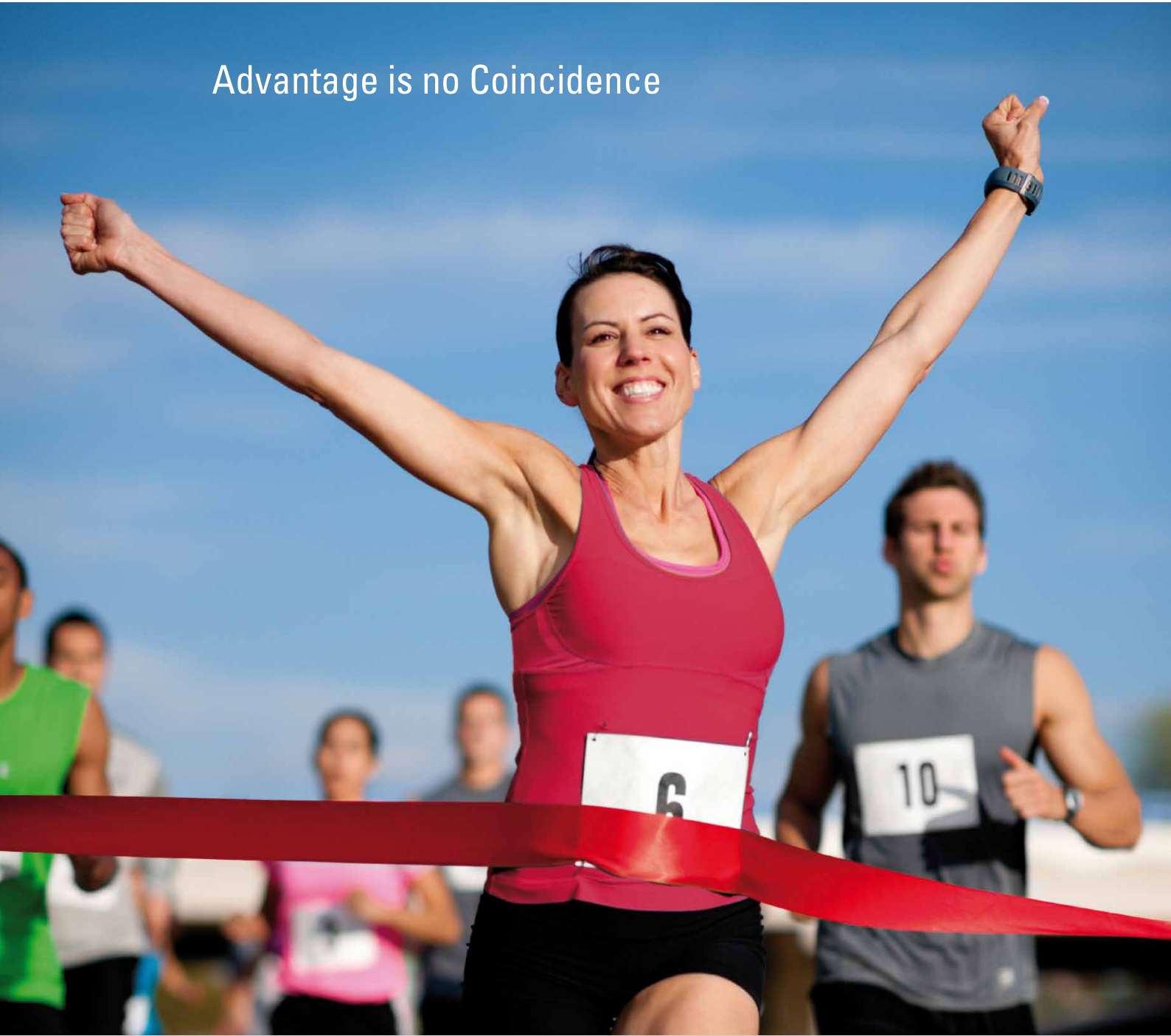


# DRIVE

THE JOURNAL FOR COUPLING TECHNOLOGY

Torque Limiters | Bellows Couplings | Miniature Couplings | Elastomer Couplings | Line Shafts | Linear Couplings

Advantage is no Coincidence



## Setting Trends – in a Determined Way



Frank Kronmüller,  
Vice President

Dear readers,

Whether you actively set them, follow them, or reject them completely, each person deals with trends differently. Your personal attitude will depend on several factors.

In private life, you may decide by yourself, and that is how it should be. However, in business, the future of a company is at stake. Missing certain developments or failing to take advantage of them will sooner or later cause problems.

Of course, certain business models respond to trends more or less successfully and thus go with the flow. Everybody is entitled to make a choice. However, we at R+W would rather adopt a proactive attitude and be in the driver's seat when it comes to trends and developments.

This is especially true for technologies. Over the years we have, again and again, set standards in areas such as lightweight construction and energy efficiency, based on the trends in our client industries.

For both individuals and businesses, it is a question of positioning. We prefer to set trends rather than following them.

A stylized, handwritten signature in black ink, appearing to read 'Frank Kronmüller'.

Frank Kronmüller

### Products & Innovations 03–05

Efficiency Everywhere?

### 02 Editorial & Contents

### News from R+W 07

Still Expanding

Trade Fair Dates

### 06 News from R+W

Showcasing and Experiencing  
Technology Trends

## Efficiency Everywhere?

As R+W's target industries develop, so does the product line. DRIVE looks at past, present and future trends and the appropriate solutions out of Klingenberg.

"Efficiency" is the magic word, which has, for many years, described the megatrend in all industries. And the end is nowhere near. Machines now display green quality seals such as formerly used only for cars or refrigerators.

One central requirement of R+W's product development is increasing

efficiency of the customers' processes via couplings that contribute to safety, productivity and flexibility in manufacturing.

This includes compensating for shaft misalignments with the use of bellows couplings. Tobias Wolf, Head of Engineering at R+W, clarifies: "This innovative product is unique on the market. >>



"As R+W's target industries develop, so does the product line."

A backlash-free, torsionally rigid metal bellows coupling, capable of compensating for a lateral misalignment of one millimeter using a single bellows element! This may considerably reduce the time required for accurately aligning shafts in the future." The coupling thus opens new applications for the user. Since the stainless steel bellows with eight corrugations has the same outer diameter as the standard bellows, the coupling may be retrofitted in existing systems.

The BK5 press-fit connection coupling range is characterized by its outstandingly simple and quick assembly and disassembly. R+W is now offering this well-proven, wear- and maintenance-free press-fit connection for torques up to 1,500 Nm.

In response to changing requirements in recent years, the BX range for 10,000 to 100,000 Nm torques has been completely redesigned. To enable the high torques and operating temperatures the connection of bellows and coupling hubs is homogeneously welded. Since they withstand high temperatures, these couplings are also suitable for use in steel plants, for example.

R+W's development team has also dealt with the important issue of lightweight design by responding with innovative product solutions. The SL2 Torqlight lightweight safety coupling model range allows weight savings of up to 60 % to be achieved. "Innovative materials and surface treatments, as well as design optimization, make this unique development possible," Tobias Wolf emphasizes. Intelligent coupling design reduces the

## R+W Highlights

### 8-corrugation bellows

- Backlash-free, torsionally rigid metal bellows coupling
- Torques from 15 to 1,500 Nm
- Compensation for misalignments of up to 1 mm
- Stainless steel bellows with 8 corrugations
- Easily retrofitted in existing systems



### BX

- High torsional rigidity
- Homogeneous circumferential welded connection (hub bellows)
- Torque range from 10,000 to 100,000 Nm
- Bore diameters of 50 to 280 mm
- Operating temperature up to 300 °C



### SL2 Torqlight

- Torsionally rigid lightweight coupling for high dynamics
- Up to 60 % lighter
- Compact, high performance density
- Torques of 10 to 700 Nm for shaft diameters of up to 60 mm





mass inertia in the entire power train and thus increases the life time of the components.

Innovations and enhancements have also been made in the area of elastomer couplings. The EK 6 "Servomax" model with conical clamping ring is designed for high clamping forces of up to 2,150 Nm. The high dimensional stability of the coupling halves ensures high true running accuracy. Heavy-duty plastic, which has the same strength as the traditional materials aluminum, steel, or cast iron, is used for the TX 1. Lower weight results in improved mass moment of inertia. Mass production of parts offers additional cost effectiveness advantages. These advantages are important components for designers in their search for possible efficiencies.

It is obvious that existing technologies still contain hidden potential. Designers also rely on the innovative spirit of their suppliers. These specialists are the ones, who facilitate advanced efficiency enhancements or at least make a decisive contribution to achieving these. ■

"Increasing efficiency of the customers' processes via couplings that contribute to safety, productivity and flexibility in manufacturing"

#### BK 5

- Press-fit connection
- Torque up to 1,500 Nm
- Easy mounting and dis-mounting
- Highly accurate, backlash-free torque transmission
- Reduced mass inertia provides high operational reliability
- Wear- and maintenance-free

#### EK 6

- "Servomax" elastomer coupling with conical clamping ring
- High clamping forces for torques up to 2,150 Nm
- Very smooth running
- Backlash-free press-fit connection, electrically insulated
- Easy mounting and dis-mounting

#### TX 1

- Torque range from 2 to 810 Nm
- Borehole diameters of 8 to 45 mm
- Operating temperatures from -20 °C to +100 °C
- Elastomer coupling made of high-performance thermoplastic
- Low weight provides good mass moment of inertia



# Showcasing and Experiencing Technology Trends



Hannover Messe 2011

Presence at various trade shows is a basic requirement that enables R+W to stay close to the client industries. Exhibitions offer the company opportunities to showcase innovations, while taking on industry trends that will impact on the future products.

"As we constantly refine our technologies, we keep an eye on the industries of our customers. Trade shows provide us with excellent opportunities to do so," Frank Kronmüller, R+W Vice President, explains the importance of exhibitions for the company, adding: "It is important that we think outside the box and expand our horizons. Some events are of course givens, but we always try something new."

Thus, the company participated in SPS IPC Drives in Nuremberg for the first time in years. The trade show focused on systems and components for electrical automation. Automation providers from all over the world showcased their solutions for a large variety of automation tasks. The company exhibited a full range of components through complete systems, and integrated automation solutions.

R+W is especially interested in trade shows revolving around topics such as automation and controls. This year's program also includes special



Motek 2012

events, such as the Steel Industry Symposium in Dusseldorf.

In addition to the EMO and Motek trade shows, R+W will also be exhibiting at next year's Hannover Messe. One sentence of the organizer's website best explains why: "The success of Hannover Messe 2012 confirms once again that the world's most important technology show is a powerful driver of investment in new technology and automation. Global megatrends such as dwindling resources, sustainability, mobility and urbanization are forcing industry to embrace change and invest for the future. In 2013 our line-up of 11 leading trade fairs will focus on recent developments in each of the featured sectors."\*

\* Source: [www.hannovermesse.de/](http://www.hannovermesse.de/)

# Still Expanding

R+W hires three new apprentices.



Annika Frankenberger,  
Apprentice for Product Designer



Stina Jestrach,  
Apprentice for Industrial Clerk



Manuel Leis,  
Apprentice for Industrial Clerk

**“Continuous investment in the younger generation validates our expansion philosophy.”**

They represent the “E” (Expanding) in the R+W motto DRIVE\* – the three new apprentices express the philosophy of continuous expansion. One woman has started her apprenticeship in the engineering division; two other young people follow a business curriculum within the company.

“For us, DRIVE is not just a combination of letters, but a true guiding motto. These values are part of our everyday life. Continuous investment in the younger generation validates our expansion philosophy and also forms the basis for the other values symbolized by DRIVE. It helps us maintain our

technological leadership in the future as well,” Frank Kronmüller, R+W Vice President, explains.

During their time at R+W, the apprentices will go through different departments and learn the full range of corporate processes. ■

\* DRIVE means: dynamic, reliable, innovative, versatile, expanding

## Trade Fair Dates

### HANNOVER MESSE

8–12 April 2013

Hannover, Germany



### EMO

16–21 September 2013

Hannover, Germany



### MOTEK

7–10 October 2013

Stuttgart, Germany





Thank You  
for Your Cooperation!  
Best Wishes  
for the New Year!



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**R+W**  
COUPLING TECHNOLOGY