

## EXPANDED U SERIES OFFERING TIMKEN<sup>®</sup> U SERIES BALL BEARING HOUSED UNITS

Our line of standard and heavy-duty U Series Ball Bearing Housed Units 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.



**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.)



 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.)



#### 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.



 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.)



#### WIDE RANGE OF READY-TO-MOUNT UNITS

- Five 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.



 FOUR-BOLT FLANGED UNITS

 UCF - 12 mm to 90 mm (½ in. to 3 ½ 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 3 ½ in.)

UCFC – 12 mm to 90 mm (½ in. to 3 ½ in UKFC – 20 mm to 80 mm (¾ in. to 3 in.) UELFC – 12 mm to 75 mm (½ in. to 3 in.)

### NOMENCLATURE CONFIGURATIONS TO MEET YOUR NEEDS

#### BALL HOUSED UNITS

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, two-bolt flange, four-bolt flange, piloted round flange and take-up.

METRIC BORE SIZES 12 mm – 140 mm

INCH BORE SIZES 1/2 in. – 4 in.

#### INDUSTRIES/APPLICATIONS

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

**Bearing Insert Code** Series Code Inch Diameter Code UC Set screw locking mechanism standard industrial series -8 or higher – Bore diameter (in.) = bore diameter code/16 2 3 - heavy-duty series Eccentric locking collar UEL Example: UCF201-8 = %16 in. or ½ in. bore (Four-bolt flanged unit) Tapered bore for use with adapter sleeve UCP205-16 =  $\frac{16}{16}$  in. or 1 in. bore (Pillow block unit) UK Metric Bore Diameter Code For Cylindrical Bore (1) - Nominal bore diameter = 12 mm Housing Code 02 - Nominal bore diameter = 15 mm 03 - Nominal bore diameter = 17 mm P – Pillow block unit F – Four-bolt flange unit 04 or higher - Bore diameter (mm) = bore diameter code x 5 FL - Two-bolt flanged unit <sup>(1)</sup>For adapter UK style - refer to catalog tables for shaft diameter. – Take-up unit т FC - Piloted round flanged unit Example: UCF201 = 12 mm bore (Four-bolt flanged unit) UELP211 = 55 mm bore (Pillow block unit) High-performance seal Lubrication Engineered balls hole and cage Precision formed flinger Outer ring with spherical outside diameter Lubrication groove

Wide inner ring

Hexagon socket \_\_\_\_ set screw

Housing (pillow block)

# 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 high-performance mechanical components, including bearings, belts, brakes, clutches, chain, couplings, gears and related mechanical power transmission products and services.

### Stronger. By Design.