



Image may differ from product. See specification for details.

WSTUC 108-TPSS

Take-up composite unit with insert ball bearing, set screw locking and extended inner ring, not standardized, SKF Food Line

Take-up ball bearing units for the SKF Food Line consisting of an insert bearing based on a sealed deep groove ball bearing mounted in a composite housing. They are strong, yet lightweight, and chemically resistant to detergents and contaminants. Typically mounted in take-up frames, the unit has an inner ring extended on both sides and is locked by tightening a set screw on the inner ring, that makes it easy to mount.

- Strong, yet lightweight
- Chemically resistant
- Designed for an alternating rotation
- Well suited to follow the highest food safety standards
- Reliable in wet environments

Overview

Dimensions

Shaft diameter	38.1 mm
Housing overall width	41 mm
Bearing width, total	49.2 mm

Performance

Basic dynamic load rating	24.7 kN
Basic static load rating	19 kN
Limiting speed	2 800 r/min
Note	Limiting speed with shaft tolerance h6

Properties

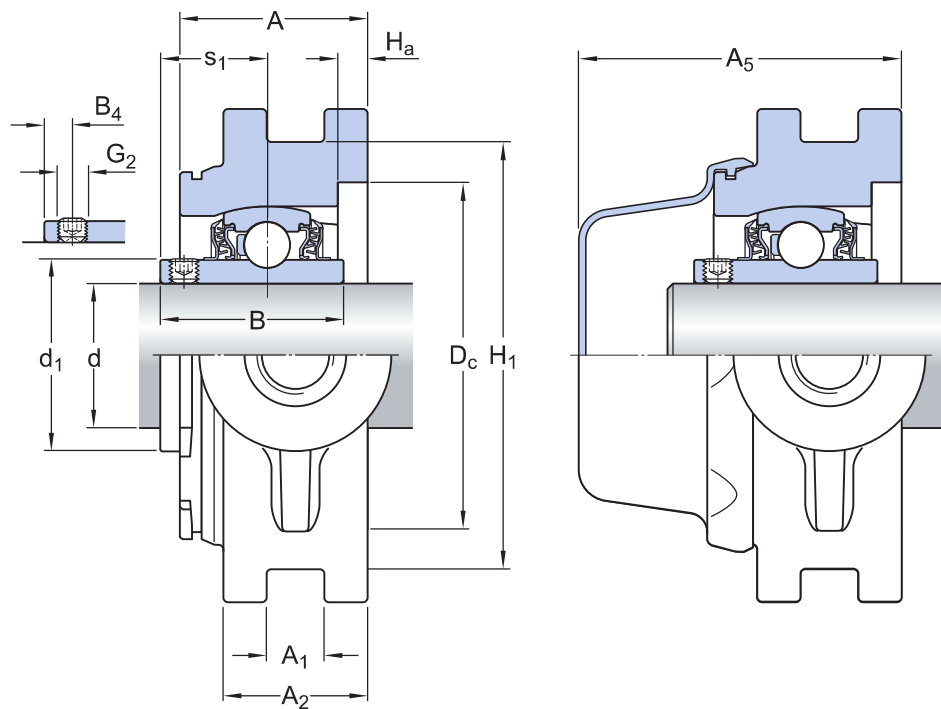
Housing type	Take-up
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Composite for the SKF Food Line
Material, bearing	Stainless steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, gutter
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without

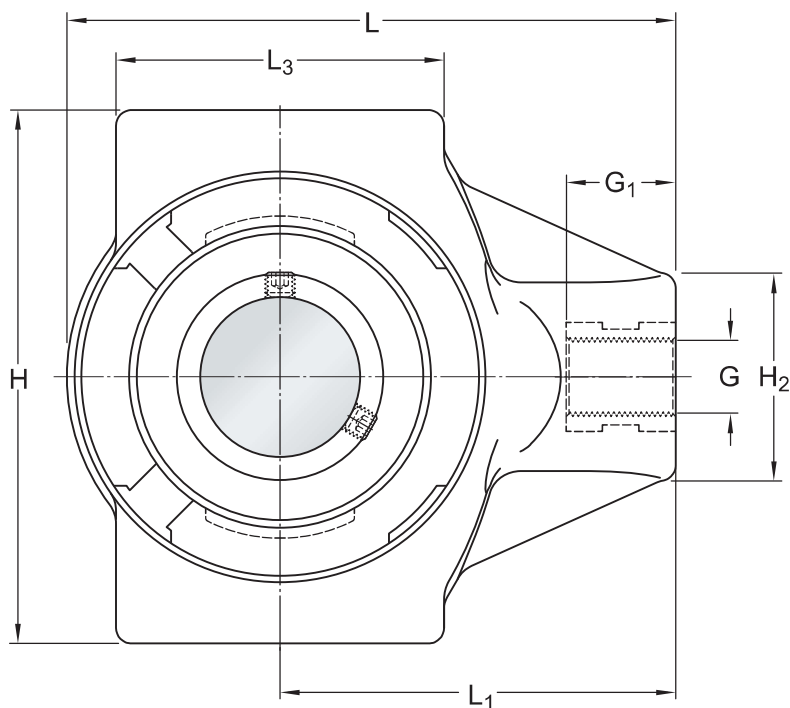
Logistics

Product net weight	0.913 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Compliance with standard	Not standardized
Purpose specific	For food and beverage applications
Material, housing	Composite for the SKF Food Line
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, gutter
Sealing, unit	Optional end cover
Coating	Without





Dimensions

d	38.1 mm	Bore diameter
d_1	≈ 51.8 mm	Shoulder diameter of inner ring
D_c	88 mm	Centring diameter
H_a	6 mm	Groove height for backseal
A	41 mm	Overall width
A_1	16 mm	Width of piloting groove
A_2	32 mm	Width of flange in which piloting grooves are provided
A_5	70.9 mm	Standout of end cover
B	49.2 mm	Width of inner ring
B_4	10 mm	Distance from locking device side face to thread centre
H	113 mm	Overall height
H_1	101.8 mm	Distance between bottoms of piloting grooves
H_2	46 mm	Height of attachment end
L	134 mm	Overall length
L_1	85 mm	Distance from attachment end face to centre line of spherical seat diameter
L_3	80 mm	Length of piloting groove

G	1"-8 UNC	Thread size attachment end
G ₁	21 mm	Thread length
s ₁	30.2 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	24.7 kN
Basic static load rating	C ₀	19 kN
Fatigue load limit	P _u	0.8 kN
Limiting speed		2 800 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G ₂	5/16-24 UNF
Hexagonal key size for set screw		3.969 mm
Recommended tightening torque for set screw		6.5 N·m

Tolerances and clearances

The values depend on the included bearing:

- Bore diameter tolerance → [table 1](#)
- Radial internal clearance → [table 2](#)
- Recommended fit → [table 3](#)
- Shaft tolerance → [table 4](#)

Compatible products

Component

Insert bearing with set screw locking and extended inner ring

[YAR 208-108-2LPW/SS](#)

Recommended product

End cover for bearing units

[ECB 508](#)

More Information

 Product details Take-up units to ISO standards Take-up units to North American standards Take-up units to Japanese Industrial Standards (JIS) Take-up units, not standardized (SKF Food Line) Permissible misalignment Locating/non-locating support Loads Temperature limits Permissible speed Lubrication Mounting and dismounting Ordering information Designation system	 Engineering information Principles of ball bearing units selection and application - Download catalogue (4.9 MB) Principles of selecting mounted bearing solutions Bearing failure and how to prevent it	 Tools SKF Product select Bearing Frequency Calculator
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