



FAG Deep Groove Ball Bearings

Product solutions for the food industry

Bearings used in the food and drinks industry and other sectors are periodically subjected to a wide range of corrosive media and chemicals.

Above and beyond this, the food processing and production sectors in particular are also subject to specific lubricating grease requirements and authorizations. The materials used in Schaeffler's "Food Program" are suitable for applications in which those materials can come into occasional contact with foodstuffs.

The advantages for you at a glance:

- Bearings made from corrosion-resistant steel
- High-quality grease with foodstuff approval according to category NSF H1 – including halal and kosher certification
- RSR single-lip seal with contact on both sides
- For operating temperatures from -30°C to 100°C

SCHAEFFLER

FOOD Program (FD)

FAG deep groove ball bearings for the food industry

Challenge and requirements for the bearings:

- Increasingly stringent health and safety requirements in the food processing industry mean that clean, safe facilities are needed
- The objective is to minimize downtimes and maintenance outlay
- In facilities in which contact with the product being processed can occur or in which contamination is to be expected, materials of sufficient resistance are required
- Frequent cleaning operations with hot steam, steam jets, or aggressive alkaline media place a strain on the steel, cage materials, sealing shields/sealing washers, and lubricants. This strain can have a negative impact on the running behavior and operating life of the rolling bearings

Our solution:

- Bearing rings, cages, and rolling elements made from stainless steel
- RSR single-lip contact seals with proven geometry on both sides
- The grease has NSF category H1 authorization, fulfills the quality requirements of FDA21 CFR 178.3570, and is both halal and kosher
- Deep groove ball bearings are available subject to request as hybrid bearings with ceramic rolling elements made from Si₃N₄
- As an alternative, they are also available with the high-performance CRONIDUR and CRONITECT materials and/or with LUBTECT dry lubricant with H1 approval

The advantages for you:

- Resistance to moisture, contaminated water, salt spray, and weak alkaline or weak acidic cleaning agents
- The materials used are resistant to a wide range of cleaning agents. These include hydrochloric acid, hydrofluoric and sulfuric acid, and H₂O₂. An overview of the tested concentrations can be found in TPI 261
- RSR single-lip contact seals on both sides
 - Provide effective protection for the bearing interior against external influences, during cleaning operations, and against media that are being processed
 - Keep the lubricant inside the bearing at all times

In practice, this means extended production times and reduced failure probability for the bearing positions. The reduced downtimes increase your productivity and reduce the machine's costs.

Type code, e. g.: S6208-2RSR-FD

Bearings that are part of Schaeffler's Food Program bear the FD suffix. This allows you to identify immediately that a bearing is made from corrosion-resistant material and is filled with H1-category lubricant.



FAG's FD deep groove ball bearings with stainless steel components



RSR single-lip seal



Applications include transport systems and filling lines



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Product inquiry

S6000-2RSR-FD	S6002-2RSR-FD	S6004-2RSR-FD	S6006-2RSR-FD	S6008-2RSR-FD*
S6200-2RSR-FD	S6202-2RSR-FD	S6204-2RSR-FD	S6206-2RSR-FD	S6208-2RSR-FD*
S6300-2RSR-FD	S6302-2RSR-FD	S6304-2RSR-FD	S6306-2RSR-FD	S6009-2RSR-FD*
S6001-2RSR-FD	S6003-2RSR-FD	S6005-2RSR-FD	S6007-2RSR-FD*	S6209-2RSR-FD*
S6201-2RSR-FD	S6203-2RSR-FD	S6205-2RSR-FD	S6207-2RSR-FD*	S6010-2RSR-FD*
S6301-2RSR-FD	S6303-2RSR-FD	S6305-2RSR-FD	S6307-2RSR-FD	S6210-2RSR-FD**

* Samples available at short notice, ** Samples available from Q1/2021 onwards