- Steel ball bearings
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- Steel balls

SKT

Schwarzwälder
Kugel- & Rollentechnik

Steel ball bearings

Bearings made of pure steel are generally used as support rollers and are characterized by a high load capacity in conjunction with a long lifetime, minimal wear, as well as a low starting and rolling resistance. Steel ball bearings with a double row increase the existing high load capacity even more.

Plastic-sheathed ball bearings

Ball bearings with a plastic sheath are best suited for comfortable rolling and smooth running. This protects the running rail or other system components. There are many different materials to choose from, such as POM, PET, PA or TPE. All these submit distinctive properties in order to specifically address the respective customer requirements. As well, an optimally coordinated geometry of the contact surfaces significantly influences the lifetime and the abrasive wear of the roller and prevents flattenings of the plastic.

Slide bearings

Slide bearings with extruded bolts and injected rollers are ideal for large quantities. In this case, they are not only utilized as guide rollers but also find application as simple support rollers. The sophisticated running comfort and long lifetime are based on a specifically developed bolt texture, which makes the plastic rollers operate optimally in combination with special lubricants. This lets a large number of our customers rely on the "low-cost version" of SKT.

Soft rollers

Due to the increasing market demand for low-noise products, the so-called soft roller was developed, an equivalent of a two-component roller. Our model reduces rolling noise to a minimum. Different models can be sheathed either laterally, centrally or completely. The hard core ensures optimum sliding properties on the bolt. Three specially tested materials of different hardness levels are currently available for sheathing.

Depending on the design, our soft rollers are used as load-bearing or as guide rollers.

Assemblies & Carriages

Assemblies or carriages can be completed with soft rollers, ball and slide bearings. There is a wide variety of options available for the base frame, such as stamped parts, zinc die-cast parts, milled variants or plastic parts.

In our final assembly, qualified specialist personnel will mount tailorized carriage models according to customer specifications, check them, and, if required, pack them into agreed batch sizes.

Bearings for wet areas

Products with high corrosion resistance are required not only for use in spa & wellness areas, but also for all other areas influenced by moisture. Plastics, brass, or stainless steel can be combined at optionally for these areas of application. Depending on the requirements, the products can be designed as cost-optimized slide bearings or as ball bearings.

Plastic turned parts

Owing to our extensive production facilities, we can offer customized plastic turned parts made of various materials.

These are exploited by our customers as slide bearings, roller wheels, or as a plastic sheath for own ball bearings. When it comes to turning technology, we benefit from decades of experience in the production of roller wheels and sheaths for ball bearings.

Steel balls

Highest precision in consistent quality as well as short delivery times are our strengths, even if balls are required in a variety of dimensions. Our standard range includes ball sizes from Ø 0.500 mm to Ø 15.000mm in increments of up to 0.5µ. In order to be able to compensate for the finest tolerances, we are able to offer balls up to grade G05.

We mainly produce steel balls made of chrome steel 1.3505 - AISI 52100 and stainless steels 1.3541/1.4034 - AISI 420B as well as 1.4125 - AISI 440C. Other types of steel are also possible on request.

If balls are not in stock, we are usually able to deliver within approx. 3 weeks.

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