



## SKF TU 20 TF

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

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.

### Technical specifications

General	
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	
Bore diameter	20 mm
Shoulder diameter of inner ring	28.2 mm
Overall width	34 mm
Width of piloting groove	13.5 mm
Width of flange in which piloting grooves are provided	25 mm
Standout of end cover	18.5 mm
Width of inner ring	31 mm
Distance from locking device side face to thread centre	4.5 mm
Overall height	92 mm
Distance between bottoms of piloting grooves	76 mm
Height of attachment end	54 mm
Overall length	97 mm
Distance from attachment end face to centre line of spherical seat diameter	62 mm
Length attachment end	10 mm
Length of piloting groove	54 mm
Diameter of attachment bolt hole	19 mm
Length of attachment slot	16 mm
Height of attachment slot	32 mm
Distance from locking device side face to raceway centre	18.3 mm
Housing thread for the grease fitting	1/4-28 UNF
Axial position of the housing thread	2.5 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	20 mm
Housing overall width	34 mm
Bearing width, total	31 mm

Calculation data	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Fatigue load limit	0.28 kN
Limiting speed	8500 r/min
	Limiting speed with shaft tolerance h6

Mounting information	

Set screw	M6x0.75
Hexagonal key size for set screw	3 mm
Recommended tightening torque for set screw	4 N·m

<b>Performance</b>	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Limiting speed	8500 r/min
Note	Limiting speed with shaft tolerance h6

<b>Properties</b>	
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

<b>Logistics</b>	
Product net weight	0.852 kg
eClass code	23-05-08-02
UNSPSC code	31171536

**SKF drawings**

