



## SKF TUJ 55 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 | JIS                                |
| 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            | Without                            |
| Coating                  | Without                            |

| Dimensions                                                                  |               |
|-----------------------------------------------------------------------------|---------------|
| Bore diameter                                                               | 55 mm         |
| Shoulder diameter of inner ring                                             | 69.06 mm      |
| Overall width                                                               | 64 mm         |
| Width of piloting groove                                                    | 22 mm         |
| Width of flange in which piloting grooves are provided                      | 41 mm         |
| Width of inner ring                                                         | 55.6 mm       |
| Distance from locking device side face to thread centre                     | 9 mm          |
| Overall height                                                              | 146 mm        |
| Distance between bottoms of piloting grooves                                | 130 mm        |
| Height of attachment end                                                    | 102 mm        |
| Overall length                                                              | 171 mm        |
| Distance from attachment end face to centre line of spherical seat diameter | 106 mm        |
| Length attachment end                                                       | 19 mm         |
| Length of piloting groove                                                   | 95 mm         |
| Diameter of attachment bolt hole                                            | 35 mm         |
| Length of attachment slot                                                   | 25 mm         |
| Height of attachment slot                                                   | 64 mm         |
| Distance from locking device side face to raceway centre                    | 33.4 mm       |
| Housing thread for the grease fitting                                       | 1/4-28 UNF    |
| Axial position of the housing thread                                        | 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                                                              | 55 mm         |
| Housing overall width                                                       | 64 mm         |
| Bearing width, total                                                        | 55.6 mm       |

| Calculation data          |                                        |
|---------------------------|----------------------------------------|
| Basic dynamic load rating | 43.6 kN                                |
| Basic static load rating  | 29 kN                                  |
| Fatigue load limit        | 1.25 kN                                |
| Limiting speed            | 3600 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 | 43.6 kN                                |
| Basic static load rating  | 29 kN                                  |
| Limiting speed            | 3600 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                 | Without                        |
| Lubricant                     | Grease                         |
| Relubrication hole            | With                           |
| Grease fitting                | With                           |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 3.96 kg     |
| eClass code        | 23-05-16-02 |
| UNSPSC code        | 31171536    |

**SKF drawings**

