

UC Insert (Set-Screw) Bearing Dimensions (UC204 to UC212)

Boundary dimensions for the UC200-series insert bearing: bore d, outer (spherical) diameter D, total width B and set-screw thread for UC204 to UC212.

A UC insert bearing is the bearing element that fits inside a pillow block (UCP), two-bolt flange (UCF) or four-bolt / two-bolt oval flange (UCFL) housing. It has a wide inner ring that extends to one side and carries two grub (set) screws 120 degrees apart, which lock the bearing onto a plain shaft; the outer ring is spherical so the unit can self-align in its housing. The number encodes the size: UC2 is the 200 light dimension series, and the last two digits give the bore code (04 = 20 mm, and from 04 up the bore is the code times 5 mm). The three boundary numbers below — bore d, outer diameter D and width B — are the same for any maker (NTN, NSK, Asahi, FYH, SKF and others), so a UC207 is 35 x 72 x 42.9 mm whatever the brand. Values verified against NTN per-model data and cross-checked against a second source.

Bearing	Bore d (mm)	Outer dia. D (mm)	Width B (mm)	Set screw
UC204	20	47	31	M5 x 0.8
UC205	25	52	34.1	M5 x 0.8
UC206	30	62	38.1	M6 x 0.75
UC207	35	72	42.9	M6 x 0.75
UC208	40	80	49.2	M8 x 1
UC209	45	85	49.2	M8 x 1
UC210	50	90	51.6	M8 x 1
UC211	55	100	55.6	M8 x 1
UC212	60	110	65.1	M10 x 1.25

d = bore (shaft) diameter, D = outer (spherical) diameter, B = total width, all in millimetres. The two set screws lock the inner ring to the shaft. The set screw (lip) is the standard closure on this series.

Reading the bearing number

- UC — insert bearing with a wide inner ring
- First digit after UC (2) — the 200 dimension series (UC3xx) is the heavier-section series
- Last two digits — the bore code: 04 = 20 mm, 05 = 25 mm, etc. such as UC207-20 or UC207-21 denotes bore diameter
- So UC207 reads as insert bearing (UC207) with M6 x 0.75 set screws.

Insert bearing and housing — how they pair

The insert and its housing share the same dimensions. To make a pillow block, an F207 housing to make a two-bolt flange or a two-bolt oval flange. The spherical outer diameter and mounting dimensions (bolt spacing, height) are the same. To identify a loose insert, the bore d, outer diameter D and width B of the wide-inner-ring insert with two set screws

Reference compiled by cBallast for the UC200-series insert bearing provided for identification and cross-reference; not for procurement. All trademarks are the property of their respective owners.