

# Withstanding washdowns to cut grease consumption

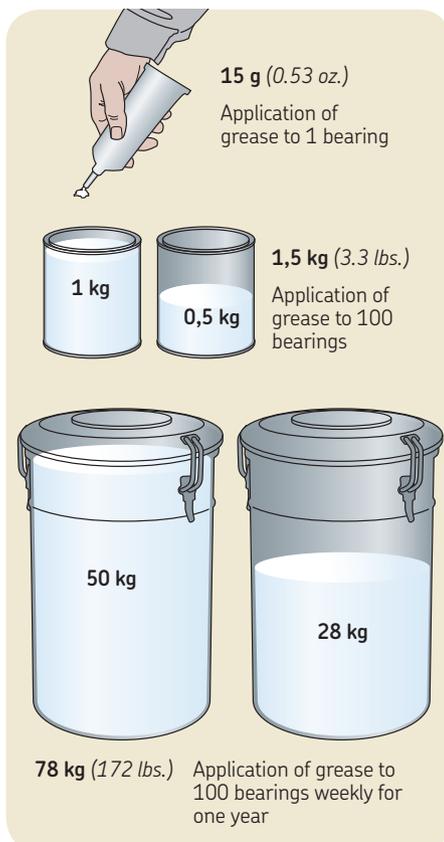


## Environmental benefits

- Reduced grease consumption
- Less grease in wastewater streams
- Longer bearing service life
- Reduced grease and bearing manufacturing
- Reduced environmental impact and cost of disposal



## SKF Food Line Y-bearing units keep grease in the bearings and out of wastewater streams



*In an average-size plant with 100 bearing positions, SKF Food Line Y-bearing units can save as much as 78 kg of lubricant annually.*

To prevent bacterial growth in food and beverage processing plants, machinery is exposed to caustic cleaning agents and frequent high pressure washdowns sometimes using hot water. Bearing lubricants are often washed out or emulsified as a result of this process leading to the need for frequent relubrication. During this process bearings are often greased to purge which leads to grease entering the waste water stream.

SKF Food Line Y-bearing units, unlike the re-lubricable baseline units, reduce these issues because of an integral multiple-lip seal design that helps keeps water and detergents out and lubricants in. Factory-filled with an NSF approved grease, the bearing units also eliminate the need for relubrication. The resulting grease savings can be very high.

In a typical food and beverage plant, for example, relubricating 100 bearing

positions over the course of a year can require as much as 78 kg of lubricant. SKF Food Line Y-bearing units will operate for years with a single grease pre-fill, significantly reducing the amount of grease that a plant consumes while also preventing it from entering the wastewater stream. In plants that use anaerobic methods for wastewater treatment, any reduction in the quantity of grease in the wastewater stream is important.

SKF Food Line Y-bearing units also feature a stainless steel bearing insert fitted into a high-strength composite housing. Combined with the multiple-lip seals, these robust components enable the units to often last much longer than conventional bearings under similar conditions. Additionally, the extended service life reduces the environmental impact of having to manufacture new bearings.

SKF BeyondZero solutions can help reduce CO<sub>2</sub> emissions, preserve limited resources and protect the environment from the use and spread of toxic substances. For more details, including documentation of reduced environmental impact, visit [www.beyondzero.com](http://www.beyondzero.com)



#### Safety

- Food safety: improved foreign body prevention and bacteria elimination
- People safety: reduced slip hazards



#### Business value

- Total cost of ownership: reduced relubrication costs and bearing replacement frequency
- Line efficiency: elimination of relubrication downtime



#### Environmental benefits

- Reduced grease consumption
- Less grease in wastewater streams

# SKF Food Line Y-bearing units for food and beverage applications

**A relubrication-free solution for wet, humid and contaminated environments**

SKF Food Line Y-bearing units enable increased productivity, coupled with reduced costs. Once installed, the units require no relubrication.

SKF Food Line Y-bearing units feature a relubrication-free, stainless steel bearing insert containing a very efficient multiple-lip seal with rotating flinger on both sides helping to keep the lubricant in and harsh washdown environments out, even when subjected to high pressure washing.

With solid base design and smooth surface finish, the bearing units support the Hazard Analysis and Critical Control Points (HACCP) process. They can also be supplied with an effective end cover to comply with health and safety regulations.

*Sustainability in food and beverage means bringing new technologies, services and offers with enhanced environmental benefits and business value, whilst following industry safety requirements.*

## Operational features

- Housings available in composite, zinc coated cast iron and cast stainless steel
- Effective end covers, tested to withstand 100 bar pressure without dislocating
- Factory-filled with NSF approved grease



*Complete assortment of SKF Food Line Y-bearing units, with wide availability in metric and inch sizes.*

© SKF is a registered trademark of the SKF Group.

™ BeyondZero is a trademark of the SKF Group.

© SKF Group 2014

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein. Any statements in this publication concerning environmental impacts, as well as cost savings and revenue increases, are based on results experienced by SKF customers and/or based on internal calculations by SKF personnel and do not constitute a guarantee that any future results will be the same.

PUB 65/P8 14572 EN · April 2014

Certain image(s) used under license from Shutterstock.com.

