SNR bearings: an essential ingredient in the agri-food process.
Few sectors have experienced such a profound transformation as the agri-food industry: new ingredients, new modes of consumption and new preservation processes have appeared at an increasingly rapid rate in recent years. In this fast-changing market, the industrial facilities must maintain high performance and reliability to guarantee sustained productivity.

For the machinery, food processing sometimes has a bitter taste...

Regardless of the quality of the ingredients used in food processing, they are often “indigestible” for the mechanical components, and particularly for bearings. In this environment, all the physical stresses are combined: sticky and powdery materials, health requirements, constraints of very frequent cleaning, temperature changes, humidity.

Bearings must therefore have specific properties, such as resistance to corrosion and contamination, or suitability for cleaning and disinfection.

Four golden rules must be applied for the maintenance of equipment in contact with foodstuffs:

- constant and ongoing optimization of its operation at high and low temperatures,
- maintenance of the integrity of the surface of the installations,
- cleanliness of parts,
- anti-bacteria effect.

The indispensable standards (USDA H1) concerning health and food safety, subject to strict regulations, are key considerations for SNR.

SNR at the core of the agri-food sector

SNR has extensive experience in all the agri-food sectors. From industrial packaging of fish to meat cutting. From fluids production to the bakery industry. Although all these sectors have common requirements, each trade also has its specific features, necessitating a particular response in terms of bearings. Confronted with a multitude of practical cases, our engineers have developed a wide variety of solutions, forming a very complete product range. This enables SNR to provide tailored answers for each agri-food application.
An SNR solution at each manufacturing step

SNR standard bearings and automatic lubricator

SNR has a full range of standard ball, roller and needle bearings. Any type of machine incorporating a standard open bearing and a lubrication system can be fitted with an automatic lubricator. Our SNR AL1 food-grade grease conforms to the USDA H1 standard, which stipulates what are at present the most severe requirements with regard to health and the purity of the raw materials of the grease.

The SNR automatic lubricator gives you:
• Constant, uniform lubrication.
• Reduced maintenance work in hazardous places and reduced maintenance costs.
• Visual indication of proper grease flow.
• Great versatility of use.

SNR bearings with solid lubrication: Lubsolid LSA

• Porous polymer matrix capable of containing 3 to 4 times more oil than with grease alone (longer life).
• Concept eliminates downtime and need to regrease.
• Environmentally-friendly food contact grade grease.
• Operating temperatures: -5 F or -60 F to +175 F or +210 F.
• Concept applicable to all types of sealed, shielded or open bearings (ball, spherical, tapered).

SNR two-part cast iron bearing units

• Easier installation.
• Perfect sealing (felt seal, V-ring seal, nitrile or fluorocarbon double lip seal).
• Operating temperatures: -20 F to +230 F.

SNR thermoplastic self-aligning bearing units

• Exceptional resistance to corrosion and chemicals: stainless steel rings and bearings.
• Has a smooth surface which avoids any retention of dust, mold or bacteria.
• Stainless steel bolt hole reinforcements and grease fitting.
• Problem-free operation in the event of temperature variations (-5 F to +230 F).
• A food-grade grease for unintended contact with foodstuffs.
• Excellent mechanical, thermal and chemical properties.
• Perfect sealing: rubber seals, shields, protective end covers.

SNR stainless steel self-aligning bearing units

• Stainless steel housing and bearing.
• Stainless steel attaching bolts and grease fitting.
• Operating temperatures: -5 F to +250 F.
• Closed protective covers for shaft ends.
• Open protective covers for continuous shafts with silicone rubber double lip seal.

SNR cast iron and pressed steel self-aligning bearing units

• SNR bearings (sealed and delivered pre-lubricated) with eccentric lock collar or set screws.
• Greater clearance J 30 (C3).
• Operating temperatures: standard (-20 F to +230 F), special (-40 F to +480 F).
• Wide choice of sealing levels:
  - Effective sealing: nitrile double lip seal, reinforced sealing: lip seal and shields.
  - Maximum sealing: triple lip seal (protection against external contamination and water splashes).
• Can be fitted with protective covers.
• Conform to ISO standards.
• High-performance lubrication (food-grade grease).

FOR YOUR CONVEYOR MACHINERY
> contact with foodstuffs and presence of water

SNR thermoplastic self-aligning bearing units

• Exceptional resistance to corrosion and chemicals: stainless steel rings and bearings.
• Has a smooth surface which avoids any retention of dust, mold or bacteria.
• Stainless steel bolt hole reinforcements and grease fitting.
• Problem-free operation in the event of temperature variations (-5 F to +230 F).
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What the agri-food industry expects from bearings....: the SNR answer

These are the properties required of bearings in the main agri-food areas.

- **Withstand high temperatures:**
  - Ovens in bakeries, chocolate-making, blanching of fruit and vegetables, etc.

- **Withstand low temperatures:**
  - Cold rooms, deep-frozen products, ice creams, fishmonger, etc.

- **Be compatible with wet areas and water splashing:**
  - Many food-processing applications, and more particularly the fluids sector, fruit and vegetables, etc.

- **Absorb any vibrations:**
  - Crushing of cereals, sorting of fruit and vegetables, etc.

- **Correct installation misalignments:**
  - Conveying machinery transfers between the different work stations, etc.

- **Guarantee optimum hygiene quality and safety:**
  - All applications, with particular attention to products intended for preservation.

In general, it is therefore important to avoid the accumulation of moisture and areas of stagnation, and to favor access of all parts of the installation to cleaning solutions.

**FOR YOUR GENERIC INSTALLATIONS**

**SNR** ball bearings (high and low temperature):

**TOPLINE range**

This range meets very precise operating requirements with suitable products.

The criteria considered for selecting the appropriate series are temperature, speed and safety requirements.

**TOPLINE** incorporates the latest innovations:

- Heat treatment suitable for extreme conditions (hot and cold).
- Lubrication with the grease chosen according to the requirements of the applications.
- Sealing with “high and low temperature seals and shields”.
- Operating temperatures: -75 F to +400 F.
- Performance at high speed and/or low torque.
- Optimized internal geometry, with reduced tolerances and greater precision for the HV series.

**TOPLINE range:**

- **FT 150 and FT 150 ZZ:** High temperature: 300 F peak.
  - High speed up to 500,000 n.dm.
- **HT200 and HT200 ZZ:** High temperature: 400 F peak.
  - Medium speed up to 150,000 n.dm.
- **LT and LT ZZ:** Low temperature down to –75 F.
- **HV ZZ:** High speed up to 700,000 n.dm.

**FOR YOUR SORTING TABLES AND SHAKER APPLICATIONS**

**SNR** spherical roller bearings: Series EF 800

- Designed for particularly demanding applications.
- One-piece solid brass cage: optimum rigidity and vibration resistance.
- Cage centered on the rolling elements: no blockage in the event of thermal variations.
- Optimized fitting: reduced tolerances.
- Special radial clearance: J 40 (C4).
  - Also available in J 30 (C3).
- Recommended fits:
  - Interference fit with the housing, class P6.
  - Sliding fit on the shaft, class gh.

**FOR YOUR GENERIC INSTALLATIONS**

**SNR** steel-cage spherical roller bearings (EA):

**Series 22000, 23000, 24000, etc.**

- Suitable for standard applications (higher limiting speed).
  - J 30 (C3) radial clearance.
- Inner and outer rings heat stabilized for operation up to 400 F.
- Wrap-around cage: perfect roller guidance to avoid overheating.
- Greater volume between the two rows of rollers:
  - Increases lubricant reserves.
  - Facilitates lubricant flow inside the bearing.
  - Optimizes bearing life.
  - Increases load capacity.

**FOR YOUR GRINDING AND CRUSHING MACHINERY**

**SNR** steel-cage spherical roller bearings (EA):

**Series 22000, 23000, 24000, etc.**

- Suitable for standard applications (higher limiting speed).
  - J 30 (C3) radial clearance.
- Inner and outer rings heat stabilized for operation up to 400 F.
- Wrap-around cage: perfect roller guidance to avoid overheating.
- Greater volume between the two rows of rollers:
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## Europe

### FRANCE - EUROPE

**SNR Paris**  
40, rue Jean Blaison  
BP 48  
92714 Vanves Cedex  
Tel.: 01 40 93 66 60  
Fax.: 01 40 93 66 10

**SNR Logistique**  
9, avenue Lion Hermel  
92160 Antony  
Tel.: 01 46 11 66 50  
Fax.: 01 46 11 66 68

**SNR Bordeaux**  
1, rue du Gélf - B.P. 173  
33708 Martigues Cedex  
Tel.: 05 56 34 68 80  
Fax.: 05 56 34 68 81

**SNR Lyon**  
Europe*  
La Rouverini - 71, chemin du Moulin Carron - B.P. 8  
69670 Davilly  
Tel.: 04 76 66 98 00  
Fax.: 04 76 66 98 20

**SNR Nancy**  
Europe*  
3, stade Forêt de la Neige  
Parc technologique Biabois  
54600 Vandœuvre  
Tel.: 03 83 44 64 00  
Fax.: 03 83 44 62 31

### DEUTSCHLAND

**SNR WÄLZLAGER GMBH**  
40472 Düsseldorf  
Wahlerstraße 6  
40437 Düsseldorf  
Postfach 33 04 10  
Tel.: (0211) 6 58 66 0  
Fax.: (0211) 6 58 66 96

**SNR Bielefeld**  
Freudrich-Hagenmann-Str.65  
33701 Bielefeld  
Postfach 17 01 45  
Tel.: (0521) 9 24 00 0  
Fax.: (0521) 9 24 00 90

**SNR Stuttgart**  
Tränkestraße 7  
70574 Stuttgart  
Postfach 70 04 16  
Tel.: (0711) 9 06 64 0  
Fax.: (0711) 9 06 64 59

### ITALIA

**SNR Italia**  
Milano  
Via Keplero, 5  
20019 Salsomaggiore (MI)  
Tel.: (02) 33 55 21  
Fax.: (02) 33 56 06 56

**SNR Bologna**  
Via E.Zago, 2/2  
40128 Bologna  
Tel.: (051) 36 79 46  
Fax.: (051) 36 29 78

### ESPAÑA - PORTUGAL

**SNR Rodamientos Ibérica S.A.**  
Madrid  
C/ Liones de Java, 22  
Peligro Industrial  
28820 Coslada  
Tel.: 91 671 89 13  
Fax.: 91 673 65 48

* EUROPE  
(Subsidiaries excepted)  
SNR Nancy - Europe: Benelux - Suisse - Autriche - UK  
SNR Lyon - Europe: Other Countries Fax: 04 76 66 88 21

### Amériques / Americas

#### USA

**SNR Bearings USA**  
Atlanta  
4600 K Highlands Pkwy  
Smyrna, GA 30082  
Tel.: (770) 435-2818  
Fax.: (800) 742-5215

**SNR Argentina**  
Buenos Aires  
Viamonte 1140 - Rte 11  
1053 Buenos Aires  
Tel.: (54) 11-4 372-1272  
Fax.: (54) 11-4 372-0088

#### AMERICA LATINA

**SNR Intermondial (Overseas)**  
Anncny  
18, rue du Val-Vert  
74600 Seynod  
France  
Tel.: (33) 4 50 65 66 00/01/02  
Fax.: (33) 4 50 65 96 15

**SNR Maroc**  
Casablanca  
73, Bd Moulay Slimane  
BP 15673 CASA PRINCIPAL  
Tel.: (212) 22 65 51 66  
Fax.: (212) 22 65 51 66

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Siège social : Rue des Usines - 74000 Annecy - FRANCE  
RCS Annecy B 325821072 - Code NAF 291H  
http://www.snr.fr