CUSTOM THRUST BEARING SOLUTIONS FOR VARIOUS INDUSTRIES

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CUSTOM THRUST BEARINGS ACCORDING TO YOUR REQUIREMENTS

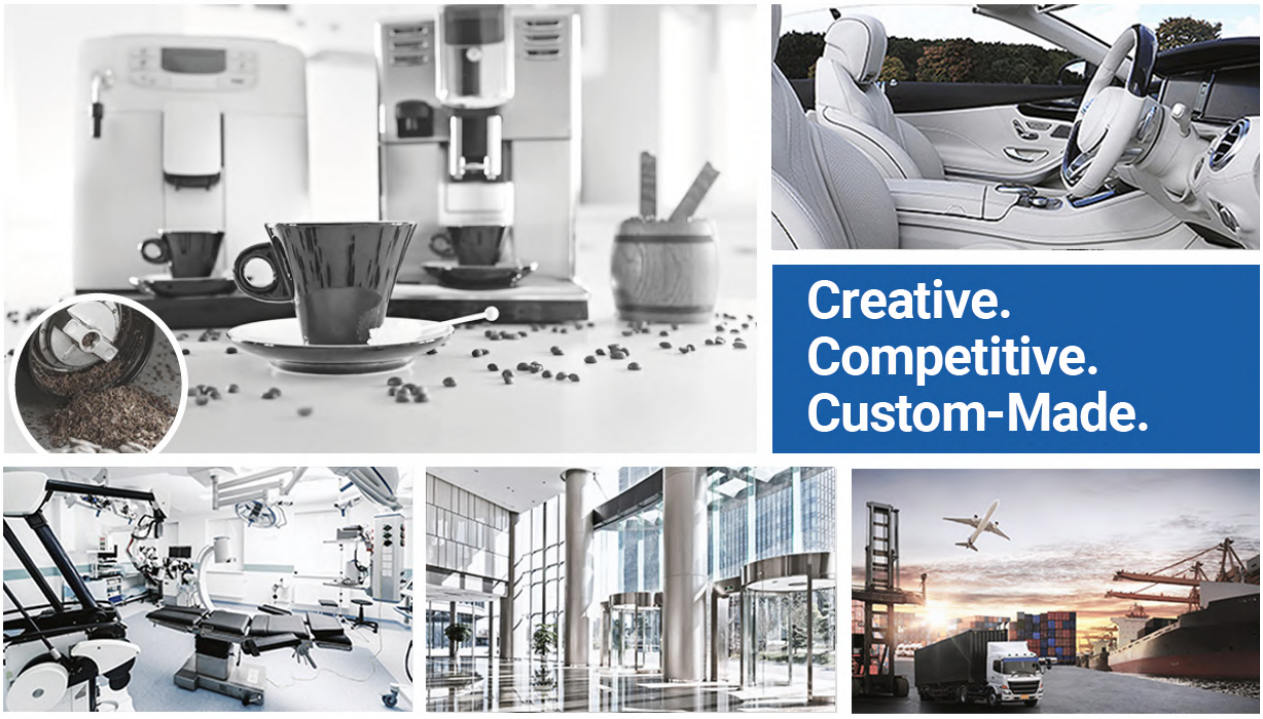
A WIDE RANGE OF THRUST BEARINGS

The design and material of our customized thrust bearings are based on your needs, your application and its specifications. Thrust bearings are a reliable and cost-effective solution to increase the longevity of the application in which they are used.

They are also flexible and versatile.
The components of your bearings can be made of plastic, brass, 100Cr6, or Inox, for example.
They can be already greased for life - or come in a loose set of a ball cage with grooved / flat discs.

If you‘re not sure what you need exactly, we will be happy to advise you.
Take advantage of our decades of experience in the manufacturing of high-quality thrust bearings!

IDEAL THRUST BEARING SOLUTIONS
FOR VARIOUS INDUSTRIES



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APPLICATION EXAMPLES

AUTOMOTIVE: Torque optimized thrust bearings for exhaust gas recirculation systems, bearing solutions for the adjustment of seats, steering columns and rear-view mirrors

CONSUMER GOODS: Thrust bearing solutions for grinders, actuator and gear components for fully automatic coffee machines, and other electrical appliances

MEDICAL SECTOR: Sterilizable axial solutions for mechanical support systems and rotary applications for analysis devices/tables

BUILDING ENGINEERING: Thrust bearing solutions for pivoting systems and sliding technology for doors/windows/elements. Components for mechatronic systems like drives for air conditioning & more

VARIOUS INDUSTRIES: Transmission elements for aviation, electric seat adjustment in the premium class, products for high pressure cleaning, bearing solutions for power tools

THE OPTIMAL THRUST BEARING TYPE FOR EVERY NEED

All our bearings are single direction bearings for axial loads in one direction. Depending on your requirements, the components of the different thrust bearing types can, for example, be made of brass, plastic, 100Cr6, or Inox. All bearings are based on DIN ISO 76 and DIN ISO 281.

Classic Thrust Bearings

- Loose set of 2 grooved washers / flat discs and a ball cage with balls
- Bearing and housing washers in two different sizes and different materials possible
- The customer is responsible for the final assembly and lubrication but we can help you select the optimal lubricant
- Our engineering service can also assist you with life-cycle testing & validations

Compact Thrust Bearings

- The compact bearing is a closed assembly
- Order only one item, store it, and install it in one simple movement
- Manufactured, assembled & lifetime lubricated by us
- Maintenance-free thrust bearing, that fits perfectly into tight spaces thanks to its compact design
- We happily advise you on the selection of the optimum lubricant for your application

Needle Thrust Bearings

- Our needle thrust bearings can support high axial loads in one direction
- For your custom design you can choose between the classic or compact option
- Needle rollers or cylindrical rollers are possible - as well as different sizes and materials for the bearing washers and rollers
- Together, we work out the optimal lubrication for your application

Bearing Components

- Ball cages
- Ribbon and snap cages
- Needle thrust bearings
- Shaft and housing washers
- All available in different materials

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A BIT OF TECHNICAL INFORMATION

Whether you need heavy-duty, particularly compact, or sterilizable thrust bearing solutions - we calculate, develop and produce the optimal solution for you. All bearings are based on DIN ISO 76 and DIN ISO 281.

From 1‘000 parts to more than 100 million parts per year - you can count on us.

The following table is a brief overview of our product range, but it’s not limited to these values.

Outer diameter Ø	max. 60mm
Ball size Ø	max. 5mm
Washer thickness	max. 3mm
Cage materials	From PA66 plastic to stainless steel
Ball materials	From 1.3505 Standard to stainless steel
Quality class	From G5 to G20 depending on the application

Rotation speed limits and load capacities depend on the bearing‘s dimensions. The lubricant is also application specific.

MAXIMUM FLEXIBILITY - FROM THE EARLY STAGES TO SERIES PRODUCTION

By involving our engineers in your project at an early stage you can save time and money.

Benefit from our extensive experience in product design, process engineering, and materials - for the long-term function of your thrust bearing.

- Prototypes can be produced as simple functional samples using conventional methods or 3D printing. For near-series samples, we use the series manufacturing process
- You can rely on our modern machinery and variable assembly systems for the right flexibility of your needle and ball bearings production
- Our experienced in-house toolmakers and process engineers can quickly implement any changes that arise during the prototype phase and series production

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NO SUPPLIER STRESS - GET EVERYTHING FROM ONE SOURCE

We accompany you through every phase of your project in order to develop the ideal, competitive thrust bearing solution with you. From our engineering service via toolmaking to series production, you are well taken care of.

And thanks to our in-house stamping and plastic injection molding departments, we maintain perfect control over the entire washer, ball cage, and assembly production process.

MAIN ADVANTAGES OF METAL STAMPING

SPEED

ACCURACY

COST-EFFECTIVENESS

- **Speed:** Lean production processes significantly reduce the production time of our grooved washers
- **Accuracy:** Our in-house tooling technology stamps precise, complex shapes while maintaining consistent quality and tight tolerances
- **Cost-effectiveness:** Automated production requires little manual labor

IN-HOUSE PLASTIC INJECTION MOLDING AROUND THE CLOCK

We mostly use engineering plastic for our rolling-element cages. These plastics perform better than standard materials and offer a wide variety.

Injection molding with engineering plastics also produces less waste, making it a cost-effective solution for quality thrust bearings and other plastic products.

LEAN PRODUCTION PROCESSES FOR OPTIMAL COMPONENT ASSEMBLIES

For our thrust bearing production and subassemblies, several smart and fully automated machines with various inspection stations are available. This ensures that you always receive flawless parts. With the compact bearing option, the ideal grease for your application gets injected efficiently.

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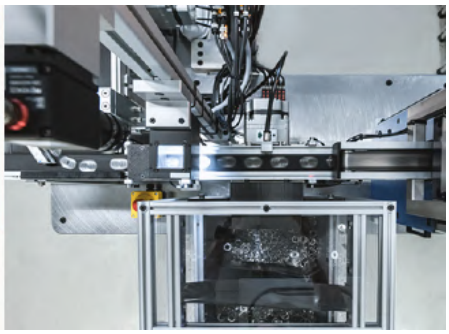
RELIABLE QUALITY
FOR IMPECCABLE PRODUCTS

You get the flawless thrust bearings you need for your application.
All our products are manufactured according to customer specifications and guidelines.

Swiss Quality: We are ISO 9001, 14001 and IATF 16949 certified, and we supply demanding industries such as aviation and the medical sector.

And because we live and breathe continuous improvement, we have built a tailor-made, high-speed test station inhouse that inspects and sorts these grooved washers.
Small surface defects in bearing washers can lead to higher wear and more noise, so they must be sorted out.



For our customers, this means that we can guarantee an even more reliable, high quality. And that's what drives us every day.

LET'S DEVELOP THE PRODUCT YOU NEED

Do you have a challenging project you need a customized thrust bearing solution for? We are happy to support you.

Contact us to talk about your project!

Your direct contact

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