



Image may differ from product. See specification for details.

WSTU 203-TF

Take-up ball bearing unit with composite or cast metal housing

Take-up ball bearing units consisting of an insert bearing mounted in a composite or cast metal housing. The units are typically mounted in take-up frames and adjusted by an adjustment screw. In addition to being part of a unit, some take-up housings for insert bearings are available as separate components. The SKF assortment includes take-up ball bearing units compliant with several industrial standards, as required by many industrial applications.

- Ready to mount
- Lubricated and sealed bearings
- Quick locking on the shaft
- Large variety of housing shapes, housing materials, and locking methods
- Concentric locking options for high speeds and low vibration

Overview

Dimensions

Shaft diameter	55.563 mm
Housing overall width	64.3 mm
Bearing width, total	55.6 mm

Performance

Basic dynamic load rating	43.6 kN
Basic static load rating	29 kN
Limiting speed	3 600 r/min
Note	Limiting speed with shaft tolerance h6

Properties

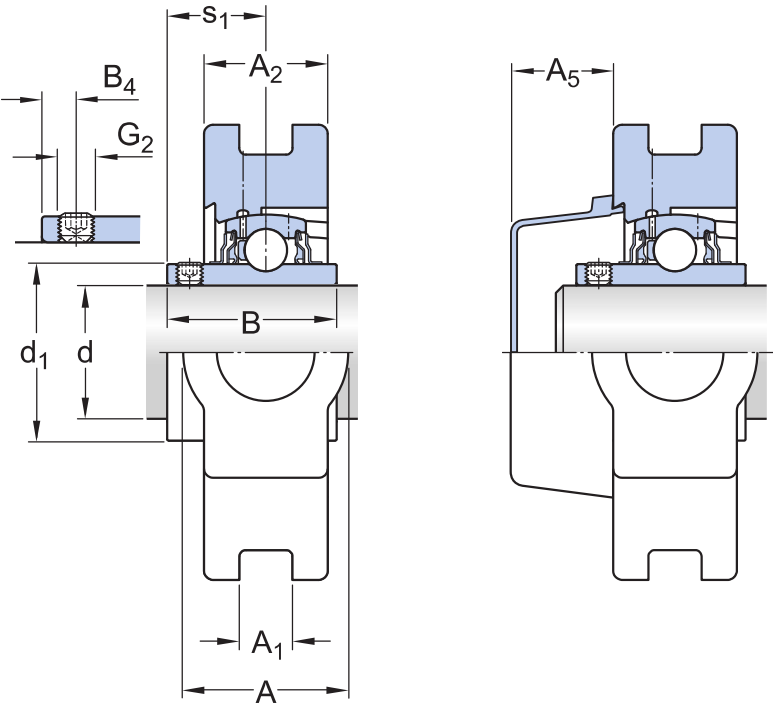
Housing type	Take-up
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

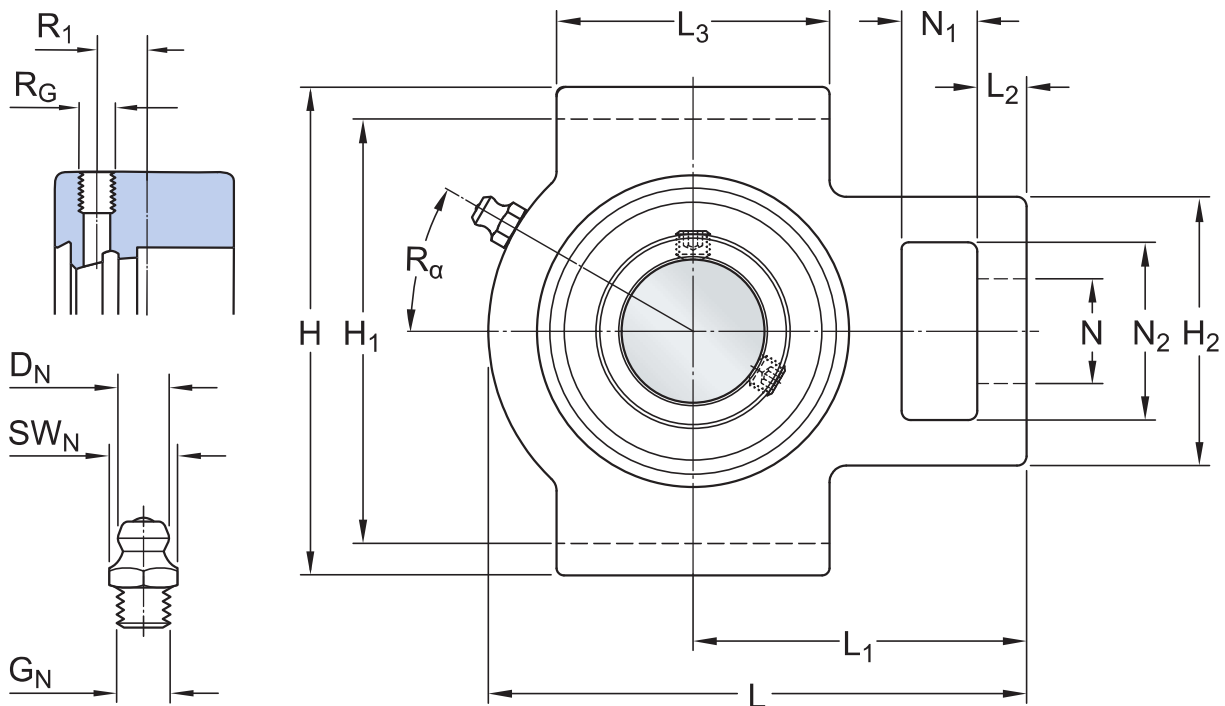
Logistics

Product net weight	3.8 kg
eClass code	23-05-16-01
UNSPSC code	31171536

Technical specification

Compliance with standard	North American standard
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Optional end cover
Coating	Without





Dimensions

d	55.563 mm	Bore diameter
d ₁	≈ 69.06 mm	Shoulder diameter of inner ring
A	64.3 mm	Overall width
A ₁	27 mm	Width of piloting groove
A ₂	38.1 mm	Width of flange in which piloting grooves are provided
A ₅	37.5 mm	Standout of end cover
B	55.6 mm	Width of inner ring
B ₄	9 mm	Distance from locking device side face to thread centre
H	146.1 mm	Overall height
H ₁	130.2 mm	Distance between bottoms of piloting grooves
H ₂	102.4 mm	Height of attachment end
L	171.5 mm	Overall length
L ₁	106.4 mm	Distance from attachment end face to centre line of spherical seat diameter
L ₂	19.1 mm	Length attachment end
L ₃	95.3 mm	Length of piloting groove
N	34.9 mm	Diameter of attachment bolt hole

N ₁	25.4 mm	Length of attachment slot
N ₂	64.3 mm	Height of attachment slot
s ₁	33.4 mm	Distance from locking device side face to raceway centre

THREADED HOLE

R _G	1/8-27 NPT	Housing thread for the grease fitting
R ₁	3.5 mm	Axial position of the housing thread
R _α	30 °	Angular position of the housing thread

GREASE FITTING

D _N	6.579 mm	Diameter of head sphere of grease fitting
SW _N	11.113 mm	Hexagonal key size for the grease fitting
G _N	1/8-27 NPT	Thread of grease fitting

Calculation data

Basic dynamic load rating	C	43.6 kN
Basic static load rating	C ₀	29 kN
Fatigue load limit	P _u	1.25 kN
Limiting speed		3 600 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G ₂	3/8-24 UNF
Hexagonal key size for set screw		4.763 mm
Recommended tightening torque for set screw		16.5 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 211-203-2F](#)

Recommended product

End cover for bearing units

[ECY 211](#)

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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