

Image may differ from product. See specification for details.

## WSTU 108-FM

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	38.1 mm
Housing overall width	49.2 mm
Bearing width, total	43.2 mm

### Performance

Basic dynamic load rating	30.7 kN
Basic static load rating	19 kN
Limiting speed	4 800 r/min
Note	Limiting speed with shaft tolerance h6

### Properties

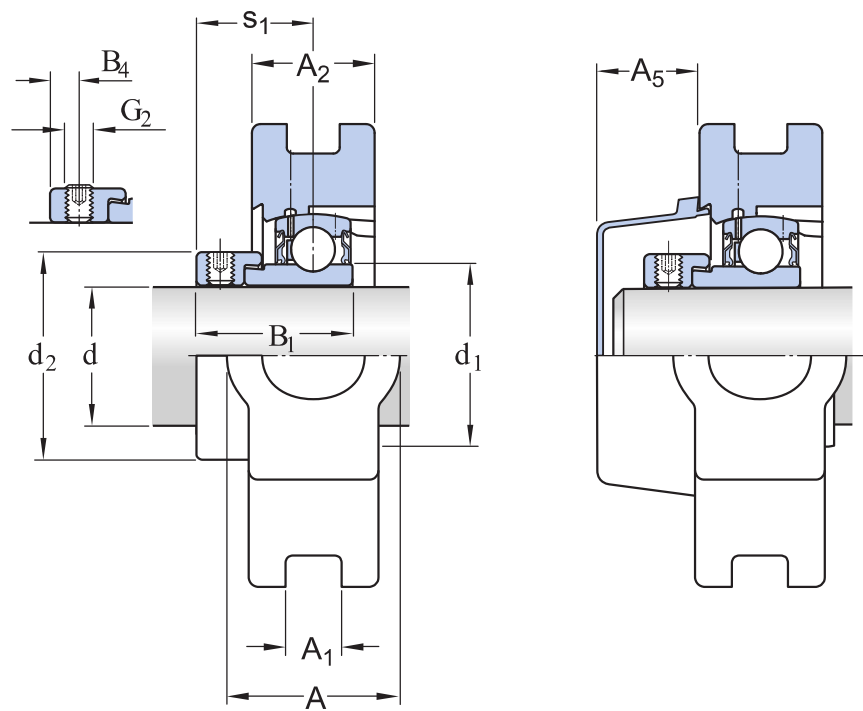
Housing type	Take-up
Retaining feature, inner ring	Eccentric collar
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant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

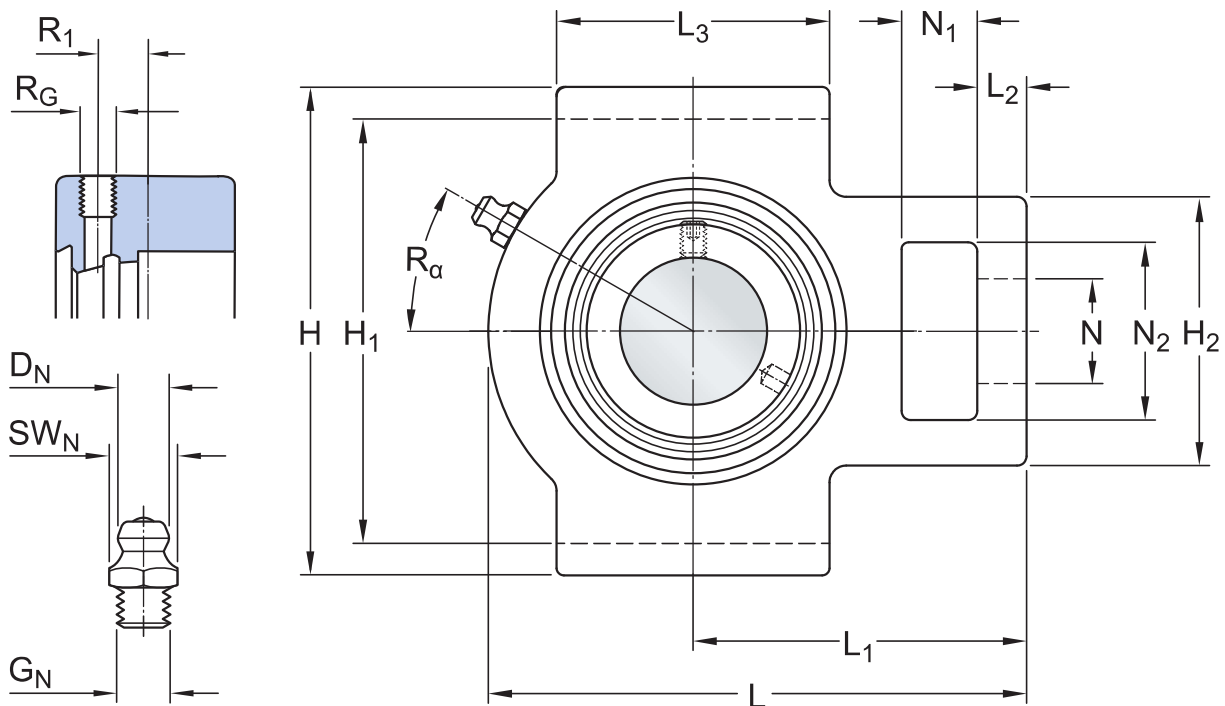
### Logistics

Product net weight	1.49 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 on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Optional end cover
Coating	Without





## Dimensions

d	38.1 mm	Bore diameter
d <sub>1</sub>	≈ 51.8 mm	Shoulder diameter of inner ring
d <sub>2</sub>	56.5 mm	Outside diameter of locking ring
A	49.2 mm	Overall width
A <sub>1</sub>	17.5 mm	Width of piloting groove
A <sub>2</sub>	33.3 mm	Width of flange in which piloting grooves are provided
A <sub>5</sub>	26 mm	Standout of end cover
B <sub>1</sub>	43.2 mm	Overall bearing width
B <sub>4</sub>	6.75 mm	Distance from locking device side face to thread centre
H	114.3 mm	Overall height
H <sub>1</sub>	102 mm	Distance between bottoms of piloting grooves
H <sub>2</sub>	83.3 mm	Height of attachment end
L	144.5 mm	Overall length
L <sub>1</sub>	88.1 mm	Distance from attachment end face to centre line of spherical seat diameter
L <sub>2</sub>	15.9 mm	Length attachment end
L <sub>3</sub>	83.3 mm	Length of piloting groove

N	28 mm	Diameter of attachment bolt hole
N <sub>1</sub>	19.1 mm	Length of attachment slot
N <sub>2</sub>	49.2 mm	Height of attachment slot
s <sub>1</sub>	32.7 mm	Distance from locking device side face to raceway centre

## THREADED HOLE

R <sub>G</sub>	1/8-27 NPT	Housing thread for the grease fitting
R <sub>1</sub>	2.7 mm	Axial position of the housing thread
R <sub>α</sub>	30 °	Angular position of the housing thread

## GREASE FITTING

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

## Calculation data

Basic dynamic load rating	C	30.7 kN
Basic static load rating	C <sub>0</sub>	19 kN
Fatigue load limit	P <sub>u</sub>	0.8 kN
Limiting speed		4 800 r/min
		Limiting speed with shaft tolerance h6

## Mounting information

Set screw	G <sub>2</sub>	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

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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

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Insert bearing with an eccentric locking collar and narrow inner ring

[YET 208-108](#)

### Recommended product

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End cover for bearing units

[ECY 208](#)

## More Information

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



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