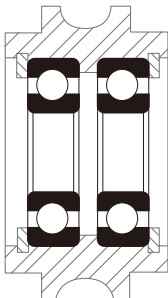





# SPECIAL BALL BEARINGS

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

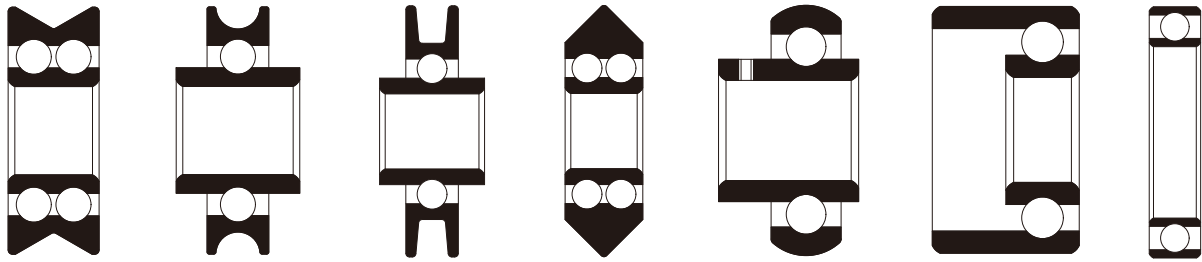
Customer requirements	SMT solutions
Use in high temperature	<ul style="list-style-type: none"> <li>① Heat-stabilized inner and outer rings with heat resistant grease</li> <li>② Heat-stabilized inner and outer rings with solid lubricant</li> </ul>
Use in acid or alkaline environments (even AISI304 not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

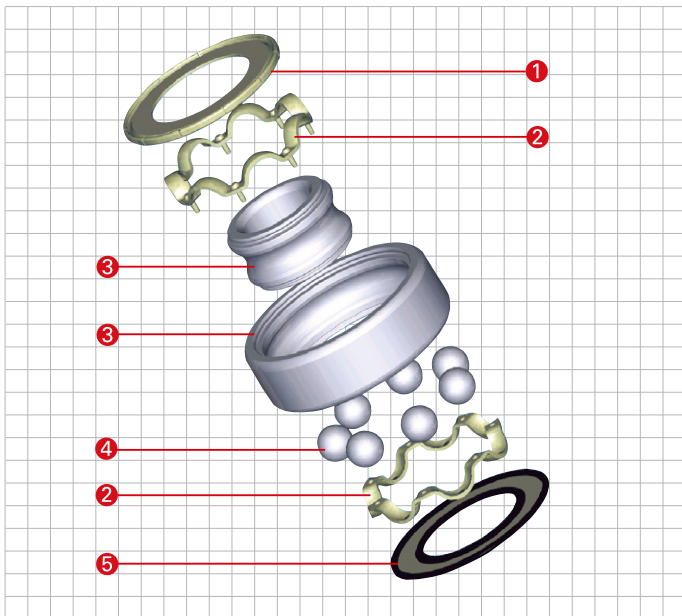
Bearings integrated with the surrounding parts are also available.

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

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