



Image may differ from product. See technical specification for details.

## TU 509 M

### Take-up cast iron housing for insert bearing, ISO

Take-up cast iron housings are non-split housings made of grey cast iron and are designed to provide a high degree of stiffness and accommodate heavy loads acting in different directions. These types of loads are typically encountered in conveyors, roller beds and crushers.

- Stiff housing
- Accommodate heavy radial loads in all directions
- Narrow width

## Overview

## Dimensions

Spherical seating diameter	85 mm
Housing overall width	49 mm

## Properties

Housing type	Take-up
Material, housing	Cast iron
Coating	Without
Relubrication hole	With
Grease fitting	With

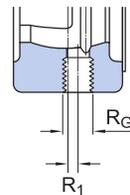
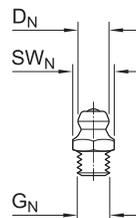
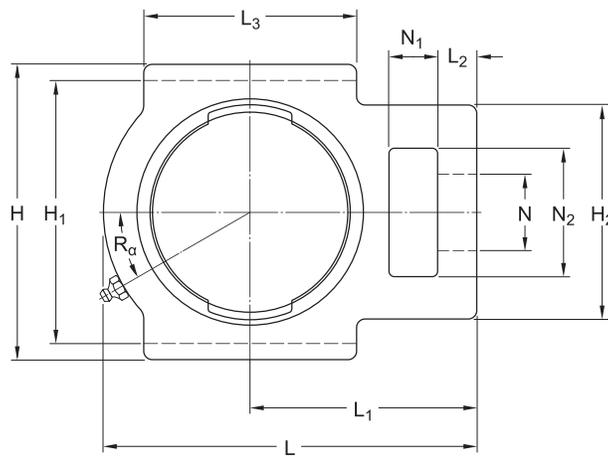
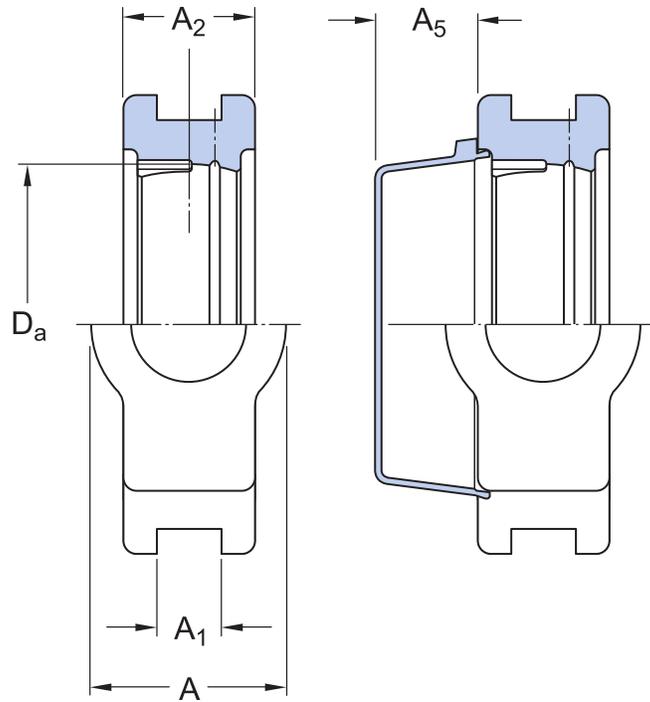
## Logistics

Product net weight	1.66 kg
eClass code	23-05-08-02
UNSPSC code	31171536

# Technical specification

Material

Cast iron



## Dimensions

$D_a$	85 mm	Diameter of spherical seat
A	49 mm	Overall width
$A_1$	17.5 mm	Width of location slot
$A_2$	35 mm	Width of flange in which location slot is provided
$A_5$	24 mm	Standout of end cover
H	117 mm	Overall height
$H_1$	101 mm	Distance between bottoms of location slot
$H_2$	83 mm	Height of attachment end
L	144 mm	Overall length
$L_1$	87 mm	Distance from attachment end face to centre line of spherical seat diameter
$L_2$	15 mm	Length attachment end
$L_3$	83 mm	Length of locations slot
N	29 mm	Diameter of attachment bolt hole
$N_1$	19 mm	Length of attachment slot
$N_2$	49 mm	Height of attachment slot

## 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 the grease fitting

## THREADED HOLE

$R_G$	1/4-28 UNF	Housing thread for the grease fitting
$R_1$	4.5 mm	Axial position of the housing thread
$R_a$	30 °	Angular position of the housing thread

## Associated products

End cover

ECY 209

## Tolerances and clearances

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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

### Recommended product

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End cover for bearing units

[ECY 209](#)

## More Information

### Product details

[Take-up units to ISO standards](#)

[Take-up units to North American standards](#)

[Take-up units to Japanese Industrial Standards \(JIS\)](#)

[Take-up units, not standardized \(SKF Food Line\)](#)

[Permissible misalignment](#)

[Locating/non-locating support](#)

[Loads](#)

[Temperature limits](#)

[Permissible speed](#)

[Lubrication](#)

[Mounting and dismounting](#)

[Ordering information](#)

[Designation system](#)

### Engineering information

 [Principles of ball bearing units selection and application - Download catalogue \(4.9 MB\)](#)

[Principles of selecting mounted bearing solutions](#)

[Bearing failure and how to prevent it](#)

### Tools

[SKF Product select](#)

[Bearing Frequency Calculator](#)



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