

DRIVE

THE JOURNAL FOR COUPLING TECHNOLOGY

WORLD OF
COUPLING

HOT TOPIC:
Hannover Messe 2019



Jörg Stang, Sales Manager

Let's talk!

Dear readers,

2019 is R+W's year of communication. We have so many opportunities to speak with you and to meet interesting people at a variety of events. We have rarely been involved in so many exciting events and trade shows within such a short amount of time, which helps us establish and renew communication with so many contacts. We would like to share some information on these events in this issue and how we will give our customers the opportunity to recharge their batteries at these 'always on the go' times.

It is a year of expansion: we are building a new facility, and thus putting down a visible growth marker. When we move at the end of the year, our Administration and Production teams will be able to escape their current confined spaces and really spread their wings. In this issue we tell you about the ground-breaking ceremony and our plans for the new location in Wörth – which incidentally is just a short hop from our soon to be "old" corporate headquarters in Klingenberg.

Growth is also leaving its mark on our organization. We have made changes to our top management team and appointed two deserving employees as Authorized Officers to the Management Board. This broader base puts us in a good position to face future challenges and makes us excited about meeting our customers' requirements. Despite all these changes, we remain the partner you can rely on. This year you will have plenty of opportunities to meet with us and see for yourselves. We look forward to seeing you!

I wish you an inspiring read.

A handwritten signature in black ink, appearing to read 'Jörg Stang', written on a light-colored background.

Jörg Stang

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Plenty of room for good communication: R+W offers room for recreation.

Just take a break

... in the R+W-LOUNGE!

Things get pretty loud at Hannover Messe: robots and machines hum away in the background, experts give presentations with the aid of amplifiers at a wide range of exhibition booths, lively conversations ring out everywhere. R+W Antriebstechnik's exhibition booth in Hall 25 represented an oasis of calm and

composure in all this hustle and bustle. The booth concept incorporated selected exhibits and plenty of space for conversations. "Take a break and relax at the R+W LOUNGE" was the message the tables sent out and the very attentive bartender mixed delicious drinks for stressed visitors as soon as they entered.



Of course, we Bavarians did not pitch up in Hannover entirely without couplings: there were visual aids to get your hands on and your head round. But Head of Sales Jörg Stang opted for a virtual product tour. "We've brought our entire portfolio with us. Visitors can find out all about our solutions on two large touchscreens, various couplings are featured there together with images, data and exploded-view drawings, as they are on our app. An exhibit on its own can't provide as much information." The focus, however, was very clearly on communication and personal contact. Authorized Officer Frank Kronmüller explained the idea behind the exhibition showcase as follows: "We are already making a clear statement in terms of booth layout – we would like to talk with our visitors and are consciously devoting time and space to personal contact."

Paper-free working

All booth staff are equipped with tablets and any search for paper on this booth will almost be in vain. Apart from a number of brochures and of course the last few issues of DRIVE, our customer magazine, all information is provided in digital form. As at the last few exhibitions, staff have the R+W app on their tablets and the appropriate 3D glasses that provide a whole new kind of couplings experience. "This form of presentation went down so well with our customers that we have retained it," Jörg Stang relates. "Our app is continuously enhanced, even the new SCL servo disc pack coupling has already been incorporated."

It was one of the few components that also on display on the tables. The SCL model range is a zero-backlash disc pack coupling with lightweight aluminum clamping hubs that are designed for lower torques. R+W's latest

The great touch panel will move into the new building.





R+W presented itself spacious, airy and relaxed at the Hannover Messe.



innovation is suitable for dynamic drive tasks involving frequent stopping and starting as well as reversing applications where the focus is on absolute positioning accuracy. Its hubs are made of aluminum, keeping the weight and moment of inertia at a minimum. The disc packs themselves are made of high-strength stainless steel and feature a high level of power density. High strength screw, that transmit torque via a pure friction drive design, are used to fasten the disc pack – absolutely backlash-free. Micro-movements do not occur in the disc pack connection, which delivers a high degree of overall rigidity. The shaft-hub connection is available in a friction-locked configuration with a clamping hub, split clamping hub or conical clamping ring.

Charging points, snacks and a Bavarian lunch

Not only were couplings made available to Hannover Messe visitors, guests were also welcome to use the provide cell phone and tablet charging points. On Wednesday afternoon, R+W had invited people over for a light meal. “We laid on a genuinely Bavarian light lunch. The aim was to make our guests feel at ease and welcome,” Frank Kronmüller emphasized. Invitations to this event were sent out in advance. “Bavarian Lunch – Relax at the R+W Lounge” was the motto and hearty fare of Bavarian veal sausage,

buttered pretzels and beer was served. A touch of Bavarian hospitality in Lower Saxony – and a small contrast to the company’s digital showcase.

“At the exhibition the focus is on people, the technology is an aid or tool,” is the attitude taken by R+W’s customer advisors. Talking of people – the virtual couplings were promoted by a “real” Kai Kupplung at Hannover Messe. The composed, modern-look showcase went over very well with customers and guests. “All this here combines Bavarian panache with technical refinement: the modern booth in elegant black and white featuring in-vogue virtual reality detail, and warm-hearted people, who welcome and indulge their guests. Superb!” was the opinion of one long-standing customer.

Anybody that did not make it to the exhibition can experience the technology at a later date. Both the elegant touch panels will be relocating and will continue to be in service. They will find a permanent home at the end of the year in the foyer and the training room in the new building. And of course, the R+W app is available at any time from the Apple App Store and the Google Play Store.



That's him: Kai Kupplung!



Jörg Stang demonstrates the virtual presentation.



Delicious! Once again a bar-keeper mixed tasty cocktails.

The coupling for the racing circuit



Garage, workshop, meeting area, command center: a race trailer fulfils a wide range of functions and is a haven for drivers and engineers during races. These extendable multifunctional vehicles don't just accommodate a whole load of high-tech, they are intrinsically high-tech. An R+W coupling provides the connection between the two stories.

Race trailers can do much more than just provide a safe and secure transportation service for expensive racing cars. They provide space for several racing cars or motorbikes and usually feature a workshop as well. Many manufacturers also opt to make multifunctional use of the extended cargo and storage space. For example, a meeting area or room can then be added. One manufacturer was looking for a suitable coupling solution for their gallery, which can provide access to the second story when laterally extended. The length of the automated gallery is approximately five meters.

It weighs approximately 1,000 kilograms and should be capable of being extended and retracted as quickly as possible.

Components for the construction of a race trailer are carefully selected in advance. For driveshaft and output shaft torque transmission, as well as shaft misalignment offset purposes, R+W Antriebsselemente proposed a coupling solution that otherwise has basic/standard mechanical engineering applications. A Type EK6 elastomer coupling was selected, based on



A whole team fits into this race trailer.

experience with other applications, such as handling devices, conveyor systems, packaging machinery, and jackscrew units. The connecting hubs are fitted with an integrated conical clamping ring as standard and therefore ensures a very high degree of concentricity and a high clamping force between shaft and hub.

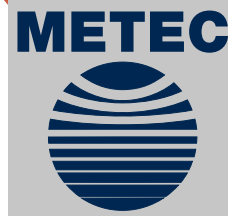
Application-specific design and selection

In addition to cost effectiveness, the application described above also included three other priority criteria that the client specified – operating performance, transmission properties and service life. The main operating performance criteria of an elastomer coupling include concentricity, clamping hub finish and the choice of shore hardness. “Non-round” hubs not only entail poorer concentricity properties, but also result in increased shear forces in the axial direction of the axes of rotation within the application. More major misalignments between connecting shafts in combination with a non-precision manufactured coupling hub have a negative impact on the entire drivetrain. The shear forces generated increase the load on the drive and/or the output bearings and can influence the service lives of the bearings accordingly.

Vibration-damping or torsionally rigid

In terms of drive-output transmission properties, torque and damping transmission, as well as compensation of axial and angular misalignments, continue to remain at the focal point. Couplings offset – lateral, angular and axial shaft misalignments, while keeping shear forces as low as possible. R+W’s portfolio features a range of elastomer inserts at differing grades of hardness to meet application-specific requirements.

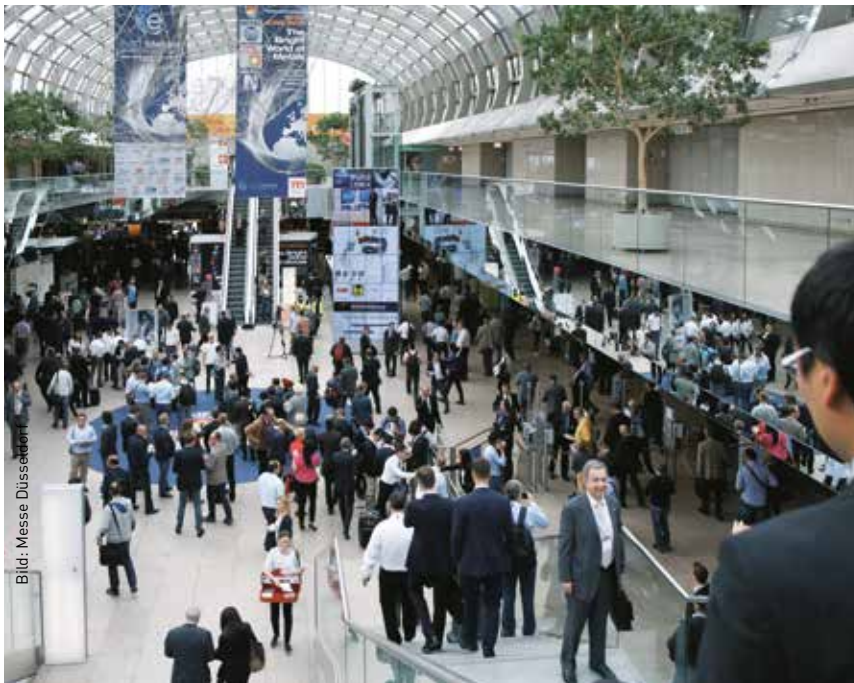
High-precision intermediate tubes, made materials like aluminum, steel, or stainless steel, are cut to length for most applications that specify an exact distance between shaft ends. The length of the tube will be directly matched to the available installation space - this allows for movement of equipment when space constraints change. Use of EZV shafts reduces component diversity, simplifies the assembly process and saves valuable assembly time.



„Bright World of Metals“

Metal specialists meet up in Düsseldorf every four years and we will be there too!

“2019 is a busy trade fair year for R+W”, says authorized officer Frank Kronmüller. One highlight is Metec (June 25 to 29, 2019), the international metallurgy, steel casting and steel production trade fair, which takes place in Düsseldorf every four years. “Here the focus is machinery, plant equipment, products for the steel industry, and environmental and resource conservation of energy efficiency” environmental and resource conservation or energy efficiency.” This show is just one part of the GIFA, METEC, THERMPROCESS and NEWCAST quartet – separate trade fairs that each represent their own industries and markets. It’s when they are combined that they paint a complete picture of the “Bright World of Metals”.



“METEC 2019, which is the tenth edition of the show, is dominated by the major plant manufacturers and is therefore of particular interest to R+W. After all, our couplings are to be found in a wide range of metal processing industry applications, like rolling mills or steelworks”, is the reason Frank Kronmüller gives for exhibiting. Providers of plant equipment for pig iron, steel and non-ferrous metal production, steel casting and modling, and rolling mills and steelwork attend the Duesseldorf show. “Here we meet up with many customers – both existing and future ones.”



The R+W team is looking forward to welcoming visitors in Hall 5 at Booth 5G12. Anybody wanting to arrange an appointment in advance can do so by calling +49 9372-9864-0 or getting in contact via our website (www.rw-kupplungen.de/messen/metec/).

all about automation 2019

Local and communicative

Small but perfectly formed: after attending three shows in the regionally focused 'all about automation' series of trade fairs in 2018, they have now become a firm fixture on our event agenda. This year we have booked to exhibit at all four shows in order to cover every part of the country. In January we were in Hamburg, followed by Lake Constance in March. The next stops are the Ruhr region in June and Leipzig in September.

The focus of these shows is on products and components relevant to industrial automation technology. The aim of these trade fairs is to provide time for dialog and solutions-focused technical discussions – a concept that dovetails perfectly with R+W. Our regional field sales executives, who interact with booth visitors at every show, really welcome good conversations and answer plenty of question. Our show highlight will be the new SCL coupling model for servo drives.



The new SCL line of couplings for servo drives, which are found in a wide range of industrial applications, is set to be our trade fair highlight. You can read about the new product line in detail on pages 5/6 and 13.



Other dates:

all about automation

aaa Essen
June 5 to 6, 2019
Messe Essen
R+W Booth 631

aaa Leipzig
September 11 to 12, 2019
Globana Trade Fair Center

SCL – Servo motor specialist

R + W develops a zero-backlash servo disc pack coupling with lightweight aluminum clamping hubs for servo drives.

The servo disc pack coupling is suitable for dynamic drive tasks involving frequent stopping and starting as well as reversing operations, where the focus is on absolute positioning accuracy. Its hubs are made of aluminum, delivering low weight and low moment of inertia. The disc packs themselves are made of highly elastic spring steel and feature a high degree of power density. High-strength screws, that transmit torque via a frictional connection, are used to fasten the disc packs – absolutely backlash-free. Micro-movements do not occur in the disc pack connection, which delivers a high degree of overall rigidity. The shaft-hub connection is only available in a friction-locked format with a clamping hub, split clamping hub or conical clamping ring.



SCL2 with clamping hub



SCL3 with conical clamping ring



Kai Kupplung

This is how the new servo disc pack couplings work.

Couplings for servo drives are able to offset axial, lateral and angular misalignments. They can withstand aggressive material and



high temperatures and are very easy to handle. More about that from Kai Kupplung in his new video!



More space for production and administration

Here we go: the official groundbreaking ceremony for the new headquarters in Wörth am Main took place on February 12, 2019.

An updated R+W facility is being erected on a 7,000 square meter plot of land in the new "Weidenhecken" business park: some 2,500 square meters of production space plus 1,000 square meters of office space. CEO Steffen Herter is pleased with the new opportunities offered. "The planned building has been perfectly tailored to our needs and its size offers us ideal conditions to grow our business." The intention is to increase capacity substantially within a short period. "Our rapid growth in the last few years has made this move a necessity."

Staff and representatives of the local administration and of course of the parent company turned out on the big day. Steffen Herter together with Caroline Lagemann, a Poppe + Potthoff Group shareholder, welcomed guests and invited everybody to a weisswurst (Bavarian veal sausage) breakfast. The official groundbreaking ceremony was attended by Jens Marco Scherf (Miltenberg district chief executive), Andreas Fath (Mayor of Wörth am Main), Ralf Reichwein (Mayor of Klingenberg am Main), Dr. Andreas Freundt (CEO of Aschaffenburg CIC), Wolfgang Dievernich (dievernicharchitektur), Andreas Leister and Thomas Wind (general contractor Goldbeck), Anja Keilbach (Main Echo), and R+W authorized officers Maximilian Crößmann and Holger Vogt.

Further investment planned

The choice of location was made in close consultation with parent company, Poppe + Potthoff, based in Werther, Westphalia. An investment totaling more than eight million Euros is a clear commitment by the family-run group of companies to the location and to

R+W employees. The mechanical engineering-related industry is booming and R+W wants to grow further as the industry does as well. This means investment in a new office and production space, as well as the expansion of the company's German and international teams. Furthermore, there will be stronger investment in product development.

The move to these new facilities is scheduled for late summer 2019. R+W will then be able to implement its strategic objectives and meet growing demand. R+W will therefore remain one of the leading industrial and precision coupling manufacturers for years to come, and continue to be based in Lower Main, Bavaria.



Thomas Wind, Andreas Fath, Jens Marco Scherf, Andreas Leister, Steffen Herter, Caroline Lagemann, Maximilian Crößmann, Holger Vogt and Wolfgang Dievernich (from left to right)

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R+W Antriebselemente GmbH
Alexander-Wiegand-Straße 8
63911 Klingenberg, Germany
www.rw-kupplungen.de

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 R+W Antriebselemente GmbH

Editor:

R+W Antriebselemente GmbH
Frank Kronmüller / Jörg Stang /
Sina Odenwald
kronmueller@rw-kupplungen.de
stang@rw-kupplungen.de
odenwald@rw-kupplungen.de

Layout and Execution:

C&G: Strategische Kommunikation GmbH
www.wir-verstehen-technik.de