



SKF TU 50 FM

Take-up cast iron unit with insert ball bearing, eccentric locking collar and narrow end cover

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.

Technical specifications

General	
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	
Bore diameter	50 mm
Shoulder diameter of inner ring	62.51 mm
Outside diameter of locking ring	67.2 mm
Overall width	49 mm
Width of piloting groove	17.5 mm
Width of flange in which piloting grooves are provided	36 mm
Standout of end cover	30 mm
Overall bearing width	43.7 mm
Distance from locking device side face to thread centre	6.75 mm
Overall height	117 mm
Distance between bottoms of piloting grooves	101 mm
Height of attachment end	83 mm
Overall length	149 mm
Distance from attachment end face to centre line of spherical seat diameter	90 mm
Length attachment end	16 mm
Length of piloting groove	86 mm
Diameter of attachment bolt hole	29 mm
Length of attachment slot	19 mm
Height of attachment slot	49 mm
Distance from locking device side face to raceway centre	32.7 mm
Housing thread for the grease fitting	1/4-28 UNF
Axial position of the housing thread	4 mm
Angular position of the housing thread	30 °
Diameter of head sphere of grease fitting	6.5 mm
Hexagonal key size for the grease fitting	7 mm
Thread of grease fitting	1/4-28 SAE-LT
Shaft diameter	50 mm
Housing overall width	49 mm
Bearing width, total	43.7 mm

Calculation data	
Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Fatigue load limit	0.98 kN
Limiting speed	4000 r/min
	Limiting speed with shaft tolerance h6

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

Performance	
Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Limiting speed	4000 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	2.35 kg
eClass code	23-05-08-02
UNSPSC code	31171536

SKF drawings