TIMKEN



TIMKEN® U SERIES MOUNTED BALL BEARINGS

Our line of standard and heavy-duty U Series Mounted Ball Bearings includes Set Screw Locking (UC 200 and UC 300), Eccentric Locking Collar (UEL 200) and Tapered Bore for use with Adapter Sleeve Locking Series (UK 200) and provides reliable Timken products readily available for the most popular applications.

INCREASED EQUIPMENT UPTIME AND REDUCED MAINTENANCE COST

- Bearings with spherical outer rings and precision-machined cast-iron housings help prevent outer ring rotation.
- Bearings withstand static misalignment of the shaft of +/– 3 degrees.
- Designed for normal operation between –20° C and 100° C (–4° F and 212° F).
- Wide inner ring bearings deliver greater shaft support.
- High-strength housings suited for most industrial applications.
- Bearings are prelubricated and ready for immediate installation.
- Timken knowledge and support come standard.

ROBUST SEALING PERFORMANCE IN THE MOST DEMANDING ENVIRONMENTS

- Precision sealing provides extended bearing life and reduced lubrication leakage.
- Bonded seal design includes a steel flinger for additional bearing protection.
- Effective grease retention and reduced debris and moisture ingress improve bearing performance.

WIDE RANGE OF READY-TO-MOUNT UNITS

- Six different housing designs plus replacement inserts are offered in metric and imperial sizes.
- Set screw locking, tapered bore for use with adapter sleeve and eccentric locking collar design allow for easy installation.
- Extensive range of sizes meets the needs of a wide range of applications.
- Interchangeable without modification in many applications.
- Regional in-stock availability ensures the service levels you expect.

EXPANDED U SERIES OFFERING

PILLOW BLOCK UNITS UCP – 12 mm to 140 mm (½ in. to 4 in.) UKP – 20 mm to 80 mm (¾ in. to 3 in.) UELP – 12 mm to 75 mm (½ in. to 3 in.)	
TWO-BOLT FLANGED UNITS UCFL – 12 mm to 130 mm (½ in. to 4 in.) UKFL – 20 mm to 80 mm (¾ in. to 3 in.) UELFL – 12 mm to 75 mm (½ in. to 3 in.)	
WIDE INNER RING BALL BEARINGS UC – 12 mm to 140 mm (½ in. to 4 in.) UK – 20 mm to 80 mm (¾ in. to 3 in.) UEL – 12 mm to 75 mm (½ in. to 3 in.)	
TAKE-UP UNITS UCT – 12 mm to 140 mm (½ in. to 4 in.) UKT – 20 mm to 75 mm (¾ in. to 3 in.) UELT – 12 mm to 75 mm (½ in. to 3 in.)	
TAPPED BASE PILLOW BLOCK UNITS UCPA – 12mm to 50mm (½ in. to 2 in.) UELPA – 12mm to 50mm (½ in. to 2 in.) UKPA – 20mm to 45mm (¾ in. to 1¾ in.) UCPW – 25mm to 40mm UELPW – 25mm to 40mm	
FOUR-BOLT FLANGED UNITS UCF – 12 mm to 90 mm (½ in. to 3½ in.) UELF – 12 mm to 75 mm (½ in. to 3 in.) UKF – 20 mm to 80 mm (¾ in. to 3 in.)	
PILOTED ROUND FLANGED UNITS UCFC – 12 mm to 90 mm (½ in. to 3½ in.) UKFC – 20 mm to 80 mm (¾ in. to 3 in.) UELFC – 12 mm to 75 mm (½ in. to 3 in.)	

CONFIGURATIONS TO MEET YOUR NEEDS

MOUNTED BALL BEARINGS

Standard and heavy series – wide inner ring, set screw, tapered bore for use with adapter sleeve and eccentric locking collar mechanisms

HOUSING TYPES

Pillow block, tapped base pillow block, two-bolt flange, four-bolt flange, piloted round flange and take-up.

BORE SIZES
Metric
12 mm – 140 mm
Inch
½ in. – 4 in.

INDUSTRIES/APPLICATIONS

- Materials Handling
- Food and Beverage
- Agriculture
- Packaging
- Industrial Fans/Blowers
- Glass Making
- Brick Making
- Paper and Printing

NOMENCLATURE

UC P 2 05 - 16

Bearing Insert Code
UC – Set screw locking mechanism
UEL – Eccentric locking collar
UK – Tapered bore for use with adapter sleeve

Series Code
2 – standard industrial series
3 – heavy-duty series

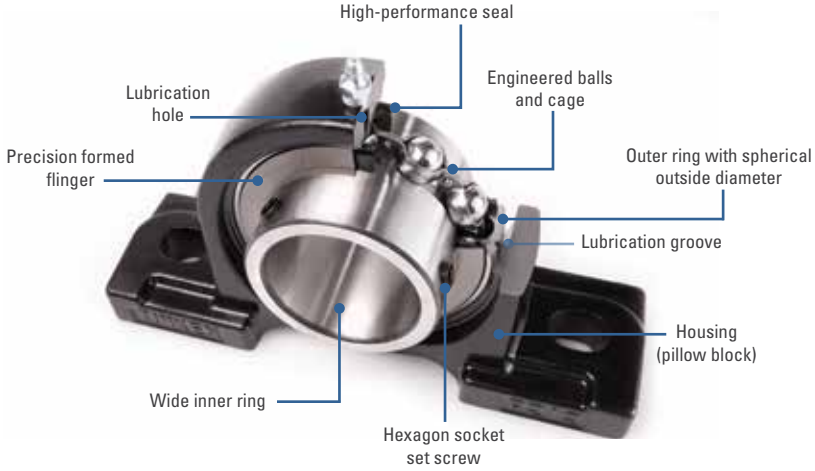
Inch Diameter Code
-8 or higher – Bore diameter (in.) = bore diameter code/16

Example:
UCF201-8 = 8/16 in. or ½ in. bore (Four-bolt flanged unit)
UCP205-16 = 16/16 in. or 1 in. bore (Pillow block unit)

Housing Code
P – Pillow block unit
F – Four-bolt flange unit
PA – Tapped base pillow block unit
PW – Y series tapped base pillow block unit
FL – Two-bolt flanged unit
T – Take-up unit
FC – Piloted round flanged unit

Metric Bore Diameter Code For Cylindrical Bore (1)
01 – Nominal bore diameter = 12 mm
02 – Nominal bore diameter = 15 mm
03 – Nominal bore diameter = 17 mm
04 or higher – Bore diameter (mm) = bore diameter code x 5
(1)For adapter UK style - refer to catalog tables for shaft diameter.

Example:
UCF201 = 12 mm bore (Four-bolt flanged unit)
UELP211 = 55 mm bore (Pillow block unit)



TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

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