

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

UCT 212/H

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

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 two set screws on the inner ring, which makes it easy to mount. Units with designation suffix /H feature a 120° angle of separation between the set screws that contributes to a higher stability and a better load balance.

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

Ask AI

Overview

Dimensions

Shaft diameter	60 mm
Housing overall width	64 mm
Bearing width, total	65.1 mm

Performance

Basic dynamic load rating	52.7 kN
Basic static load rating	36 kN
Limiting speed	2 700 r/min
Note	Limiting speed with shaft tolerance h6

Properties

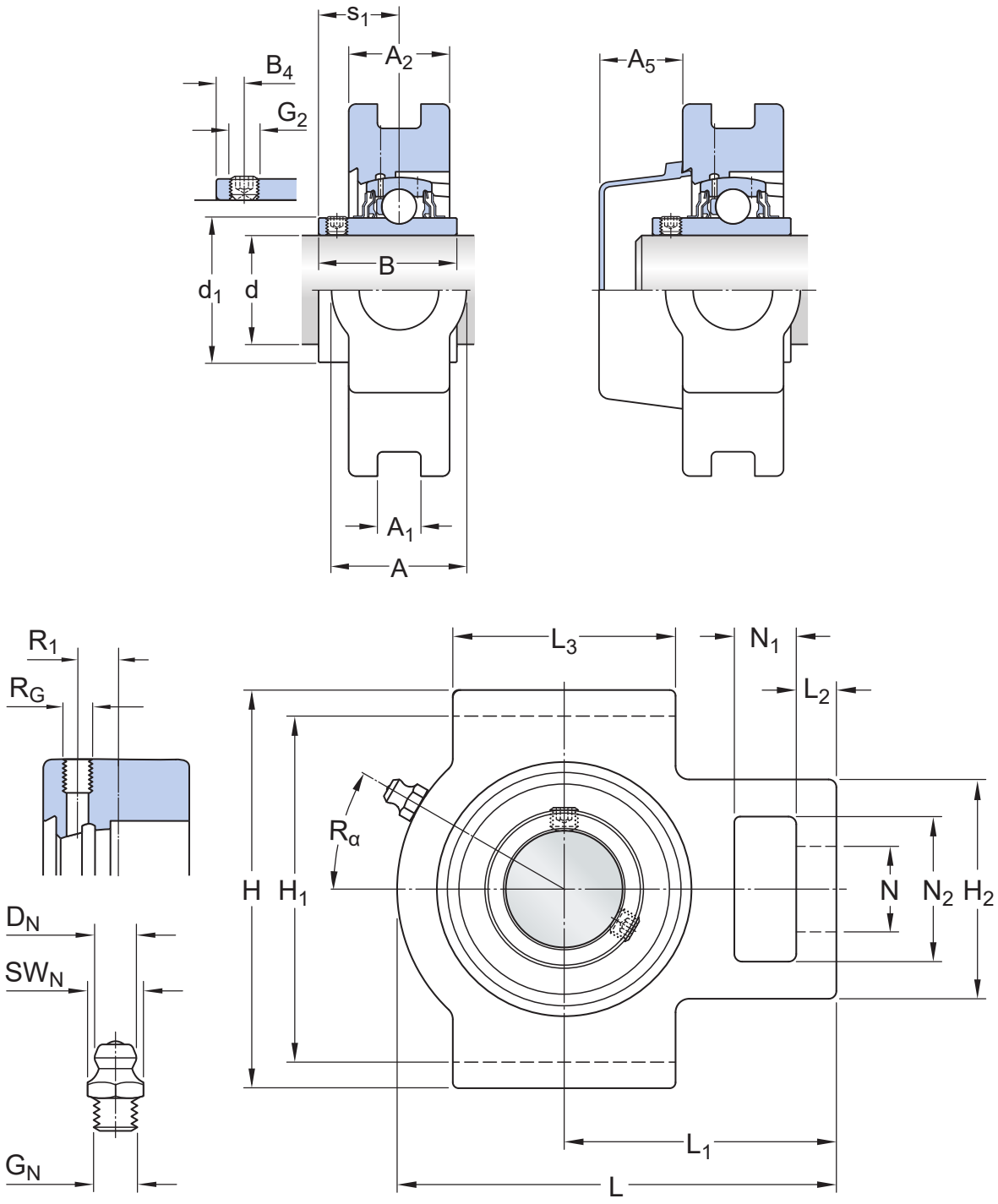
Housing type	Take-up
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics

Product net weight	4.75 kg

Technical specification

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	Optional end cover
Coating	Without



Dimensions

d	60 mm	Bore diameter
d_1	≈ 75.64 mm	Shoulder diameter of inner ring
A	64 mm	Overall width
A_1	22 mm	Width of piloting groove
A_2	42 mm	Width of flange in which piloting grooves are provided
A_5	39 mm	Standout of end cover
B	65.1 mm	Width of inner ring
B_4	10 mm	Distance from locking device side face to thread centre
H	146 mm	Overall height
H_1	130 mm	Distance between bottoms of piloting grooves
H_2	102 mm	Height of attachment end
L	194 mm	Overall length
L_1	119 mm	Distance from attachment end face to centre line of spherical seat diameter
L_2	19 mm	Length attachment end
L_3	102 mm	Length of piloting groove
N	35 mm	Diameter of attachment bolt hole
N_1	32 mm	Length of attachment slot
N_2	64.5 mm	Height of attachment slot
s_1	39.7 mm	Distance from locking device side face to raceway centre

THREADED HOLE

R_G	1/8-27 NPT	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	6.589 mm	Diameter of head sphere of grease fitting
SW_N	11.11 mm	Hexagonal key size for the grease fitting
G_N	1/8-27 NPT	Thread of grease fitting

Calculation data

Basic dynamic load rating	C	52.7 kN
Basic static load rating	C_0	36 kN

Fatigue load limit	P_u	1.53 kN
Limiting speed		2 700 r/min
		Limiting speed with shaft tolerance h6

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

Tolerances and clearances

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

End cover for bearing units	ECY 212

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