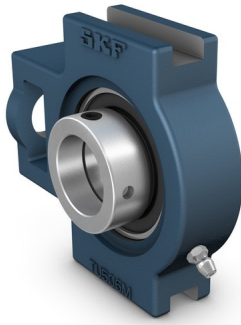


TU 50 FMTake-up cast iron unit with insert ball bearing, eccentric locking collar and narrow inner ring, ISO



Take-up cast iron unit with insert ball bearing, eccentric locking collar and narrow 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. This variant is intended for use in applications where the direction of rotation is constant. It has an inner ring extended on one side, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

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

Overview

Dimensions

Shaft diameter	50 mm
Housing overall width	49 mm
Bearing width, total	43.7 mm

Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Limiting speed	4 000 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

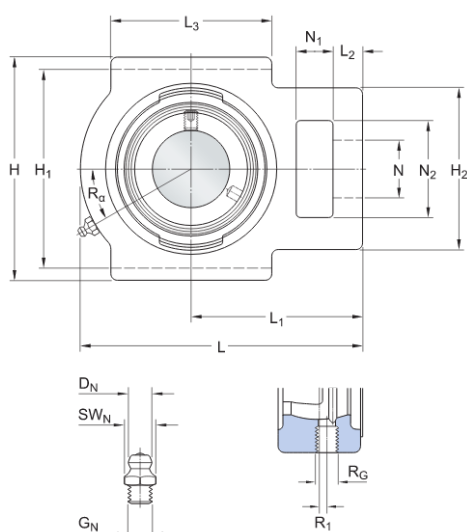
Technical Specification

Compliance with standard	ISO
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	50 mm	Bore diameter
d ₁	≈ 62.51 mm	Shoulder diameter of inner ring
d ₂	67.2 mm	Outside diameter of locking ring
A	49 mm	Overall width
A ₁	17.5 mm	Width of piloting groove
A ₂	36 mm	Width of flange in which piloting grooves are provided
A ₅	30 mm	Standout of end cover
B ₁	43.7 mm	Overall bearing width
B ₄	6.75 mm	Distance from locking device side face to thread centre
H	117 mm	Overall height
H ₁	101 mm	Distance between bottoms of piloting grooves
H ₂	83 mm	Height of attachment end



L	149 mm	Overall length
L ₁	90 mm	Distance from attachment end face to centre line of spherical seat diameter
L ₂	16 mm	Length attachment end
L ₃	86 mm	Length of piloting groove
N	29 mm	Diameter of attachment bolt hole
N ₁	19 mm	Length of attachment slot
N ₂	49 mm	Height of attachment slot
S ₁	32.7 mm	Distance from locking device side face to raceway centre

Threaded hole

R _G	1/4-28 UNF	Housing thread for the grease fitting
R ₁	4 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	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	35.1 kN
Basic static load rating	C ₀	23.2 kN
Fatigue load limit	P _u	0.98 kN
Limiting speed		4 000 r/min

Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	2.35 kg
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Mounting information

Set screw	G ₂	M10x1
Hexagonal key size for set screw		5 mm
Recommended tightening torque for set screw		16.5 N·m

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