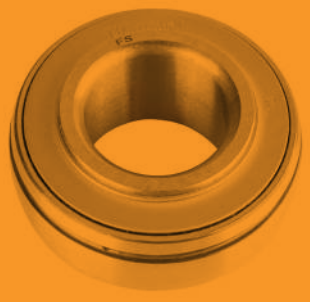
TIMKEN

TIMKEN® U SERIES BALL BEARING HOUSED UNIT CATALOG



ABOUT THE TIMKEN COMPANY

As a global leader in bearings and power transmission systems, Timken focuses on precise solution design, materials and craftsmanship to deliver reliable and efficient performance that improves productivity and uptime. Timken offers a full range of bearings, belts, chains, couplings, gears and lubricants, along with rebuild and repair services. Timken (NYSE; TKR; wwwtimken.com) applies its proven expertise in metallurgy, tribology and mechanical power transmission to create innovative approaches to customers' complex needs. Global availability of products and engineering talent, combined with exceptional service delivery across markets, makes Timken a preferred choice worldwide.

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TIMKEN® U SERIES BALL BEARING HOUSED UNIT CATALOG INDEX

TIMKEN® U SERIES BALL BEARING HOUSED UNITS - DESIGNED FOR OPTIMIZED PERFORMANCE

For more than 110 years, Timken innovations continue to keep the world in motion, including the invention of the wide inner ring bearing and the ball bearing housed unit. We continue that innovation by applying our extensive engineering knowledge of bearings, metallurgy, seals and end-user applications to deliver optimized performance from our housed unit product line.

Timken ball bearing housed units help improve efficiencies through:

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 ball bearings deliver greater shaft support.
- High-strength housings are suited for most industrial applications.
- Bearings are prelubricated and ready for immediate installation.
- Timken knowledge and support come standard.

Robust sealing designed for the most demanding environments.

- Highly engineered sealing provides extended bearing life and reduced lubrication leakage.
- Bonded seal design with a steel flinger adds additional bearing protection.
- Effective grease retention and reduced debris and moisture ingress improve bearing performance.

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.
- Local in-stock availability ensures the service levels you expect.

Timken supports your job sites with a team of service engineers available around the world. Their services help extend maintenance cycles and maximize uptime.

Timken is your single-source for friction management, with a full range of bearings and related accessories including greases, seals, tools, training and repair services.

HOW TO USE THIS CATALOG

We designed this catalog to help you find the Timken bearings best suited to your equipment needs and specifications.

The product tables list many of the bearing types that are specifically used in thrust positions. For other bearing types, please refer to the respective Timken product catalog reference.

Timken offers an extensive range of bearings and accessories in both imperial and metric sizes. For your convenience, size ranges are indicated in millimeters and inches. Contact your Timken engineer to learn more about our complete line for the special needs of your application.

This publication contains dimensions, tolerances and load ratings, as well as engineering sections describing mounting and fitting practices for shafts and housings, internal clearances, materials and other bearing features. It provides valuable assistance in the initial consideration of the type and characteristics of the bearings that may best suit your particular needs.

ISO, as used in this publication, refers to the International Organization for Standardization and JIS refers to the Japanese Industrial Standards.

Updates are made periodically to this catalog. Visit www.timken.com/catalogs for the most recent version of the Timken® U Series Ball Bearing Housed Unit Catalog.

SHELF LIFE AND STORAGE OF GREASE-LUBRICATED BEARINGS AND COMPONENTS

To help you get the most value from our products, Timken provides guidelines for the shelf life of grease-lubricated ball and roller bearings, components and assemblies. Shelf life information is based on Timken and industry test data and experience.

SHELF LIFE

Shelf life should be distinguished from lubricated bearing/component design life as follows:

Shelf life of the grease-lubricated bearing/component represents the period of time prior to use or installation.

The shelf life is a portion of the anticipated aggregate design life. It is impossible to accurately predict design life due to variations in lubricant bleed rates, oil migration, operating conditions, installation conditions, temperature, humidity and extended storage.

TIMKEN IS NOT RESPONSIBLE FOR THE SHELF LIFE OF ANY BEARING/COMPONENT LUBRICATED BY ANOTHER PARTY.

European REACH compliance

Timken lubricants, greases and similar products sold in standalone containers or delivery systems are subject to the European REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) directive. For import into the European Union, Timken can sell and provide only those lubricants and greases that are registered with ECHA (European Chemical Agency). For further information, please contact your Timken engineer.

STORAGE

Timken suggests the following storage guidelines for our finished products (bearings, components and assemblies, referred to as “products”):

- Unless directed otherwise by Timken, products should be kept in their original packaging until they are ready to be placed into service.
- Do not remove or alter any labels or stencil markings on the packaging.
- Products should be stored in such a way that the packaging is not pierced, crushed or otherwise damaged.
- After a product is removed from its packaging, it should be placed into service as soon as possible.
- When removing a product that is not individually packaged from a bulk pack container, the container should be resealed immediately after the product is removed.
- The storage area temperature should be maintained between 0° C (32° F) and 40° C (104° F); temperature fluctuations should be minimized.
- The relative humidity should be maintained below 60 percent and the surfaces should be dry.
- The storage area should be kept free from airborne contaminants such as, but not limited to, dust, dirt, harmful vapors, etc.
- The storage area should be isolated from undue vibration.
- Extreme conditions of any kind should be avoided.

Due to the fact that Timken is not familiar with your particular storage conditions, we strongly suggest following these guidelines. However, you may be required by circumstances or applicable government requirements to adhere to stricter storage requirements.

Most bearing components typically ship protected with a corrosion-preventive compound that is not a lubricant. These components may be used in oil-lubricated applications without removal of the corrosion-preventive compound. When using some specialized grease lubrications, we advise you to remove the corrosion-preventive compound before packing the bearing components with suitable grease.

Be careful in selecting lubrication, however, since different lubricants are often incompatible.

When you receive a bearing shipment, do not remove products from their packaging until they are ready for mounting so they do not become corroded or contaminated.

Store bearings and bearing housings in an appropriate atmosphere so they remain protected for the intended period.

⚠ WARNING

Failure to observe the following warnings could create a risk of death or serious injury.

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Overheated bearings can ignite explosive atmospheres. Special care must be taken to properly select, install, maintain and lubricate housed unit bearings that are used in or near atmospheres that may contain explosive levels of combustible gases or accumulations of dust such as grain, coal, or other combustible materials. Consult your equipment designer or supplier for installation and maintenance instructions.

If hammer and bar are used for installation or removal of a part, use a mild steel bar (e.g., 1010 or 1020 grade). Mils steel bars are less likely to cause release of high speed fragments from the hammer or bar or the part being installed or removed.

CAUTION

Failure to follow these cautions may result in property damage.

Do not use damaged housed units.

NOTE:

Do not use excessive force when mounting or dismounting the unit.

Follow all tolerance, fit and torque recommendations.

Always follow the Original Equipment Manufacturer's installation and maintenance guidelines.

Ensure proper alignment.

Never weld housed units.

Do not heat components with an open flame.

Do not operate at bearing temperatures above 250° F (121° C).

For additional Timken product warnings, visit www.timken.com/warnings.

DISCLAIMER

This catalog is provided solely to give you analysis tools and data to assist you in your product selection. Product performance is affected by many factors beyond the control of Timken. Therefore, you must validate the suitability and feasibility of all product selections.

Timken products are sold subject to Timken terms and conditions of sale, which include our limited warranty and remedy. You can find these at https://www.timken.com/legal-notices/termsandconditionsofsale/.

Please consult with your Timken engineer for more information and assistance. Every reasonable effort has been made to ensure the accuracy of the information in this writing, but no liability is accepted for errors, omissions or for any other reason.

ENGINEERING

The following topics are covered within this section:

To view more Timken catalogs, go to www.timken.com/catalogs for interactive versions, or to download the Timken catalog app for your smart phone or mobile device scan the QR code or go to timkencatalogs.com.

HOUSING STYLES

Timken offers you the full range of standard and heavy series ball bearing housed units with set screw locking (UC), tapered bore for use with adapter sleeve (UK) and eccentric locking collar (UEL) mechanisms in metric and imperial sizes:

PILLOW BLOCK UNITS

UCP – 12 mm to 140 mm (½ in. to 4 in.)
UELP – 12 mm to 75 mm (½ in. to 3 in.)
UKP – 20 mm to 80 mm (¾ in. to 3 in.)

FOUR-BOLT FLANGED UNITS

UCF – 12 mm to 140 mm (½ in. to 4 in.)
UELF – 12 mm to 75 mm (½ in. to 3 in.)
UKF – 20 mm to 80 mm (¾ in. to 3 in.)

TWO-BOLT FLANGED UNITS

UCFL – 12 mm to 130 mm (½ in. to 4 in.)
UELFL – 12 mm to 75 mm (½ in. to 3 in.)
UKFL – 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.)
UELFC – 12 mm to 75 mm (½ in. to 3 in.)
UKFC – 20 mm to 80 mm (¾ in. to 3 in.)

TAKE-UP UNITS

UCT – 12 mm to 140 mm (½ in. to 4 in.)
UELT – 12 mm to 75 mm (½ in. to 3 in.)
UKT – 20 mm to 75 mm (¾ in. to 3 in.)

WIDE INNER RING BALL BEARINGS

UC – 12 mm to 140 mm (½ in. to 4 in.)
UEL – 12 mm to 75 mm (½ in. to 3 in.)
UK – 20 mm to 80 mm (¾ 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
½ in. – 4 in.

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

Housing Code
P – Pillow block unit
F – Four-bolt flange unit
FL – Two-bolt flanged unit
T – Take-up unit
FC – Piloted round flanged unit

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

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)

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)

TABLE 1. MODEL LIST

Model		Bearing Bore Dia. Surface (Fixing to Shaft)	Model Code	Shaft Diameter				Dimension Table Page Number
				Min.	Max.	Min.	Max.	
				in.		mm		
	Ball bearing inserts	with set screw locking	UC	½	4.0	**12**	**140**	28, 68
		with eccentric locking collar	UEL	½	3.0	**12**	**75**	42
		tapered bore (with adapter(1))	UK	¾	3.0	**20**	**80**	56
	Pillow block units	with set screw locking	UCP	½	4.0	**12**	**140**	18, 60
		with eccentric locking collar	UELP	½	3.0	**12**	**75**	32
		tapered bore (with adapter (1))	UKP	¾	3.0	**20**	**80**	46
	Four-bolt flange units	with set screw locking	UCF	½	4.0	**12**	**140**	20, 62
		with eccentric locking collar	UELF	½	3.0	**12**	**75**	34
		tapered bore (with adapter (1))	UKF	¾	3.0	**20**	**80**	48
	Two-bolt flange units	with set screw locking	UCFL	½	4.0	**12**	**130**	22, 64
		with eccentric locking collar	UELFL	½	3.0	**12**	**75**	36
		tapered bore (with adapter (1))	UKFL	¾	3.0	**20**	**80**	50
	Take-up units	with set screw locking	UCT	½	4.0	**12**	**140**	26, 66
		with eccentric locking collar	UELT	½	3.0	**12**	**75**	40
		tapered bore (with adapter (1))	UKT	¾	3.0	**20**	**75**	54
	Piloted round flanged units	with set screw locking	UCFC	½	3 ½	**12**	**90**	24
		with eccentric locking collar	UELFC	½	3.0	**12**	**75**	38
		tapered bore (with adapter (1))	UKFC	¾	3.0	**20**	**80**	52

(1) Note: Adapter sleeve of the desired size should be ordered separately.

PRODUCT INFO

Precision formed flinger
Provides the first level of protection against contamination.

High-performance seal
Bonded nitrile rubber seal with an engineered interface to the inner ring.

Hardened and ground seal land
Helps protect against abrasive wear, extending seal life.

Outer ring with spherical outside diameter
Engineered fit between bearing and housing to improve bearing life.

Lubrication delivery system
Precision-machined lubrication groove and holes in the outer ring of the bearing.

Engineered balls and cage
Steel cage provides effective ball guidance and high-temperature service capability.

Wide inner ring
Improved shaft support over narrow rings, improving bearing life and reducing misalignment.

Locking types
Three effective locking styles available:

- Set screw locking
  - Simple installation
  - Ideal for reversing applications
  - Provides maximum holding power
- Eccentric locking
  - Easy installation
  - Reliable and provides secure grip to the shaft
  - Minimize shaft damage
- Adapter sleeve locking
  - Highly concentric and secure locking
  - Eliminates shaft damage
  - Prevent fretting corrosion even under adverse conditions

Cast-iron housing
Incorporates ISO 185 Grade 200 (ASTM A48 Grade No. 30) cast iron.

Premium grease
Prelubricated with high-quality lithium-based grease, compatible with most industrial greases.


High-performance seal
Engineered balls and cage
Outer ring with spherical outside diameter
Lubrication groove
Wide inner ring
Housing (pillow block)

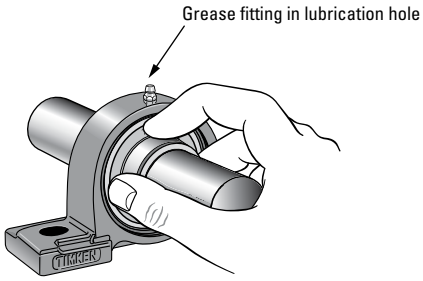
INSTALLATION
UC 200 AND UC 300 SERIES

SET SCREW STYLE UNITS

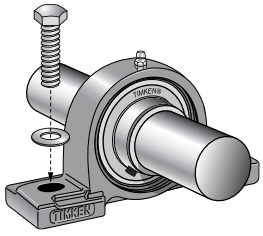
Set screw style units are mounted on the shaft with the help of two set screws in the inner ring located at 120 degrees to each other. The set screw locking mechanism provides ease in mounting and is suitable for applications where the shaft rotation is bidirectional.

Installation procedures for set screw style units are shown below.

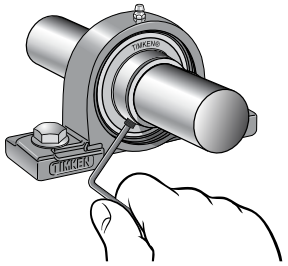
1. Ensure that the shaft is clean, free from burrs, straight and of proper diameter. The bearing should not be mounted on a worn section of the shaft. Using shafts with hardness greater than HRC 45 will reduce effectiveness of locking devices. See table 3 on page 14 for suggested shaft tolerances.
2. Install the supplied grease fitting into the threaded lubrication hole on the housing. Align the bearing in its housing and slide the unit into position on the shaft.



3. Bolt the housing tightly to its mounting supports using an appropriately sized fastener and suggested bolt torque (table 5 on page 14). Flat washers should be used when installing any kind of housed unit. Washers should be properly sized to bolt diameter.



4. Lock the bearing to the shaft by tightening each inner ring set screw incrementally to suggested torque levels (table 4 on page 14).



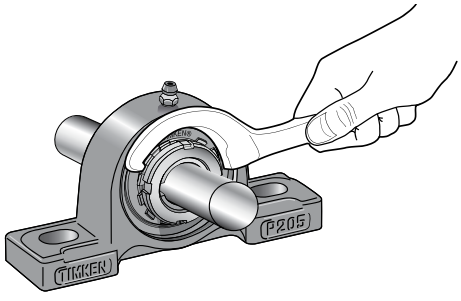
UK SERIES

ADAPTER STYLE UNITS

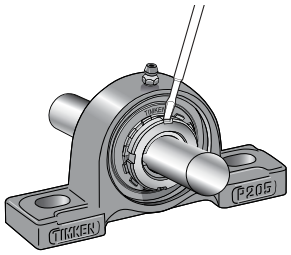
Adapter style units have a tapered bore bearing mounted to the shaft with adapter sleeve assembly, comprised of an adapter sleeve, locknut and lockwasher. This design offers the best shaft concentricity and highest capacity while having the ability to accommodate undersized shafting. These units are most suitable where they are exposed to excessive vibration and impact.

Installation procedures for adapter style units are shown below.

1. Ensure that the shaft is clean, free from burrs, straight and of proper diameter. The bearing should not be mounted on a worn section of the shaft. See table 6 on page 15 for suggested shaft tolerances.
2. Slide the adapter sleeve into position on the shaft. If the sleeve is too tight, expand the slot by using a screwdriver as required.
3. Slide the bearing unit over the adapter sleeve and loosely install the housed unit to its mounting supports using an appropriately sized fastener. Flat washers should be used when installing any kind of housed unit. Washers should be properly sized to bolt diameter.
4. Assemble the lockwasher on the sleeve and thread the locknut onto the adapter sleeve leaving approximately 6.35 mm (¼ in.) between the lockwasher and the inner ring of the bearing.
5. Use a large screwdriver or pry bar to lever the sleeve into position until there is no relative movement between the shaft, adapter sleeve and the bearing's inner ring.
6. Rotate the locknut until hand-tight. Use a spanner wrench to tighten the locknut to the suggested torque (see table 7 on page 15).



7. Bend a tang on the lockwasher into a slot on the locknut to prevent the locknut from loosening.



8. Rotate the shaft by hand while tightening the mounting bolts to make sure the shaft rotates freely. Tighten the housed unit mounting bolts to the recommended bolt tightening torque given in table 5 on page 14.

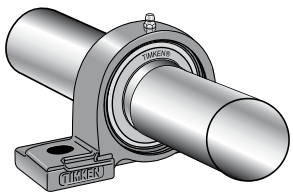
UEL SERIES

ECCENTRIC LOCKING COLLAR UNITS

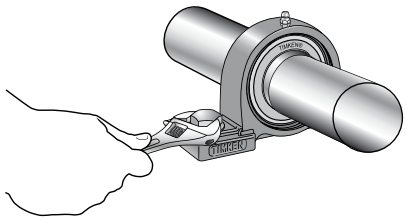
The self-locking collar eliminates the need for locknuts, lockwashers, shoulders, sleeves and adapters. For many agricultural and industrial applications, self-locking collars are the easiest housed units to install. The locking collar has a recessed cam made eccentric to the collar bore. When assembled on the shaft, the locking collar engages or mates with the eccentric cam end of a bearing's inner ring. This assembly grips the shaft tightly with a positive binding action that increases with use. No adjustments of any kind are necessary. The collar set screw provides supplementary locking.

Installation procedures for eccentric locking collar style units are shown below.

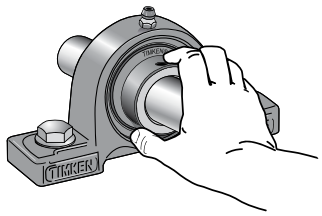
1. Ensure that the shaft is clean, free from burrs, straight and of proper diameter. The bearing should not be mounted on a worn section of the shaft. Using shafts with hardness greater than HRC 45 will reduce effectiveness of locking devices. See table 3 on page 14 for suggested shaft tolerances.
2. Install the supplied grease fitting into the threaded lubrication hole on the housing. Align the bearing in its housing and slide the unit into position on the shaft.



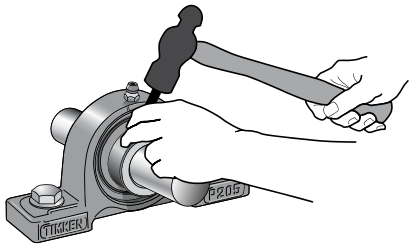
3. Bolt the housing tightly to its mounting supports using an appropriately sized fastener and suggested bolt torque (table 5 on page 14). Flat washers should be used when installing any kind of housed unit. Washers should be properly sized to bolt diameter.



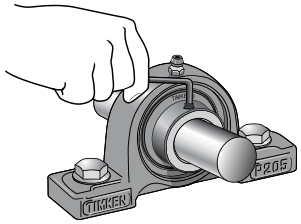
4. Place the eccentric locking collar on the shaft with its cam adjacent to the cam on the end of the bearing inner ring. The eccentric collar's recessed cam will engage the corresponding cam on the bearing inner ring. Turn the collar in the direction of shaft rotation.



5. Using a light weight hammer and a drift pin inserted in the blind hole, tap lightly in the direction of shaft rotation to positively engage the collar. The insert is now locked to the shaft.



6. Tighten the set screw to suggested torque level (see table 4 on page 14).



RELUBRICATION

Timken ball bearing housed units are prelubricated. However, periodic relubrication is advisable in some applications for which these units are designed. Consult your equipment manufacturer's operating manual for the specific relubrication cycle. General guidelines are found in table 2 below.

TABLE 2. GENERAL RELUBRICATION SUGGESTIONS FOR GREASED BEARINGS [1]

Condition	Relubrication Interval
Indoor service	Not required
Outdoor service	Two/three times per year
Severe outdoor exposure	Once a month
High contamination/washdown	Once a week

[1] As a guideline, relubricate until the first indication of grease is observed purging from the bearing.

TECHNICAL DATA

The following tables provide useful installation details related to shaft tolerance, recommended torque for set screws and mounting bolts, bearing internal clearances and the speed ratings.

TABLE 3. SUGGESTED SHAFT TOLERANCE [1]

Shaft Size		Shaft Tolerance	
Over	Incl.	Min.	Max.
mm in.	**mm** in.	**mm** in.	**mm** in.
12 0.500	**18** 0.625	**0** 0.000	**– 0.011** – 0.0004
19 0.750	**30** 1.000	**0** 0.000	**– 0.013** – 0.0005
31 1.125	**50** 1.938	**0** 0.000	**– 0.016** – 0.0006
51 2.000	**80** 3.125	**0** 0.000	**– 0.019** – 0.0007
81 3.250	**120** 3.500	**0** 0.000	**– 0.022** – 0.0009
120 3.50	**140** 4.00	**0** 0.000	**– 0.025** – 0.0010

[1] These are for normal service; for heavy loads, high speeds or vertical shaft applications, consult your equipment manufacturer or your local Timken representative.

For shaft tolerance of taper sleeve inserts, see table 6 on page 15.

TABLE 4. SUGGESTED SET SCREW TIGHTENING TORQUE

Set Screw Size	Tightening Torque	Applicable Bore Ranges		
		UC 200 Series	UEL 200 Series	UC 300 Series
mm in.	**N-m** in.-lbs.			
M6 x 0.75	**4**	201 - 206	204 - 205	305 - 306
¼– 28 UNF	35	201 - 206	–	–
M8 x 1	**9**	207 - 209	206 - 210	307
5⁄16 – 24 UNF	75	207 - 209	–	–
M10 x 1.25	**18**	210 - 212	211 - 212	308 - 309
⅜– 24 UNF	155	210 - 212	–	–
M12 x 1.5	**28**	213 - 218	–	310 - 314
7⁄16 – 20 UNF	248	–	–	–
M14 x 1.5	**35**	–	–	315 - 316
½ – 20 UNF	248	213 - 218	–	–
M16 x 1.5	**56**	–	–	317 - 319
⅝ – 18 UNF	496	–	–	–
M18 x 1.5	**62**	–	–	320 - 324
¾– 16 UNF	549	–	–	–
M20 x 1.5	**83**	–	–	326 - 328
–	–	–	–	–

For tightening torques of adapter locknuts, see table 7 on page 15.

TABLE 5. SUGGESTED MOUNTING BOLT TORQUE

Bolt Size	Tightening Torque	Bolt Size	Tightening Torque
mm	N-m	in.	ft.-lbs.
M10	**12 – 21**	⅜	9 – 16
M12	**21 – 37**	7⁄16	16 – 27
M14	**34 – 60**	½	26 – 44
M16	**53 – 93**	⅝	39 - 69
M20	**104 – 186**	¾	77 – 137
M22	**143 – 256**	⅞	106 – 190
M27	**266 – 478**	1	196 – 353
M30	**360 – 645**	1 ⅛	265 – 476
M33	**494 – 885**	1 ¼	364 – 653
M36	**631 – 1130**	1 ⅜	465 – 833
M39	**740 – 1320**	1 ½	521 - 974
M42	**858 – 1533**	1 ⅝	609 - 1131

Since tapered bore bearings are fixed to the shaft with an adapter, a looser fit is allowable since the adapter sleeve provides excellent concentricity. This makes mounting of the bearing to the shaft much easier.

Table 6 on page 15 shows the dimensional tolerance of the shaft used with tapered bore bearings (with adapters).

TABLE 6. DIMENSIONAL TOLERANCE OF SHAFT USED FOR TAPERED BORE BEARINGS (WITH ADAPTERS)

Shaft Dia.		Dimensional Tolerance of Shaft			
		h8		h9	
Over	Incl.	Min.	Max.	Min.	Max.
mm in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.
18	**30**	**–0.033**	**0**	**-0.052**	**0**
⅝	1 ¼	–0.0013	0	–0.0020	0
30	**50**	**–0.039**	**0**	**-0.062**	**0**
1 ¼	2	–0.0015	0	–0.0024	0
50	**80**	**–0.046**	**0**	**-0.074**	**0**
2	3 ½	–0.0018	0	–0.0029	0

TABLE 7. TIGHTENING TORQUES OF ADAPTER LOCKNUTS (REFERENCE)

Bore Code	UK 200 Series		
	Standard Load		Heavy Load
	Min.	Max.	(Max. x 1.5)
	N-m ft.-lbs.	**N-m** ft.-lbs.	**N-m** ft.-lbs.
5	**25** 18	**38** 28	**56** 41
6	**30** 22	**45** 33	**68** 50
7	**40** 30	**60** 44	**90** 66
8	**50** 37	**75** 55	**113** 83
9	**60** 44	**90** 66	**135** 100
10	**75** 55	**113** 83	**169** 125
11	**100** 74	**150** 111	**225** 166
12	**130** 76	**195** 144	**293** 216
13	**150** 111	**225** 166	**338** 249
15	**170** 125	**255** 188	**383** 282
16	**200** 148	**300** 221	**450** 332

RADIAL INTERNAL CLEARANCE

In the manufacture of ball bearings, it is standard practice to assemble rings and rolling elements with a specified internal clearance. This characteristic is necessary to absorb the loss of clearance due to press fitting the bearing rings at mounting or due to expansion of bearings, shafts and housings. Internal clearance in an application is an important factor that has a significant influence on bearing performance as well as characteristics of heat, noise and vibration.

Table 8 shows the applicable internal clearance for different series bearings and Table 9 shows the available options for internal clearance.

TABLE 8. INTERNAL CLEARANCES - DIFFERENT SERIES

Bearing Bore	Internal Clearance
Cylindrical (UC, UEL)	CN
Tapered (UK)	C3

TABLE 9. INTERNAL CLEARANCE

Nominal Bearing Bore Dia. d		Radial Internal Clearance			
		CN		C3	
Over	Incl.	Min.	Max.	Min.	Max.
µm					
10	**18**	**3**	**18**	**11**	**25**
18	**24**	**5**	**20**	**13**	**28**
24	**30**	**5**	**20**	**13**	**28**
30	**40**	**6**	**20**	**15**	**33**
40	**50**	**6**	**23**	**18**	**36**
50	**65**	**8**	**28**	**23**	**43**
65	**80**	**10**	**30**	**25**	**51**
80	**100**	**12**	**36**	**30**	**58**
100	**120**	**15**	**41**	**36**	**66**
120	**140**	**18**	**48**	**41**	**81**

Remarks

1. Radial internal clearance given in the above table comply with JIS B 1558.
2. Increase in the internal clearance caused due to the applied measured load is given in the Table 10 below. The correction is applicable to the maximum clearance.

TABLE 10. CORRECTION OF CLEARANCE

Nominal Bearing Bore Dia. d		Measured Load	Correction of Clearance	
Over	Incl.		CN	C3
mm		**N**	**µm**	
2.5	**18**	**24.5**	**4**	**4**
18	**50**	**49**	**5**	**6**
50	**280**	**147**	**8**	**9**

SPEED RATINGS

There's no precise method for determining the maximum speed at which a ball bearing can operate. Bearing characteristics and features of surrounding parts, shafts, housings and other components, as well as basic service conditions, are all variables which are dependent upon each other for continued satisfactory high-speed performance.

The safe operating speed of a bearing is often limited by the temperature within the bearing, which in turn, dependent upon the temperature surrounding the application, accuracy of the bearing, shafts, housings, auxiliary parts, etc., and the type and amount of lubricant. Radial bearings with proper internal refinements will operate at high speeds for longer periods if properly installed and lubricated.

Below table shows the standard allowable rotating speeds of ball bearing units.

TABLE 11. ALLOWABLE ROTATING SPEED FOR HOUSED UNITS

Bore Dia. Code	Diameter Series	
	2	3
	RPM	
01	5800	-
02	5800	-
03	5800	-
04	5800	-
05	5100	4600
06	4300	3900
07	3700	3400
08	3300	3100
09	3100	2700
10	2800	2400
11	2500	2300
12	2300	2100
13	2200	1900
14	2100	1800
15	2000	1700
16	1800	1600
17	1700	1500
18	1600	1400
19	-	1400
20	-	1300
21	-	1200
22	-	1100
24	-	1100
26	-	1000
28	-	910

Remarks:

When a bearing unit is used with excessively loose fit, the allowable rotating speed must be calculated by multiplying it by the fitting factor f_c shown in the below table.

TABLE 12. FITTING FACTOR f_c FOR HOUSED UNITS

Type of Ball Bearing Units	Fitting Factor f_c					
	Shaft Tolerance Range Class					
	h5, j5	j6	h6	h7	h8	h9
Set screw locking, UC	-	1	1	0.8	0.5	0.2
Eccentric collar locking, UEL	1	-	-	-	-	-
Tapered bore for use with adapter sleeve, UK	-	-	-	-	1	1

UC 200 INDUSTRIAL SET SCREW LOCKING SERIES

The following topics are covered within this section:

UCP 200 INDUSTRIAL SET SCREW LOCKING SERIES
CAST-IRON PILLOW BLOCK HOUSED UNITS

- UCP pillow blocks are suggested for industrial applications where normal loads are encountered.
- Compact, one-piece housing with two-bolt mounting can be installed in any position and makes bearing replacement easy.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCP series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing and base-to-center height dimensions are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Pillow Block Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	H	L	L_1	A	H_1	J	H_2	S	B	N	N_1		
				C_r	C_{0r}													
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UCP201	UC201															
	½	UCP201-8	UC201-8															
15		UCP202	UC202	**12.8** 2878	**6.7** 1495	**30.2** 1 3⁄16	**127** 5	**36** 1 13⁄32	**38** 1 ½	**16** 5⁄8	**95** 3 ¾	**60** 2 3⁄8	**12.7** 0.500	**31.0** 1.220	**13** ½	**18** 23⁄32	**M10** 3⁄8	**0.6** 1.3
	5⁄8	UCP202-10	UC202-10															
17		UCP203	UC203															
	¾	UCP204-12	UC204-12	**12.8** 2878	**6.7** 1495	**33.3** 1 5⁄16	**127** 5	**36** 1 13⁄32	**38** 1 ½	**16** 5⁄8	**95** 3 ¾	**65** 2 9⁄16	**12.7** 0.500	**31.0** 1.220	**13** ½	**18** 23⁄32	**M10** 3⁄8	**0.7** 1.5
20		UCP204	UC204															
	7⁄8	UCP205-14	UC205-14															
	15⁄16	UCP205-15	UC205-15	**14** 3147	**7.85** 1765	**36.5** 1 7⁄16	**140** 5 ½	**38** 1 ½	**38** 1 ½	**16** 5⁄8	**105** 4 1⁄8	**70** 2 49⁄64	**14.3** 0.563	**34.1** 1.343	**13** ½	**18** 23⁄32	**M10** 3⁄8	**0.8** 1.8
25		UCP205	UC205															
	1	UCP205-16	UC205-16															
	1 1⁄8	UCP206-18	UC206-18															
30		UCP206	UC206	**19.5** 4384	**11.3** 2540	**42.9** 1 11⁄16	**165** 6 ½	**48** 1 7⁄8	**48** 1 7⁄8	**17** 21⁄32	**121** 4 ¾	**84** 3 5⁄16	**15.9** 0.626	**38.1** 1.500	**17** 21⁄32	**21** 13⁄16	**M14** ½	**1.3** 2.9
	1 3⁄16	UCP206-19	UC206-19															
	1 ¼	UCP206-20	UC206-20															
	1 ¼	UCP207-20	UC207-20															
	1 5⁄16	UCP207-21	UC207-21															
	1 3⁄8	UCP207-22	UC207-22	**25.7** 5778	**15.4** 3462	**47.6** 1 7⁄8	**167** 6 9⁄16	**47** 1 27⁄32	**48** 1 7⁄8	**18** 23⁄32	**127** 5	**95** 3 ¾	**17.5** 0.689	**42.9** 1.689	**17** 21⁄23	**21** 13⁄16	**M14** ½	**1.6** 3.5
35		UCP207	UC207															
	1 7⁄16	UCP207-23	UC207-23															
	1 ½	UCP208-24	UC208-24															
	1 9⁄16	UCP208-25	UC208-25	**29.1** 6542	**17.8** 4002	**49.2** 1 15⁄16	**184** 7 ¼	**53** 2 3⁄32	**54** 2 1⁄8	**18** 23⁄32	**137** 5 13⁄32	**98** 3 27⁄32	**19.0** 0.748	**49.2** 1.937	**17** 21⁄23	**21** 13⁄16	**M14** ½	**2.0** 4.4
40		UCP208	UC208															
	1 5⁄8	UCP209-26	UC209-26															
	1 11⁄16	UCP209-27	UC209-27	**34.1** 7666	**21.3** 4788	**54.0** 2 1⁄8	**190** 7 15⁄32	**55** 2 5⁄32	**54** 2 1⁄8	**20** 25⁄32	**146** 5 ¾	**106** 4 3⁄16	**19.0** 0.748	**49.2** 1.937	**17** 21⁄23	**21** 13⁄16	**M14** ½	**2.2** 4.9
	1 ¾	UCP209-28	UC209-28															
45		UCP209	UC209															

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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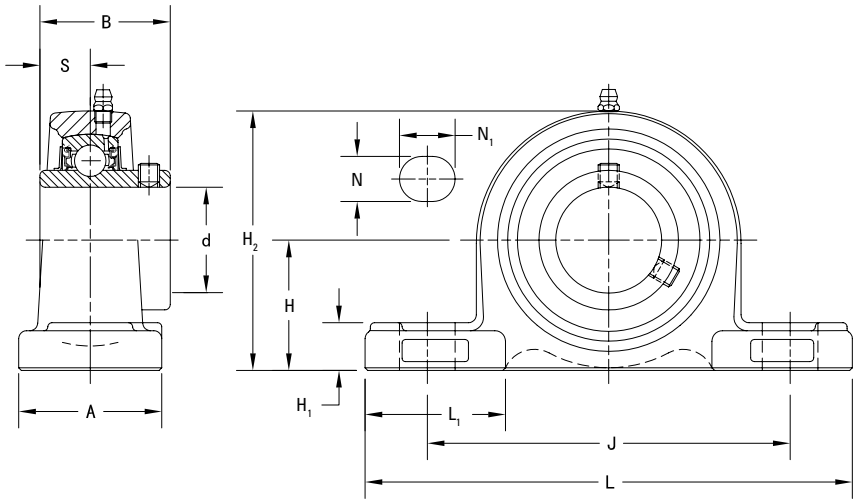

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Shaft Dia. d		Pillow Block Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	H	L	L_1	A	H_1	J	H_2	S	B	N	N_1		
				C_r	C_{0r}													
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 7/8	UCP210-30	UC210-30															
	1 15/16	UCP210-31	UC210-31	**35.1**	**23.3**	**57.2**	**206**	**60**	**60**	**21**	**159**	**113**	**19.0**	**51.6**	**20**	**22**	**M16**	**2.9**
50		UCP210	UC210	7891	5238	2 1/4	8 1/8	2 3/8	2 3/8	13/16	6 1/4	4 7/16	0.748	2.031	25/32	7/8	5/8	6.4
	2	UCP210-32	UC210-32															
	2	UCP211-32	UC211-32															
	2 1/8	UCP211-34	UC211-34	**43.4**	**29.4**	**63.5**	**219**	**65**	**60**	**23**	**171**	**125**	**22.2**	**55.6**	**20**	**22**	**M16**	**3.6**
55		UCP211	UC211	9757	6609	2 1/2	8 5/8	2 9/16	2 3/8	29/32	6 23/32	4 29/32	0.874	2.189	25/32	7/8	5/8	7.9
	2 3/16	UCP211-35	UC211-35															
	2 1/4	UCP212-36	UC212-36															
60		UCP212	UC212	**52.4**	**36.2**	**69.8**	**241**	**73**	**70**	**25**	**184**	**138**	**25.4**	**65.1**	**20**	**25**	**M16**	**4.9**
	2 3/8	UCP212-38	UC212-38	11780	8138	2 3/4	9 1/2	2 7/8	2 3/4	31/32	7 1/4	5 7/16	1.000	2.563	25/32	31/32	5/8	10.8
	2 7/16	UCP212-39	UC212-39															
	2 1/2	UCP213-40	UC213-40	**57.2**	**40.1**	**76.2**	**265**	**78**	**70**	**27**	**203**	**150**	**25.4**	**65.1**	**25**	**30**	**M20**	**5.9**
65		UCP213	UC213	12859	9015	3	10 7/16	3 1/16	2 3/4	1 1/16	8	5 29/32	1.000	2.563	31/32	1 3/16	3/4	13.0
	2 3/4	UCP214-44	UC214-44	**62.2**	**44.1**	**79.4**	**266**	**75**	**72**	**27**	**210**	**157**	**30.2**	**74.6**	**25**	**30**	**M20**	**6.8**
70		UCP214	UC214	13983	9914	3 1/8	10 15/32	2 61/64	2 27/32	1 1/16	8 9/32	6 3/16	1.189	2.937	31/32	1 3/16	3/4	15.0
	2 15/16	UCP215-47	UC215-47															
75		UCP215	UC215	**67.4**	**48.3**	**82.6**	**275**	**78**	**74**	**28**	**217**	**162**	**33.3**	**77.8**	**25**	**30**	**M20**	**7.4**
	3	UCP215-48	UC215-48	15152	10858	3 1/4	10 13/16	3 1/16	2 29/32	1 3/32	8 17/32	6 3/8	1.311	3.063	31/32	1 3/16	3/4	16.3
	3 1/8	UCP216-50	UC216-50	**72.7**	**53.0**	**88.9**	**292**	**83**	**78**	**30**	**232**	**174**	**33.3**	**82.6**	**25**	**35**	**M20**	**9.0**
80		UCP216	UC216	16344	11915	3 1/2	11 1/2	3 9/32	3 1/16	1 3/16	9 1/8	6 27/32	1.311	3.252	31/32	1 3/8	3/4	19.8
	3 1/4	UCP217-52	UC217-52	**84**	**61.9**	**95.2**	**310**	**87**	**83**	**32**	**247**	**185**	**34.1**	**85.7**	**25**	**35**	**M20**	**10.8**
85		UCP217	UC217	18884	13916	3 3/4	12 7/32	3 7/16	3 9/32	1 1/4	9 23/32	7 9/32	1.343	3.374	31/32	1 3/8	3/4	23.8
	3 1/2	UCP218-56	UC218-56	**96.1**	**71.5**	**101.6**	**327**	**94**	**88**	**33**	**262**	**198**	**39.7**	**96.0**	**27**	**40**	**M22**	**13.9**
90		UCP218	UC218	21604	16074	4	12 7/8	3 11/16	3 15/32	1 5/16	10 5/16	7 25/32	1.563	3.780	1 1/16	1 9/16	7/8	30.6

UCF 200 INDUSTRIAL SET SCREW LOCKING SERIES
CAST-IRON FOUR-BOLT FLANGED HOUSED UNITS

- UCF four-bolt flanged units are suggested for industrial applications where normal loads are encountered.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCF series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
				Dynamic	Static	L	J	A_1	A	A_0	S	B	A_2	N		
				C_r	C_{0r}											
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UCF201	UC201													
	½	UCF201-8	UC201-8													
15		UCF202	UC202													
	⅝	UCF202-10	UC202-10	**12.8** 2878	**6.7** 1495	**86** 3 3/8	**64** 2 33/64	**11** 7/16	**25.5** 1	**33.3** 1 5/16	**12.7** 0.500	**31.0** 1.220	**15** 19/32	**12** 15/32	**M10** 3/8	**0.6** 1.4
17		UCF203	UC203													
	¾	UCF-204-12	UC204-12													
20		UCF-204	UC204													
	⅞	UCF205-14	UC205-14													
	15/16	UCF205-15	UC205-15	**14.0** 3147	**7.9** 1765	**95** 3 ¾	**70** 2 ¾	**13** ½	**27.0** 1/16	**35.8** 1 13/32	**14.3** 0.563	**34.1** 1.343	**16** ⅝	**12** 15/32	**M10** 3/8	**0.8** 1.8
25		UCF205	UC205													
	1	UCF205-16	UC205-16													
	1 ⅛	UCF206-18	UC206-18													
30		UCF206	UC206	**19.5** 4385	**11.3** 2540	**108** 4 ¼	**83** 3 17/64	**13** ½	**31.0** 1 7/32	**40.2** 1 19/32	**15.9** 0.626	**38.1** 1.500	**18** 45/64	**12** 15/32	**M10** 3/8	**1.2** 2.6
	1 3/16	UCF206-19	UC206-19													
	1 ¼	UCF206-20	UC206-20													
	1 ¼	UCF207-20	UC207-20													
	1 5/16	UCF207-21	UC207-21													
	1 ⅜	UCF207-22	UC207-22	**25.7** 5778	**15.4** 3462	**117** 4 19/32	**92** 3 ⅝	**15** 19/32	**34.0** 1 11/32	**44.4** 1 ¾	**17.5** 0.689	**42.9** 1.689	**19** ¾	**14** 35/64	**M12** 7/16	**1.5** 3.3
35		UCF207	UC207													
	1 7/16	UCF207-23	UC207-23													
	1 ½	UCF208-24	UC208-24													
	1 9/16	UCF208-25	UC208-25	**29.1** 6542	**17.8** 4002	**130** 5 ⅛	**102** 4 1/64	**15** 19/32	**36.0** 1 13/32	**51.2** 2 1/32	**19.0** 0.748	**49.2** 1.937	**21** 53/64	**16** ⅝	**M14** ½	**1.9** 4.2
40		UCF208	UC208													
	1 ⅝	UCF209-26	UC209-26													
	1 11/16	UCF209-27	UC209-27	**34.1** 7666	**21.3** 4788	**137** 5 13/32	**105** 4 9/64	**16** ⅝	**38.0** 1 ½	**52.2** 2 1/16	**19.0** 0.748	**49.2** 1.937	**22** 55/64	**16** ⅝	**M14** ½	**2.2** 4.9
	1 ¾	UCF209-28	UC209-28													
45		UCF209	UC209													

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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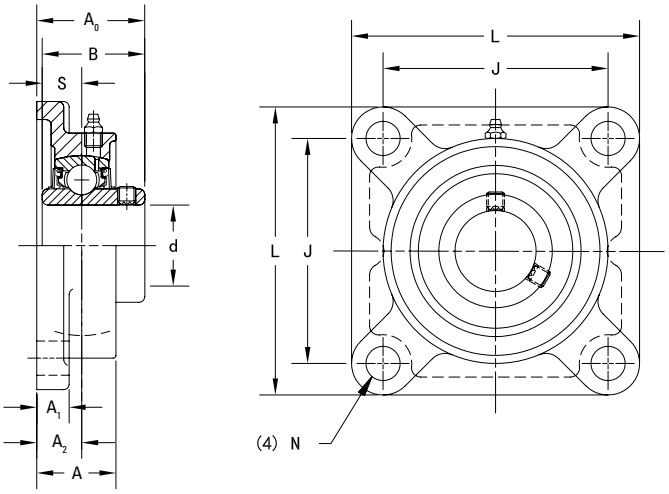

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Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
				Dynamic	Static	L	J	A_1	A	A_0	S	B	A_2	N		
				C_r	C_{0r}											
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 7/8	UCF210-30	UC210-30													
	1 15/16	UCF210-31	UC210-31	**35.1**	**23.3**	**143**	**111**	**16**	**40**	**54.6**	**19.0**	**51.6**	**22**	**16**	**M14**	**2.5**
50		UCF210	UC210	7891	5238	5 5/8	4 3/8	5/8	1 9/16	2 5/32	0.748	2.031	55/64	5/8	1/2	5.5
	2	UCF210-32	UC210-32													
	2	UCF211-32	UC211-32													
	2 1/8	UCF211-34	UC211-34	**43.4**	**29.4**	**162**	**130**	**18**	**43**	**58.4**	**22.2**	**55.6**	**25**	**19**	**M16**	**3.4**
55		UCF211	UC211	9757	6609	6 3/8	5 1/8	23/32	1 11/16	2 19/64	0.874	2.189	63/64	3/4	5/8	7.5
	2 3/16	UCF211-35	UC211-35													
	2 1/4	UCF212-36	UC212-36													
60		UCF212	UC212	**52.4**	**36.2**	**175**	**143**	**18**	**48**	**68.7**	**25.4**	**65.1**	**29**	**19**	**M16**	**4.2**
	2 3/8	UCF212-38	UC212-38	11780	8138	6 7/8	5 5/8	23/32	1 7/8	2 45/64	1.000	2.563	1 9/64	3/4	5/8	9.3
	2 7/16	UCF212-39	UC212-39													
	2 1/2	UCF213-40	UC213-40	**57.2**	**40.1**	**187**	**149**	**22**	**50**	**69.7**	**25.4**	**65.1**	**30**	**19**	**M16**	**5.2**
65		UCF213	UC213	12859	9015	7 3/8	5 55/64	7/8	1 31/32	2 3/4	1.000	2.563	1 3/16	3/4	5/8	11.5
	2 3/4	UCF214-44	UC214-44	**62.2**	**44.1**	**193**	**152**	**22**	**54**	**75.4**	**30.2**	**74.6**	**31**	**19**	**M16**	**5.9**
70		UCF214	UC214	13983	9914	7 19/32	5 63/64	7/8	2 1/8	2 31/32	1.189	2.937	1 7/32	3/4	5/8	13.0
	2 15/16	UCF215-47	UC215-47													
75		UCF215	UC215	**67.4**	**48.3**	**200**	**159**	**22**	**56**	**78.5**	**33.3**	**77.8**	**34**	**19**	**M16**	**6.4**
	3	UCF215-48	UC215-48	15152	10858	7 7/8	6 17/64	7/8	2 7/32	3 3/32	1.311	3.060	1 11/32	3/4	5/8	14.1
	3 1/8	UCF216-50	UC216-50	**72.7**	**53.0**	**208**	**165**	**22**	**58**	**83.3**	**33.3**	**82.6**	**34**	**23**	**M20**	**7.3**
80		UCF216	UC216	16344	11915	8 3/16	6 1/2	7/8	2 9/32	3 9/32	1.311	3.252	1 11/32	29/32	3/4	16.1
	3 1/4	UCF217-52	UC217-52	**84.0**	**61.9**	**220**	**175**	**24**	**63**	**87.6**	**34.1**	**85.7**	**36**	**23**	**M20**	**8.9**
85		UCF217	UC217	18884	13916	8 21/32	6 57/64	15/16	2 15/32	3 29/64	1.343	3.374	1 27/64	29/32	3/4	19.6
	3 1/2	UCF218-56	UC218-56	**96.1**	**71.5**	**235**	**187**	**25**	**68**	**96.3**	**39.7**	**96.0**	**40**	**23**	**M20**	**11.4**
90		UCF218	UC218	21604	16074	9 1/4	7 23/64	31/32	2 11/16	3 25/32	1.563	3.780	1 37/64	29/32	3/4	25.1

UCFL 200 INDUSTRIAL SET SCREW LOCKING SERIES
CAST-IRON TWO-BOLT FLANGED HOUSED UNITS

- UCFL two-bolt flanged units are suggested for industrial applications where normal loads are encountered.
- This series is primarily designed for applications where the mounting area is restricted.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCFL series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
				Dynamic	Static	H	J	A_1	A	A_0	L	A_2	S	B	N		
				C_r	C_{0r}												
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UCFL201	UC201														
	½	UCFL201-8	UC201-8														
15		UCFL202	UC202														
	⅝	UCFL202-10	UC202-10	**12.8** 2878	**6.7** 1495	**113** 4 7⁄16	**90** 3 35⁄64	**11** 7⁄16	**25.5** 1	**33.3** 1 5⁄16	**60** 2 3⁄8	**15** 19⁄32	**12.7** 0.500	**31.0** 1.220	**12** 15⁄32	**M10** 3⁄8	**0.5** 1.1
17		UCFL203	UC203														
	¾	UCFL204-12	UC204-12														
20		UCFL204	UC204														
	⅞	UCFL205-14	UC205-14														
	15⁄16	UCFL205-15	UC205-15	**14.0** 3147	**7.9** 1765	**130** 5 1⁄8	**99** 3 57⁄64	**13** ½	**27.0** 1 1⁄16	**35.8** 1 13⁄32	**68** 2 11⁄16	**16** ⅝	**14.3** 0.563	**34.1** 1.343	**16** ⅝	**M14** ½	**0.6** 1.3
25		UCFL205	UC205														
	1	UCFL205-16	UC205-16														
	1 ⅛	UCFL206-18	UC206-18														
30		UCFL206	UC206	**19.5** 4385	**11.3** 2540	**148** 5 13⁄16	**117** 4 39⁄64	**13** ½	**31.0** 1 7⁄32	**40.2** 1 37⁄64	**80** 3 5⁄32	**18** 45⁄64	**15.9** 0.626	**38.1** 1.500	**16** ⅝	**M14** ½	**1.0** 2.2
	1 3⁄16	UCFL206-19	UC206-19														
	1 ¼	UCFL206-20	UC206-20														
	1 ¼	UCFL207-20	UC207-20														
	1 5⁄16	UCFL207-21	UC207-21														
	1 ⅜	UCFL207-22	UC207-22	**25.7** 5778	**15.4** 3462	**161** 6 11⁄32	**130** 5 1⁄8	**14** 9⁄16	**34.0** 1 11⁄32	**44.4** 1 ¾	**90** 3 17⁄32	**19** ¾	**17.5** 0.689	**42.9** 1.689	**16** ⅝	**M14** ½	**1.2** 2.6
35		UCFL207	UC207														
	1 7⁄16	UCFL207-23	UC207-23														
	1 ½	UCFL208-24	UC208-24														
	1 9⁄16	UCFL208-25	UC208-25	**29.1** 6542	**17.8** 4002	**175** 6 7⁄8	**144** 5 43⁄64	**14** 9⁄16	**36.0** 1 13⁄32	**51.2** 2 1⁄64	**100** 3 15⁄16	**21** 53⁄64	**19.0** 0.748	**49.2** 1.937	**16** ⅝	**M14** ½	**1.6** 3.5
40		UCFL208	UC208														
	1 ⅝	UCFL209-26	UC209-26														
	1 11⁄16	UCFL209-27	UC209-27	**34.1** 7666	**21.3** 4788	**188** 7 13⁄32	**148** 5 53⁄64	**15** 19⁄32	**38.0** 1 ½	**52.2** 2 1⁄16	**108** 4 ¼	**22** 55⁄64	**19.0** 0.748	**49.2** 1.937	**19** ¾	**M16** ⅝	**1.9** 4.2
45		UCFL209	UC209														

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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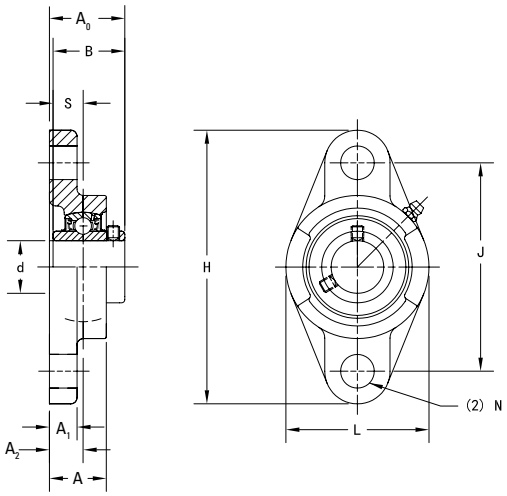

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Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
				Dynamic	Static	H	J	A_1	A	A_0	L	A_2	S	B	N		
				C_r	C_{0r}												
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 7/8	UCFL210-30	UC210-30														
	1 15/16	UCFL210-31	UC210-31	**35.1**	**23.3**	**197**	**157**	**15**	**40**	**54.6**	**115**	**22**	**19.0**	**51.6**	**19**	**M16**	**2.2**
50		UCFL210	UC210	7891	5238	7 3/4	6 3/16	19/32	1 9/16	2 5/32	4 17/32	55/64	0.748	2.031	3/4	5/8	4.9
	2	UCFL210-32	UC210-32														
	2	UCFL211-32	UC211-32														
	2 1/8	UCFL211-34	UC211-34	**43.4**	**29.4**	**224**	**184**	**18**	**43**	**58.4**	**130**	**25**	**22.2**	**55.6**	**19**	**M16**	**3.3**
55		UCFL211	UC211	9757	6609	8 13/16	7 1/4	23/32	1 11/16	2 19/64	5 1/8	63/64	0.874	2.189	3/4	5/8	7.3
	2 3/16	UCFL211-35	UC211-35														
	2 1/4	UCFL212-36	UC212-36														
60		UCFL212	UC212	**52.4**	**36.2**	**250**	**202**	**18**	**48**	**68.7**	**140**	**29**	**25.4**	**65.1**	**23**	**M20**	**4.2**
	2 3/8	UCFL212-38	UC212-38	11780	8138	9 27/32	7 61/64	23/32	1 7/8	2 45/64	5 1/2	1 9/64	1.000	2.563	29/32	3/4	9.3
	2 7/16	UCFL212-39	UC212-39														
	2 1/2	UCFL213-40	UC213-40	**57.2**	**40.1**	**258**	**210**	**20**	**50**	**69.7**	**155**	**30**	**25.4**	**65.1**	**23**	**M20**	**5.1**
65		UCFL213	UC213	12859	9015	10 5/32	8 17/64	25/32	1 31/32	2 3/4	6 3/32	1 3/16	1.000	2.563	29/32	3/4	11.2
	2 3/4	UCFL214-44	UC214-44	**62.2**	**44.1**	**265**	**216**	**20**	**54**	**75.4**	**160**	**31**	**30.2**	**74.6**	**23**	**M20**	**5.7**
70		UCFL214	UC214	13983	9914	10 7/16	8 1/2	25/32	2 1/8	2 31/32	6 5/16	1 7/32	1.189	2.937	29/32	3/4	12.6
	2 15/16	UCFL215-47	UC215-47														
75		UCFL215	UC215	**67.4**	**48.3**	**275**	**225**	**20**	**56**	**78.5**	**165**	**34**	**33.3**	**77.8**	**23**	**M20**	**6.4**
	3	UCFL215-48	UC215-48	15152	10858	12 13/16	8 55/64	25/32	2 7/32	3 3/32	6 1/2	1 11/32	1.311	3.063	29/32	3/4	14.1
	3 1/8	UCFL216-50	UC216-50	**72.7**	**53.0**	**290**	**233**	**20**	**58**	**83.3**	**180**	**34**	**33.3**	**82.6**	**25**	**M22**	**7.8**
80		UCFL216	UC216	16344	11915	11 13/32	9 11/64	25/32	2 9/32	3 9/32	7 3/32	1 11/32	1.311	3.252	63/64	7/8	17.2
	3 1/4	UCFL217-52	UC217-52	**84.0**	**61.9**	**305**	**248**	**22**	**63**	**87.6**	**190**	**36**	**34.1**	**85.7**	**25**	**M22**	**9.8**
85		UCFL217	UC217	18884	13916	12	9 49/64	7/8	2 15/32	3 29/64	7 15/32	1 27/64	1.343	3.374	63/64	7/8	21.6
	3 1/2	UCFL218-56	UC218-56	**96.1**	**71.5**	**320**	**265**	**23**	**68**	**96.3**	**205**	**40**	**39.7**	**96.0**	**25**	**M22**	**12.3**
90		UCFL218	UC218	21604	16074	12 19/32	10 7/16	29/32	2 11/16	3 51/64	8 1/16	1 37/64	1.563	3.780	63/64	7/8	27.1

UCFC 200 INDUSTRIAL SET SCREW LOCKING SERIES
CAST-IRON PILOTED ROUND FLANGED HOUSED UNITS

- UCFC piloted flanged units are suggested for industrial applications where normal loads are encountered.
- UCFC piloted round flanged units ensure accurate mounting fits and provide better support for heavy loads.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCFC series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for industrial applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Round Flange Cartridge Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	L	J	J_1	A_1	A_2	A_3	A_4	H_3	S	B	N		
				C_r	C_{0r}													
mm	in.			**kN** lbs.	**kN** lbs.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs.
12		UCFC201	UC201	**12.8** 2878	**6.65** 1495	**100** 3 15⁄16	**78** 3 5⁄64	**55.1** 2 11⁄64	**20.5** 13⁄16	**10** 25⁄64	**5** 13⁄64	**28.3** 1 1⁄8	**62** 2.441	**12.7** 0.500	**31.0** 1.220	**12** 15⁄32	**M10** 3⁄8	**0.7** 1.5
	½	UCFC201-8	UC201-8															
15		UCFC202	UC202															
	5⁄8	UCFC202-10	UC202-10															
17		UCFC203	UC203															
	¾	UCFC204-12	UC204-12															
20		UCFC204	UC204															
	7⁄8	UCFC205-14	UC205-14	**14** 3147	**7.85** 1765	**115** 4 17⁄32	**90** 3 35⁄64	**63.6** 2 ½	**21.0** 13⁄16	**10** 25⁄64	**6** 15⁄64	**29.8** 1 3⁄16	**70** 2.756	**14.3** 0.563	**34.1** 1.343	**12** 15⁄32	**M10** 3⁄8	**1.0** 2.2
	15⁄16	UCFC205-15	UC205-15															
25		UCFC205	UC205															
	1	UCFC205-16	UC205-16															
	1 1⁄8	UCFC206-18	UC206-18	**19.5** 4384	**11.3** 2540	**125** 4 29⁄32	**100** 3 15⁄16	**70.7** 2 25⁄32	**23.0** 29⁄32	**10** 25⁄64	**8** 5⁄16	**32.2** 1 9⁄32	**80** 3.150	**15.9** 0.626	**38.1** 1.500	**12** 15⁄32	**M10** 3⁄8	**1.3** 2.9
30		UCFC206	UC206															
	1 3⁄16	UCFC206-19	UC206-19															
	1 ¼	UCFC206-20	UC206-20															
	1 ¼	UCFC207-20	UC207-20	**25.7** 5778	**15.4** 3462	**135** 5 5⁄16	**110** 4 21⁄64	**77.8** 3 1⁄16	**26.0** 1 1⁄32	**11** 7⁄16	**8** 5⁄16	**36.4** 1 7⁄16	**90** 3.543	**17.5** 0.689	**42.9** 1.689	**14** 35⁄64	**M12** 7⁄16	**1.7** 3.7
	1 5⁄16	UCFC207-21	UC207-21															
	1 3⁄8	UCFC207-22	UC207-22															
35		UCFC207	UC207															
	1 7⁄16	UCFC207-23	UC207-23															
	1 ½	UCFC208-24	UC208-24	**29.1** 6542	**17.8** 4002	**145** 5 23⁄32	**120** 4 23⁄32	**84.8** 3 11⁄32	**26.0** 1 1⁄32	**11** 7⁄16	**10** 25⁄64	**41.2** 1 5⁄8	**100** 3.937	**19.0** 0.748	**49.2** 1.937	**14** 35⁄64	**M12** 7⁄16	**2.0** 4.4
	1 9⁄16	UCFC208-25	UC208-25															
40		UCFC208	UC208															
	1 5⁄8	UCFC209-26	UC209-26	**34.1** 7666	**21.3** 4788	**160** 6 5⁄16	**132** 5 13⁄64	**93.3** 3 43⁄64	**26.0** 1 1⁄32	**10** 25⁄64	**12** 15⁄32	**40.2** 1 19⁄32	**105** 4.134	**19.0** 0.748	**49.2** 1.937	**16** 5⁄8	**M14** ½	**2.6** 5.7
	1 11⁄16	UCFC209-27	UC209-27															
	1 ¾	UCFC209-28	UC209-28															
45		UCFC209	UC209															

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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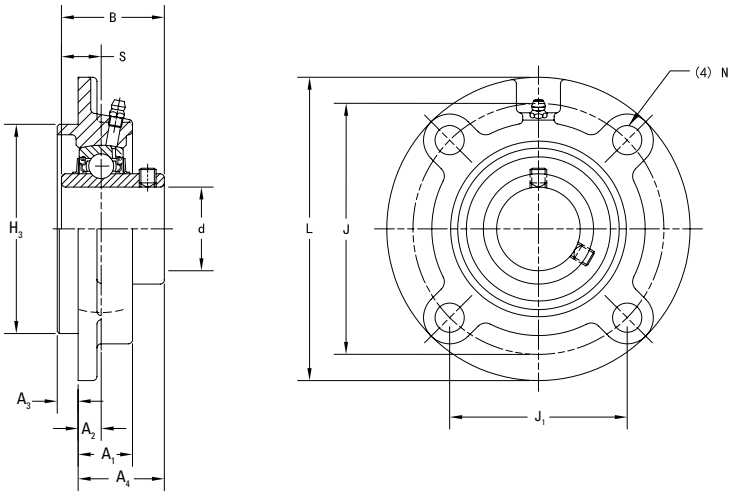

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Shaft Dia. d		Round Flange Cartridge Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	L	J	J_1	A_1	A_2	A_3	A_4	H_3	S	B	N		
				C_r	C_{0r}													
mm	in.			**kN** lbs.	**kN** lbs.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs.
	1 7/8	UCFC210-30	UC210-30															
	1 15/16	UCFC210-31	UC210-31	**35.1**	**23.3**	**165**	**138**	**97.6**	**28**	**10**	**12**	**42.6**	**110**	**19.0**	**51.6**	**16**	**M14**	**2.9**
50		UCFC210	UC210	7891	5238	6 1/2	5 7/16	3 27/32	1 3/32	25/64	15/32	1 11/16	4.331	0.748	2.031	5/8	1/2	6.4
	2	UCFC210-32	UC210-32															
	2	UCFC211-32	UC211-32															
	2 1/8	UCFC211-34	UC211-34	**43.4**	**29.4**	**185**	**150**	**106.1**	**31**	**13**	**12**	**46.4**	**125**	**22.2**	**55.6**	**19**	**M16**	**4.2**
55		UCFC211	UC211	9757	6609	7 9/32	5 29/32	4 11/64	1 7/32	33/64	15/32	1 13/16	4.921	0.874	2.189	3/4	5/8	9.3
	2 3/16	UCFC211-35	UC211-35															
	2 1/4	UCFC212-36	UC212-36															
60		UCFC212	UC212	**52.4**	**36.2**	**195**	**160**	**113.1**	**36**	**17**	**12**	**56.7**	**135**	**25.4**	**65.1**	**19**	**M16**	**5.0**
	2 3/8	UCFC212-38	UC212-38	11780	8138	7 11/16	6 19/64	4 29/64	1 13/32	43/64	15/32	2 7/32	5.315	1.000	2.563	3/4	5/8	11.0
	2 7/16	UCFC212-39	UC212-39															
	2 1/2	UCFC213-40	UC213-40	**57.2**	**40.1**	**205**	**170**	**120.2**	**36**	**16**	**14**	**55.7**	**145**	**25.4**	**65.1**	**19**	**M16**	**5.6**
65		UCFC213	UC213	12859	9015	8 1/16	6 11/16	4 47/64	1 13/32	5/8	35/64	2 3/16	5.709	1.000	2.563	3/4	5/8	12.3
	2 3/4	UCFC214-44	UC214-44	**62.2**	**44.1**	**215**	**177**	**125.1**	**40**	**17**	**14**	**61.4**	**150**	**30.2**	**74.6**	**19**	**M16**	**6.8**
70		UCFC214	UC214	13983	9914	8 15/32	6 31/32	4 59/64	1 37/64	43/64	35/64	2 13/32	5.906	1.189	2.937	3/4	5/8	15.0
	2 15/16	UCFC215-47	UC215-47															
75		UCFC215	UC215	**67.4**	**48.3**	**220**	**184**	**130.1**	**40**	**18**	**16**	**62.5**	**160**	**33.3**	**77.8**	**19**	**M16**	**7.2**
	3	UCFC215-48	UC215-48	15152	10858	8 21/32	7 1/4	5 1/8	1 37/64	45/64	5/8	2 15/32	6.299	1.311	3.063	3/4	5/8	15.9
	3 1/8	UCFC216-50	UC216-50	**72.7**	**53**	**240**	**200**	**141.4**	**42**	**18**	**16**	**67.3**	**170**	**33.3**	**82.6**	**23**	**M20**	**8.7**
80		UCFC216	UC216	16344	11915	9 7/16	7 7/8	5 9/16	1 21/32	45/64	5/8	2 21/32	6.693	1.311	3.252	29/32	3/4	19.2
	3 1/4	UCFC217-52	UC217-52	**84**	**61.9**	**250**	**208**	**147.1**	**45**	**18**	**18**	**69.6**	**180**	**34.1**	**85.7**	**23**	**M20**	**11.7**
85		UCFC217	UC217	18884	13916	9 27/32	8 3/16	5 51/64	1 25/32	45/64	45/64	2 3/4	7.086	1.343	3.374	29/32	3/4	25.8
	3 1/2	UCFC218-56	UC218-56	**96.1**	**71.5**	**265**	**220**	**155.5**	**50**	**22**	**18**	**78.3**	**190**	**39.7**	**96.0**	**23**	**M20**	**14.8**
90		UCFC218	UC218	21604	16074	10 7/16	8 21/32	6 1/8	1 31/32	55/64	45/64	3 3/32	7.480	1.563	3.780	29/32	3/4	32.6

UCT 200 INDUSTRIAL SET SCREW LOCKING SERIES
CAST-IRON TAKE-UP HOUSED UNITS

- UCT take-up units are suggested for industrial applications where normal loads are encountered.
- UCT take-up units are used where shaft adjustment and belt-tightening devices are required, such as in conveyor applications.
- These units provide compact, efficient supports for adjustable shafts and conveyer take-up pulleys.
- Each unit comes assembled and ready for mounting.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCT series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for industrial applications involving wet or dirty environments.
- Slot spacing and width are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Basic Load Ratings		Dimensions															Wt.
				Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	S	B	L_3	N_1	N_2	A_1	
				C_r	C_{0r}																
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UCT201	UC201																		
	½	UCT201-8	UC201-8																		
15		UCT202	UC202																		
	⅝	UCT202-10	UC202-10	**12.8** 2878	**6.7** 1495	**89** 3 ½	**76** 2 63/64	**10** 13/32	**61** 2 13/32	**21** 13/16	**32** 1 ¼	**19** ¾	**94** 3 11/16	**51** 2	**12.7** 0.500	**31.0** 1.220	**51** 2	**16** ⅝	**32** 1 ¼	**12** 15/32	**0.8** 1.8
17		UCT203	UC203																		
	¾	UCT204-12	UC204-12																		
20		UCT204	UC204																		
	⅞	UCT205-14	UC205-14																		
	15/16	UCT205-15	UC205-15	**14.0** 3147	**7.9** 1765	**89** 3 ½	**76** 2 63/64	**10** 13/32	**62** 2 7/16	**24** 15/16	**32** 1 ¼	**19** ¾	**97** 3 13/16	**51** 2	**14.3** 0.563	**34.1** 1.343	**51** 2	**16** ⅝	**32** 1 ¼	**12** 15/32	**0.8** 1.9
25		UCT205	UC205																		
	1	UCT205-16	UC205-16																		
	1 ⅛	UCT206-18	UC206-18																		
30		UCT206	UC206	**19.5** 4385	**11.3** 2540	**102** 4 1/32	**89** 3 ½	**10** 13/32	**70** 2 ¾	**28** 1 3/32	**37** 1 15/32	**22** ⅞	**113** 4 7/16	**56** 2 7/32	**15.9** 0.626	**38.1** 1.500	**57** 2 ¼	**16** ⅝	**37** 1 15/32	**12** 15/32	**1.3** 2.9
	1 3/16	UCT206-19	UC206-19																		
	1 ¼	UCT206-20	UC206-20																		
	1 ¼	UCT207-20	UC207-20																		
	1 5/16	UCT207-21	UC207-21																		
	1 ⅜	UCT207-22	UC207-22	**25.7** 5778	**15.4** 3462	**102** 4 1/32	**89** 3 ½	**13** ½	**78** 3 1/16	**30** 1 3/16	**37** 1 15/32	**22** ⅞	**129** 5 3/32	**64** 2 17/32	**17.5** 0.689	**42.9** 1.689	**64** 2 17/32	**16** ⅝	**37** 1 15/32	**12** 15/32	**1.6** 3.5
35		UCT207	UC207																		
	1 7/16	UCT207-23	UC207-23																		
	1 ½	UCT208-24	UC208-24																		
	1 9/16	UCT208-25	UC208-25	**29.1** 6542	**17.8** 4002	**114** 4 ½	**102** 4 1/64	**16** ⅝	**88** 3 15/32	**33** 1 5/16	**49** 1 15/16	**29** 1 5/32	**144** 5 21/32	**83** 3 9/32	**19.0** 0.748	**49.2** 1.937	**83** 3 9/32	**19** ¾	**49** 1 15/16	**16** ⅝	**2.5** 5.5
40		UCT208	UC208																		
	1 ⅝	UCT209-26	UC209-26																		
	1 11/16	UCT209-27	UC209-27	**34.1** 7666	**21.3** 4788	**117** 4 19/32	**102** 4 1/64	**16** ⅝	**87** 3 7/16	**35** 1 ⅜	**49** 1 15/16	**29** 1 5/32	**144** 5 21/32	**83** 3 9/32	**19.0** 0.748	**49.2** 1.937	**83** 3 9/32	**19** ¾	**49** 1 15/16	**16** ⅝	**2.5** 5.5
	1 ¾	UCT209-28	UC209-28																		
45		UCT209	UC209																		

[1] For bore sizes up to and including 210, a ¼ -28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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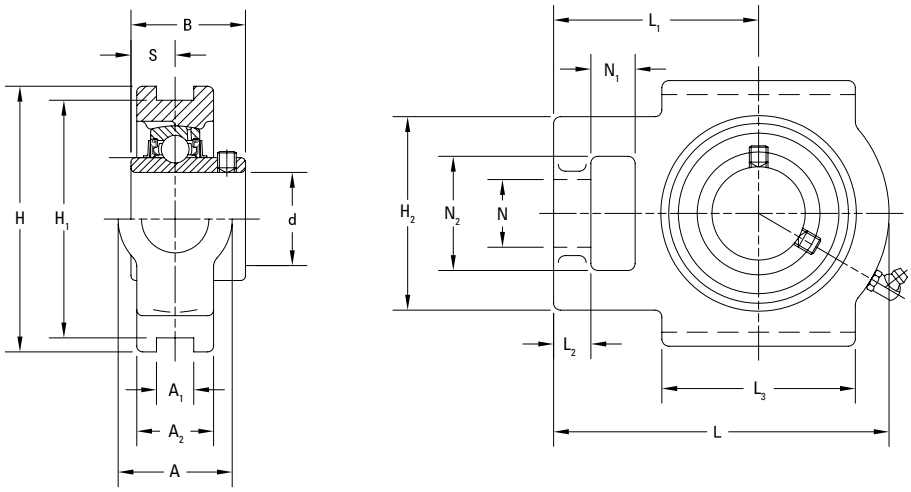

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Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Basic Load Ratings		Dimensions															Wt.
				Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	S	B	L_3	N_1	N_2	A_1	
				C_r	C_{0r}																
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 7/8	UCT210-30	UC210-30																		
	1 15/16	UCT210-31	UC210-31	**35.1**	**23.3**	**117**	**102**	**16**	**90**	**37**	**49**	**29**	**149**	**83**	**19.0**	**51.6**	**86**	**19**	**49**	**16**	**2.6**
50		UCT210	UC210	7891	5238	4 19/32	4 1/64	5/8	3 17/32	1 15/32	1 15/16	1 5/32	5 7/8	3 9/32	0.748	2.031	3 3/8	3/4	1 15/16	5/8	5.7
	2	UCT210-32	UC210-32																		
	2	UCT211-32	UC211-32																		
	2 1/8	UCT211-34	UC211-34	**43.4**	**29.4**	**146**	**130**	**19**	**106**	**38**	**64**	**35**	**171**	**102**	**22.2**	**55.6**	**95**	**25**	**64**	**22**	**4.0**
55		UCT211	UC211	9757	6609	5 3/4	5 1/8	3/4	4 3/16	1 1/2	2 17/32	1 3/8	6 23/32	4 1/32	0.874	2.189	3 3/4	31/32	2 17/32	55/64	8.8
	2 3/16	UCT211-35	UC211-35																		
	2 1/4	UCT212-36	UC212-36																		
60		UCT212	UC212	**52.4**	**36.2**	**146**	**130**	**19**	**119**	**42**	**64**	**35**	**194**	**102**	**25.4**	**65.1**	**102**	**32**	**64**	**22**	**4.9**
	2 3/8	UCT212-38	UC212-38	11780	8138	5 3/4	5 1/8	3/4	4 11/16	1 21/32	2 17/32	1 3/8	7 5/8	4 1/32	1.000	2.563	4 1/32	1 1/4	2 17/32	55/64	10.8
	2 7/16	UCT212-39	UC212-39																		
	2 1/2	UCT213-40	UC213-40	**57.2**	**40.1**	**167**	**151**	**21**	**137**	**44**	**70**	**41**	**224**	**111**	**25.4**	**65.1**	**121**	**32**	**70**	**26**	**6.9**
65		UCT213	UC213	12859	9015	6 9/16	5 15/16	13/16	5 13/32	1 23/32	2 3/4	1 5/8	8 13/16	4 3/8	1.000	2.563	4 3/4	1 1/4	2 3/4	1 1/32	15.2
	2 3/4	UCT214-44	UC214-44	**62.2**	**44.1**	**167**	**151**	**21**	**137**	**46**	**70**	**41**	**224**	**111**	**30.2**	**74.6**	**121**	**32**	**70**	**26**	**7.0**
70		UCT214	UC214	13983	9914	6 9/16	5 15/16	13/16	5 13/32	1 13/16	2 3/4	1 5/8	8 13/16	4 3/8	1.189	2.937	4 3/4	1 1/4	2 3/4	1 1/32	15.4
	2 15/16	UCT215-47	UC215-47																		
75		UCT215	UC215	**67.4**	**48.3**	**167**	**151**	**21**	**140**	**48**	**70**	**41**	**232**	**111**	**33.3**	**77.8**	**121**	**32**	**70**	**26**	**7.3**
	3	UCT215-48	UC215-48	15152	10858	6 9/16	5 15/16	13/16	5 1/2	1 7/8	2 3/4	1 5/8	9 1/8	4 3/8	1.331	3.063	4 3/4	1 1/4	2 3/4	1 1/32	16.1
	3 1/8	UCT216-50	UC216-50	**72.7**	**53.0**	**184**	**165**	**21**	**140**	**51**	**70**	**41**	**235**	**111**	**33.3**	**82.6**	**121**	**32**	**70**	**26**	**8.2**
80		UCT216	UC216	16344	11915	7 1/4	6 1/2	13/16	5 1/2	2	2 3/4	1 5/8	9 1/4	4 3/8	1.331	3.252	4 3/4	1 1/4	2 3/4	1 1/32	18.1
	3 1/4	UCT217-52	UC217-52	**84.0**	**61.9**	**198**	**173**	**29**	**162**	**54**	**73**	**48**	**260**	**124**	**34.1**	**85.7**	**157**	**38**	**73**	**30**	**11.0**
85		UCT217	UC217	18884	13916	7 25/32	6 13/16	1 5/32	6 3/8	2 1/8	2 7/8	1 7/8	10 1/4	4 7/8	1.343	3.374	6 3/16	1 1/2	2 7/8	1 3/16	24.3

UC 200 INDUSTRIAL SET SCREW LOCKING SERIES
WIDE INNER RING BALL BEARINGS

- The UC wide inner ring ball bearing uses a popular set screw locking mechanism and is suggested for industrial applications where normal loads are encountered.
- The set screw mounting feature is ideal for reversing load applications.
- Bearing prelubricated and ready for immediate installation.
- The wide inner ring provides effective shaft support for a broad range of industrial applications.
- The positive contact of the land-riding bonded nitrile seal helps protect against harmful contaminants and retains lubricant under severe operating conditions.
- An external steel flinger provides additional protection from contamination.
- The UC series features superfinished raceways, grade-10 balls for smooth running and low noise operation.
- UC series wide inner ring ball bearings have spherical outside diameters for use in housings with corresponding spherical inside surfaces to compensate for shaft misalignment.

Shaft Dia. d		Bearing Designation	Basic Load Ratings		Dimensions							Min. Fillet Radius	Set Screw Size	Wt.
			Dynamic	Static	D	C	B	S_2	C_1	S	S_1	r (min.)	G	
			C_r	C_{0r}										
mm	in.		**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.		**kg** lbs
12		UC201	**12.8** 2878	**6.7** 1495	**47** 1.850	**16** 0.630	**31.0** 1.220	**5.0** 0.197	**3.9** 0.153	**12.7** 0.500	**18.3** 0.720	**0.6** 0.024	M6×0.75	**0.2** 0.5
	½	UC201-8											¼-28UNF	**0.2** 0.5
15		UC202											M6×0.75	**0.2** 0.4
	⅝	UC202-10											¼-28UNF	**0.2** 0.4
17		UC203											M6×0.75	**0.2** 0.4
	¾	UC204-12	**12.8** 2878	**6.7** 1495	**47** 1.850	**16** 0.630	**31.0** 1.220	**5.0** 0.197	**3.9** 0.153	**12.7** 0.500	**18.3** 0.720	**1** 0.039	¼-28UNF	**0.2** 0.4
20		UC204											M6×0.75	**0.2** 0.4
	⅞	UC205-14	**14.0** 3147	**7.9** 1765	**52** 2.047	**17** 0.669	**34.1** 1.343	**5.5** 0.217	**4.5** 0.177	**14.3** 0.563	**19.8** 0.780	**1** 0.039	¼-28UNF	**0.2** 0.5
	15⁄16	UC205-15											¼-28UNF	**0.2** 0.4
25		UC205											M6×0.75	**0.2** 0.5
	1	UC205-16											¼-28UNF	**0.2** 0.4
	1 ⅛	UC206-18	**19.5** 4385	**11.3** 2540	**62** 2.441	**19** 0.748	**38.1** 1.500	**6.0** 0.236	**5.0** 0.197	**15.9** 0.626	**22.2** 0.874	**1** 0.039	¼-28UNF	**0.3** 0.7
30		UC206											M6×0.75	**0.3** 0.7
	1 3⁄16	UC206-19											¼-28UNF	**0.3** 0.7
	1 ¼	UC206-20											¼-28UNF	**0.3** 0.7
	1 ¼	UC207-20	**25.7** 5778	**15.4** 3462	**72** 2.835	**20** 0.787	**42.9** 1.689	**6.5** 0.256	**5.7** 0.224	**17.5** 0.689	**25.4** 1.000	**1.1** 0.043	5⁄16-24UNF	**0.5** 1.2
	1 5⁄16	UC207-21											5⁄16-24UNF	**0.5** 1.1
	1 ⅜	UC207-22											5⁄16-24UNF	**0.5** 1.1
35		UC207											M8×1	**0.5** 1.1
	1 7⁄16	UC207-23											5⁄16-28UNF	**0.5** 1.0
	1 ½	UC208-24	**29.1** 6542	**17.8** 4002	**80** 3.15	**21** 0.827	**49.2** 1.937	**8.0** 0.315	**5.9** 0.232	**19.0** 0.748	**30.2** 1.189	**1.1** 0.043	5⁄16-24UNF	**0.7** 1.5
	1 9⁄16	UC208-25											5⁄16-24UNF	**0.6** 1.3
40		UC208											M8×1	**0.6** 1.4
	1 ⅝	UC209-26	**34.1** 7666	**21.3** 4788	**85** 3.346	**22** 0.866	**49.2** 1.937	**8.0** 0.315	**6.0** 0.236	**19.0** 0.748	**30.2** 1.189	**1.1** 0.043	5⁄16-24UNF	**0.8** 1.7
	1 11⁄16	UC209-27											5⁄16-24UNF	**0.7** 1.6
	1 ¾	UC209-28											5⁄16-24UNF	**0.7** 1.5
45		UC209											M8×1	**0.7** 1.5

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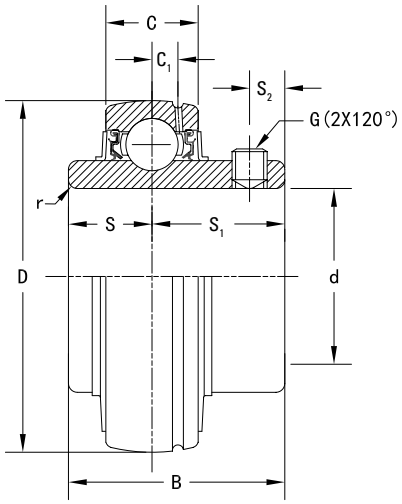

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Shaft Dia. d		Bearing Designation	Basic Load Ratings		Dimensions							Min. Fillet Radius	Set Screw Size	Wt.
			Dynamic	Static	D	C	B	S_2	C_1	S	S_1	r (min.)	G	
			C_r	C_{0r}										
mm	in.		**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.		**kg** lbs
	1 7/8	UC210-30											3/8 - 24UNF	**0.9** 1.9
	1 15/16	UC210-31	**35.1** 7891	**23.3** 5238	**90** 3.543	**24** 0.945	**51.6** 2.031	**9.0** 0.354	**6.0** 0.236	**19.0** 0.748	**32.6** 1.283	**1.1** 0.043	3/8 - 24UNF	**0.8** 1.8
50		UC210											M10×1.25	**0.8** 1.8
	2	UC210-32											3/8-24UNF	**0.8** 1.7
	2	UC211-32											3/8 - 24UNF	**1.3** 2.8
	2 1/8	UC211-34	**43.4** 9757	**29.4** 6609	**100** 3.937	**25** 0.984	**55.6** 2.189	**9.0** 0.354	**7.0** 0.276	**22.2** 0.874	**33.4** 1.315	**1.5** 0.059	3/8-24UNF	**1.2** 2.5
55		UC211											M10×1.25	**1.1** 2.4
	2 3/16	UC211-35											3/8-24UNF	**1.1** 2.4
	2 1/4	UC212-36											3/8-24UNF	**1.7** 3.7
60		UC212	**52.4** 11780	**36.2** 8138	**110** 4.331	**27** 1.063	**65.1** 2.563	**10.5** 0.413	**7.4** 0.291	**25.4** 1.000	**39.7** 1.563	**1.5** 0.059	M10×1.25	**1.5** 3.4
	2 3/8	UC212-38											3/8-24UNF	**1.5** 3.4
	2 7/16	UC212-39											3/8-24UNF	**1.5** 3.2
	2 1/2	UC213-40	**57.2** 12859	**40.1** 9015	**120** 4.724	**28** 1.102	**65.1** 2.563	**12.0** 0.472	**7.5** 0.295	**25.4** 1.000	**39.7** 1.563	**1.5** 0.059	1/2-20UNF	**1.9** 4.2
65		UC213											M12×1.5	**1.9** 4.1
	2 3/4	UC214-44	**62.2** 13983	**44.1** 9914	**125** 4.921	**30** 1.181	**74.6** 2.937	**12.0** 0.472	**9.0** 0.354	**30.2** 1.189	**44.4** 1.748	**1.5** 0.059	1/2-20UNF	**2.1** 4.5
70		UC214											M12×1.5	**2.1** 4.5
	2 15/16	UC215-47											1/2-20UNF	**2.2** 4.9
75		UC215	**67.4** 15152	**48.3** 10858	**130** 5.118	**32** 1.26	**77.8** 3.063	**12.0** 0.472	**9.0** 0.354	**33.3** 1.311	**44.5** 1.752	**1.5** 0.059	M12×1.5	**2.2** 4.9
	3	UC215-48											1/2-20UNF	**2.1** 4.7
	3 1/8	UC216-50	**72.7** 16344	**53.0** 11915	**140** 5.512	**33** 1.299	**82.6** 3.252	**14.0** 0.551	**8.9** 0.350	**33.3** 1.311	**49.3** 1.941	**2.0** 0.079	1/2-20UNF	**2.8** 6.3
80		UC216											M12×1.5	**2.8** 6.2
	3 1/4	UC217-52	**84.0** 18884	**61.9** 13916	**150** 5.906	**35** 1.378	**85.7** 3.374	**14.0** 0.551	**9.8** 0.386	**34.1** 1.343	**51.6** 2.031	**2.0** 0.079	1/2-20UNF	**3.7** 8.1
85		UC217											M12×1.5	**3.5** 7.6
	3 1/2	UC218-56	**96.1** 21604	**71.5** 16074	**160** 6.299	**38** 1.496	**96.0** 3.78	**15.0** 0.591	**11.1** 0.437	**39.7** 1.563	**56.3** 2.217	**2.0** 0.079	1/2-20UNF	**4.5** 9.8
90		UC218											M12×1.5	**4.4** 9.6

UEL 200 INDUSTRIAL ECCENTRIC LOCKING COLLAR SERIES

The following topics are covered within this section:

UELP 200 INDUSTRIAL ECCENTRIC LOCKING COLLAR SERIES
CAST-IRON PILLOW BLOCK HOUSED UNITS

- UELP pillow blocks are suggested for industrial applications where normal loads are encountered.
- Compact, one-piece housing with two-bolt mounting can be installed in any position and makes bearing replacement easy.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UELP series housed units feature the Timken eccentric locking collar (UEL) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing and base-to-center height dimensions are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Pillow Block Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	H	L	L_1	A	H_1	J	H_2	S	B_1	N	N_1		
				C_r	C_{0r}													
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UELP201	UEL201															
	½	UELP201-8	UEL201-8															
15		UELP202	UEL202	**12.8** 2878	**6.7** 1495	**30.2** 1 3/16	**127** 5	**36** 1 13/32	**38** 1 ½	**16** 5/8	**95** 3 ¾	**60** 2 3/8	**17.1** 0.673	**43.7** 1.720	**13** ½	**18** 23/32	**M10** 3/8	**0.8** 1.7
	5/8	UELP202-10	UEL202-10															
17		UELP203	UEL203															
	¾	UELP204-12	UEL204-12	**12.8** 2878	**6.7** 1495	**33.3** 1 5/16	**127** 5	**36** 1 13/32	**38** 1 ½	**16** 5/8	**95** 3 ¾	**65** 2 9/16	**17.1** 0.673	**43.7** 1.720	**13** ½	**18** 23/32	**M10** 3/8	**0.8** 1.7
20		UELP204	UEL204															
	7/8	UELP205-14	UEL205-14															
	15/16	UELP205-15	UEL205-15	**14** 3147	**7.9** 1765	**36.5** 1 7/16	**140** 5 ½	**38** 1 ½	**38** 1 ½	**16** 5/8	**105** 4 1/8	**70** 2 ¾	**17.5** 0.689	**44.4** 1.748	**13** ½	**18** 23/32	**M10** 3/8	**0.9** 2.0
25		UELP205	UEL205															
	1	UELP205-16	UEL205-16															
	1 1/8	UELP206-18	UEL206-18															
30		UELP206	UEL206	**19.5** 4384	**11.3** 2540	**42.9** 1 11/16	**165** 6 ½	**48** 1 7/8	**48** 1 7/8	**17** 21/32	**121** 4 ¾	**84** 3 5/16	**18.3** 0.720	**48.4** 1.906	**17** 21/32	**21** 13/16	**M14** ½	**1.4** 3.1
	1 3/16	UELP206-19	UEL206-19															
	1 ¼	UELP206-20	UEL206-20															
	1 ¼	UELP207-20	UEL207-20															
	1 5/16	UELP207-21	UEL207-21															
	1 3/8	UELP207-22	UEL207-22	**25.7** 5778	**15.4** 3462	**47.6** 1 7/8	**167** 6 9/16	**47** 1 27/32	**48** 1 7/8	**18** 23/32	**127** 5	**95** 3 ¾	**18.8** 0.740	**51.1** 2.012	**17** 21/32	**21** 13/16	**M14** ½	**1.8** 4.0
35		UELP207	UEL207															
	1 7/16	UELP207-23	UEL207-23															
	1 ½	UELP208-24	UEL208-24															
	1 9/16	UELP208-25	UEL208-25	**29.1** 6542	**17.8** 4002	**49.2** 1 15/16	**184** 7 ¼	**53** 2 3/32	**54** 2 1/8	**18** 23/32	**137** 5 13/32	**98** 3 27/32	**21.4** 0.843	**56.3** 2.217	**17** 21/32	**21** 13/16	**M14** ½	**2.2** 4.9
40		UELP208	UEL208															

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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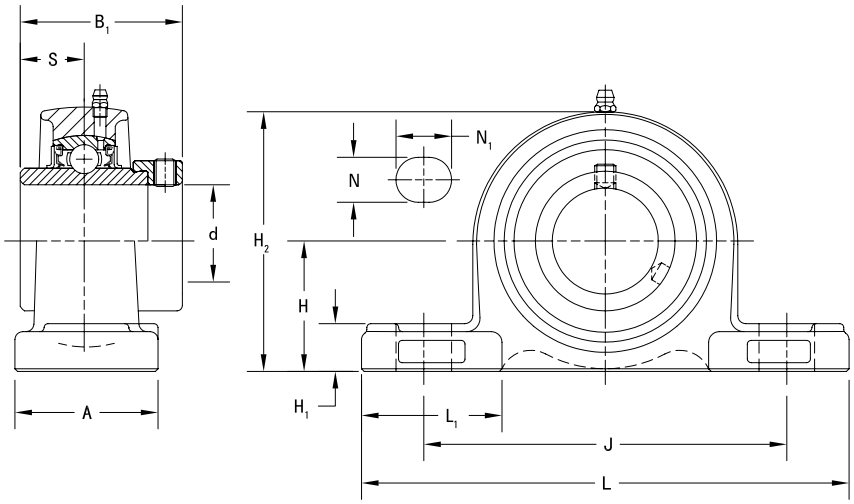

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Shaft Dia. d		Pillow Block Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	H	L	L_1	A	H_1	J	H_2	S	B_1	N	N_1		
				C_r	C_{0r}													
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 5/8	UELP209-26	UEL209-26															
	1 11/16	UELP209-27	UEL209-27	**34.1**	**21.3**	**54.0**	**190**	**55**	**54**	**20**	**146**	**106**	**21.4**	**56.3**	**17**	**21**	**M14**	**2.5**
	1 3/4	UELP209-28	UEL209-28	7666	4788	2 1/8	7 15/32	2 5/32	2 1/8	25/32	5 3/4	4 3/16	0.843	2.217	21/32	13/16	1/2	5.5
45		UELP209	UEL209															
	1 7/8	UELP210-30	UEL210-30															
	1 15/16	UELP210-31	UEL210-31	**35.1**	**23.3**	**57.2**	**206**	**60**	**60**	**21**	**159**	**113**	**24.6**	**62.7**	**20**	**22**	**M16**	**3.2**
50		UELP210	UEL210	7891	5238	2 1/4	8 1/8	2 3/8	2 3/8	13/16	6 1/4	4 7/16	0.969	2.469	25/32	7/8	5/8	7.1
	2	UELP210-32	UEL210-32															
	2	UELP211-32	UEL211-32															
	2 1/8	UELP211-34	UEL211-34	**43.4**	**29.4**	**63.5**	**219**	**65**	**60**	**23**	**171**	**125**	**27.8**	**71.4**	**20**	**22**	**M16**	**4.0**
55		UELP211	UEL211	9757	6609	2 1/2	8 5/8	2 9/16	2 3/8	29/32	6 23/32	4 29/32	1.094	2.811	25/32	7/8	5/8	8.8
	2 3/16	UELP211-35	UEL211-35															
	2 1/4	UELP212-36	UEL212-36															
60		UELP212	UEL212	**52.4**	**36.2**	**69.8**	**241**	**73**	**70**	**25**	**184**	**138**	**31.0**	**77.8**	**20**	**25**	**M16**	**5.2**
	2 7/16	UELP212-39	UEL212-39	11780	8138	2 3/4	9 1/2	2 7/8	2 3/4	31/32	7 1/4	5 7/16	1.220	3.063	25/32	31/32	5/8	11.5
	2 1/2	UEL213-40	UEL213-40	**57.2**	**40.1**	**76.2**	**265**	**78**	**70**	**27**	**203**	**150**	**34.1**	**85.7**	**25**	**30**	**M20**	**6.5**
65		UELP213	UEL213	12859	9015	3	10 7/16	3 1/16	2 3/4	1 1/16	8	5 29/32	1.343	3.374	31/32	1 3/16	3/4	14.3
	2 3/4	UELP214-44	UEL214-44	**62.2**	**44.1**	**79.4**	**266**	**75**	**72**	**27**	**210**	**157**	**34.1**	**85.7**	**25**	**30**	**M20**	**7.4**
70		UELP214	UEL214	13983	9914	3 1/8	10 15/32	2 61/64	2 27/32	1 1/16	8 9/32	6 3/16	1.343	3.374	31/32	1 3/16	3/4	16.3
	2 15/16	UELP215-47	UEL215-47															
75		UELP215	UEL215	**67.4**	**48.3**	**82.6**	**275**	**78**	**74**	**28**	**217**	**162**	**37.3**	**92.1**	**25**	**30**	**M20**	**7.9**
	3	UELP215-48	UEL215-48	15152	10858	3 1/4	10 13/16	3 1/16	2 29/32	1 3/32	8 17/32	6 3/8	1.469	3.626	31/32	1 3/16	3/4	17.4

UELF 200 INDUSTRIAL ECCENTRIC LOCKING COLLAR SERIES
CAST-IRON FOUR-BOLT FLANGED HOUSED UNITS

- UELF four-bolt flanged units are suggested for industrial applications where normal loads are encountered.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UELF series housed units feature the Timken eccentric locking collar (UEL) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
				Dynamic	Static	L	J	A_1	A	A_0	S	B_1	A_2	N		
				C_r	C_{0r}											
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UELF201	UEL201													
	½	UELF201-8	UEL201-8													
15		UELF202	UEL202													
	⅝	UELF202-10	UEL202-10	**12.8** 2878	**6.7** 1495	**86** 3 3/8	**64** 2 33/64	**11** 7/16	**25.5** 1	**41.6** 1 41/64	**17.1** 0.673	**43.7** 1.720	**15** 19/32	**12** 15/32	**M10** 3/8	**0.7** 1.5
17		UELF203	UEL203													
	¾	UELF204-12	UEL204-12													
20		UELF204	UEL204													
	⅞	UELF205-14	UEL205-14													
	15/16	UELF205-15	UEL205-15	**14.0** 3147	**7.9** 1765	**95** 3 ¾	**70** 2 ¾	**13** ½	**27.0** 1 1/16	**42.9** 1 11/16	**17.5** 0.689	**44.4** 1.748	**16** ⅝	**12** 15/32	**M10** 3/8	**0.9** 1.9
25		UELF205	UEL205													
	1	UELF205-16	UEL205-16													
	1 ⅛	UELF206-18	UEL206-18													
30		UELF206	UEL206	**19.5** 4384	**11.3** 2540	**108** 4 ¼	**83** 3 17/64	**13** ½	**31.0** 1 7/32	**48.1** 1 57/64	**18.3** 0.720	**48.4** 1.906	**18** 45/64	**12** 15/32	**M10** 3/8	**1.2** 2.6
	1 3/16	UELF206-19	UEL206-19													
	1 ¼	UELF206-20	UEL206-20													
	1 ¼	UELF207-20	UEL207-20													
	1 5/16	UELF207-21	UEL207-21													
	1 ⅜	UELF207-22	UEL207-22	**25.7** 5778	**15.4** 3462	**117** 4 19/32	**92** 3 ⅝	**15** 19/32	**34.0** 1 11/32	**51.3** 2 1/64	**18.8** 0.740	**51.1** 2.012	**19** ¾	**14** 35/64	**M12** 7/16	**1.6** 3.6
35		UELF207	UEL207													
	1 7/16	UELF207-23	UEL207-23													
	1 ½	UELF208-24	UEL208-24													
	1 9/16	UELF208-25	UEL208-25	**29.1** 6542	**17.8** 4002	**130** 5 ⅛	**102** 4 1/64	**15** 19/32	**36.0** 1 13/32	**55.9** 2 13/64	**21.4** 0.843	**56.3** 2.217	**21** 53/64	**16** ⅝	**M14** ½	**2.0** 4.5
40		UELF208	UEL208													

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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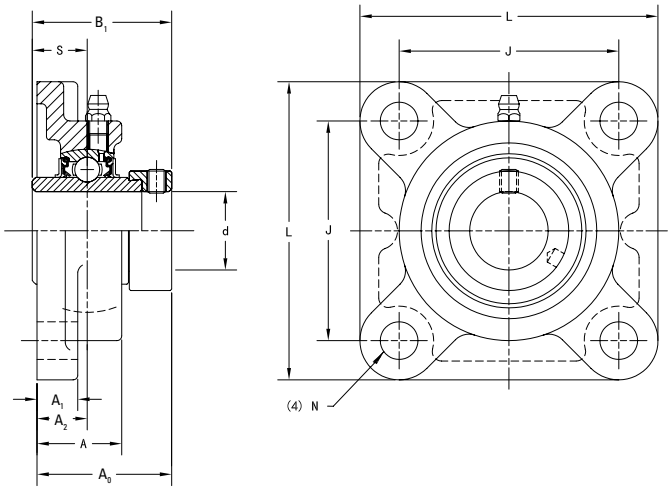

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Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
				Dynamic	Static	L	J	A_1	A	A_0	S	B_1	A_2	N		
				C_r	C_{0r}											
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 5/8	UELF209-26	UEL209-26													
	1 11/16	UELF209-27	UEL209-27	**34.1**	**21.3**	**137**	**105**	**16**	**38**	**56.9**	**21.4**	**56.3**	**22**	**16**	**M14**	**2.4**
	1 3/4	UELF209-28	UEL209-28	7666	4788	5 13/32	4 9/64	5/8	1 1/2	2 15/64	0.843	2.217	55/64	5/8	9/16	5.2
45		UELF209	UEL209													
	1 7/8	UELF210-30	UEL210-30													
	1 15/16	UELF210-31	UEL210-31	**35.1**	**23.3**	**143**	**111**	**16**	**40**	**60.1**	**24.6**	**62.7**	**22**	**16**	**M14**	**2.7**
50		UELF210	UEL210	7891	5238	5 5/8	4 3/8	5/8	1 9/16	2 23/64	0.969	2.469	55/64	5/8	9/16	6.0
	2	UELF210-32	UEL210-32													
	2	UELF211-32	UEL211-32													
	2 1/8	UELF211-34	UEL211-34	**43.4**	**29.4**	**162**	**130**	**18**	**43**	**68.6**	**27.8**	**71.4**	**25**	**19**	**M16**	**3.7**
55		UELF211	UEL211	9757	6609	6 3/8	5 1/8	23/32	1 11/16	2 45/64	1.094	2.811	63/64	3/4	5/8	8.1
	2 3/16	UELF211-35	UEL211-35													
	2 1/4	UELF212-36	UEL212-36													
60		UELF212	UEL212	**52.4**	**36.2**	**175**	**143**	**18**	**48**	**75.8**	**31.0**	**77.8**	**29**	**19**	**M16**	**4.5**
	2 7/16	UELF212-39	UEL212-39	11780	8138	6 7/8	5 5/8	23/32	1 7/8	2 63/64	1.220	3.063	1 9/64	3/4	5/8	10.0
	2 1/2	UELF213-40	UEL213-40	**57.2**	**40.1**	**187**	**149**	**22**	**50**	**81.6**	**34.1**	**85.7**	**30**	**19**	**M16**	**5.8**
65		UELF213	UEL213	12859	9015	7 3/8	5 55/64	7/8	1 31/32	3 13/16	1.343	3.374	1 3/16	3/4	5/8	12.8
	2 3/4	UELF214-44	UEL214-44	**62.2**	**44.1**	**193**	**152**	**22**	**54**	**82.6**	**34.1**	**85.7**	**31**	**19**	**M16**	**6.8**
70		UELF214	UEL214	13983	9914	7 19/32	5 63/64	7/8	2 1/8	3 1/4	1.343	3.374	1 7/32	3/4	5/8	14.9
	2 15/16	UELF215-47	UEL215-47	**67.4**	**48.3**	**200**	**159**	**22**	**56**	**88.8**	**37.3**	**92.1**	**34**	**19**	**M16**	**6.9**
75		UELF215	UEL215	15152	10858	7 7/8	6 17/64	7/8	2 7/32	3 31/64	1.469	3.626	1 11/32	3/4	5/8	15.3
	3	UELF215-48	UEL215-48													

UELFL 200 INDUSTRIAL ECCENTRIC LOCKING COLLAR SERIES
CAST-IRON TWO-BOLT FLANGED HOUSED UNITS

- UELFL two-bolt flanged units are suggested for industrial applications where normal loads are encountered.
- This series is primarily designed for applications where the mounting area is restricted.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UELFL series housed units feature the Timken eccentric locking collar (UEL) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
				Dynamic	Static	H	J	A_1	A	A_0	L	A_2	S	B_1	N		
				C_r	C_{0r}												
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UELFL201	UEL201														
	½	UELFL201-8	UEL201-8														
15		UELFL202	UEL202														
	⅝	UELFL202-10	UEL202-10	**12.8** 2878	**6.7** 1495	**113** 4 7⁄16	**90** 3 35⁄64	**11** 7⁄16	**25.5** 1	**41.6** 1 41⁄64	**60** 2 3⁄8	**15** 19⁄32	**17.1** 0.673	**43.7** 1.720	**12** 15⁄32	**M10** 3⁄8	**0.6** 1.2
17		UELFL203	UEL203														
	¾	UELFL204-12	UEL204-12														
20		UELFL204	UEL204														
	⅞	UELFL205-14	UEL205-14														
	15⁄16	UELFL205-15	UEL205-15	**14** 3147	**7.9** 1765	**130** 5 1⁄8	**99** 3 57⁄64	**13** ½	**27.0** 1 1⁄16	**42.9** 1 11⁄16	**68** 2 11⁄16	**16** ⅝	**17.5** 0.689	**44.4** 1.748	**16** ⅝	**M14** ½	**0.7** 1.5
25		UELFL205	UEL205														
	1	UELFL205-16	UEL205-16														
	1 ⅛	UELFL206-18	UEL206-18														
30		UELFL206	UEL206	**19.5** 4384	**11.3** 2540	**148** 5 13⁄16	**117** 4 39⁄64	**13** ½	**31.0** 1 7⁄32	**48.1** 1 57⁄64	**80** 3 5⁄32	**18** 45⁄64	**18.3** 0.720	**48.4** 1.906	**16** ⅝	**M14** ½	**1.0** 2.2
	1 3⁄16	UELFL206-19	UEL206-19														
	1 ¼	UELFL206-20	UEL206-20														
	1 ¼	UELFL207-20	UEL207-20														
	1 5⁄16	UELFL207-21	UEL207-21														
	1 ⅜	UELFL207-22	UEL207-22	**25.7** 5778	**15.4** 3462	**161** 5 11⁄32	**130** 5 1⁄8	**14** 9⁄16	**34.0** 1 11⁄32	**51.3** 2 1⁄64	**90** 3 17⁄32	**19** ¾	**18.8** 0.740	**51.1** 2.012	**16** ⅝	**M14** ½	**1.3** 2.9
35		UELFL207	UEL207														
	1 7⁄16	UELFL207-23	UEL207-23														
	1 ½	UELFL208-24	UEL208-24														
	1 9⁄16	UELFL208-25	UEL208-25	**29.1** 6542	**17.8** 4002	**175** 6 7⁄8	**144** 5 43⁄64	**14** 9⁄16	**36.0** 1 13⁄32	**55.9** 2 13⁄64	**100** 3 15⁄16	**21** 53⁄64	**21.4** 0.843	**56.3** 2.217	**16** ⅝	**M14** ½	**1.7** 3.8
40		UELFL208	UEL208														

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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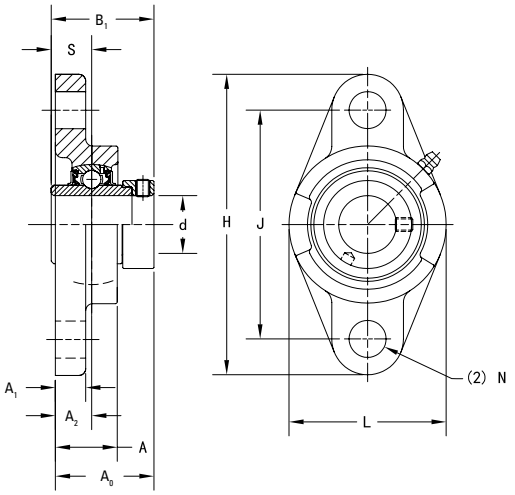

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Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
				Dynamic	Static	H	J	A_1	A	A_0	L	A_2	S	B_1	N		
				C_r	C_{0r}												
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 5/8	UELFL209-26	UEL209-26														
	1 11/16	UELFL209-27	UEL209-27	**34.1**	**21.3**	**188**	**148**	**15**	**38**	**56.9**	**108**	**22**	**21.4**	**56.3**	**19**	**M16**	**2.1**
	1 3/4	UELFL209-28	UEL209-28	7666	4788	7 13/32	5 53/64	19/32	1 1/2	2 15/64	4 1/4	55/64	0.843	2.217	3/4	5/8	4.6
45		UELFL209	UEL209														
	1 7/8	UELFL210-30	UEL210-30														
	1 15/16	UELFL210-31	UEL210-31	**35.1**	**23.3**	**197**	**157**	**15**	**40**	**60.1**	**115**	**22**	**24.6**	**62.7**	**19**	**M16**	**2.4**
50		UELFL210	UEL210	7891	4788	7 3/4	6 3/16	19/32	1 9/16	2 23/64	4 17/32	55/64	0.969	2.469	3/4	5/8	5.3
	2	UELFL210-32	UEL210-32														
	2	UELFL211-32	UEL211-32														
	2 1/8	UELFL211-34	UEL211-34	**43.4**	**29.4**	**224**	**184**	**18**	**43**	**68.6**	**130**	**25**	**27.8**	**71.4**	**19**	**M16**	**3.6**
55		UELFL211	UEL211	9757	6609	8 13/16	7 1/4	23/32	1 11/16	2 45/64	5 1/8	63/64	1.094	2.811	3/4	5/8	7.9
	2 3/16	UELFL211-35	UEL211-35														
	2 1/4	UELFL212-36	UEL212-36														
60		UELFL212	UEL212	**52.4**	**36.2**	**250**	**202**	**18**	**48**	**75.8**	**140**	**29**	**31.0**	**77.8**	**23**	**M20**	**4.5**
	2 7/16	UELFL212-39	UEL212-39	11780	8138	9 27/32	7 61/64	23/32	1 7/8	2 63/64	5 1/2	1 9/64	1.220	3.063	29/32	3/4	10.0
	2 1/2	UELFL213-40	UEL213-40	**57.2**	**40.1**	**258**	**210**	**20**	**50**	**81.6**	**155**	**30**	**34.1**	**85.7**	**23**	**M20**	**5.7**
65		UELFL213	UEL213	12859	9015	10 5/32	8 17/64	25/32	1 31/32	3 7/32	6 3/32	1 3/16	1.343	3.374	29/32	3/4	12.5
	2 3/4	UELFL214-44	UEL214-44	**62.2**	**44.1**	**265**	**216**	**20**	**54**	**82.6**	**160**	**31**	**34.1**	**85.7**	**23**	**M20**	**6.6**
70		UELFL214	UEL214	13983	9914	10 7/16	8 1/2	25/32	2 1/8	3 1/4	6 5/16	1 7/32	1.343	3.374	29/32	3/4	14.5
	2 15/16	UELFL215-47	UEL215-47														
75		UELFL215	UEL215	**67.4**	**48.3**	**275**	**225**	**20**	**56**	**88.8**	**165**	**34**	**37.3**	**92.1**	**23**	**M20**	**6.9**
	3	UELFL215-48	UEL215-48	15152	10858	10 13/16	8 55/64	25/32	2 7/32	3 1/2	6 1/2	1 11/32	1.469	3.626	29/32	3/4	15.3

UELFC 200 INDUSTRIAL ECCENTRIC LOCKING COLLAR SERIES
CAST-IRON PILOTED ROUND FLANGED HOUSED UNITS

- UELFC piloted round flanged units are suggested for industrial applications where normal loads are encountered.
- UELFC piloted round flanged units ensure accurate mounting fits and provide better support for heavy loads.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UELFC series housed units feature the Timken eccentric locking collar (UEL) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for industrial applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Round Flange Cartridge Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	L	J	J_1	A_1	A_2	A_3	A_4	H_3	S	B_1	N		
				C_r	C_{0r}													
mm	in.			**kN** lbs.	**kN** lbs.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs.
12		UELFC201	UEL201															
	½	UELFC201-8	UEL201-8															
15		UELFC202	UEL202															
	⅝	UELFC202-10	UEL202-10	**12.8** 2878	**6.65** 1495	**100** 3 15/16	**78** 3 5/64	**55.1** 2 11/64	**20.5** 13/16	**10** 25/64	**5** 13/64	**36.6** 1 7/16	**62** 2.441	**17.1** 0.673	**43.7** 1.720	**12** 15/32	**M10** 3/8	**0.8** 1.8
17		UELFC203	UEL203															
	¾	UELFC204-12	UEL204-12															
20		UELFC204	UEL204															
	⅞	UELFC205-14	UEL205-14															
	15/16	UELFC205-15	UEL205-15	**14** 3147	**7.85** 1765	**115** 4 17/32	**90** 3 35/64	**63.6** 2 ½	**21.0** 13/16	**10** 25/64	**6** 15/64	**36.9** 1 29/64	**70** 2.756	**17.5** 0.689	**44.4** 1.748	**12** 15/32	**M10** 3/8	**1.0** 2.2
25		UELFC205	UEL205															
	1	UELFC205-16	UEL205-16															
	1 ⅛	UELFC206-18	UEL206-18															
30		UELFC206	UEL206	**19.5** 4384	**11.3** 2540	**125** 4 29/32	**100** 3 15/16	**70.7** 2 25/32	**23.0** 29/32	**10** 25/64	**8** 5/16	**40.1** 1 37/64	**80** 3.150	**18.3** 0.720	**48.4** 1.906	**12** 15/32	**M10** 3/8	**1.4** 3.1
	1 3/16	UELFC206-19	UEL206-19															
	1 ¼	UELFC206-20	UEL206-20															
	1 ¼	UELFC207-20	UEL207-20															
	1 5/16	UELFC207-21	UEL207-21															
	1 ⅜	UELFC207-22	UEL207-22	**25.7** 5778	**15.4** 3462	**135** 5 1/16	**110** 4 21/64	**77.8** 3 1/16	**26.0** 1 1/32	**11** 7/16	**8** 5/16	**43.3** 1 45/64	**90** 3.543	**18.8** 0.740	**51.1** 2.012	**14** 35/64	**M12** 7/16	**2.0** 4.5
35		UELFC207	UEL207															
	1 7/16	UELFC207-23	UEL207-23															
	1 ½	UELFC208-24	UEL208-24															
	1 9/16	UELFC208-25	UEL208-25	**29.1** 6542	**17.8** 4002	**145** 5 23/32	**120** 4 23/32	**84.8** 3 11/32	**26.0** 1 1/32	**11** 7/16	**10** 25/64	**45.9** 1 3/16	**100** 3.937	**21.4** 0.843	**56.3** 2.217	**14** 35/64	**M12** 7/16	**2.1** 4.7
40		UELFC208	UEL208															

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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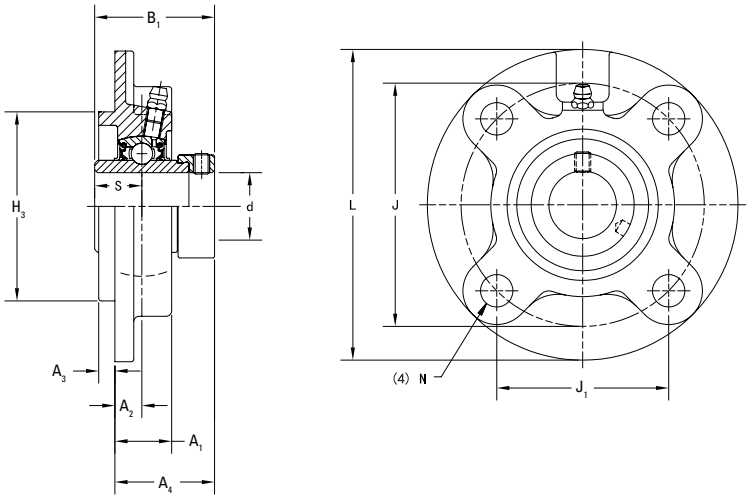

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Shaft Dia. d		Round Flange Cartridge Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	L	J	J_1	A_1	A_2	A_3	A_4	H_3	S	B_1	N		
				C_r	C_{0r}													
mm	in.			**kN** lbs.	**kN** lbs.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs.
	1 5/8	UELFC209-26	UEL209-26															
	1 11/16	UELFC209-27	UEL209-27	**34.1**	**21.3**	**160**	**132**	**93.3**	**26**	**10**	**12**	**44.9**	**105**	**21.4**	**56.3**	**16**	**M14**	**4.7**
	1 3/4	UELFC209-28	UEL209-28	7666	4788	6 5/16	5 13/64	3 43/64	1 1/32	25/64	15/32	1 49/64	4.133	0.843	2.217	5/8	1/2	6.1
45		UELFC209	UEL209															
	1 7/8	UELFC210-30	UEL210-30															
	1 15/16	UELFC210-31	UEL210-31	**35.1**	**23.3**	**165**	**138**	**97.6**	**28**	**10**	**12**	**48.1**	**110**	**24.6**	**62.7**	**16**	**M14**	**3.1**
50		UELFC210	UEL210	7891	5238	6 1/2	5 7/16	3 27/32	1 3/32	25/64	15/32	1 57/64	4.330	0.969	2.469	5/8	1/2	6.9
	2	UELFC210-32	UEL210-32															
	2	UELFC211-32	UEL211-32															
	2 1/8	UELFC211-34	UEL211-34	**43.4**	**29.4**	**185**	**150**	**106.1**	**31**	**13**	**12**	**56.6**	**125**	**27.8**	**71.4**	**19**	**M16**	**4.5**
55		UELFC211	UEL211	9757	6609	7 3/32	5 29/32	4 11/64	1 7/32	33/64	15/32	2 15/64	4.921	1.094	2.811	3/4	5/8	9.9
	2 3/16	UELFC211-35	UEL211-35															
	2 1/4	UELFC212-36	UEL212-36															
60		UELFC212	UEL212	**52.4**	**36.2**	**195**	**160**	**113.1**	**36**	**17**	**12**	**63.8**	**135**	**31.0**	**77.8**	**19**	**M16**	**5.3**
	2 7/16	UELFC212-39	UEL212-39	11780	8138	7 11/16	6 19/64	4 29/64	1 13/32	43/64	15/32	2 33/64	5.315	1.220	3.063	3/4	5/8	11.8
	2 1/2	UELFC213-40	UEL213-40	**57.2**	**40.1**	**205**	**170**	**120.2**	**36**	**16**	**14**	**67.6**	**145**	**34.1**	**85.7**	**19**	**M16**	**6.2**
65		UELFC213	UEL213	12859	9015	8 1/16	6 11/64	4 47/64	1 13/32	5/8	35/64	2 21/32	5.708	1.343	3.374	3/4	5/8	13.6
	2 3/4	UELFC214-44	UEL214-44	**62.2**	**44.1**	**215**	**177**	**125.1**	**40**	**17**	**14**	**68.6**	**150**	**34.1**	**85.7**	**19**	**M16**	**7.7**
70		UELFC214	UEL214	13983	9914	8 15/32	6 31/32	4 59/64	1 9/16	43/64	35/64	2 45/64	5.905	1.343	3.374	3/4	5/8	16.9
	2 15/16	UELFC215-47	UEL215-47	**67.4**	**48.3**	**220**	**184**	**130.1**	**40**	**18**	**16**	**72.8**	**160**	**37.3**	**92.1**	**19**	**M16**	**7.7**
75		UELFC215	UEL215	15152	10858	8 21/32	7 1/4	5 1/8	1 9/16	45/64	5/8	2 55/64	6.299	1.469	3.626	3/4	5/8	17.0
	3	UELFC215-48	UEL215-48															

UELT 200 INDUSTRIAL ECCENTRIC LOCKING COLLAR SERIES
CAST-IRON TAKE-UP HOUSED UNITS

- UELT take-up units are suggested for industrial applications where normal loads are encountered.
- UELT take-up units are used where shaft adjustment and belt-tightening devices are required, such as in conveyor applications.
- These units provide compact, efficient supports for adjustable shafts and conveyer take-up pulleys.
- Each unit comes assembled and ready for mounting.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UELT series housed units feature the Timken eccentric locking collar (UEL) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for industrial applications involving wet or dirty environments.
- Slot spacing and width are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Basic Load Ratings		Dimensions															Wt.
				Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	S	B_1	L_3	N_1	N_2	A_1	
				C_r	C_{0r}																
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
12		UELT201	UEL201																		
	½	UELT201-8	UEL201-8																		
15		UELT202	UEL202																		
	⅝	UELT202-10	UEL202-10	**12.8** 2878	**6.7** 1495	**89** 3 ½	**76** 2 53/64	**10** 13/32	**61** 2 13/32	**21** 13/16	**32** 1 ¼	**19** ¾	**94** 3 11/16	**51** 2	**17.1** 0.673	**43.7** 1.720	**51** 2	**16** ⅝	**32** 1 ¼	**12** 15/32	**0.8** 1.8
17		UELT203	UEL203																		
	¾	UELT204-12	UEL204-12																		
20		UELT204	UEL204																		
	⅞	UELT205-14	UEL205-14																		
	15/16	UELT205-15	UEL205-15	**14.0** 3147	**7.9** 1765	**89** 3 ½	**76** 2 53/64	**10** 13/32	**62** 2 7/16	**24** 15/16	**32** 1 ¼	**19** ¾	**97** 3 13/64	**51** 2	**17.5** 0.689	**44.4** 1.748	**51** 2	**16** ⅝	**32** 1 ¼	**12** 15/32	**0.9** 2.0
25		UELT205	UEL205																		
	1	UELT205-16	UEL205-16																		
	1 ⅛	UELT206-18	UEL206-18																		
30		UELT206	UEL206	**19.5** 4384	**11.3** 2540	**102** 4 1/32	**89** 3 ½	**10** 13/32	**70** 2 ¾	**28** 1 3/32	**37** 1 15/32	**22** ⅞	**113** 4 7/16	**56** 2 7/32	**18.3** 0.720	**48.4** 1.906	**57** 2 ¼	**16** ⅝	**37** 1 15/32	**12** 15/32	**1.4** 3.1
	1 3/16	UELT206-19	UEL206-19																		
	1 ¼	UELT206-20	UEL206-20																		
	1 ¼	UELT207-20	UEL207-20																		
	1 5/16	UELT207-21	UEL207-21																		
	1 ⅜	UELT207-22	UEL207-22	**25.7** 5778	**15.4** 3462	**102** 4 1/32	**89** 3 ½	**13** ½	**78** 3 1/16	**30** 1 3/16	**37** 1 15/32	**22** ⅞	**129** 5 3/32	**64** 2 17/32	**18.8** 0.740	**51.1** 2.012	**64** 2 17/32	**16** ⅝	**37** 1 15/32	**12** 15/32	**1.7** 3.8
35		UELT207	UEL207																		
	1 7/16	UELT207-23	UEL207-23																		
	1 ½	UELT208-24	UEL208-24																		
	1 9/16	UELT208-25	UEL208-25	**29.1** 6542	**17.8** 4002	**114** 4 ½	**102** 4 1/64	**16** ⅝	**88** 3 15/32	**33** 1 5/16	**49** 1 15/16	**29** 1 5/32	**144** 5 21/32	**83** 3 9/32	**21.4** 0.843	**56.3** 2.217	**83** 3 9/32	**19** ¾	**49** 1 15/16	**16** ⅝	**2.7** 6.0
40		UELT208	UEL208																		

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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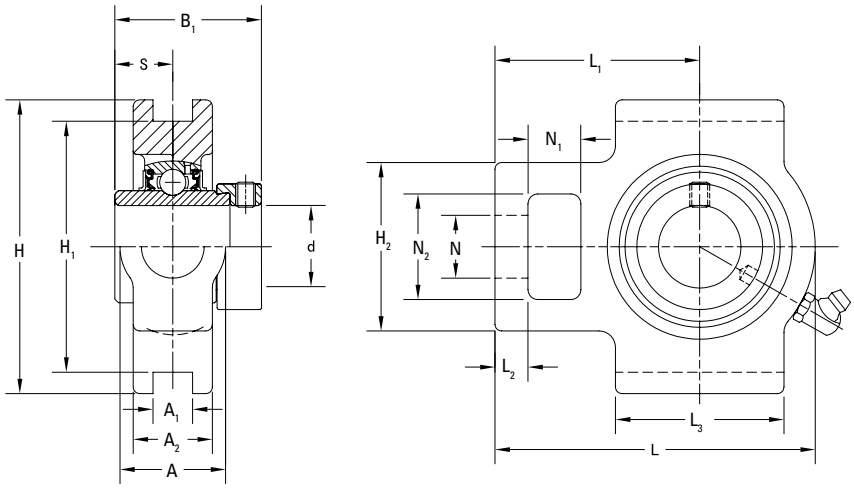

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Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Basic Load Ratings		Dimensions															Wt.
				Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	S	B_1	L_3	N_1	N_2	A_1	
				C_r	C_{0r}																
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	1 5/8	UELT209-26	UEL209-26																		
	1 11/16	UELT209-27	UEL209-27	**34.1**	**21.3**	**117**	**102**	**16**	**87**	**35**	**49**	**29**	**144**	**83**	**21.4**	**56.3**	**83**	**19**	**49**	**16**	**2.6**
	1 3/4	UELT209-28	UEL209-28	7666	4788	4 19/32	4 1/64	5/8	3 7/16	1 3/8	1 15/16	1 5/32	5 21/32	3 9/32	0.843	2.217	3 9/32	3/4	1 15/16	5/8	5.7
45		UELT209	UEL209																		
	1 7/8	UELT210-30	UEL210-30																		
	1 15/16	UELT210-31	UEL210-31	**35.1**	**23.3**	**117**	**102**	**16**	**90**	**37**	**49**	**29**	**149**	**83**	**24.6**	**62.7**	**86**	**19**	**49**	**16**	**2.8**
50		UELT210	UEL210	7891	5238	4 19/32	4 1/64	5/8	3 17/32	1 15/32	1 15/16	1 5/32	5 7/8	3 9/32	0.969	2.469	3 3/8	3/4	1 15/16	5/8	6.2
	2	UELT210-32	UEL210-32																		
	2	UELT211-32	UEL211-32																		
	2 1/8	UELT211-34	UEL211-34	**43.4**	**29.4**	**146**	**130**	**19**	**106**	**38**	**64**	**35**	**171**	**102**	**27.8**	**71.4**	**95**	**25**	**64**	**22**	**4.3**
55		UELT211	UEL211	9757	6609	5 3/4	5 1/8	3/4	4 3/16	1 1/2	2 17/32	1 3/8	6 23/32	4 1/32	1.094	2.811	3 3/4	31/32	2 17/32	55/64	9.4
	2 3/16	UELT211-35	UEL211-35																		
	2 1/4	UELT212-36	UEL212-36																		
60		UELT212	UEL212	**52.4**	**36.2**	**146**	**130**	**19**	**119**	**42**	**64**	**35**	**194**	**102**	**31.0**	**77.8**	**102**	**32**	**64**	**22**	**5.2**
	2 7/16	UELT212-39	UEL212-39	11780	8138	5 3/4	5 1/8	3/4	4 11/16	1 21/32	2 17/32	1 3/8	7 5/8	4 1/32	1.220	3.063	4 1/32	1 1/4	2 17/32	55/64	11.5
	2 1/2	UELT213-40	UEL213-40	**57.2**	**40.1**	**167**	**151**	**21**	**137**	**44**	**70**	**41**	**224**	**111**	**34.1**	**85.7**	**121**	**32**	**70**	**26**	**7.5**
65		UELT213	UEL213	12859	9015	6 9/16	5 15/16	13/16	5 13/32	1 23/32	2 3/4	1 5/8	8 13/16	4 3/8	1.343	3.374	4 3/4	1 1/4	2 3/4	1 1/32	16.5
	2 3/4	UELT214-44	UEL214-44	**62.2**	**44.1**	**167**	**151**	**21**	**137**	**46**	**70**	**41**	**224**	**111**	**34.1**	**85.7**	**121**	**32**	**70**	**26**	**7.9**
70		UELT214	UEL214	13983	9914	6 9/16	5 15/16	13/16	5 13/32	1 13/16	2 3/4	1 5/8	8 13/16	4 3/8	1.343	3.374	4 3/4	1 1/4	2 3/4	1 1/32	17.4
	2 15/16	UELT215-47	UEL215-47																		
75		UELT215	UEL215	**67.4**	**48.3**	**167**	**151**	**21**	**140**	**48**	**70**	**41**	**232**	**111**	**37.3**	**92.1**	**121**	**32**	**70**	**26**	**7.8**
	3	UELT215-48	UEL215-48	15152	10858	6 9/16	5 15/16	13/16	5 1/2	1 7/8	2 3/4	1 5/8	9 1/8	4 3/8	1.469	3.626	4 3/4	1 1/4	2 3/4	1 1/32	17.3

UEL 200 INDUSTRIAL ECCENTRIC LOCKING COLLAR SERIES
WIDE INNER RING BALL BEARINGS

- The UEL wide inner ring ball bearing uses an eccentric locking collar mechanism and is suggested for industrial applications where normal loads are encountered.
- The eccentric locking feature is ideal for non-reversing load applications.
- Bearing prelubricated and ready for immediate installation.
- The wide inner ring provides effective shaft support for a broad range of industrial applications.
- The positive contact of the land-riding bonded nitrile seal helps protect against harmful contaminants and retains lubricant under severe operating conditions.
- An external steel flinger provides additional protection from contamination.
- The UEL series features superfinished raceways, grade-10 balls for smooth running and low noise operation.
- UEL series wide inner ring ball bearings have spherical outside diameters for use in housings with corresponding spherical inside surfaces to compensate for shaft misalignment.

Shaft Dia. d		Bearing Designation	Basic Load Ratings		Dimensions								Min. Fillet Radius	Set Screw Size	Wt.
			Dia. d	Static	D	C	B_1	S_2	C_1	S	B	d_1			
			C_r	C_{0r}									r (min.)	G	
mm	in.		**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.		**kg** lbs
12		UEL201												M6x0.75	**0.3** 0.6
	½	UEL201-8												¼-28UNF	**0.3** 0.6
15		UEL202												M6x0.75	**0.3** 0.6
	⅝	UEL202-10	**12.8** 2878	**6.7** 1495	**47** 1.850	**16** 0.630	**43.7** 1.720	**4.8** 0.189	**4.0** 0.157	**17.1** 0.673	**34.2** 1.346	**33.3** 1.311	**1.0** 0.039	¼-28UNF	**0.3** 0.6
17		UEL203												M6x0.75	**0.3** 0.6
	¾	UEL204-12												¼-28UNF	**0.2** 0.5
20		UEL204												M6x0.75	**0.2** 0.5
	⅞	UEL205-14												¼-28UNF	**0.3** 0.6
	15⁄16	UEL205-15	**14.0** 3147	**7.9** 1765	**52** 2.047	**17** 0.669	**44.4** 1.748	**4.8** 0.189	**4.5** 0.177	**17.5** 0.689	**34.9** 1.374	**38.1** 1.500	**1.0** 0.039	¼-28UNF	**0.3** 0.6
25		UEL205												M6x0.75	**0.3** 0.6
	1	UEL205-16												¼-28UNF	**0.3** 0.6
	1 ⅛	UEL206-18												5⁄16-24UNF	**0.4** 0.9
30		UEL206	**19.5** 4384	**11.3** 2540	**62** 2.441	**19** 0.748	**48.4** 1.906	**6** 0.236	**5.0** 0.197	**18.3** 0.720	**36.5** 1.437	**44.5** 1.752	**1.0** 0.039	M8x1	**0.4** 0.9
	1 3⁄16	UEL206-19												5⁄16-24UNF	**0.4** 0.9
	1 ¼	UEL206-20												5⁄16-24UNF	**0.4** 0.8
	1 ¼	UEL207-20												5⁄16-24UNF	**0.7** 1.5
	1 5⁄16	UEL207-21												5⁄16-24UNF	**0.7** 1.4
	1 ⅜	UEL207-22	**25.7** 5778	**15.4** 3462	**72** 2.835	**20** 0.787	**51.1** 2.012	**6.8** 0.268	**5.7** 0.224	**18.8** 0.740	**37.6** 1.480	**55.6** 2.189	**1.1** 0.043	5⁄16-24UNF	**0.6** 1.3
35		UEL207												M8x1	**0.6** 1.3
	1 7⁄16	UEL207-23												5⁄16-24UNF	**0.6** 1.3
	1 ½	UEL208-24												5⁄16-24UNF	**0.8** 1.8
	1 9⁄16	UEL208-25	**29.1** 6542	**17.8** 4002	**80** 3.150	**21** 0.827	**56.3** 2.217	**6.8** 0.268	**6.0** 0.236	**21.4** 0.843	**42.8** 1.685	**60.3** 2.374	**1.1** 0.043	5⁄16-24UNF	**0.8** 1.7
40		UEL208												M8x1	**0.8** 1.7

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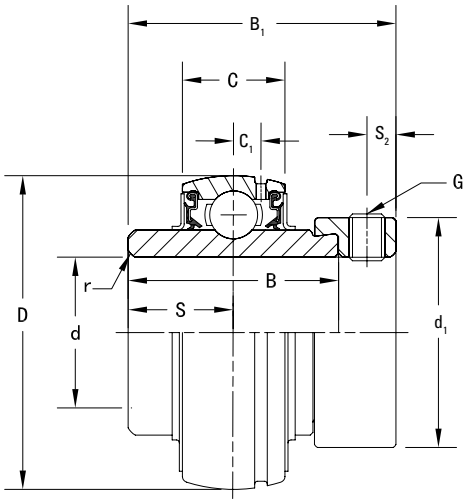

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Shaft Dia. d		Bearing Designation	Basic Load Ratings		Dimensions								Min. Fillet Radius	Set Screw Size	Wt.
			Dia. d	Static	D	C	B_1	S_2	C_1	S	B	d_1	r (min.)	G	
			C_r	C_{0r}											
mm	in.		**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.		**kg** lbs
	1 5/8	UEL209-26												5/16-24UNF	**1.0** 2.1
	1 11/16	UEL209-27	**34.1** 7666	**21.3** 4788	**85** 3.346	**22** 0.866	**56.3** 2.217	**6.8** 0.268	**6.0** 0.236	**21.4** 0.843	**42.8** 1.685	**63.5** 2.500	**1.1** 0.043	5/16-24UNF	**0.9** 2.0
	1 3/4	UEL209-28												5/16-24UNF	**0.9** 1.9
45		UEL209												M8x1	**0.9** 1.9
	1 7/8	UEL210-30												5/16-24UNF	**1.1** 2.4
	1 15/16	UEL210-31	**35.1** 7891	**23.3** 5238	**90** 3.543	**24** 0.945	**62.7** 2.469	**6.8** 0.268	**6.0** 0.236	**24.6** 0.969	**49.2** 1.937	**69.9** 2.752	**1.1** 0.043	5/16-24UNF	**1.0** 2.3
50		UEL210												M8x1	**1.0** 2.2
	2	UEL210-32												5/16-24UNF	**1.0** 2.2
	2	UEL211-32												3/8-24UNF	**1.6** 3.5
	2 1/8	UEL211-34	**43.4** 9757	**29.4** 6609	**100** 3.937	**25** 0.984	**71.4** 2.811	**8.0** 0.315	**7.0** 0.276	**27.8** 1.094	**55.5** 2.185	**76.2** 3.000	**1.5** 0.059	3/8-24UNF	**1.5** 3.3
55		UEL211												M10x1.25	**1.4** 3.1
	2 3/16	UEL211-35												3/8-24UNF	**1.4** 3.0
	2 1/4	UEL212-36												3/8-24UNF	**2.0** 4.5
60		UEL212	**52.4** 11780	**36.2** 8138	**110** 4.431	**27** 1.063	**77.8** 3.063	**8.0** 0.315	**7.5** 0.295	**31.0** 1.220	**61.9** 2.437	**84.2** 3.315	**1.5** 0.059	M10x1.25	**1.9** 4.1
	2 7/16	UEL212-39												3/8-24UNF	**1.9** 4.3
	2 1/2	UEL213-40	**57.2** 12859	**40.1** 9015	**120** 4.724	**28** 1.102	**85.7** 3.374	**8.5** 0.335	**7.5** 0.295	**34.1** 1.343	**68.2** 2.685	**92** 3.622	**1.5** 0.059	3/8-24UNF	**2.5** 5.5
65		UEL213												M10x1.25	**2.5** 5.4
	2 3/4	UEL214-44	**62.2** 13983	**44.1** 9914	**125** 4.921	**30** 1.181	**85.7** 3.374	**8.5** 0.335	**9.0** 0.354	**34.1** 1.343	**68.2** 2.685	**97** 3.819	**1.5** 0.059	3/8-24UNF	**2.9** 6.5
70		UEL214												M10x1.25	**2.9** 6.4
	2 15/16	UEL215-47												3/8-24UNF	**2.7** 6.0
75		UEL215	**67.4** 15152	**48.3** 10858	**130** 5.118	**32** 1.260	**92.1** 3.626	**8.5** 0.335	**9.0** 0.354	**37.3** 1.469	**74.6** 2.937	**102** 4.016	**1.5** 0.059	M10x1.25	**2.7** 6.0
	3	UEL215-48												3/8-24UNF	**2.7** 6.0

UK 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES

The following topics are covered within this section:

UKP 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES CAST-IRON PILLOW BLOCK HOUSED UNITS

- UKP pillow blocks are suggested for industrial applications where normal loads are encountered.
- Compact, one-piece housing with two-bolt mounting can be installed in any position and makes bearing replacement easy.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UKP series housed units feature the Timken tapered bore (UK) bearing insert for use with adapter sleeve.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing and base-to-center height dimensions are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Pillow Block Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
					Dynamic	Static	H	L	L_1	A	H_1	J	H_2	Y	B_1	N	N_1		
					C_r	C_{0r}													
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	¾	UKP205	UK205	HE2305	3147	1765	1 7⁄16	5 ½	1 ½	1 ½	⅝	4 ⅛	2 ¾	0.781	1.378	½	23⁄32	⅜	2.0
20				H2305	**14**	**7.85**	**36.5**	**140**	**38**	**38**	**16**	**105**	**70**	**20.0**	**35**	**13**	**18**	**M10**	**0.9**
25		UKP206	UK206	H2306	**19.5**	**11.3**	**42.9**	**165**	**48**	**48**	**17**	**121**	**84**	**21.5**	**38**	**17**	**21**	**M14**	**1.4**
	1			HE2306	4384	2540	1 11⁄16	6 ½	1 ⅞	1 ⅞	21⁄32	4 ¾	3 5⁄16	0.844	1.496	21⁄32	13⁄16	½	3.0
	1 ⅛	UKP207	UK207	HS2307	5778	3462	1 ⅞	6 9⁄16	1 27⁄32	1 ⅞	23⁄32	5	3 ¾	0.938	1.693	21⁄32	13⁄16	½	3.9
30				H2307	**25.7**	**15.4**	**47.6**	**167**	**47**	**48**	**18**	**127**	**95**	**24.0**	**43**	**17**	**21**	**M14**	**1.8**
	1 ¼	UKP208	UK208	HE2308	6542	4002	1 15⁄16	7 ¼	2 3⁄32	2 ⅛	23⁄32	5 13⁄32	3 27⁄32	1.063	1.811	21⁄32	13⁄16	½	4.5
35				H2308	**29.1**	**17.8**	**49.2**	**184**	**53**	**54**	**18**	**137**	**98**	**27.0**	**46**	**17**	**21**	**M14**	**2.0**
	1 ½	UKP209	UK209	HE2309	7666	4788	2 ⅛	7 15⁄32	2 5⁄32	2 ⅛	25⁄32	5 ¾	4 3⁄16	1.156	1.969	21⁄32	13⁄16	½	5.3
40				H2309	**34.1**	**21.3**	**54.0**	**190**	**55**	**54**	**20**	**146**	**106**	**29.0**	**50**	**17**	**21**	**M14**	**2.4**
	1 ¾	UKP210	UK210	HE2310	7891	5238	2 ¼	8 ⅛	2 ⅜	2 ⅜	13⁄16	6 ¼	4 7⁄16	1.188	2.165	25⁄32	⅞	⅝	6.9
45				H2310	**35.1**	**23.3**	**57.2**	**206**	**60**	**60**	**21**	**159**	**113**	**30.0**	**55**	**20**	**22**	**M16**	**3.1**
50		UKP211	UK211	H2311	**43.4**	**29.4**	**63.5**	**219**	**65**	**60**	**23**	**171**	**125**	**32.0**	**59**	**20**	**22**	**M16**	**3.8**
	2			HE2311	9757	6609	2 ½	8 ⅝	2 9⁄16	2 ⅜	29⁄32	6 23⁄32	4 29⁄32	1.250	2.323	25⁄32	⅞	⅝	8.3

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.
[2] Note: Adapter sleeve of the desired size should be ordered separately.

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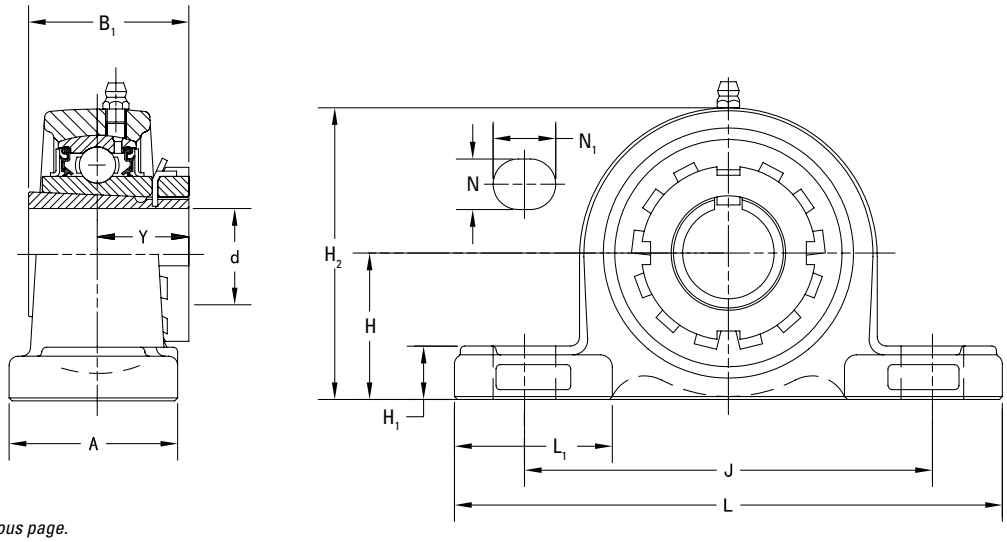

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Shaft Dia. d		Pillow Block Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
					Dynamic	Static	H	L	L_1	A	H_1	J	H_2	Y	B_1	N	N_1		
					C_r	C_{0r}													
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 1/8	UKP212	UK212	HS2312	11780	8138	2 3/4	9 1/2	2 7/8	2 3/4	31/32	7 1/4	5 7/16	1.438	2.441	25/32	31/32	5/8	10.6
55				H2312	**52.4**	**36.2**	**69.8**	**241**	**73**	**70**	**25**	**184**	**138**	**36.5**	**62**	**20**	**25**	**M16**	**4.8**
	2 1/4	UKP213	UK213	HE2313	11780	8138	3	10 7/16	3 1/16	2 3/4	31/32	7 1/4	5 7/16	1.438	2.441	25/32	31/32	5/8	10.6
60				H2313	**57.2**	**40.1**	**76.2**	**265**	**78**	**70**	**27**	**203**	**150**	**37.5**	**65**	**25**	**30**	**M20**	**5.6**
	2 1/2	UKP215	UK215	HE2315	15152	10858	3 1/4	10 13/16	3 1/16	2 29/32	1 3/32	8 17/32	6 3/8	1.594	2.874	31/32	1 3/16	3/4	17.1
65				H2315	**67.4**	**48.3**	**82.6**	**275**	**78**	**74**	**28**	**217**	**162**	**40.5**	**73**	**25**	**30**	**M20**	**7.8**
	2 3/4	UKP216	UK216	HE2316	16344	11915	3 1/2	11 1/2	3 9/32	3 1/16	1 3/16	9 1/8	6 27/32	1.750	3.071	31/32	1 3/8	3/4	20.5
70				H2316	**72.7**	**53.0**	**88.9**	**292**	**83**	**78**	**30**	**232**	**174**	**44.5**	**78**	**25**	**35**	**M20**	**9.3**
75		UKP217	UK217	H2317	**84**	**61.9**	**95.2**	**310**	**87**	**83**	**32**	**247**	**185**	**46.5**	**82**	**25**	**35**	**M20**	**11.2**
	3			HE2317	18884	13916	3 3/4	12 7/32	3 7/16	3 9/32	1 1/4	9 23/32	7 9/32	1.828	3.228	31/32	1 3/8	3/4	24.7
80		UKP218	UK218	H2318	**96.1**	**71.5**	**101.6**	**327**	**94**	**88**	**33**	**262**	**198**	**49.5**	**86**	**27**	**40**	**M22**	**13.5**

[2] Note: Adapter sleeve of the desired size should be ordered separately.

UKF 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES CAST-IRON FOUR-BOLT FLANGED HOUSED UNITS

- UKF four-bolt flanged units are suggested for industrial applications where normal loads are encountered.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UKF series housed units feature the Timken tapered bore (UK) bearing insert for use with adapter sleeve.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
					Dynamic	Static	L	J	A_1	A	A_0	Y	B_1	A_2	N		
					C_r	C_{0r}											
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	¾	UKF205	UK205	HE2305	3147	1765	3 ¾	2 ¾	½	1 1⁄16	1 13⁄32	0.781	1.378	⅝	15⁄32	⅜	1.9
20				H2305	**14.0**	**7.9**	**95**	**70**	**13**	**27**	**36.0**	**20.0**	**35**	**16**	**12**	**M10**	**0.9**
25		UKF206	UK206	H2306	**19.5**	**11.3**	**108**	**83**	**13**	**31**	**39.5**	**21.5**	**38**	**18**	**12**	**M10**	**1.3**
	1			HE2306	4384	2540	4 ¼	3 17⁄64	½	1 7⁄32	1 9⁄16	0.844	1.496	45⁄64	15⁄32	⅜	2.9
	1 ⅛	UKF207	UK207	HS2307	5778	3462	4 19⁄32	3 ⅝	19⁄32	1 11⁄32	1 11⁄16	0.938	1.693	¾	35⁄64	7⁄16	3.5
30				H2307	**25.7**	**15.4**	**117**	**92**	**15**	**34**	**43.0**	**24.0**	**43**	**19**	**14**	**M12**	**1.6**
	1 ¼	UKF208	UK208	HE2308	6542	4002	5 ⅛	4 1⁄64	19⁄32	1 13⁄32	1 ⅞	1.063	1.811	53⁄64	⅝	½	4.2
35				H2308	**29.1**	**17.8**	**130**	**102**	**15**	**36**	**48.0**	**27.0**	**46**	**21**	**16**	**M14**	**1.9**
	1 ½	UKF209	UK209	HE2309	7666	4788	5 13⁄32	4 9⁄64	⅝	1 ½	2	1.156	1.969	55⁄64	⅝	½	5.1
40				H2309	**34.1**	**21.3**	**137**	**105**	**16**	**38**	**51.0**	**29.0**	**50**	**22**	**16**	**M14**	**2.3**
	1 ¾	UKF210	UK210	HE2310	7891	5238	5 ⅝	4 ⅜	⅝	1 9⁄16	2 1⁄16	1.188	2.165	55⁄64	⅝	½	5.7
45				H2310	**35.1**	**23.3**	**143**	**111**	**16**	**40**	**52.0**	**30.0**	**55**	**22**	**16**	**M14**	**2.6**
50		UKF211	UK211	H2311	**43.4**	**29.4**	**162**	**130**	**18**	**43**	**57.5**	**32.0**	**59**	**25**	**19**	**M16**	**3.5**
	2			HE2311	9757	6609	6 ⅜	5 ⅛	23⁄32	1 11⁄16	2 ¼	1.250	2.323	63⁄64	¾	⅝	7.7

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.
[2] Note: Adapter sleeve of the desired size should be ordered separately.

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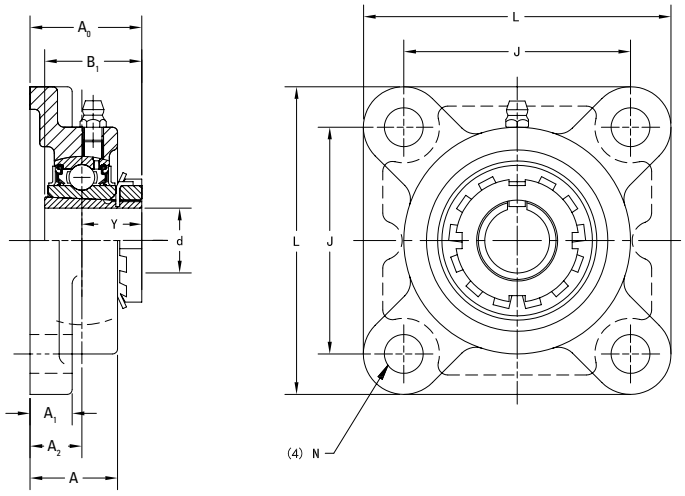
UKF 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES • CAST-IRON FOUR-BOLT FLANGED HOUSED UNITS



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Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
					Dynamic	Static	L	J	A_1	A	A_0	Y	B_1	A_2	N		
					C_r	C_{0r}											
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 1/8	UKF212	UK212	HS2312	11780	8138	6 7/8	5 5/8	23/32	1 7/8	2 19/32	1.438	2.441	1 9/64	3/4	5/8	9.0
55				H2312	**52.4**	**36.2**	**175**	**143**	**18**	**48**	**65.5**	**36.5**	**62**	**29**	**19**	**M16**	**4.1**
	2 1/4	UKF213	UK213	HE2313	12859	9015	7 3/8	5 55/64	7/8	1 31/32	2 21/32	1.469	2.559	1 3/16	3/4	5/8	11.2
60				H2313	**57.2**	**40.1**	**187**	**149**	**22**	**50**	**67.5**	**37.5**	**65**	**30**	**19**	**M16**	**5.1**
	2 1/2	UKF215	UK215	HE2315	15152	10858	7 7/8	6 17/64	7/8	2 7/32	2 15/16	1.594	2.874	1 11/32	3/4	5/8	14.3
65				H2315	**67.4**	**48.3**	**200**	**159**	**22**	**56**	**74.5**	**40.5**	**73**	**34**	**19**	**M16**	**6.5**
	2 3/4	UKF216	UK216	HE2316	15152	10858	7 7/8	6 17/64	7/8	2 7/32	2 15/16	1.594	2.874	1 11/32	3/4	5/8	14.3
70				H2316	**72.7**	**53.0**	**208**	**165**	**22**	**58**	**78.5**	**44.5**	**78**	**34**	**23**	**M20**	**7.6**
75		UKF217	UK217	H2317	**84.0**	**61.9**	**220**	**175**	**24**	**63**	**82.5**	**46.5**	**82**	**36**	**23**	**M20**	**9.0**
	3			HE2317	18884	13916	8 21/32	6 57/64	15/16	2 15/32	3 1/4	1.828	3.228	1 27/64	29/32	3/4	19.8
80		UKF218	UK218	H2318	**96.1**	**71.5**	**235**	**187**	**25**	**68**	**89.5**	**49.5**	**86**	**40**	**23**	**M20**	**11.4**
	-				21604	16074	9 1/4	7 23/64	31/32	2 11/16	3 17/32	1.953	3.386	1 37/64	29/32	3/4	25.1

[2] Note: Adapter sleeve of the desired size should be ordered separately.

UKFL 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES CAST-IRON TWO-BOLT FLANGED HOUSED UNITS

- UKFL two-bolt flanged units are suggested for industrial applications where normal loads are encountered.
- This series is primarily designed for applications where the mounting area is restricted.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UKFL series housed units feature the Timken tapered bore (UK) bearing insert for use with adapter sleeve.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
					Dynamic	Static	H	J	A_1	A	A_0	L	A_2	Y	B_1	N		
					C_r	C_{0r}												
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	¾	UKFL205	UK205	HE2305	3147	1765	5 1/8	3 57/64	½	1 1/16	1 13/32	2 11/16	5/8	0.781	1.378	5/8	½	1.5
20				H2305	**14.0**	**7.9**	**130**	**99**	**13**	**27**	**36.0**	**68**	**16**	**20.0**	**35**	**16**	**M14**	**0.7**
25		UKFL206	UK206	H2306	**19.5**	**11.3**	**148**	**117**	**13**	**31**	**39.5**	**80**	**18**	**21.5**	**38**	**16**	**M14**	**1.0**
	1			HE2306	4384	2540	5 13/16	4 39/64	½	1 7/32	1 9/16	3 5/32	45/64	0.844	1.496	5/8	½	2.1
	1 1/8	UKFL207	UK207	HS2307	5778	3462	5 11/32	5 1/8	9/16	1 11/32	1 11/16	3 17/32	¾	0.938	1.693	5/8	½	2.9
30				H2307	**25.7**	**15.4**	**161**	**130**	**14**	**34**	**43.0**	**90**	**19**	**24.0**	**43**	**16**	**M14**	**1.3**
	1 ¼	UKFL208	UK208	HE2308	6542	4002	6 7/8	5 43/64	9/16	1 13/32	1 7/8	3 15/16	53/64	1.063	1.811	5/8	½	3.5
35				H2308	**29.1**	**17.8**	**175**	**144**	**14**	**36**	**48.0**	**100**	**21**	**27.0**	**46**	**16**	**M14**	**1.6**
	1 ½	UKFL209	UK209	HE2309	7666	4788	7 13/32	5 53/64	19/32	1 ½	2	4 ¼	55/64	1.156	1.969	¾	5/8	4.4
40				H2309	**34.1**	**21.3**	**188**	**148**	**15**	**38**	**51.0**	**108**	**22**	**29.0**	**50**	**19**	**M16**	**2.0**
	1 ¾	UKFL210	UK210	HE2310	7891	5238	7 ¾	6 3/16	19/32	1 9/16	2 1/16	4 17/32	55/64	1.188	2.165	¾	5/8	5.1
45				H2310	**35.1**	**23.3**	**197**	**157**	**15**	**40**	**52.0**	**115**	**22**	**30.0**	**55**	**19**	**M16**	**2.3**
50		UKFL211	UK211	H2311	**43.4**	**29.4**	**224**	**184**	**18**	**43**	**57.0**	**130**	**25**	**32.0**	**59**	**19**	**M16**	**3.3**
	2			HE2311	9757	6609	8 13/16	7 ¼	23/32	1 11/16	2 ¼	5 1/8	63/64	1.250	2.323	¾	5/8	7.3

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.
[2] Note: Adapter sleeve of the desired size should be ordered separately.

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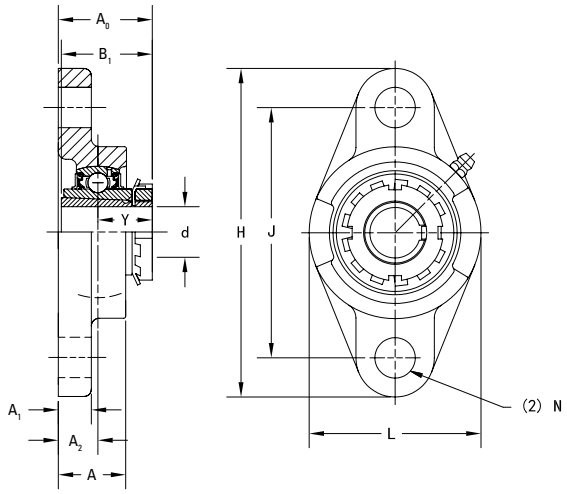
UKFL 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES • CAST-IRON TWO-BOLT FLANGED HOUSED UNITS



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Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
					Dynamic	Static	H	J	A_1	A	A_0	L	A_2	Y	B_1	N		
					C_r	C_{0r}												
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 1/8	UKFL212	UK212	HS2312	11780	8138	9 27/32	7 61/64	23/32	1 7/8	2 19/32	5 1/2	1 9/64	1.438	2.441	29/32	3/4	9.0
55				H2312	**52.4**	**36.2**	**250**	**202**	**18**	**48**	**65.5**	**140**	**29**	**36.5**	**62**	**23**	**M20**	**4.1**
	2 1/4	UKFL213	UK213	HE2313	12859	9015	10 5/32	8 17/64	25/32	1 31/32	2 21/32	6 3/32	1 3/16	1.469	2.559	29/32	3/4	11.0
60				H2313	**57.2**	**40.1**	**258**	**210**	**20**	**50**	**67.5**	**155**	**30**	**37.5**	**65**	**23**	**M20**	**5.0**
	2 1/2	UKFL215	UK215	HE2315	15152	10858	10 13/16	8 55/64	25/32	2 7/32	2 15/16	6 1/2	1 11/32	1.594	2.874	29/32	3/4	14.6
65				H2315	**67.4**	**48.3**	**275**	**225**	**20**	**56**	**74.5**	**165**	**34**	**40.5**	**73**	**23**	**M20**	**6.6**
	2 3/4	UKFL216	UK216	HE2316	16344	11915	11 13/32	9 11/64	25/32	2 9/32	3 3/32	7 3/32	1 11/32	1.750	3.071	63/64	7/8	17.9
70				H2316	**72.7**	**53.0**	**290**	**233**	**20**	**58**	**78.5**	**180**	**34**	**44.5**	**78**	**25**	**M22**	**8.1**
75		UKFL217	UK217	H2317	**84.0**	**61.9**	**305**	**248**	**22**	**63**	**82.5**	**190**	**36**	**46.5**	**82**	**25**	**M22**	**9.9**
	3			HE2317	18884	13916	12	9 49/64	7/8	2 15/32	3 1/4	7 19/32	1 27/64	1.828	3.228	63/64	7/8	21.8
80		UKFL218	UK218	H2318	**96.1**	**71.5**	**320**	**265**	**23**	**68**	**89.5**	**205**	**40**	**49.5**	**86**	**25**	**M22**	**12.2**
	-				21604	16074	12 19/32	10 7/16	29/32	2 11/16	3 17/32	8 1/16	1 37/64	1.953	3.386	63/64	7/8	26.9

[2] Note: Adapter sleeve of the desired size should be ordered separately.

UKFC 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES
CAST-IRON PILOTED ROUND FLANGED HOUSED UNITS

- UKFC piloted round flanged units are suggested for industrial applications where normal loads are encountered.
- UKFC piloted round flanged units ensure accurate mounting fits and provide better support for heavy loads.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UKFC series housed units feature the Timken tapered bore (UK) bearing insert for use with adapter sleeve.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for industrial applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Round Flange Cartridge Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
					Dynamic	Static	L	J	J_1	A_1	A_2	A_3	A_4	H_3	Y	B_1	N		
					C_r	C_{0r}													
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	¾	UKFC205	UK205	HE2305	3147	1765	4 17/32	3 35/64	2 ½	13/16	25/64	15/64	1 3/16	2.756	0.781	1.378	15/32	3/8	2.2
20				H2305	**14**	**7.85**	**115**	**90**	**63.6**	**21**	**10**	**6**	**30.0**	**70**	**20.0**	**35**	**12**	**M10**	**1.0**
25		UKFC206	UK206	H2306	**19.5**	**11.3**	**125**	**100**	**70.7**	**23**	**10**	**8**	**31.5**	**80**	**21.5**	**38**	**12**	**M10**	**1.3**
	1			HE2306	4384	2540	4 29/32	3 15/16	2 25/32	29/32	25/64	5/16	1 ¼	3.150	0.844	1.496	15/32	3/8	2.9
	1 1/8	UKFC207	UK207	HS2307	5778	3462	5 5/16	4 21/64	3 1/16	1 1/32	7/16	5/16	1 3/8	3.543	0.938	1.693	35/64	7/16	3.7
30				H2307	**25.7**	**15.4**	**135**	**110**	**77.8**	**26**	**11**	**8**	**35.0**	**90**	**24.0**	**43**	**14**	**M12**	**1.7**
	1 ¼	UKFC208	UK208	HE2308	6542	4002	5 23/32	4 23/32	3 11/32	1 1/32	7/16	25/64	1 ½	3.937	1.063	1.811	35/64	7/16	4.4
35				H2308	**29.1**	**17.8**	**145**	**120**	**84.8**	**26**	**11**	**10**	**38.0**	**100**	**27.0**	**46**	**14**	**M12**	**2.0**
	1 ½	UKFC209	UK209	HE2309	7666	4788	6 5/16	5 13/64	3 43/64	1 1/32	25/64	15/32	1 17/32	4.134	1.156	1.969	5/8	½	6.0
40				H2309	**34.1**	**21.3**	**160**	**132**	**93.3**	**26**	**10**	**12**	**39.0**	**105**	**29.0**	**50**	**16**	**M14**	**2.7**
	1 ¾	UKFC210	UK210	HE2310	7891	5238	6 ½	5 7/16	3 27/32	1 3/32	25/64	15/32	1 9/16	4.331	1.188	2.165	5/8	½	6.6
45				H2310	**35.1**	**23.3**	**165**	**138**	**97.6**	**28**	**10**	**12**	**40.0**	**110**	**30.0**	**55**	**16**	**M14**	**3.0**
50		UKFC211	UK211	H2311	**43.4**	**29.4**	**185**	**150**	**106.1**	**31**	**13**	**12**	**45.5**	**125**	**32.0**	**59**	**19**	**M16**	**4.3**
	2			HE2311	9757	6609	7 3/32	5 29/32	4 11/64	1 7/32	33/64	15/32	1 25/32	4.921	1.250	2.323	¾	5/8	9.5

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.
[2] Note: Adapter sleeve of the desired size should be ordered separately.

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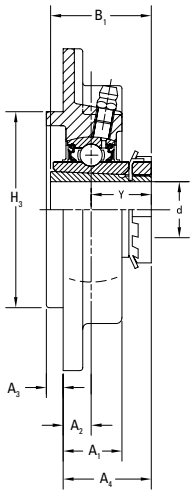

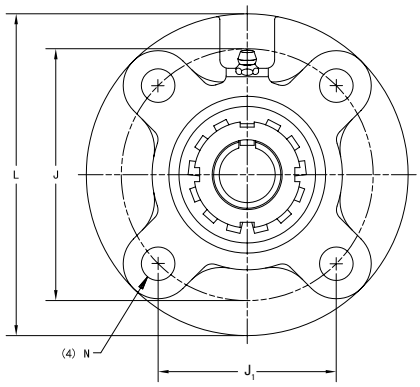

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Shaft Dia. d		Round Flange Cartridge Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
					Dynamic	Static	L	J	J_1	A_1	A_2	A_3	A_4	H_3	Y	B_1	N		
					C_r	C_{0r}													
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 1/8	UKFC212	UK212	HS2312	11780	8138	7 11/16	6 19/64	4 29/64	1 13/32	43/64	15/32	2 3/32	5.315	1.438	2.441	3/4	5/8	10.8
55				H2312	**52.4**	**36.2**	**195**	**160**	**113.1**	**36**	**17**	**12**	**53.5**	**135**	**36.5**	**62**	**19**	**M16**	**4.9**
	2 1/4	UKFC213	UK213	HE2313	12859	9015	8 1/8	6 11/64	4 47/64	1 13/32	5/8	35/64	2 3/32	5.709	1.469	2.559	3/4	5/8	12.1
60				H2313	**57.2**	**40.1**	**205**	**170**	**120.2**	**36**	**16**	**14**	**53.5**	**145**	**37.5**	**65**	**19**	**M16**	**5.5**
	2 1/2	UKFC215	UK215	HE2315	15152	10858	8 21/32	7 1/4	5 1/8	1 9/16	45/64	5/8	2 5/16	6.299	1.594	2.874	3/4	5/8	16.3
65				H2315	**67.4**	**48.3**	**220**	**184**	**130.1**	**40**	**18**	**16**	**58.5**	**160**	**40.5**	**73**	**19**	**M16**	**7.4**
	2 3/4	UKFC216	UK216	HE2316	16344	11915	9 7/16	7 7/8	5 9/16	1 13/32	45/64	5/8	2 15/32	6.693	1.750	3.071	29/32	3/4	19.8
70				H2316	**72.7**	**53.0**	**240**	**200**	**141.4**	**42**	**18**	**16**	**62.5**	**170**	**44.5**	**78**	**23**	**M20**	**9.0**
75		UKFC217	UK217	H2317	**84.0**	**61.9**	**250**	**208**	**147.1**	**45**	**18**	**18**	**64.5**	**180**	**46.5**	**82**	**23**	**M20**	**10.4**
	3			HE2317	18884	13916	9 27/32	8 3/16	5 51/64	1 25/32	45/64	45/64	2 17/32	7.087	1.828	3.228	29/32	3/4	22.9
80		UKFC218	UK218	H2318	**96.1**	**71.5**	**265**	**220**	**155.5**	**50**	**22**	**18**	**71.5**	**190**	**49.5**	**86**	**23**	**M20**	**13.3**
	-				21604	16074	10 7/16	8 21/32	6 1/8	1 31/32	55/64	45/64	2 13/16	7.480	1.953	3.386	29/32	3/4	29.3

[2] Note: Adapter sleeve of the desired size should be ordered separately.

UKT 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES CAST-IRON TAKE-UP HOUSED UNITS

- UKT take-up units are suggested for industrial applications where normal loads are encountered.
- UKT take-up units are used where shaft adjustment and belt-tightening devices are required, such as in conveyor applications.
- These units provide compact, efficient supports for adjustable shafts and conveyer take-up pulleys.
- Each unit comes assembled and ready for mounting.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UKT series housed units feature the Timken tapered bore (UK) bearing insert for use with adapter sleeve.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for industrial applications involving wet or dirty environments.
- Slot spacing and width are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions																Wt.
					Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	Y	B_1	L_3	N_1	N_2	A_1	
					C_r	C_{0r}																	
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	¾	UKT205	UK205	HE2305	3147	1765	3 ½	2 53/64	13/32	2 7/16	15/16	1 ¼	¾	3 13/16	2	0.781	1.378	2	5/8	1 ¼	15/32	1.9
20				H2305	**14.0**	**7.9**	**89**	**76**	**10**	**62**	**24**	**32**	**19**	**97**	**51**	**20.0**	**35**	**51**	**16**	**32**	**12**	**0.9**
25		UKT206	UK206	H2306	**19.5**	**11.3**	**102**	**89**	**10**	**70**	**28**	**37**	**22**	**113**	**56**	**21.5**	**38**	**57**	**16**	**37**	**12**	**1.3**
	1			HE2306	4384	2540	4 1/32	3 ½	13/32	2 ¾	1 3/32	1 15/32	⅞	4 7/16	2 7/32	0.844	1.496	2 ¼	5/8	1 15/32	15/32	2.9
	1 ⅛	UKT207	UK207	HS2307	5778	3462	4 1/32	3 ½	½	3 1/16	1 3/16	1 15/32	⅞	5 3/32	2 17/32	0.938	1.693	2 17/32	5/8	1 15/32	15/32	3.7
30				H2307	**25.7**	**15.4**	**102**	**89**	**13**	**78**	**30**	**37**	**22**	**129**	**64**	**24.0**	**43**	**64**	**16**	**37**	**12**	**1.7**
	1 ¼	UKT208	UK208	HE2308	6542	4002	4 ½	4 1/64	5/8	3 15/32	1 5/16	1 15/16	1 5/32	5 21/32	3 9/32	1.063	1.811	3 9/32	¾	1 15/16	5/8	5.5
35				H2308	**29.1**	**17.8**	**114**	**102**	**16**	**88**	**33**	**49**	**29**	**144**	**83**	**27.0**	**46**	**83**	**19**	**49**	**16**	**2.5**
	1 ½	UKT209	UK209	HE2309	7666	4788	4 19/32	4 1/64	5/8	3 7/16	1 3/8	1 15/16	1 5/32	5 21/32	3 9/32	1.156	1.969	3 9/32	¾	1 15/16	5/8	5.5
40				H2309	**34.1**	**21.3**	**117**	**102**	**16**	**87**	**35**	**49**	**29**	**144**	**83**	**29.0**	**50**	**83**	**19**	**49**	**16**	**2.5**
	1 ¾	UKT210	UK210	HE2310	7891	5238	4 19/32	4 1/64	5/8	3 17/32	1 15/32	1 15/16	1 5/32	5 7/8	3 9/32	1.188	2.165	3 3/8	¾	1 15/16	5/8	6.0
45				H2310	**35.1**	**23.3**	**117**	**102**	**16**	**90**	**37**	**49**	**29**	**149**	**83**	**30.0**	**55**	**86**	**19**	**49**	**16**	**2.7**
50		UKT211	UK211	H2311	**43.4**	**29.4**	**146**	**130**	**16**	**106**	**38**	**64**	**35**	**171**	**102**	**32.0**	**59**	**95**	**25**	**64**	**22**	**4.1**
	2			HE2311	9757	6609	5 ¾	5 ⅛	5/8	4 3/16	1 ½	2 17/32	1 3/8	6 23/32	4 ½	1.250	2.323	3 ¾	31/32	2 17/32	55/64	9.0

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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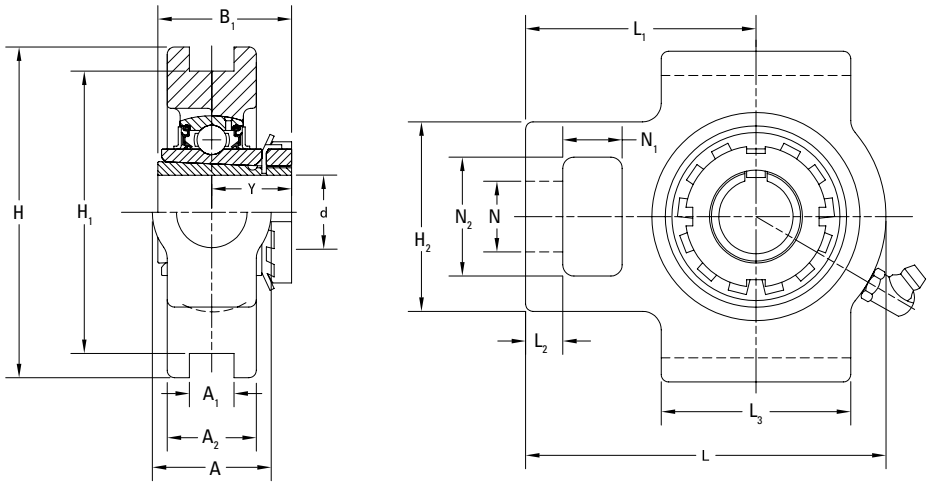
[2] Note: Adapter sleeve of the desired size should be ordered separately.



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Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Adapter[2] Designation	Basic Load Ratings		Dimensions														Wt.
					Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	Y	B_1	L_3	N_1	N_2	A_1	
					C_r	C_{0r}																
mm	in.				**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 1/8	UKT212	UK212	HS2312	11780	8138	5 3/4	5 1/8	3/4	4 11/16	1 21/32	2 17/32	1 3/8	7 5/8	4 1/32	1.438	2.441	4 1/32	1 1/4	2 17/32	55/64	10.6
55				H2312	**52.4**	**36.2**	**146**	**130**	**19**	**119**	**42**	**64**	**35**	**194**	**102**	**36.5**	**62**	**102**	**32**	**64**	**22**	**4.8**
	2 1/4	UKT213	UK213	HE2313	12859	9015	6 9/16	5 15/16	13/16	5 13/32	1 23/32	2 3/4	1 5/8	8 13/16	4 3/8	1.469	2.539	4 3/4	1 1/4	2 3/4	1 1/32	15.0
60				H2313	**57.2**	**40.1**	**167**	**151**	**21**	**137**	**44**	**70**	**41**	**224**	**111**	**37.5**	**65**	**121**	**32**	**70**	**26**	**6.8**
	2 1/2	UKT215	UK215	HE2315	15152	10858	6 9/16	5 15/16	13/16	5 1/2	1 7/8	2 3/4	1 5/8	9 1/8	4 3/8	1.594	2.874	4 3/4	1 1/4	2 3/4	1 1/32	16.3
65				H2315	**67.4**	**48.3**	**167**	**151**	**21**	**140**	**48**	**70**	**41**	**232**	**111**	**40.5**	**73**	**121**	**32**	**70**	**26**	**7.4**
	2 3/4	UKT216	UK216	HE2316	16344	11915	7 1/4	6 1/2	13/16	5 1/2	2	2 3/4	1 5/8	9 1/4	4 3/8	1.750	3.071	4 3/4	1 1/4	2 3/4	1 1/32	18.7
70				H2316	**72.7**	**53.0**	**184**	**165**	**21**	**140**	**51**	**70**	**41**	**235**	**111**	**44.5**	**78**	**121**	**32**	**70**	**26**	**8.5**
75		UKT217	UK217	H2317	**84.0**	**61.9**	**198**	**173**	**29**	**162**	**54**	**73**	**48**	**260**	**124**	**46.5**	**82**	**157**	**38**	**73**	**30**	**11.2**
	3			HE2317	18884	13916	7 25/32	6 13/16	1 5/32	6 3/8	2 1/8	2 7/8	1 7/8	10 1/4	4 7/8	1.828	3.228	6 3/16	1 1/2	2 7/8	1 3/16	24.7

[2] Note: Adapter sleeve of the desired size should be ordered separately.

UK 200 INDUSTRIAL TAPERED BORE FOR USE WITH ADAPTER SLEEVE LOCKING SERIES WIDE INNER RING BALL BEARINGS

- The UK tapered bore wide inner ring ball bearing uses an adapter sleeve locking mechanism and is suggested for industrial applications where normal loads are encountered [(1)].
- The adapter locking feature is used in applications where the bearings are exposed to excessive vibration and impact.
- Adapter locking results in high concentricity.
- Adapter locking prevents fretting corrosion under adverse conditions.
- Bearing prelubricated and ready for immediate installation.
- The wide inner ring provides effective shaft support for a broad range of industrial applications.
- The positive contact of the land-riding bonded nitrile seal helps protect against harmful contaminants and retains lubricant under severe operating conditions.
- An external steel flinger provides additional protection from contamination.
- The UK series features superfinished raceways, grade-10 balls for smooth running and low noise operation.
- UK series wide inner ring ball bearings have spherical outside diameters for use in housings with corresponding spherical inside surfaces to compensate for shaft misalignment.

Shaft Dia. d		Bearing Designation	Adapter[1] Designation	Basic Load Ratings		Dimensions								Min. Fillet Radius		Wt.
				Dynamic	Static	D	C	B	C_1	d_1	d_2	B_1	B_2	r (min.)	r_1 (min)	
				C_r	C_{0r}											
mm	in.			**kN** lbs.	**kN** lbs.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs.
	¾	UK205	HE2305	3147	1765	2.047	0.669	0.945	0.177	0.984	1.496	1.378	0.315	0.043	0.024	0.4
20			H2305	**14.0**	**7.9**	**52**	**17**	**24**	**4.5**	**25**	**38**	**35**	**8.0**	**1.1**	**0.6**	**0.2**
25		UK206	H2306	**19.5**	**11.3**	**62**	**19**	**27**	**5.0**	**30**	**45**	**38**	**8.0**	**1.1**	**0.6**	**0.3**
	1		HE2306	4384	2540	2.441	0.748	1.063	0.197	1.181	1.772	1.496	0.315	0.043	0.024	0.6
	1 ⅛	UK207	HS2307	5778	3462	2.835	0.787	1.181	0.224	1.378	2.047	1.693	0.354	0.043	0.020	0.9
30			H2307	**25.7**	**15.4**	**72**	**20**	**30**	**5.7**	**35**	**52**	**43**	**9.0**	**1.1**	**0.5**	**0.4**
	1 ¼	UK208	HE2308	6542	4002	3.150	0.827	1.339	0.236	1.575	2.283	1.811	0.394	0.060	0.020	1.3
35			H2308	**29.1**	**17.8**	**80**	**21**	**34**	**6.0**	**40**	**58**	**46**	**58**	**1.5**	**0.5**	**0.6**
	1 ½	UK209	HE2309	7666	4788	3.346	0.866	1.417	0.236	1.772	2.559	1.969	0.433	0.060	0.020	1.4
40			H2309	**34.1**	**21.3**	**85**	**22**	**36**	**6.0**	**45**	**65**	**50**	**11.0**	**1.5**	**0.5**	**0.7**
	1 ¾	UK210	HE2310	7891	5238	3.543	0.945	1.417	0.236	1.969	2.756	2.165	0.472	0.060	0.020	1.4
45			H2310	**35.1**	**23.3**	**90**	**24**	**36**	**6.0**	**50**	**70**	**55**	**12.0**	**1.5**	**0.5**	**0.7**
50		UK211	H2311	**43.4**	**29.4**	**100**	**25**	**40**	**7.0**	**55**	**75**	**59**	**12.5**	**1.5**	**0.5**	**1.1**
	2		HE2311	9757	6609	3.937	0.984	1.575	0.276	2.165	2.953	2.323	0.492	0.060	0.020	2.4

[(1)] Note: Adapter sleeve of the desired size should be ordered separately.

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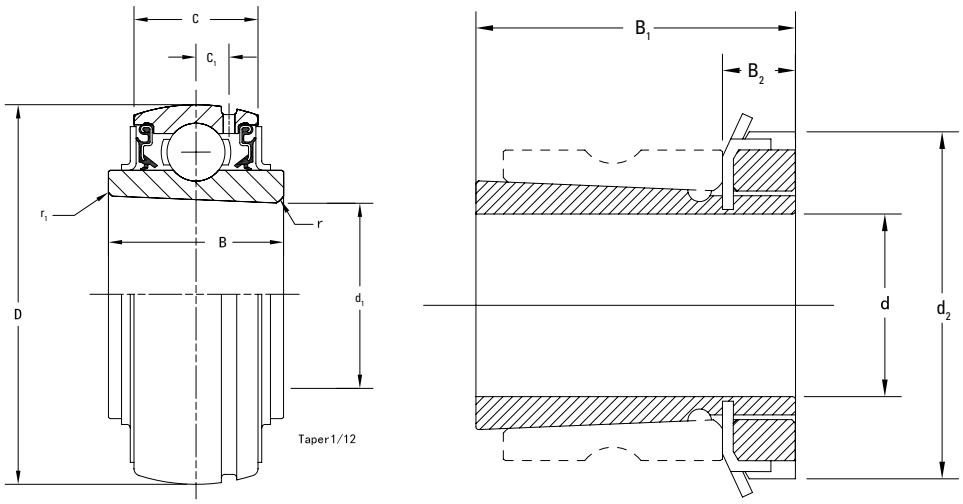

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Shaft Dia. d		Bearing Designation	Adapter[1] Designation	Basic Load Ratings		Dimensions								Min. Fillet Radius		Wt.
				Dynamic	Static	D	C	B	C_1	d_1	d_2	B_1	B_2	r (min.)	r_1 (min)	
				C_r	C_{0r}											
mm	in.			**kN** lbs.	**kN** lbs.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs.
	2 1/8	UK212	HS2312	11780	8138	4.331	1.063	1.850	0.295	2.362	3.150	2.441	0.512	0.075	0.020	3.1
55			H2312	**52.4**	**36.2**	**110**	**27**	**47**	**7.5**	**60**	**80**	**62**	**13**	**1.9**	**0.5**	**1.4**
	2 1/4	UK213	HE2313	12859	9015	4.724	1.102	1.850	0.295	2.559	3.346	2.559	0.551	0.043	0.035	3.7
60			H2313	**57.2**	**40.1**	**120**	**28**	**47**	**7.5**	**65**	**85**	**65**	**14**	**1.1**	**0.9**	**1.7**
	2 1/2	UK215	HE2315	15152	10858	5.118	1.260	2.008	0.354	2.953	3.858	2.874	0.591	0.087	0.028	4.4
65			H2315	**67.4**	**48.3**	**130**	**32**	**51**	**9.0**	**75**	**98**	**73**	**15**	**2.2**	**0.7**	**2.0**
	2 3/4	UK216	HE2316	16344	11915	5.512	1.299	2.165	0.354	3.150	4.134	3.071	0.669	0.087	0.024	5.6
70			H2316	**72.7**	**53.0**	**140**	**33**	**55**	**9.0**	**80**	**105**	**78**	**17**	**2.2**	**0.6**	**2.6**
75		UK217	H2317	**84.0**	**61.9**	**150**	**35**	**57**	**10.0**	**85**	**110**	**82**	**18**	**2.2**	**0.5**	**3.1**
	3		HE2317	18884	13916	5.906	1.378	2.244	0.394	3.346	4.331	3.228	0.709	0.087	0.020	6.8
80		UK218	H2318	**96.1**	**71.5**	**160**	**38**	**63**	**11.0**	**90**	**120**	**86**	**18**	**2.2**	**0.4**	**3.8**
	-			21604	16074	6.299	1.496	2.480	0.433	3.543	4.724	3.386	0.709	0.087	0.016	8.3

[1] Note: Adapter sleeve of the desired size should be ordered separately.

UC 300 HEAVY-DUTY SET SCREW LOCKING SERIES

The following topics are covered within this section:

UCP 300 HEAVY-DUTY SET SCREW LOCKING SERIES
CAST-IRON PILLOW BLOCK HOUSED UNITS

- UCP pillow blocks are suggested for industrial applications where heavy loads are encountered.
- Compact, one-piece housing with two-bolt mounting can be installed in any position and makes bearing replacement easy.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCP series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing and base-to-center height dimensions are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Pillow Block Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	H	L	L_1	A	H_1	J	H_2	S	B	N	N_1		
				C_r	C_{0r}													
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
25		UCP305	UC305	**21.2** 4766	**10.9** 2450	**45** 1 49/64	**175** 6 7/8	**55.0** 2 5/32	**45** 1 25/32	**16** 5/8	**132** 5 3/16	**85.0** 3 11/32	**15** 0.591	**38** 1.496	**17** 21/32	**20** 25/32	**M14** 1/2	**1.7** **3.7**
	1	UCP305-16	UC305-16															
30		UCP306	UC306	**26.7** 6002	**15.0** 3372	**50** 1 31/32	**180** 7 3/32	**52.5** 2 1/16	**50** 1 31/32	**17** 21/32	**140** 5 1/2	**95.0** 3 3/4	**17** 0.669	**43** 1.693	**17** 21/32	**20** 25/32	**M14** 1/2	**2.2** 4.9
35		UCP307	UC307	**33.4** 7509	**19.3** 4339	**56** 2 13/64	**210** 8 9/32	**65.0** 2 9/16	**56** 2 7/32	**19** 3/4	**160** 6 5/16	**107.0** 4 7/32	**19** 0.748	**48** 1.890	**17** 21/32	**25** 31/32	**M14** 1/2	**3.0** 6.6
	1 1/2	UCP308-24	UC308-24	**40.7** 9150	**24.0** 5395	**60** 2 23/64	**220** 8 21/32	**65.0** 2 9/16	**60** 2 3/8	**19** 3/4	**170** 6 11/16	**118.0** 4 21/32	**19** 0.748	**52** 2.047	**17** 21/32	**27** 1 1/16	**M14** 1/2	**3.8** 8.4
40		UCP308	UC308															
	1 3/4	UCP309-28	UC309-28	**48.9** 10993	**29.5** 6632	**67** 2 41/64	**245** 9 21/32	**75.0** 2 15/16	**67** 2 5/8	**21** 13/16	**190** 7 15/32	**132.0** 5 3/16	**22** 0.866	**57** 2.244	**20** 25/32	**30** 1 3/16	**M16** 5/8	**4.9** 10.8
45		UCP309	UC309															
50		UCP310	UC310	**62.0** 13938	**38.3** 8610	**75** 2 61/64	**275** 10 13/16	**87.5** 3 7/16	**75** 2 15/16	**24** 15/16	**212** 8 11/32	**148.0** 5 13/16	**22** 0.866	**61** 2.402	**20** 25/32	**35** 1 3/8	**M16** 5/8	**6.6** 14.5
	2	UCP311-32	UC311-32	**71.6** 16096	**45.0** 10116	**80** 3 5/32	**310** 12 7/32	**90.0** 3 17/32	**80** 3 5/32	**27** 1 1/16	**236** 9 9/32	**157.5** 6 13/64	**25** 0.984	**66** 2.598	**20** 25/32	**38** 1 1/2	**M16** 5/8	**7.9** 17.4
55		UCP311	UC311															
	2 3/16	UCP311-35	UC311-35															
60		UCP312	UC312	**81.9** 18412	**52.2** 11735	**85** 3 11/32	**330** 13	**102.5** 4 1/32	**85** 3 11/32	**29** 1 5/32	**250** 9 27/32	**167.0** 6 9/16	**26** 1.024	**71** 2.795	**25** 31/32	**38** 1 1/2	**M20** 3/4	**9.5** 20.9
	2 7/16	UCP312-39	UC312-39															
	2 1/2	UCP313-40	UC313-40	**92.7** 20840	**59.9** 13466	**90** 3 35/64	**340** 13 3/8	**110.0** 4 11/32	**90** 3 17/32	**32** 1 1/4	**260** 10 1/4	**176.0** 6 15/16	**30** 1.181	**75** 2.953	**25** 31/32	**38** 1 1/2	**M20** 3/4	**10.7** 23.6
65		UCP313	UC313															
	2 3/4	UCP314-44	UC314-44	**104.0** 23380	**68.2** 15332	**95** 3 47/64	**360** 14 3/16	**110.0** 4 11/32	**90** 3 17/32	**35** 1 3/8	**280** 11 1/32	**186.0** 7 5/16	**33** 1.299	**78** 3.071	**27** 1 1/16	**40** 1 9/16	**M22** 7/8	**12.4** 27.3
70		UCP314	UC314															

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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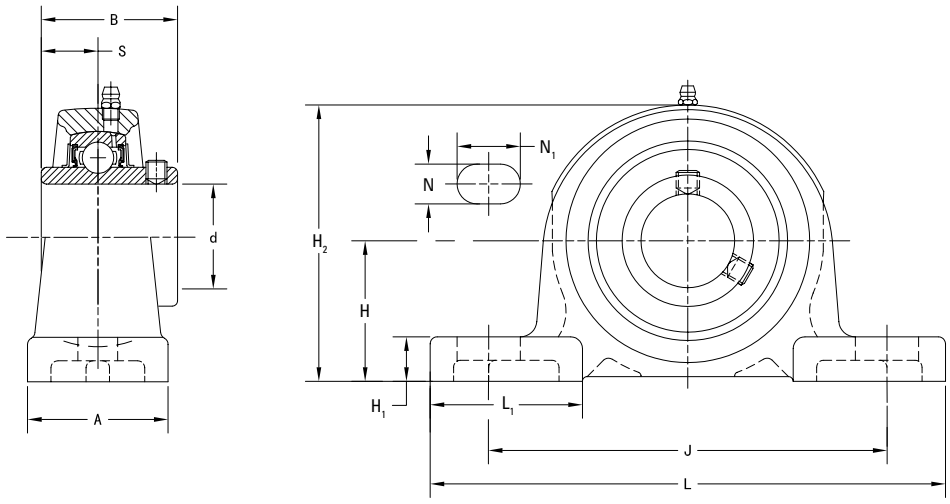

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Shaft Dia. d		Pillow Block Designation	Bearing Designation	Basic Load Ratings		Dimensions											Bolt Size	Wt.
				Dynamic	Static	H	L	L_1	A	H_1	J	H_2	S	B	N	N_1		
				C_r	C_{0r}													
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 15/16	UCP315-47	UC315-47															
75		UCP315	UC315	**113** 25403	**77.2** 17355	**100** 3 15/16	**380** 14 31/32	**107** 4 7/32	**100** 3 15/16	**35** 1 3/8	**290** 11 13/32	**198** 7 25/32	**32** 1.260	**82** 3.228	**27** 1 1/16	**40** 1 9/16	**M22** 7/8	**14.8** 32.6
	3	UCP315-48	UC315-48															
80		UCP316	UC316	**123** 27651	**86.7** 19491	**106** 4 11/16	**400** 15 3/4	**120** 4 23/32	**110** 4 11/32	**35** 1 3/8	**300** 11 13/16	**209** 8 7/32	**34** 1.339	**86** 3.386	**27** 1 1/16	**40** 1 9/16	**M22** 7/8	**18.5** 40.8
85		UCP317	UC317	**133** 29900	**96.8** 21762	**112** 4 13/32	**420** 16 17/32	**120** 4 23/32	**110** 4 11/32	**40** 1 9/16	**320** 12 19/32	**220** 8 21/32	**40** 1.575	**96** 3.780	**33** 1 5/16	**45** 1 25/32	**M27** 1	**20.3** 44.7
	3 1/2	UCP318-56	UC318-56	**143** 32148	**107** 24055	**118** 4 41/64	**430** 16 15/16	**120** 4 23/32	**110** 4 11/32	**40** 1 9/16	**330** 13	**234** 9 7/32	**40** 1.575	**96** 3.780	**33** 1 5/16	**45** 1 25/32	**M27** 1	**22.8** 50.2
90		UCP318	UC318															
95		UCP319	UC319	**153** 34396	**119** 26752	**125** 4 59/64	**470** 18 1/2	**125** 4 29/32	**120** 4 23/32	**46** 1 13/16	**360** 14 3/16	**248** 9 3/4	**41** 1.614	**103** 4.055	**36** 1 13/32	**50** 1 31/32	**M30** 1 1/8	**29.0** 63.9
100		UCP320	UC320															
	3 15/16	UCP320-63	UC320-63	**173** 38892	**141** 31698	**140** 5 33/64	**490** 19 9/32	**140** 5 1/2	**120** 4 23/32	**46** 1 13/16	**380** 14 31/32	**273** 10 3/4	**42** 1.654	**108** 4.252	**36** 1 13/32	**50** 1 31/32	**M30** 1 1/8	**35.1** 77.3
	4	UCP320-64	UC320-64															
105		UCP321	UC321	**184** 41365	**153** 34396	**140** 5 33/64	**490** 19 9/32	**140** 5 1/2	**120** 4 23/32	**46** 1 13/16	**380** 14 31/32	**278** 10 15/16	**44** 1.732	**112** 4.409	**36** 1 13/32	**50** 1 31/32	**M30** 1 1/8	**37.6** 82.8
110		UCP322	UC322	**205** 46086	**180** 40466	**150** 5 29/32	**520** 20 15/32	**150** 5 29/32	**140** 5 1/2	**50** 1 31/32	**400** 15 3/4	**296** 11 21/32	**46** 1.811	**117** 4.606	**40** 1 9/16	**55** 2 5/32	**M33** 1 1/4	**44.0** 97
120		UCP324	UC324	**207** 46535	**185** 41590	**160** 6 19/64	**570** 22 7/16	**160** 6 5/16	**140** 5 1/2	**50** 1 31/32	**450** 17 23/32	**316** 12 7/16	**51** 2.008	**126** 4.961	**40** 1 9/16	**55** 2 5/32	**M33** 1 1/4	**55.4** 122.1
130		UCP326	UC326	**229** 51481	**214** 48109	**180** 7 3/32	**600** 23 5/8	**195** 7 11/16	**140** 5 1/2	**50** 1 31/32	**480** 18 29/32	**355** 13 21/32	**54** 2.126	**135** 5.315	**40** 1 9/16	**55** 2 5/32	**M33** 1 1/4	**72.1** 158.9
140		UCP328	UC328	**253** 56877	**246** 55303	**200** 7 7/8	**620** 24 13/32	**185** 7 9/32	**140** 5 1/2	**60** 2 3/8	**500** 19 11/16	**393** 15 15/32	**59** 2.323	**145** 5.709	**40** 1 9/16	**55** 2 5/32	**M33** 1 1/4	**92.5** 203.9

UCF 300 HEAVY-DUTY SET SCREW LOCKING SERIES
CAST-IRON FOUR-BOLT FLANGED HOUSED UNITS

- UCF four-bolt flanged units are suggested for industrial applications where heavy loads are encountered.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCF series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
				Dynamic	Static	L	J	A_1	A	A_0	S	B	A_2	N		
				C_r	C_{0r}											
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
25		UCF305	UC305	**21.2** 4766	**10.9** 2450	**110** 4 11/32	**80** 3 5/32	**13** 1/2	**29** 1 5/32	**39** 1 17/32	**15** 0.591	**38** 1.496	**16** 5/8	**16** 5/8	**M14** 1/2	**1.3** 2.8
	1	UCF305-16	UC305-16													
30		UCF306	UC306	**26.7** 6002	**15.0** 3372	**125** 4 29/32	**95** 3 47/64	**15** 19/32	**32** 1 1/4	**44** 1 47/64	**17** 0.669	**43** 1.693	**18** 45/64	**16** 5/8	**M14** 1/2	**1.9** 4.2
35		UCF307	UC307	**33.4** 7509	**19.3** 4339	**135** 5 5/16	**100** 3 15/16	**16** 5/8	**36** 1 13/32	**49** 1 59/64	**19** 0.748	**48** 1.890	**20** 25/32	**19** 3/4	**M16** 5/8	**2.3** 5
	1 1/2	UCF308-24	UC308-24	**40.7** 9150	**24.0** 5395	**150** 5 29/32	**112** 4 13/32	**17** 21/32	**40** 1 9/16	**56** 2 13/64	**19** 0.748	**52** 2.047	**23** 29/32	**19** 3/4	**M16** 5/8	**3.1** 6.8
40		UCF308	UC308													
	1 3/4	UCF309-28	UC309-28	**48.9** 10993	**29.5** 6632	**160** 6 5/16	**125** 4 59/64	**18** 23/32	**44** 1 23/32	**60** 2 23/64	**22** 0.866	**57** 2.244	**25** 63/64	**19** 3/4	**M16** 5/8	**4.0** 8.8
45		UCF309	UC309													
50		UCF310	UC310	**62.0** 13938	**38.3** 8610	**175** 6 7/8	**132** 5 13/64	**19** 3/4	**48** 1 7/8	**67** 2 41/64	**22** 0.866	**61** 2.402	**28** 1 7/64	**23** 29/32	**M20** 3/4	**5.1** 11.2
	2	UCF311-32	UC311-32	**71.6** 16096	**45.0** 10116	**185** 7 9/32	**140** 5 33/64	**20** 25/32	**52** 2 1/16	**71** 2 51/64	**25** 0.984	**66** 2.598	**30** 1 3/16	**23** 29/32	**M20** 3/4	**5.6** 12.3
55		UCF311	UC311													
	2 3/16	UCF311-35	UC311-35													
60		UCF312	UC312	**81.9** 18412	**52.2** 11735	**195** 7 11/16	**150** 5 29/32	**22** 7/8	**56** 2 7/32	**78** 3 5/64	**26** 1.024	**71** 2.795	**33** 1 19/64	**23** 29/32	**M20** 3/4	**6.9** 15.2
	2 7/16	UCF312-39	UC312-39													
	2 1/2	UCF313-40	UC313-40	**92.7** 20840	**59.9** 13466	**208** 8 3/16	**166** 6 17/32	**22** 7/8	**58** 2 9/32	**78** 3 5/64	**30** 1.181	**75** 2.953	**33** 1 19/64	**23** 29/32	**M20** 3/4	**7.8** 17.2
65		UCF313	UC313													
	2 3/4	UCF314-44	UC314-44	**104.0** 23380	**68.2** 15332	**226** 8 29/32	**178** 7 1/64	**25** 31/32	**61** 2 13/32	**81** 3 3/16	**33** 1.299	**78** 3.071	**36** 1 27/64	**25** 63/64	**M22** 7/8	**10.1** 22.3
70		UCF314	UC314													

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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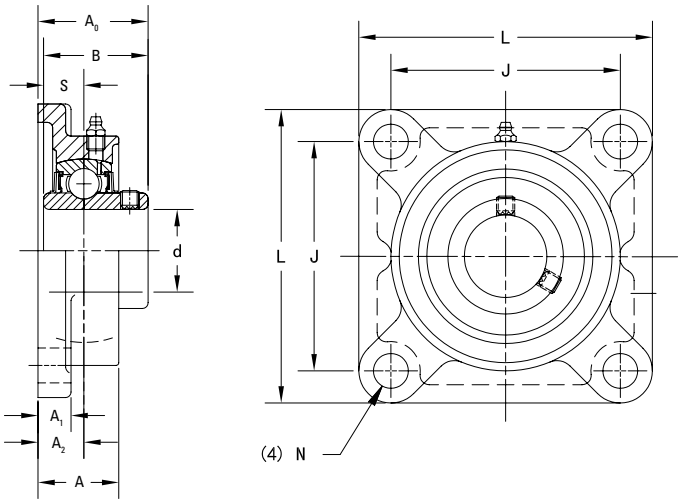

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Shaft Dia. d		Four-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions									Bolt Size	Wt.
				Dynamic	Static	L	J	A_1	A	A_0	S	B	A_2	N		
				C_r	C_{0r}											
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 15/16	UCF315-47	UC315-47	**113.0** 25403	**77.2** 17355	**236** 9 9/32	**184** 7 1/4	**25** 31/32	**66** 2 19/32	**89** 3 1/2	**32** 1.260	**82** 3.228	**39** 1 17/32	**25** 63/64	**M22** 7/8	**11.6** 25.6
75		UCF315	UC315													
	3	UCF315-48	UC315-48													
80		UCF316	UC316	**123.0** 27651	**86.7** 19491	**250** 9 27/32	**196** 7 23/32	**27** 1 1/16	**68** 2 11/16	**90** 3 35/64	**34** 1.339	**86** 3.386	**38** 1 1/2	**31** 1 7/32	**M27** 1	**12.8** 28.2
85		UCF317	UC317	**133.0** 29900	**96.8** 21762	**260** 10 1/4	**204** 8 1/32	**27** 1 1/16	**74** 2 29/32	**100** 3 15/16	**40** 1.575	**96** 3.780	**44** 1 47/64	**31** 1 7/32	**M27** 1	**15.3** 33.7
	3 1/2	UCF318-56	UC318-56	**143.0** 32148	**107.0** 24055	**280** 11 1/32	**216** 8 1/2	**30** 1 3/16	**76** 3	**100** 3 15/16	**40** 1.575	**96** 3.780	**44** 1 47/64	**35** 1 3/8	**M30** 1 1/8	**18.9** 41.7
90		UCF318	UC318													
95		UCF319	UC319	**153.0** 34396	**119.0** 26752	**290** 11 13/32	**228** 8 31/32	**30** 1 3/16	**94** 3 11/16	**121** 4 49/64	**41** 1.614	**103** 4.055	**59** 2 21/64	**35** 1 3/8	**M30** 1 1/8	**21.6** 47.6
100		UCF320	UC320	**173.0** 38892	**141.0** 36198	**310** 12 7/32	**242** 9 17/32	**32** 1 1/4	**94** 3 11/16	**125** 4 59/64	**42** 1.654	**108** 4.252	**59** 2 21/64	**38** 1 1/2	**M33** 1 1/4	**25.8** 56.8
	3 15/16	UCF320-63	UC320-63													
	4	UCF320-64	UC320-64													
105		UCF321	UC321	**184.0** 41365	**153.0** 34396	**310** 12 7/32	**242** 9 17/32	**32** 1 1/4	**94** 3 11/16	**127** 5	**44** 1.732	**112** 4.409	**59** 2 21/64	**38** 1 1/2	**M33** 1 1/4	**30.2** 66.5
110		UCF322	UC322	**205.0** 46086	**180.0** 40466	**340** 13 3/8	**266** 10 15/32	**35** 1 3/8	**96** 3 25/32	**131** 5 5/32	**46** 1.811	**117** 4.606	**60** 2 23/64	**41** 1 39/64	**M36** 1 3/8	**35.3** 77.8
120		UCF324	UC324	**207.0** 46535	**185.0** 41590	**370** 14 9/16	**290** 11 27/64	**40** 1 9/16	**110** 4 11/32	**140** 5 1/2	**51** 2.008	**126** 4.961	**65** 2 9/16	**41** 1 39/64	**M36** 1 3/8	**47.3** 104.2
130		UCF326	UC326	**229.0** 51481	**214.0** 48109	**410** 16 5/32	**320** 12 19/32	**45** 1 25/32	**115** 4 17/32	**146** 5 3/4	**54** 2.126	**135** 5.315	**65** 2 9/16	**41** 1 39/64	**M36** 1 3/8	**65.5** 144.4
140		UCF328	UC328	**253.0** 56877	**246.0** 55303	**450** 17 23/32	**350** 13 25/32	**55** 2 5/32	**125** 4 29/32	**161** 6 11/32	**59** 2.323	**145** 5.709	**75** 2 61/64	**41** 1 39/64	**M36** 1 3/8	**80.4** 177.2

UCFL 300 HEAVY-DUTY SET SCREW LOCKING SERIES
CAST-IRON TWO-BOLT FLANGED HOUSED UNITS

- UCFL two-bolt flanged units are suggested for industrial applications where heavy loads are encountered.
- This series is primarily designed for applications where the mounting area is restricted.
- Each unit comes assembled and ready for mounting, using bolts through the flange.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCFL series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for applications involving wet or dirty environments.
- Bolt-hole spacing dimensions and shaft center location are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
				Dynamic	Static	H	J	A_1	A	A_0	L	A_2	S	B	N		
				C_r	C_{0r}												
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
25		UCFL305	UC305	**21.2** 4766	**10.9** 2450	**150** 5 29/32	**113** 4 7/16	**13** 1/2	**29** 1 5/32	**39** 1 17/32	**80** 3 5/32	**16** 5/8	**15** 0.591	**38** 1.496	**19** 3/4	**M16** 5/8	**1.1** 2.4
	1	UCFL305-16	UC305-16														
30		UCFL306	UC306	**26.7** 6002	**15.0** 3372	**180** 7 3/32	**134** 5 9/32	**15** 19/32	**32** 1 1/4	**44** 1 47/64	**90** 3 17/32	**18** 45/64	**17** 0.669	**43** 1.693	**23** 29/32	**M20** 3/4	**1.5** 3.3
35		UCFL307	UC307	**33.4** 7509	**19.3** 4339	**185** 7 9/32	**141** 5 35/64	**16** 5/8	**36** 1 13/32	**49** 1 59/64	**100** 3 15/16	**20** 25/32	**19** 0.748	**48** 1.890	**23** 29/32	**M20** 3/4	**1.8** 4.0
	1 1/2	UCFL308-24	UC308-24	**40.7** 9150	**24.0** 5395	**200** 7 7/8	**158** 6 7/32	**17** 21/32	**40** 1 9/16	**56** 2 13/64	**112** 4 13/32	**23** 29/32	**19** 0.748	**52** 2.047	**23** 29/32	**M20** 3/4	**2.5** 5.5
40		UCFL308	UC308														
	1 3/4	UCFL309-28	UC309-28	**48.9** 10993	**29.5** 6632	**230** 9 1/16	**177** 6 31/32	**18** 23/32	**44** 1 23/32	**60** 2 23/64	**125** 4 29/32	**25** 63/64	**22** 0.866	**57** 2.244	**25** 63/64	**M22** 7/8	**3.5** 7.7
45		UCFL309	UC309														
50		UCFL310	UC310	**62.0** 13938	**38.3** 8610	**240** 9 7/16	**187** 7 23/64	**19** 3/4	**48** 1 7/8	**67** 2 41/64	**140** 5 1/2	**28** 1 7/64	**22** 0.866	**61** 2.402	**25** 63/64	**M22** 7/8	**4.4** 9.7
	2	UCFL311-32	UC311-32	**71.6** 16096	**45.0** 10116	**250** 9 27/32	**198** 7 51/64	**20** 25/32	**52** 2 1/16	**71** 2 51/64	**150** 5 29/32	**30** 1 3/16	**25** 0.984	**66** 2.598	**25** 63/64	**M22** 7/8	**5.3** 11.7
55		UCFL311	UC311														
	2 3/16	UCFL311-35	UC311-35														
60		UCFL312	UC312	**81.9** 18412	**52.2** 11735	**270** 10 5/8	**212** 8 11/32	**22** 7/8	**56** 2 7/32	**78** 3 5/64	**160** 6 5/16	**33** 1 19/64	**26** 1.024	**71** 2.795	**31** 1 7/32	**M27** 1	**6.5** 14.3
	2 7/16	UCFL312-39	UC312-39														
	2 1/2	UCFL313-40	UC313-40	**92.7** 20840	**59.9** 13466	**295** 11 5/8	**240** 9 29/64	**25** 31/32	**58** 2 9/32	**78** 3 5/64	**175** 6 7/8	**33** 1 19/64	**30** 1.181	**75** 2.953	**31** 1 7/32	**M27** 1	**8.5** 18.7
65		UCFL313	UC313														
	2 3/4	UCFL314-44	UC314-44	**104.0** 23380	**68.2** 15332	**315** 12 13/32	**250** 9 27/32	**28** 1 3/32	**61** 2 13/32	**81** 3 3/16	**185** 7 9/32	**36** 1 27/64	**33** 1.299	**78** 3.071	**35** 1 3/8	**M30** 1 1/8	**9.7** 21.4
70		UCFL314	UC314														

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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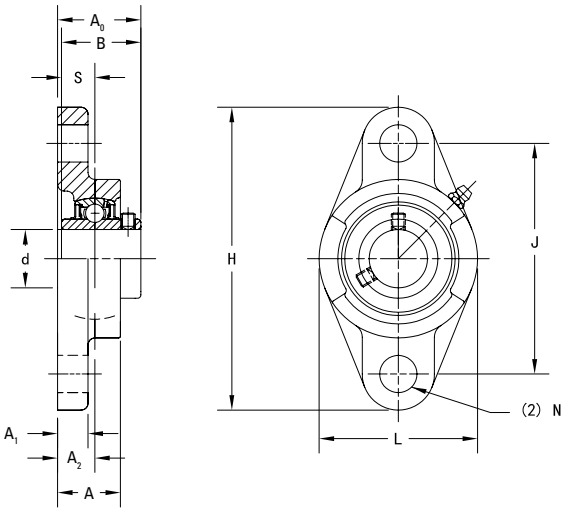

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Shaft Dia. d		Two-Bolt Flange Designation	Bearing Designation	Basic Load Ratings		Dimensions										Bolt Size	Wt.
				Dynamic	Static	H	J	A_1	A	A_0	L	A_2	S	B	N		
				C_r	C_{0r}												
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 15/16	UCFL315-47	UC315-47	**113.0** 25403	**77.2** 17355	**320** 12 19/32	**260** 10 15/64	**30** 1 3/16	**66** 2 19/32	**89** 3 1/2	**195** 7 11/16	**39** 1 17/32	**32** 1.260	**82** 3.228	**35** 1 3/8	**M30** 1 1/8	**11.3** 24.9
75		UCFL315	UC315														
	3	UCFL315-48	UC315-48														
80		UCFL316	UC316	**123.0** 27651	**86.7** 19491	**355** 13 31/32	**285** 11 7/32	**32** 1 1/4	**68** 2 11/16	**90** 3 35/64	**210** 8 9/32	**38** 1 1/2	**34** 1.339	**86** 3.386	**38** 1 1/2	**M33** 1 1/4	**14.4** 31.7
85		UCFL317	UC317	**133.0** 29900	**96.8** 21762	**370** 14 9/16	**300** 11 13/16	**32** 1 1/4	**74** 2 29/32	**100** 3 15/16	**220** 8 21/32	**44** 1 47/64	**40** 1.575	**96** 3.780	**38** 1 1/2	**M33** 1 1/4	**16.0** 35.3
	3 1/2	UCFL318-56	UC318-56	**143.0** 32148	**107.0** 24055	**385** 15 5/32	**315** 12 13/32	**36** 1 13/32	**76** 3	**100** 3 15/16	**235** 9 1/4	**44** 1 47/64	**40** 1.575	**96** 3.780	**38** 1 1/2	**M33** 1 1/4	**19.0** 41.9
90		UCFL318	UC318														
95		UCFL319	UC319	**153.0** 34396	**119.0** 26752	**405** 15 15/16	**330** 12 63/64	**40** 1 9/16	**94** 3 11/16	**121** 4 49/64	**250** 9 27/32	**59** 2 21/64	**41** 1.614	**103** 4.055	**41** 1 39/64	**M36** 1 3/8	**24.6** 54.2
100		UCFL320	UC320	**173.0** 38892	**141.0** 31698	**440** 17 5/16	**360** 14 11/16	**40** 1 9/16	**94** 3 11/16	**125** 4 59/64	**270** 10 5/8	**59** 2 21/64	**42** 1.654	**108** 4.252	**44** 1 47/64	**M39** 1 1/2	**29.4** 64.8
	3 15/16	UCFL320-63	UC320-63														
	4	UCFL320-64	UC320-64														
110		UCFL322	UC322	**205.0** 46086	**180.0** 40466	**470** 18 1/2	**390** 15 23/64	**42** 1 21/32	**96** 3 25/32	**131** 5 5/32	**300** 11 13/16	**60** 2 23/64	**46** 1.811	**117** 4.606	**44** 1 47/64	**M39** 1 1/2	**36.2** 79.8
120		UCFL324	UC324	**207.0** 46535	**185.0** 41590	**520** 20 15/32	**430** 16 59/64	**48** 1 7/8	**110** 4 11/32	**140** 5 1/2	**330** 13	**65** 2 9/16	**51** 2.008	**126** 4.961	**47** 1 27/32	**M42** 1 5/8	**51.6** 113.8
130		UCFL326	UC326	**229.0** 51481	**214.0** 48109	**550** 21 21/32	**460** 18 7/64	**50** 1 31/32	**115** 4 17/32	**146** 5 3/4	**360** 14 3/16	**65** 2 9/16	**54** 2.126	**135** 5.315	**47** 1 27/32	**M42** 1 5/8	**61.6** 135.8

UCT 300 HEAVY-DUTY SET SCREW LOCKING SERIES
CAST-IRON TAKE-UP HOUSED UNITS

- UCT take-up units are suggested for industrial applications where heavy loads are encountered.
- UCT take-up units are used where shaft adjustment and belt-tightening devices are required, such as in conveyor applications.
- These units provide compact, efficient supports for adjustable shafts and conveyer take-up pulleys.
- Each unit comes assembled and ready for mounting.
- These units use wide inner ring ball bearings with self-aligning spherical outside diameters that compensate for shaft misalignment.
- Timken UCT series housed units feature the Timken set screw locking (UC) bearing insert.
- Bearing prelubricated and ready for immediate installation.
- Grease fitting supplied for relubrication[1].
- The bonded seal design is well-suited for industrial applications involving wet or dirty environments.
- Slot spacing and width are interchangeable with competitive units.
- Housing designed for ease of bearing replacement.

Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Basic Load Ratings		Dimensions															Wt.
				Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	S	B	L_3	N_1	N_2	A_1	
				C_r	C_{0r}																
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
25		UCT305	UC305	**21.2** 4766	**10.9** 2450	**89** 3 ½	**80** 3 5/32	**12** 15/32	**76** 3	**26** 1 1/32	**36** 1 13/32	**26** 1 1/32	**122** 4 13/16	**62** 2 7/16	**15** 0.591	**38** 1.496	**65** 2 9/16	**16** 5/8	**36** 1 13/32	**12** 15/32	**1.4** 3.0
	1	UCT305-16	UC305-16																		
30		UCT306	UC306	**26.7** 6002	**15.0** 3372	**100** 3 15/16	**90** 3 35/64	**14** 9/16	**85** 3 11/32	**28** 1 3/32	**41** 1 5/8	**28** 1 3/32	**137** 5 13/32	**70** 2 3/4	**17** 0.669	**43** 1.693	**74** 2 29/32	**18** 23/32	**41** 1 5/8	**16** 5/8	**1.8** 3.9
35		UCT307	UC307	**33.4** 7509	**19.3** 4339	**111** 4 3/8	**100** 3 15/16	**15** 19/32	**94** 3 11/16	**32** 1 1/4	**45** 1 25/32	**30** 1 3/16	**150** 5 29/32	**75** 2 15/16	**19** 0.748	**48** 1.890	**80** 3 5/32	**20** 25/32	**45** 1 25/32	**16** 5/8	**2.3** 5.0
	1 ½	UCT308-24	UC308-24	**40.7** 9150	**24.0** 5395	**124** 4 7/8	**112** 4 13/32	**17** 21/32	**100** 3 15/16	**34** 1 11/32	**50** 1 31/32	**32** 1 1/4	**162** 6 3/8	**83** 3 9/32	**19** 0.748	**52** 2.047	**89** 3 ½	**22** 7/8	**50** 1 31/32	**18** 45/64	**3.0** 6.6
40		UCT308	UC308																		
	1 ¾	UCT309-28	UC309-28	**48.9** 10993	**29.5** 6632	**138** 5 7/16	**125** 4 59/64	**18** 23/32	**110** 4 11/32	**38** 1 ½	**55** 2 5/32	**34** 1 11/32	**178** 7	**90** 3 17/32	**22** 0.866	**57** 2.244	**97** 3 13/16	**24** 15/16	**55** 2 5/32	**18** 45/64	**4.1** 9.0
45		UCT309	UC309																		
50		UCT310	UC310	**62.0** 13938	**38.3** 8610	**151** 5 15/16	**140** 5 33/64	**20** 25/32	**117** 4 19/32	**40** 1 9/16	**61** 2 13/32	**37** 1 15/32	**191** 7 17/32	**98** 3 27/32	**22** 0.866	**61** 2.402	**106** 4 3/16	**27** 1 1/16	**61** 2 13/32	**20** 25/32	**4.9** 10.8
	2	UCT311-32	UC311-32	**71.6** 16096	**45.0** 10116	**163** 6 13/32	**150** 5 29/32	**21** 13/16	**127** 5	**44** 1 23/32	**66** 2 19/32	**39** 1 17/32	**207** 8 5/32	**105** 4 1/8	**25** 0.984	**66** 2.598	**115** 4 17/32	**29** 1 5/32	**66** 2 19/32	**22** 55/64	**6.1** 13.4
55		UCT311	UC311																		
	2 3/16	UCT311-35	UC311-35																		
60		UCT312	UC312	**81.9** 18412	**52.2** 11735	**178** 7	**160** 6 19/64	**23** 29/32	**135** 5 5/16	**46** 1 13/16	**71** 2 25/32	**41** 1 5/8	**220** 8 21/32	**113** 4 7/16	**26** 1.024	**71** 2.795	**123** 4 27/32	**31** 1 7/32	**71** 2 25/32	**22** 55/64	**7.6** 16.7
	2 7/16	UCT312-39	UC312-39																		
	2 ½	UCT313-40	UC313-40	**92.7** 20840	**59.9** 13466	**190** 7 15/32	**170** 6 11/16	**25** 31/32	**146** 5 3/4	**50** 1 31/32	**80** 3 5/32	**43** 1 11/16	**238** 9 3/8	**116** 4 9/16	**30** 1.181	**75** 2.953	**134** 5 9/32	**32** 1 1/4	**70** 2 3/4	**26** 1 1/32	**9.3** 20.5
65		UCT313	UC313																		
	2 ¾	UCT314-44	UC314-44	**104.0** 23380	**68.2** 15332	**202** 7 15/16	**180** 7 3/32	**25** 31/32	**155** 6 3/32	**52** 2 1/16	**90** 3 17/32	**46** 1 13/16	**252** 9 29/32	**130** 5 1/8	**33** 1.299	**78** 3.071	**140** 5 ½	**36** 1 13/32	**85** 3 11/32	**26** 1 1/32	**11.1** 24.4
70		UCT314	UC314																		

[1] For bore sizes up to and including 210, a ¼-28 tapered thread fitting is used. For bore sizes greater than 211, a ⅛ BSPT fitting is used.

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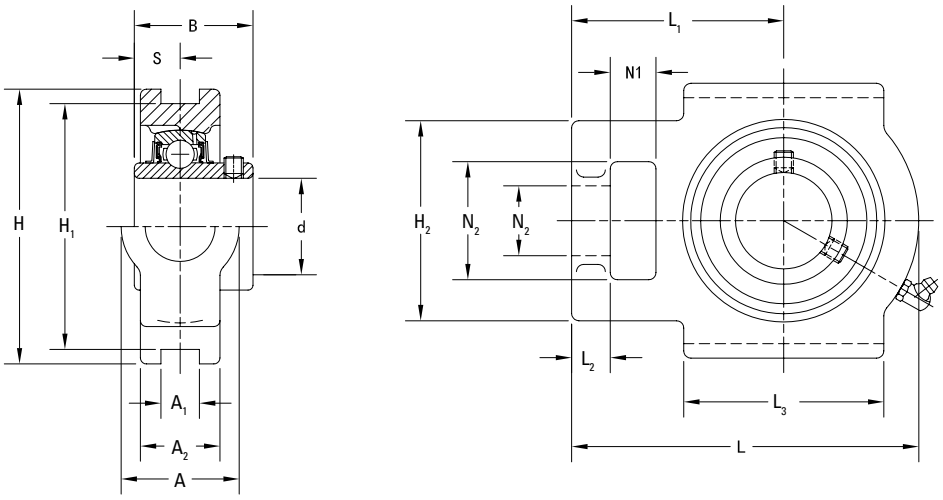

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Shaft Dia. d		Take-Up Unit Designation	Bearing Designation	Basic Load Ratings		Dimensions															Wt.
				Dynamic	Static	H	H_1	L_2	L_1	A_2	A	N	L	H_2	S	B	L_3	N_1	N_2	A_1	
				C_r	C_{0r}																
mm	in.			**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**kg** lbs
	2 15/16	UCT315-47	UC315-47																		
75		UCT315	UC315	**113.0** 25403	**77.2** 17355	**216** 8 1/2	**192** 7 9/16	**25** 31/32	**160** 6 5/16	**55** 2 5/32	**90** 3 17/32	**46** 1 13/16	**262** 10 5/16	**132** 5 3/16	**32** 1.260	**82** 3.228	**150** 5 29/32	**36** 1 13/32	**85** 3 11/32	**26** 1 1/32	**13.0** 28.6
	3	UCT315-48	UC315-48																		
80		UCT316	UC316	**123.0** 27651	**86.7** 19491	**230** 9 1/16	**204** 8 1/32	**28** 1 3/32	**174** 6 27/32	**60** 2 3/8	**102** 4 1/32	**53** 2 3/32	**282** 11 3/32	**150** 5 29/32	**34** 1.339	**86** 3.386	**160** 6 5/16	**42** 1 21/32	**98** 3 27/32	**30** 1 3/16	**16.2** 35.7
85		UCT317	UC317	**133.0** 29900	**96.8** 21762	**240** 9 7/16	**214** 8 27/64	**30** 1 3/16	**183** 7 7/32	**64** 2 17/32	**102** 4 1/32	**53** 2 3/32	**298** 11 23/32	**152** 5 31/32	**40** 1.575	**96** 3.780	**170** 6 11/16	**42** 1 21/32	**98** 3 27/32	**32** 1 17/64	**19.0** 41.8
	3 1/2	UCT318-56	UC318-56	**143.0** 32148	**107.0** 24055	**255** 10 1/32	**228** 8 31/32	**30** 1 3/16	**192** 7 9/16	**66** 2 19/32	**110** 4 11/32	**57** 2 1/4	**312** 12 9/32	**160** 6 5/16	**40** 1.575	**96** 3.780	**175** 6 7/8	**46** 1 13/16	**106** 4 3/16	**32** 1 17/64	**21.6** 47.6
90		UCT318	UC318																		
95		UCT319	UC319	**153.0** 34396	**119.0** 26752	**270** 10 5/8	**240** 9 29/64	**31** 1 7/32	**197** 7 3/4	**72** 2 27/32	**110** 4 11/32	**57** 2 1/4	**322** 12 11/16	**165** 6 1/2	**41** 1.614	**103** 4.055	**180** 7 3/32	**46** 1 13/16	**106** 4 3/16	**35** 1 3/8	**24.9** 54.8
100		UCT320	UC320																		
	3 15/16	UCT320-63	UC320-63	**173.0** 38892	**141.0** 31698	**290** 11 13/32	**260** 10 15/64	**32** 1 1/4	**210** 8 9/32	**75** 2 15/16	**120** 4 23/32	**59** 2 5/16	**345** 13 19/32	**175** 6 7/8	**42** 1.654	**108** 4.252	**200** 7 7/8	**48** 1 7/8	**115** 4 17/32	**35** 1 3/8	**30.7** 67.6
	4	UCT320-64	UC320-64																		
105		UCT321	UC321	**184.0** 41365	**153.0** 34396	**290** 11 13/32	**260** 10 15/64	**32** 1 1/4	**210** 8 9/32	**75** 2 15/16	**120** 4 23/32	**59** 2 5/16	**345** 13 19/32	**175** 6 7/8	**44** 1.732	**112** 4.409	**200** 7 7/8	**48** 1 7/8	**115** 4 17/32	**35** 1 3/8	**36.7** 80.9
110		UCT322	UC322	**205.0** 46086	**180.0** 40466	**320** 12 19/32	**285** 11 7/32	**38** 1 1/2	**235** 9 1/4	**80** 3 5/32	**130** 5 1/8	**65** 2 9/16	**385** 15 5/32	**185** 7 9/32	**46** 1.811	**117** 4.606	**215** 8 15/32	**52** 2 1/16	**125** 4 29/32	**38** 1 1/2	**39.7** 87.5
120		UCT324	UC324	**207.0** 46535	**185.0** 41590	**355** 13 31/32	**320** 12 9/32	**42** 1 21/32	**267** 10 1/2	**90** 3 17/32	**140** 5 1/2	**70** 2 3/4	**432** 17	**210** 8 9/32	**51** 2.008	**126** 4.961	**230** 9 1/16	**60** 2 3/8	**140** 5 1/2	**45** 1 49/64	**54.4** 119.9
130		UCT326	UC326	**229.0** 51481	**214.0** 48190	**385** 15 5/32	**350** 13 25/32	**45** 1 25/32	**285** 11 7/32	**100** 3 15/16	**150** 5 29/32	**75** 2 15/16	**465** 18 5/16	**220** 8 21/32	**54** 2.126	**135** 5.315	**240** 9 7/16	**65** 2 9/16	**150** 5 29/32	**50** 1 31/32	**69.3** 152.7
140		UCT328	UC328	**253.0** 56877	**246.0** 55303	**415** 16 11/32	**380** 14 61/64	**50** 1 31/32	**315** 12 13/32	**100** 3 15/16	**155** 6 3/32	**80** 3 5/32	**515** 20 9/32	**230** 9 1/16	**59** 2.323	**145** 5.709	**255** 10 1/32	**70** 2 3/4	**160** 6 5/16	**50** 1 31/32	**85.1** 187.6

UC 300 HEAVY-DUTY SET SCREW LOCKING SERIES
WIDE INNER RING BALL BEARINGS

- The UC wide inner ring ball bearing uses a popular set screw locking mechanism and is suggested for industrial applications where heavy loads are encountered.
- The set screw mounting feature is ideal for reversing load applications.
- Bearing prelubricated and ready for immediate installation.
- The wide inner ring provides effective shaft support for a broad range of industrial applications.
- The positive contact of the land-riding bonded nitrile seal helps protect against harmful contaminants and retains lubricant under severe operating conditions.
- An external steel flinger provides additional protection from contamination.
- The UC series features superfinished raceways, grade-10 balls for smooth running and low noise operation.
- UC series wide inner ring ball bearings have spherical outside diameters for use in housings with corresponding spherical inside surfaces to compensate for shaft misalignment.

Shaft Dia. d		Bearing Designation	Basic Load Ratings		Dimensions							Min. Fillet Radius	Set Screw Size	Wt.
			Dynamic	Static	D	C	B	S_2	C_1	S	S_1	r (min.)	G	
			C_r	C_{0r}										
mm	in.		**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.		**kg** lbs
25		UC305	**21.2** 4766	**10.9** 2450	**62** 2.441	**22** 0.866	**38.0** 1.496	**6** 0.236	**6.0** 0.236	**15** 0.591	**23** 0.906	**1.1** 0.043	M6×0.75	**0.4** 1.0
	1	UC305-16												**0.4** 1.0
30		UC306	**26.7** 6002	**15.0** 3372	**72** 2.835	**24** 0.945	**43.0** 1.693	**6** 0.236	**6.5** 0.256	**17** 0.669	**26** 1.024	**1.1** 0.043	M6×0.75	**0.6** 1.2
35		UC307	**33.4** 7509	**19.3** 4339	**80** 3.150	**26** 1.024	**48.0** 1.890	**8** 0.315	**7.5** 0.295	**19** 0.748	**29** 1.142	**1.5** 0.059	M8×1	**0.7** 1.6
	1 ½	UC308-24	**40.7** 9150	**24.0** 5395	**90** 3.543	**28** 1.102	**52.0** 2.047	**10** 0.394	**8.0** 0.315	**19** 0.748	**33** 1.299	**1.5** 0.059	M10×1.25	**1.1** 2.3
40		UC308												**1.0** 2.2
	1 ¾	UC309-28	**48.9** 10993	**29.5** 6632	**100** 3.937	**30** 1.181	**57.0** 2.244	**10** 0.394	**8.5** 0.335	**22** 0.866	**35** 1.378	**1.5** 0.059	M10×1.25	**1.4** 3.0
45		UC309												**1.3** 2.9
50		UC310	**62.0** 13938	**38.3** 8610	**110** 4.331	**32** 1.260	**61.0** 2.402	**12** 0.472	**9.0** 0.354	**22** 0.866	**39** 1.535	**2.0** 0.079	M12×1.5	**1.7** 3.7
	2	UC311-32	**71.6** 16096	**45.0** 10116	**120** 4.724	**34** 1.339	**66.0** 2.598	**12** 0.472	**10.0** 0.394	**25** 0.984	**41** 1.614	**2.0** 0.079	M12×1.5	**2.1** 4.6
55		UC311												**1.9** 4.2
	2 3⁄16	UC311-35												**1.7** 3.7
60		UC312	**81.9** 18412	**52.2** 11735	**130** 5.118	**36** 1.417	**71.0** 2.795	**12** 0.472	**11.5** 0.453	**26** 1.204	**45** 1.772	**2.1** 0.083	M12×1.5	**2.6** 5.7
	2 7⁄16	UC312-39												**2.5** 5.5
	2 ½	UC313-40	**92.7** 20840	**59.9** 13466	**140** 5.512	**38** 1.496	**75.0** 2.953	**12** 0.472	**12.0** 0.472	**30** 1.181	**45** 1.772	**2.1** 0.083	M12×1.5	**3.2** 7.1
65		UC313												**3.1** 7.0
	2 ¾	UC314-44	**104.0** 23380	**68.2** 15332	**150** 5.906	**40** 1.575	**78.0** 3.071	**12** 0.472	**12.5** 0.492	**33** 1.299	**45** 1.772	**2.1** 0.083	M12×1.5	**3.9** 8.6
70		UC314												**3.9** 8.6

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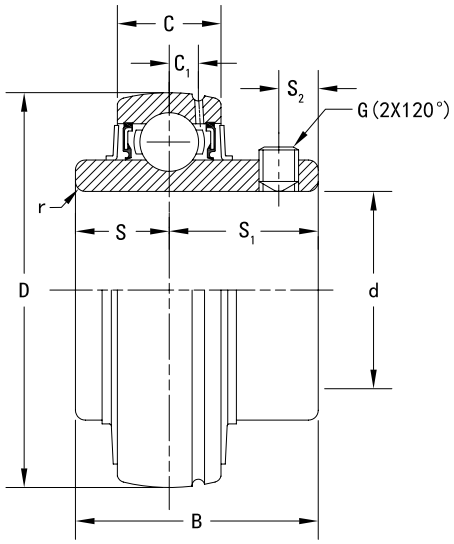

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Shaft Dia. d		Bearing Designation	Basic Load Ratings		Dimensions							Min. Fillet Radius	Set Screw Size	Wt.
			Dynamic	Static	D	C	B	S_2	C_1	S	S_1	r (min.)	G	
			C_r	C_{0r}										
mm	in.		**kN** lbs	**kN** lbs	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.	**mm** in.		**kg** lbs
	2 15/16	UC315-47												**4.7** 10.4
75		UC315	**113.0** 25403	**77.2** 17355	**160** 6.299	**42** 1.654	**82.0** 3.228	**14** 0.551	**14.5** 0.571	**32** 1.260	**50** 1.969	**2.1** 0.083	M14×1.5	**4.7** 10.4
	3	UC315-48												**4.6** 10.2
80		UC316	**123.0** 27651	**86.7** 19491	**170** 6.693	**44** 1.732	**86.0** 3.386	**14** 0.551	**15** 0.591	**34** 1.339	**52** 2.047	**2.1** 0.083	M14×1.5	**5.6** 12.3
85		UC317	**133.0** 29900	**96.8** 21762	**180** 7.087	**46** 1.811	**96.0** 3.780	**16** 0.630	**15** 0.591	**40** 1.575	**56** 2.205	**3.0** 0.118	M16×1.5	**6.9** 15.2
	3 ½	UC318-56	**143.0** 32148	**107.0** 24055	**190** 7.480	**48** 1.890	**96.0** 3.780	**16** 0.630	**15.5** 0.610	**40** 1.575	**56** 2.205	**3.0** 0.118	M16×1.5	**8.0** 17.7
90		UC318												**7.9** 17.4
95		UC319	**153.0** 34396	**119.0** 26752	**200** 7.874	**50** 1.969	**103.0** 4.055	**18** 0.709	**16.5** 0.650	**41** 1.614	**62** 2.441	**3.0** 0.118	M16×1.5	**8.9** 19.6
100		UC320												**11.2** 24.7
	3 15/16	UC320-63	**173.0** 38892	**141.0** 31698	**215** 8.465	**54** 2.126	**108.0** 4.252	**20** 0.787	**18** 0.709	**42** 1.654	**66** 2.598	**3.0** 0.118	M18×1.5	**11.2** 24.7
	4	UC320-64												**11.0** 24.3
105		UC321	**184.0** 41365	**153.0** 34396	**225** 8.858	**56** 2.205	**112.0** 4.409	**20** 0.787	**19** 0.748	**44** 1.732	**68** 2.677	**3.0** 0.118	M18×1.5	**12.7** 28.0
110		UC322	**205.0** 46086	**180.0** 40466	**240** 9.449	**60** 2.362	**117.0** 4.606	**20** 0.787	**20** 0.787	**46** 1.811	**71** 2.795	**3.0** 0.118	M18×1.5	**15.1** 33.3
120		UC324	**207.0** 46535	**185.0** 41590	**260** 10.236	**64** 2.520	**126.0** 4.961	**20** 0.787	**21** 0.827	**51** 2.008	**75** 2.953	**3.0** 0.118	M18×1.5	**19.0** 41.9
130		UC326	**229.0** 51481	**214.0** 48109	**280** 11.024	**68** 2.677	**135.0** 5.315	**20** 0.787	**22** 0.866	**54** 2.126	**81** 3.189	**4.0** 0.157	M20×1.5	**23.6** 52.0
140		UC328	**253.0** 56877	**246.0** 55303	**300** 11.811	**72** 2.835	**145.0** 5.709	**20** 0.787	**23** 0.906	**59** 2.323	**86** 3.386	**4.0** 0.157	M20×1.5	**29.4** 64.8

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