



SPECIAL BALL BEARINGS

With its production system capable of high-mix and low-volume, SMT can manufacture high-precision special ball bearings of various shapes, materials, lubricants, etc. as an expert of specialty bearings, meeting the wide variety of the needs.

Correspondence to Customer requirements

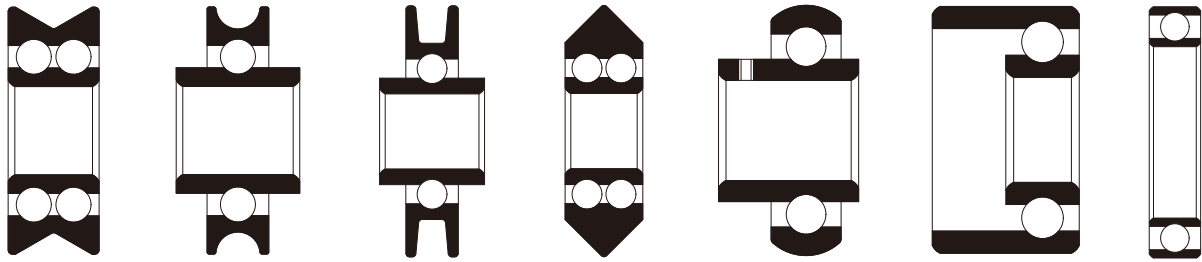
Customer requirements	SMT solutions
Use in high temperature	<ul style="list-style-type: none"> ① Heat-stabilized inner and outer rings with heat resistant grease ② Heat-stabilized inner and outer rings with solid lubricant
Use in acid or alkaline environments (even AISI304 not usable)	<ul style="list-style-type: none"> ① Inner and outer rings of AISI316L with ceramics balls ② Inner and outer rings of nickel alloy or titanium with ceramics balls
Use in food processing machines and equipment in compliance with HACCP	<ul style="list-style-type: none"> ① Stainless steel bearing with food grade grease
Bearing integrated with the surrounding parts for downsizing or higher precision grade	<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <p>Present Two bearings with U-grooved housing</p> </div> <div style="text-align: center;"> <p>Improved Double row angular contact bearing integrated with the housing Downsized and space-saving</p> </div> </div>

SPECIAL DESIGNS

Bearings with special designs like V- or U-grooved outer diameter, wide or thin-walled type, etc. are available.

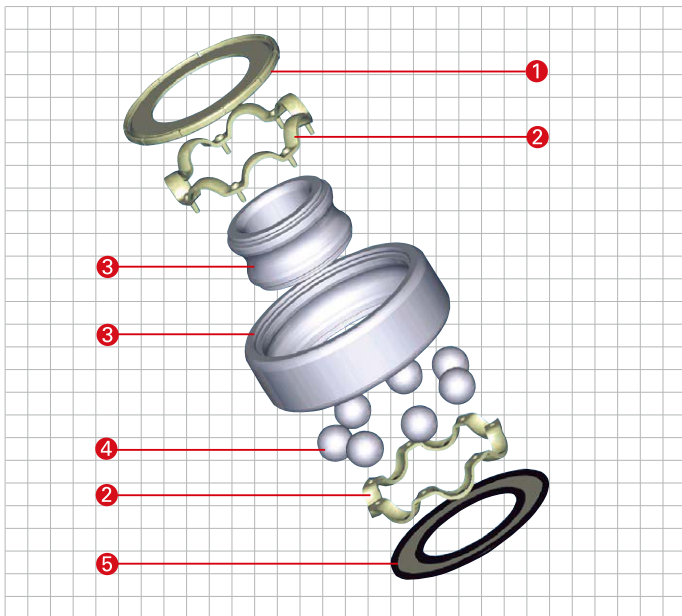
Bearings integrated with the surrounding parts are also available.

Outer diameter: 12mm–280mm Inner diameter: 4mm–250mm width: 4mm–75mm



SPECIAL MATERIALS

Various materials are available not only for inner and outer rings but also for the other components and parts. SMT can find a perfect solution in the best combination of various materials for each application.



- ① Shield SECC, AISI 304
- ② Retainer SPCC, S55C, AISI 304, Fluorine resin coated, Nylon 66
- ③ Inner and Outer Rings
SAE 52100 (heat-stabilization available)
AISI 440C (heat-stabilization available)
AISI 304, AISI 316L, AISI 630, Titanium, Nickel alloy
- ④ Ball SAE 52100, AISI 440C, AISI 304, Ceramic
- ⑤ Seal Nitrile rubber, Acrylic rubber, Fluorine rubber, Fluorine resin



SPECIAL GREASE

Selection of lubricants is one of the important factors for the performance of bearings.

A variety of lubricants are available for various applications.

Lubricant

Heat resistant grease, Chemical resistant grease,
Food grade grease, Clean room grease, Solid lubricant,
Other special environment grease.

SMT

Nankai Seiko Co., Ltd.

3-6-1, Techno Stage, Izumi, Osaka 594-1144, Japan.
TEL 0725-53-5563 FAX 0725-53-5576
URL <http://www.smtbearing.com>