



Image may differ from product. See specification for details.

TU 55 TF

Take-up cast iron unit with insert ball bearing, set screw locking and extended inner ring, ISO

Take-up ball bearing units, consisting of an insert bearing based on a sealed deep groove ball bearing mounted in a grey cast iron housing. 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, which makes it easy to mount.

- Designed for an alternating rotation
- Quick and easy to mount onto the shaft
- Accommodate static initial misalignment
- Long service life
- Reduced noise and vibration levels

Overview

Dimensions

Shaft diameter	55 mm
Housing overall width	64 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

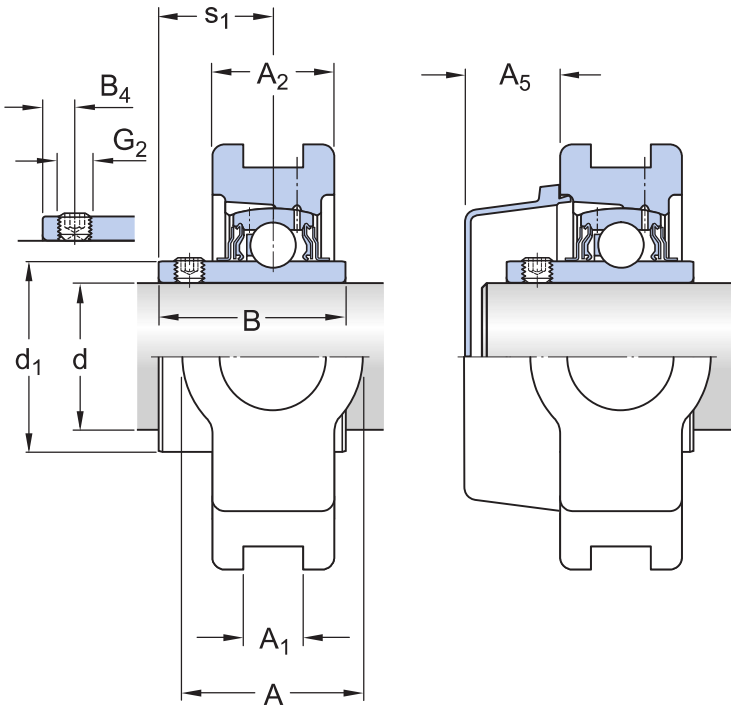
Housing type	Take-up
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant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

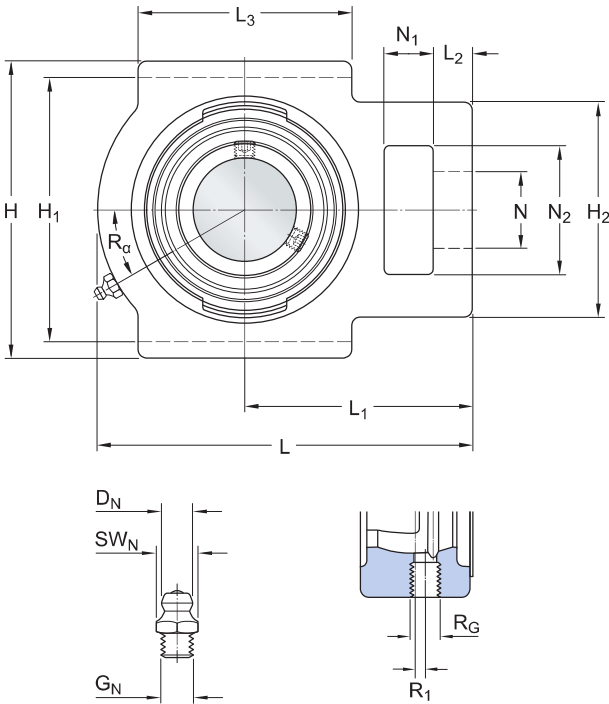
Logistics

Product net weight	3.85 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Compliance with standard	ISO
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 mm	Bore diameter
d ₁	≈ 69.06 mm	Shoulder diameter of inner ring
A	64 mm	Overall width
A ₁	27 mm	Width of piloting groove
A ₂	41 mm	Width of flange in which piloting grooves are provided
A ₅	33.5 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 mm	Overall height
H ₁	130 mm	Distance between bottoms of piloting grooves
H ₂	102 mm	Height of attachment end
L	171 mm	Overall length
L ₁	106 mm	Distance from attachment end face to centre line of spherical seat diameter
L ₂	19 mm	Length attachment end
L ₃	95 mm	Length of piloting groove
N	35 mm	Diameter of attachment bolt hole

N₁	25 mm	Length of attachment slot
N₂	64 mm	Height of attachment slot
s₁	33.4 mm	Distance from locking device side face to raceway centre

THREADED HOLE

R_G	1/4-28 UNF	Housing thread for the grease fitting
R₁	5 mm	Axial position of the housing thread
R_α	30 °	Angular position of the housing thread

GREASE FITTING

D_N	6.5 mm	Diameter of head sphere of grease fitting
SW_N	7 mm	Hexagonal key size for the grease fitting
G_N	1/4-28 SAE-LT	Thread of grease fitting

Calculation data

Basic dynamic load rating	C	43.6 kN
Basic static load rating	C₀	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	G₂	M10x1
Hexagonal key size for set screw		5 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

Take-up cast iron housing for insert bearing, ISO	TU 511 M
Insert bearing with set screw locking and extended inner ring	YAR 211-2F

Recommended product

End cover for bearing units	ECY 211
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More Information

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



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