan	-30 to +90	-40 to +120	Size 5 to 90	_ positioning drives & main spindle drives _ high load
52 ShD-S-GS		Polyurethan	-40 to +120	-50 to +150	Size 24 to 42	_ positioning drives, backlash-free gears & main spindle drives _ high load with increased temperature
57 ShD-GS		Polyurethan	-30 to +90	-40 to +120	Size 19 to 65	_ positioning drives & main spindle drives _ high load
64 ShD-H-GS		Hytrel	-50 to +120	-60 to +150	Size 7 to 38	_ planetary gears / backlash-free gears _ higher torsion spring stiffness
64 ShD-GS		Polyurethan	-20 to +110	-30 to +120	Size 42 to 90	_ higher load _ higher torsion spring stiffness
72 ShD-H-GS		Hytrel	-50 to +120	-60 to +150	Size 24 to 38	_ very high torsion spring stiffness _ very high load
72 ShD-GS		Polyurethan	-20 to +110	-30 to +120	Size 42 to 90	_ very high torsion spring stiffness _ very high load

100% original



Did you know that the **ROTEX®** is the most copied coupling in the world?



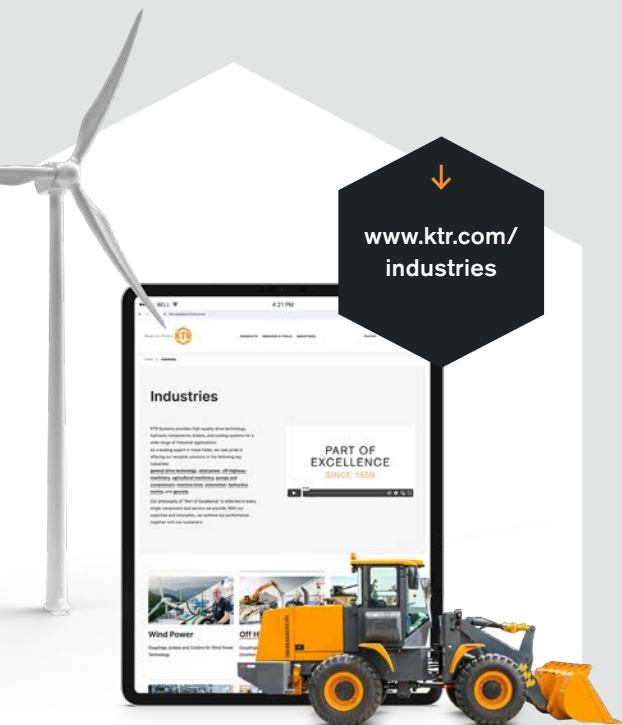
KTR FOCUS

What makes an original an original? And why nothing beats the original.

The development of the BoWex® coupling marked the founding of KTR, followed by the invention of the famous ROTEX® coupling, which introduced a previously unestablished component of a coupling to the market: the elastomer spider.

Although the hubs of our couplings are often copied – the ROTEX® is the most copied coupling in the world – the spider remains difficult to copy due to its complex nature and can therefore only be purchased from us as an original.

However, we are not resting on our laurels, but are constantly striving for further development and innovation. We are continuously working on specialised spiders for various applications. These endeavours guarantee that the products will continue to offer proven quality and adapt to changing requirements and applications in the future. Despite these constant changes, the ROTEX® and its spider will always remain one thing: An original.



↓
www.ktr.com/industries

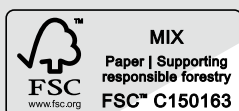
Solutions across all industries on our KTR website.

KTR Systems supplies high-quality products for a wide range of industrial applications. We are proud to be able to offer versatile solutions across all key industries with our drive technology, hydraulic components, brakes and cooling systems.

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Our components for Automation, Packaging machines, Intralogistics, Food & Beverage in comparison

1 up to **4**

KTR components | Couplings

→

	1	2	3	4
Max. torque [Nm]	5,850	600	3,200	3,500
Max. bore diameter [mm]	110	65	90	200
Torsionally stiff		⊕	⊕	
Torsionally flexible	⊕			⊕
Backlash-free	⊕	⊕	⊕	
Maintenance-free	⊕	⊕	⊕	⊕
Fail-safe	⊕			⊕
Compact dimensions	⊕	⊕	⊕	⊕
Single-cardanic	⊕		⊕	⊕
Double-cardanic	⊕	⊕	⊕	⊕
Axial plug-in	⊕	⊕		⊕

6 up to **9**

KTR compontens | Torque limiters

→

	6	7	8	9
Max. torque [Nm]	0,5 – 12,000	2 – 550	3 – 3,100	30
Max. bore diameter [mm]	140	60	80	50
Backlash-free		⊕	⊕	⊕
Compact dimensions	⊕	⊕		⊕
Friction coupling	⊕			
Ratchet coupling		⊕	⊕	
Wear-free				⊕

10 up to **14**

KTR components | Couplings

	10	11	14
Max. torque [Nm]	2,500	280,000	325
Max. bore diameter [mm]	125	330	48
Torsionally stiff	⊕	⊕	
Torsionally flexible			⊕
Backlash-free		⊕	⊕
Maintenance-free	⊕	⊕	⊕
Fail-safe			⊕
Compact dimensions	⊕	⊕	⊕
Single-cardanic	⊕	⊕	
Double-cardanic	⊕	⊕	⊕
Axial plug-in	⊕		



You can find more
information on our website
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