

PRESENTING: YOUR COUPLING EXPERTS

R+W PRODUCT OVERVIEW

WHO WE ARE

R+W: A SCHOOL OF EXPERTS.

Our school of experts, since the founding of R+W Coupling Technology in 1990, is headquartered in Klingenberg, Germany. Here you will meet, in the truest sense of the word, experts. R+W has over 20 years of knowledge and experience in making shaft to shaft connections. We manufacture, among other things, precision couplings and line shafts. R+W has become a trendsetter for technical development and product innovation. Our couplings themselves are experts as well, with different skill sets for various applications.

R+W IS ABOUT ONE THING: THE PERFECT COUPLING.

R+W shaft couplings stand for quality, reliability, and precise torque transmission. Our product portfolio, optimized for technology and business, includes all sizes of metallic and elastomeric flexible couplings, line shafts, and safety couplings, as well as the possibility for development of customized solutions from initial consultation to production.

As a top manufacturer of precision couplings and line shafts, our driver is to maintain a permanent status of technology leader in the field of precision couplings.

	WHO WE ARE	01
	DRIVE	03 04
BK MK	THE PERFECTIONISTS	05 06
	BELLOWS COUPLINGS Up to 10,000 Nm	
EK TX	THE SMOOTH OPERATORS	07 08
	ELASTOMER COUPLINGS Up to 25,000 Nm	
SK SL ES	THE PROTECTORS	09 10
	SAFETY COUPLINGS Up to 2,800 Nm	
ZA EZ	THE EXTENDERS	11 12
	LINE SHAFTS Up to 25,000 Nm	
ST BX BZ LP	THE POWERPACK	13 14
	HIGH TORQUE COUPLINGS Up to 348,000 Nm	

DRIVE

WE HAVE THE DRIVE.

DRIVE symbolizes our philosophy and at the same time combines our core competencies. R+W is **D**ynamic, **R**eliable, **I**nnovative, **V**ersatile, and **E**xpanding. As the world market leader for bellows couplings and a technology leader in the field of precision couplings, we are continuing to strengthen our variety and new product development. Our qualified, motivated staff of over 170 people is customer-oriented, efficient, and flexible. Thanks to uncomplicated paths of communication and handling, we can remain close to our customers, our partners and our market. We have subsidiaries in the USA, China, Italy, France, and Slovakia, as well as established distributors in more than 40 countries throughout the world.

In short: We are your resource with DRIVE for all things couplings.

QUALITY IS HAPPENING.

As a competent, flexible, and dynamic manufacturer of precision couplings and line shafts, R+W is a valued partner in industry.

On November 1st, 2011, R+W became a free-standing member of the Poppe + Potthoff Group.

Poppe + Potthoff stands for precision. The group is active and close to customers, with companies and long term partnerships in over 50 countries.

The company develops and manufactures customer specific steel tubing, common rail subsystems, high pressure lines, precision components, couplings and line shafts, as well as special machinery and test stands. This allows Poppe + Potthoff to provide meaningful technical solutions to the automotive and commercial vehicle markets, marine industry, machine tool and automation equipment builders, as well as other industries.

With the addition of R+W, the Poppe + Potthoff Group continues to solidify its strategy of diversification and long term growth.

THE PERFECTIONISTS

BELLOWS COUPLINGS



AREAS OF APPLICATION: BK

For dynamic precision motion in:

- ▶ machine tools
- ▶ test stands
- ▶ packaging machinery
- ▶ printing machinery
- ▶ paper converting machinery
- ▶ labeling machinery
- ▶ textile machinery
- ▶ sorting machinery
- ▶ automation equipment

FEATURES: BK

- ▶ high torsional stiffness
- ▶ low moment of inertia
- ▶ zero backlash
- ▶ highly concentric
- ▶ precise transmission
- ▶ infinite life
- ▶ wear and maintenance free
- ▶ easy to install

AREAS OF APPLICATION: MK

For precise transmission of angular motion and torque in:

- ▶ linear actuators
- ▶ semiconductor equipment
- ▶ medical devices
- ▶ lab automation systems
- ▶ micro pumps
- ▶ test and measurement systems

FEATURES: MK

- ▶ zero backlash
- ▶ torsionally stiff
- ▶ precise transmission
- ▶ infinite life
- ▶ easy to install

All R+W bellows couplings compensate for axial, lateral, and angular shaft misalignment, while transmitting angular motion and torque with a high level of precision.

FROM 0.05 - 10,000 Nm
BORE DIAMETERS FROM 1 - 180 mm

05 | 06



THE SMOOTH OPERATORS

ELASTOMER COUPLINGS



AREAS OF APPLICATION: EK SERVOMAX®

For transmission while absorbing vibration and shock in:

- ▶ packaging machinery
- ▶ pump packages
- ▶ machine tools
- ▶ lift systems
- ▶ conveyors
- ▶ labeling machinery
- ▶ food processing machinery

FEATURES: EK SERVOMAX®

- ▶ vibration damping
- ▶ electrically isolating
- ▶ backlash free
- ▶ calibrated preloaded insert
- ▶ concentrically machined hubs

AREAS OF APPLICATION: TX ECOLIGHT®

For corrosion resistant and low cost connections in:

- ▶ small pumps
- ▶ mixers
- ▶ screw conveyors
- ▶ agitators
- ▶ general purpose outdoor applications
- ▶ rolling gate drives

FEATURES: TX ECOLIGHT®

- ▶ high damping
 - ▶ rolling insert for angular misalignment
 - ▶ corrosion proof
 - ▶ low backlash
 - ▶ precision molded from high strength plastic
-

FROM 0.5 - 25,000 Nm
BORE DIAMETERS FROM 3 - 170 mm

07|08



THE PROTECTORS

SAFETY COUPLINGS



AREAS OF APPLICATION: SK+SL TORQLIGHT®+ES

For overload protection in:

- ▶ machine tools
- ▶ packaging machinery
- ▶ conveyors and feeders
- ▶ metal forming equipment
- ▶ test stands
- ▶ pump packages
- ▶ assembly systems
- ▶ converting equipment
- ▶ wherever rotation and overload occur

FEATURES: SK+ES

- ▶ protects from load inertia, as well as motor torque
- ▶ precise torque overload protection
- ▶ patented preload for zero backlash
- ▶ compact, simple design
- ▶ low moment of inertia
- ▶ extremely fast disengagement
- ▶ low residual friction after disengagement

FEATURES: SL TORQLIGHT®

- ▶ up to 60% lighter weight than the standard version
- ▶ up to 50% higher torque capacity
- ▶ good dynamic characteristics
- ▶ corrosion resistant

All R+W safety couplings are easy to adjust in place, without removal from the machine.

FROM 0.1 - 2,800 Nm
BORE DIAMETERS FROM 3 - 100 mm



THE EXTENDERS

LINE SHAFTS



AREAS OF APPLICATION:

ZA+EZ

For making long distance connections in:

- ▶ material handling systems
- ▶ printing machinery
- ▶ labeling machinery
- ▶ textile machinery
- ▶ packaging machinery
- ▶ converting equipment
- ▶ lift systems
- ▶ theatre automation
- ▶ gantry systems
- ▶ screw jack systems

FEATURES: ZA

- ▶ installation and removal without disturbing adjacent equipment
- ▶ self-supporting up to 6 meters
- ▶ no intermediate support bearing required

FEATURES: EZ

- ▶ vibration damping
 - ▶ easy installation and removal with split clamping hubs
 - ▶ self-supporting up to 4 meters
 - ▶ no intermediate support bearing required
 - ▶ lateral removal of line shaft possible
-

FROM 10 - 25,000 Nm
BORE DIAMETERS FROM 5 - 140 mm



THE POWERPACK

HIGH TORQUE COUPLINGS



AREAS OF APPLICATION: ST

For torque overload protection in:

- ▶ wood processing equipment
- ▶ test stands
- ▶ extruders
- ▶ mining equipment
- ▶ aggregate processing machinery
- ▶ industrial shredders
- ▶ feeders and conveyors
- ▶ tunnel boring machinery
- ▶ large pump packages

FEATURES: ST

- ▶ compact, simple design
- ▶ complete separation at torque overload
- ▶ easy re-engagement without special tools
- ▶ optional automatic re-engagement system
- ▶ modular design for wide range of disengagement torques
- ▶ field adjustable torque settings
- ▶ available in a variety of mounting arrangements

AREAS OF APPLICATION: BX+BZ

For flexible and torsionally stiff connections in:

- ▶ wood processing equipment
- ▶ presses and stamping machinery
- ▶ crushers and shredders
- ▶ test stands
- ▶ conveyor systems
- ▶ steel mill equipment

FEATURES: BX+BZ

- ▶ high torsional stiffness
- ▶ low restoring forces from misalignment
- ▶ low and zero maintenance options
- ▶ low windup from heavy torsional winding
- ▶ available with intermediate spacer for increased misalignment

Information regarding our new disc pack couplings can be found in the included insert.

FROM 350 - 348,000 Nm
BORE DIAMETERS FROM 18 - 290 mm



THE ENDURERS

DISC PACK COUPLINGS



R+W ANTRIEBSELEMENTE GMBH

ALEXANDER-WIEGAND-STRASSE 8
D-63911 KLINGENBERG

PHONE: +49 9372 9864-0
FAX: +49 9372 9864-20
INFO@RW-KUPPLUNGEN.DE

RW-COUPPLINGS.COM

THE COUPLING.

THE ENDURERS

DISC PACK COUPLINGS

LP



AREAS OF APPLICATION:

- ▶ API 610 pump packages
- ▶ steel mill equipment
- ▶ paper processing machinery
- ▶ test stands
- ▶ generators
- ▶ bulk material handling systems
- ▶ centrifuges
- ▶ cooling tower drives
- ▶ compressors

FEATURES:

- ▶ maintenance free with infinite life
- ▶ high speeds with extended DBSE
- ▶ zero backlash
- ▶ high torsional stiffness
- ▶ robust, compact design
- ▶ precise transmission of angular motion and torque
- ▶ fully assembled with machined hubs
- ▶ high operational dependability
- ▶ low restoring forces from misalignment
- ▶ compensation for lateral, axial and angular shaft misalignment

MODELS: LP1, LP2, LP3 AND LPA

DESIGN: LP1

With keyway connection and single flexible element.

DESIGN: LP2

With keyway connection, double flexible element and spacer.

DESIGN: LP3

With self-centering conical clamping ring, double flexible element and spacer.

FEATURES: LPA

With standard keyway connection for API applications:

- ▶ meets all requirements of API 610
- ▶ lateral removal of intermediate spacer
- ▶ safety retention in event of disc rupture
- ▶ optional customization available upon request

R+W disc pack couplings transmit torque over the friction force generated by the assembly screws. This friction fit eliminates backlash and chatter, preventing wear, and helping to ensure an infinite service life with zero maintenance required.

The disc pack couplings are delivered pre-assembled, aiding in a quick and error free installation.



▶▶ **D**YNAMIC

Our staff is trained to always be ready and willing to provide quick reaction times to customer inquiries. Our product, the core of which is based on handling high performance, dynamic applications, is increasingly available for fast delivery.

▶▶ **R**ELIABLE

Many of our products are designed for infinite life with zero maintenance. With thorough engineering processes in place, and an ISO 9001:2008 certified production facility, we continue to deliver high quality coupling products with a high level of reliability.

▶▶ **I**NNOVATIVE

Our business was founded on developing unique and innovative solutions to common coupling problems. Our staff is constantly adapting its workflows to streamline delivery and simplify the process for our customers.

▶▶ **V**ERSATILE

With products successfully applied and deployed into over 125 industry segments, chances are very good that we have an expert on our versatile staff that is familiar with your application requirements.

▶▶ **E**XPANDING

With double digit annual growth the norm, our company is ever expanding, adding new product offerings and opening new service centers throughout the world all the time.



R+W ANTRIEBSELEMENTE GMBH

ALEXANDER-WIEGAND-STRASSE 8
D-63911 KLINGENBERG

PHONE: +49 9372 9864-0
FAX: +49 9372 9864-20
INFO@RW-KUPPLUNGEN.DE

R+W[®]
A POPPE + POTTHOFF COMPANY

Version: 02/2014

QUALITY MANAGEMENT
We are certified



according to ISO 9001:2008

D-ZM-16029-01-01 Registration No. 40503432/3

The information included in this document is based on our present knowledge and experiences and does not exclude the manufacturer's own substantial testing of the products, therefore we do not guarantee protection against third party claims. The sale of our product is in accordance with our general terms and conditions.

RW-COUPPLINGS.COM

THE COUPLING.