

**FLURO®-Gelenklager GmbH**

# **Record** **temperatures**



**MAXIMUM  
PERFORMANCE**  
WITH HIGH-TEMPERATURE  
SPHERICAL PLAIN BEARINGS  
UP TO 800 °C

# „Ready for the toughest challenges!“

## What is FLURO's particular wealth of experience in the field of industrial vehicles?

**Reiner Höhn:** In the course of past years, we have worked on a variety of different requirements from the various application sectors, and we have covered everything from control connections in engine construction, such as turbochargers and exhaust gas recirculation systems, right up to wheel suspension applications. We have also gained experience with commercial vehicles and the motorsport sector, where we have been active for more than 20 years.

## And the parts that have proven their worth in the commercial vehicle sector, also work in other industrial sectors?

**Reiner Höhn:** For sure. This is true especially for the high-temperature spherical plain bearings in motorsport. They are found in turbochargers and in switching systems. By developing high-temperature spherical plain bearings, we – as a market leader – aspire to open up completely new avenues for users.

## This also means that the requirements will become even tougher?

**Reiner Höhn:** Absolutely. Today, quite literally, our customers' requirements have the spherical plain bearings glowing. The borders of imaginable loads are continuously pushed further. Ultimately, it's this technical challenge that drives us, day after day.

## Can you give us an example of this?

**Reiner Höhn:** Happy to. For instance, there's our high-temperature FLURO® spherical plain bearing with individual connecting rods for commercial vehicles. They're temperature-resistant up to 800 °C and can withstand even strong engine vibrations. This type of spherical plain bearing is almost indestructible - and unique on the market in this form.

### Numerous sector solutions

- + Commercial vehicles
- + Automotive
- + Motorcycles
- + Motorsport
- + Rail vehicles
- + Mobile cranes
- + Transport systems
- + Aviation and shipping



Reiner Höhn is the managing partner for the two companies FLURO®-Gelenklager GmbH and Martin Höhn Präzisionsteile GmbH. Thanks to his many years of experience in managing product development and technical sales, he is the ideal contact for all technical challenges – the tougher, the better.

## What else can your customers expect from the market leader FLURO®?

**Reiner Höhn:** I definitely would like to emphasize our special testing and validation procedures. With these, we ensure the optimal functionality testing of our parts. Included are torque tests, clearance tests, static and dynamic tests, temperature tests, salt spray tests, and vibration tests. Accordingly, our FLURO® products have to withstand the toughest challenges.

## So you yourself are the toughest customer?

**Reiner Höhn:** Well, yes. We set ourselves extremely high standards. At the end of the day, though, being in a position to serve our customers completely from a single source – from the individual problem, right up to the operational solution – is of decisive importance. With us, everything goes hand in hand. Starting with optimally-equipped R&D department, right up to the uncomplicated involvement of all specialists from the relevant corporate divisions. When it comes to solving really challenging requirements, we're simply extremely flexible.

## Can you provide an example of your flexibility?

**Reiner Höhn:** For instance, with the help of 3D printers, we can carry out pre-project planning, in addition to conducting building space, design and feasibility analyses. Furthermore, our 3D models often serve as visual aids for project-related customer appointments. What is more, thanks to our internal fixture construction for prototype production, we are extremely flexible – we can produce both small quantities and large series.

## Time for a closing statement.

**Reiner Höhn:** When it comes to spherical plain bearings and rod ends, we are the ideal partner when things really get hot. Our customers can also take this quite literally.



# Top quality in full bandwidth

We at **FLURO®** offer you an outstanding bandwidth of standard parts for spherical plain bearings and rod ends. And we have the expertise to manufacture even the most unusual dimensions in accordance with your customer requirements.



**Commercial vehicles**

In the commercial vehicle sector, our products are used in engine constructions, in wheel suspensions, vehicle superstructures and door locking systems, e.g., in buses.



**Vehicles**

In the field of automotive engineering, we supply spherical plain bearings, rod ends and a variety of connecting elements.



**Rod ends**

Our spherical plain bearings and rod ends can be used wherever there is something to be connected, held or moved: from the tuba, right up to an excavator. With our product portfolio we serve all industry sectors.

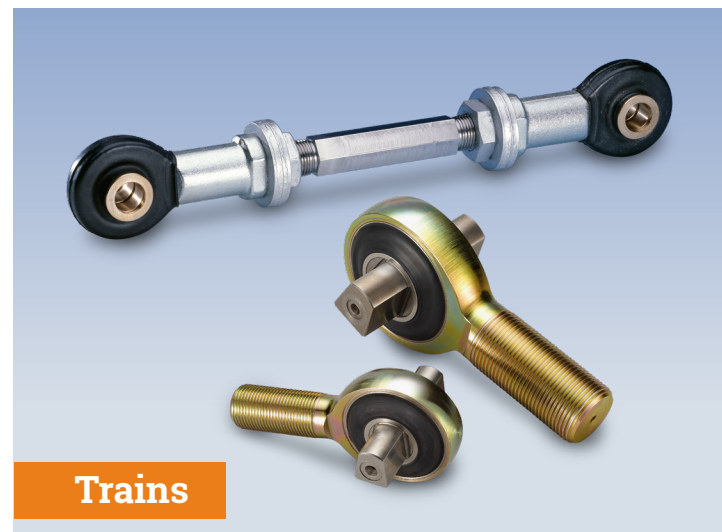


**Spherical bearings**



**Motorcycles**

In motorcycles, our sealed rod ends are used primarily in the shift linkage sector.



**Trains**

In the train sector, our products are used mainly in braking systems, suspension systems, door locking systems, and current collectors.



**Motorsport**

In the field of motor sports, we supply spherical plain bearings and rod ends, as well as individual connecting elements that are used mainly in wheel suspensions, stabiliser systems and turbochargers.



**Accessories**

In the accessories field, we supply angle and fork joints, seals, nuts and plenty more.



# Extremely articulated and really savvy

We have been the specialist in spherical plain bearings and rod ends for more than 40 years. With our around 180 employees, we develop and manufacture an extraordinary range of products at our headquarters in Rosenfeld, Swabia. High-precision, extraordinarily flexible and extremely fast. And we are always ready to develop innovative special parts for our customers. Ultimately, even with regard to the hardest problems we always work according to the motto: From the idea right up to implementation – all from a single source.

**Welcome to Rosenfeld!**

## From the idea, right up to implementation – all from a single source

### Development

- + Partner for complex, precise customised solutions
- + Development of special joints in accordance with your requirements

### Tool construction

- + In-house for prototype, small quantity and series tools

### Manufacturing

- + Bar turning up to Ø 80 mm
- + Processing in the chuck up to Ø 400 mm
- + Milling of 4- and 5-axial components

### Assembly

- + Assembly of rod ends, spherical plain bearings and components

### Testing laboratory

- + Vibration tests with temperature testing
- + Torque tests
- + Static and dynamic tests

### Quality assurance

- + State-of-the-art measurement technology (Zeiss Calypso, and plenty more)
- + Certified in accordance with DIN EN ISO9001:2015



Stefan Ott, Head of Construction

**"Our high quality aspiration has plenty to do with our extensive experience in the field of testing methods. For our test procedures, we only use test systems which, thanks to their dynamic test structure, allow the measured values to be recorded and stored automatically. Thanks to a wide variety of test methods, we are able to align products to our customer's individual requirements. And here, the following always applies: No challenge is too big for us. Put us to the test!"**



# Welcome to the solutions area



**Motorsport**



**Motorcycles**



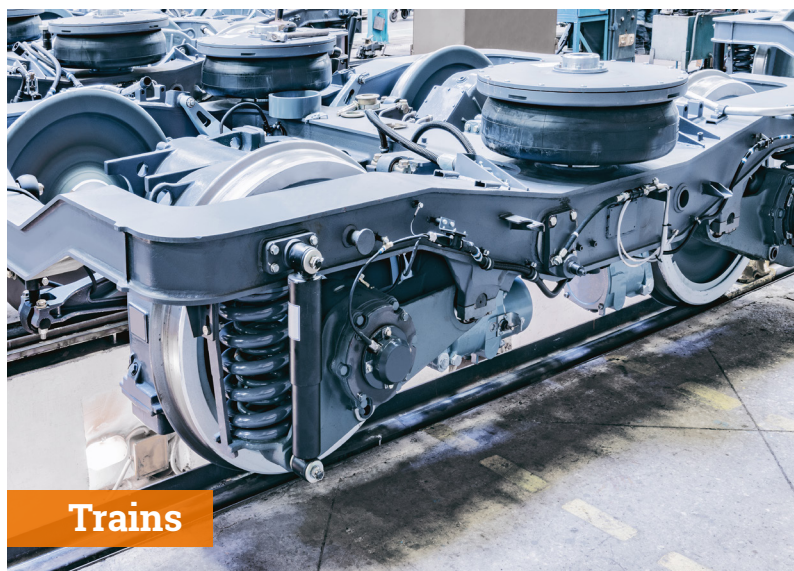
**Commercial vehicles**



**Automobile**



**Bus**



**Trains**