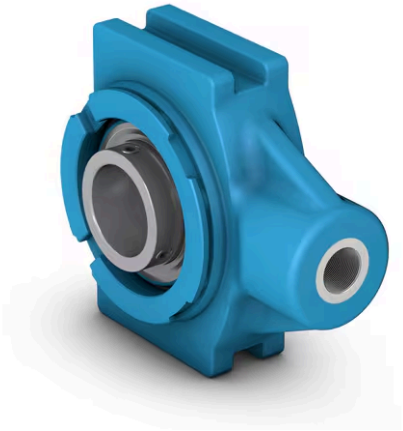


Image may differ from product. See technical specification for details.

WSTUC 20M-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	20 mm
Housing overall width	33.5 mm
Bearing width, total	31 mm

Performance

Basic dynamic load rating	10.8 kN
Basic static load rating	6.55 kN
Limiting speed	5 000 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
Unit system	Metric

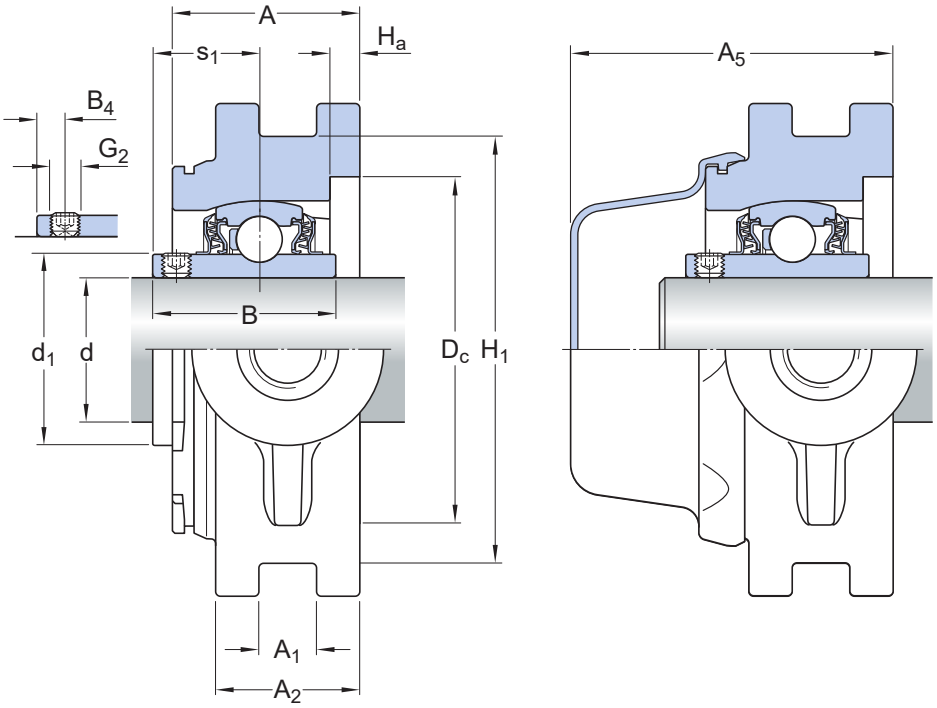
Logistics

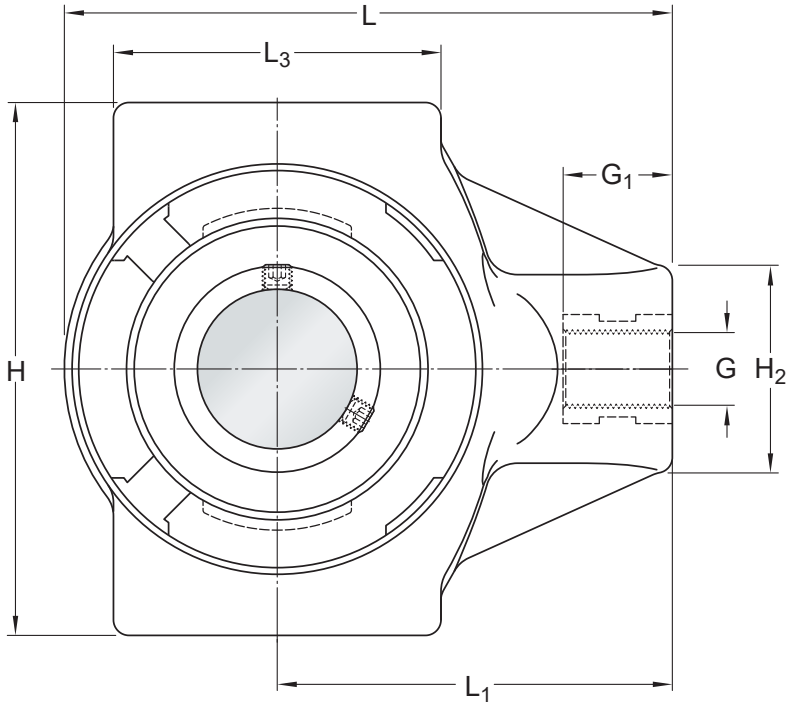
Product net weight	0.272 kg
eClass code	23-05-08-02
UNSPSC code	31171536

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	20 mm	Bore diameter
d_1	≈ 28.2 mm	Shoulder diameter of inner ring
D_c	52 mm	Centring diameter
H_a	6 mm	Groove height for backseal
A	33.5 mm	Overall width
A_1	12 mm	Width of piloting groove
A_2	25 mm	Width of flange in which piloting grooves are provided
A_5	60.4 mm	Standout of end cover
B	31 mm	Width of inner ring
B_4	4.5 mm	Distance from locking device side face to thread centre
H	89 mm	Overall height
H_1	75.8 mm	Distance between bottoms of piloting grooves
H_2	36 mm	Height of attachment end
L	95 mm	Overall length
L_1	64 mm	Distance from attachment end face to centre line of spherical seat diameter
L_3	47 mm	Length of piloting groove
G	M16	Thread size attachment end
G_1	24 mm	Thread length
s_1	18.3 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	10.8 kN
Basic static load rating	C_0	6.55 kN
Fatigue load limit	P_u	0.28 kN
Limiting speed		5 000 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G_2	M6x0.75
Hexagonal key size for set screw		3 mm

Recommended tightening torque for set screw	4 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 204-2LPW/SS

Recommended product

End cover for bearing units	ECB 504

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