Black Series

Radial insert ball bearings and housing units

FAG Black Series, radial insert ball bearings and housing units

Radial insert ball bearings **462**

Black Series

The new radial insert ball bearing and housing units FAG Black Series from Schaeffler give easy mounting, smooth running and high reliability and thus allow particularly economical bearing arrangements.

FAG radial insert ball bearings with a spherical outer ring are based on single row deep groove ball bearings 62 and are designed in accordance with JIS B 1558. The outer and inner rings as well as the flinger shields of the radial insert ball bearings are provided with the Durotect coating in order to offer basic protection against corrosion. The Black Series radial insert ball bearings are available with two location methods and one type of seal. They can be relubricated and are particularly easy to install.

Housing units **478**

Black Series

The dimensions of the FAG housings, made from flake graphite cast iron and with a primer paint coating, conform to JIS B 1559. These single piece cast housings can support moderate to high radial and axial loads. The radial insert ball bearings have basic protection against corrosion due to the Durotect B coating.

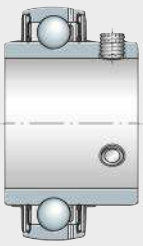
The bearing units are particularly suitable for applications with moderate to high loads.

Typical areas of application for these bearings include the agricultural, construction and mining sector, power transmission and conveying equipment as well as in pumps, textile, paper and woodworking machinery, in machinery for the timber, filling and packaging industries and in the steel industry.

Housing units in accordance with JIS B 1557 comprise FAG flake graphite cast iron housings with a concave bore in which FAG radial insert ball bearings are fitted. These units are matched to each other and are available as plummer block housing units, flanged housing units and take-up housing units.

Radial insert ball bearings with a spherical outer ring, when fitted in housings with a concave bore, can compensate for static misalignment of the shaft.

Housing units are supplied with a loose packed lubrication nipple and integrated end cap for the lubrication nipple as well as an Allen key.



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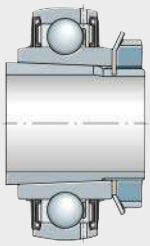

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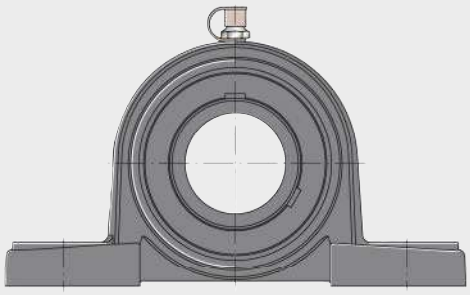

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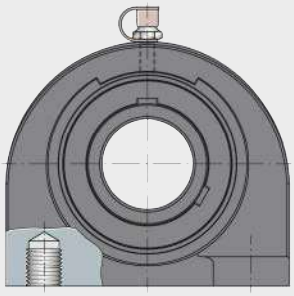

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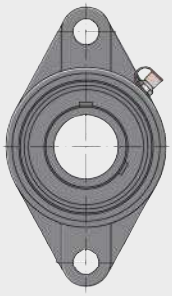

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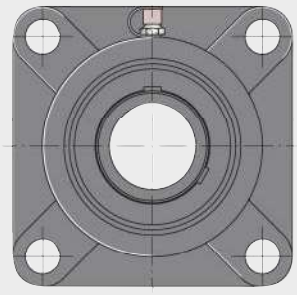

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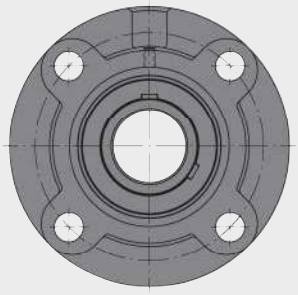

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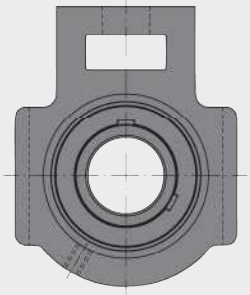

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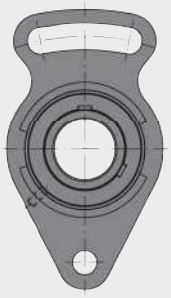

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FAG

Radial insert ball bearings

Radial insert ball bearings

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Features of radial insert ball bearings, comparison of series

Series	Shaft diameter				Compensation of misalignment	Internal clearance
	mm		*inch*			
	from	to	from	to		
UC	12	90	$1/2$	$3\,1/2$	yes	C3
UK	20	80	–	–	yes	C4

[1] Attention!
Recommended operating temperature of bearing series.
If temperatures exceed +100 °C, relubrication must be carried out regularly.

Location	Sealing	Cage material	Greasing	Relubrication facility	Temperature[1)] °C		Comments	Dimension table
					from	to		Page
Grub screw	RSR	PA66	GA13	yes	–20	+120	Corrosion-resistant	474
Adapter sleeve	RSR	PA66	GA13	yes	–20	+120	Corrosion-resistant	476

With grub screws in inner ring

Spherical outer ring

UC

With adapter sleeve

Spherical outer ring

UK

Radial insert ball bearings

Features

These radial insert ball bearings are based on single row deep groove ball bearings 62 and comprise a solid section outer ring and an inner ring extended on both sides.

The bearings have plastic cages and are sealed on both sides by single piece seals RSR with a vulcanised seal lip and an outer flinger shield.

The honed raceways of the bearing rings, in conjunction with the high ball grade, ensure quiet running and a reduced frictional torque.

The outer ring has a spherical outside surface. In combination with a housing matched to the design, bearings with a spherical outer ring can compensate static misalignments of the shaft, see page 469.

The radial insert ball bearings are pregreased and can be relubricated by means of two lubrication holes in the outer ring.

Inch size designs

The radial insert ball bearings are also available with inch size bore dimensions, see dimension table.

Anti-corrosion protection

The inner and outer rings as well as the flinger shields of the radial insert ball bearings are provided with the Durotect B coating in order to offer basic protection against corrosion.

Adapter sleeves have a Durotect B or phosphate coating.

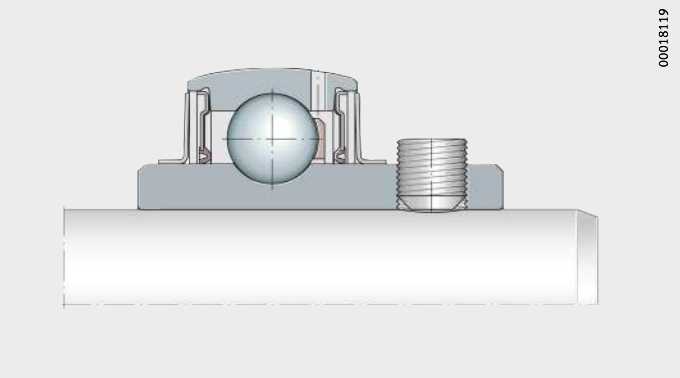
Location on shaft

Radial insert ball bearings are particularly easy to fit and are preferentially suitable for drawn shafts with the tolerances h6 Ⓔ to h9 Ⓔ.

In the radial insert ball bearings UC, the inner ring is located on the shaft by means of two grub screws offset by 120°, *Figure 1*, page 468. They are suitable for bearing arrangements with a constant direction of rotation or, under low speed and load, for an alternating direction of rotation.

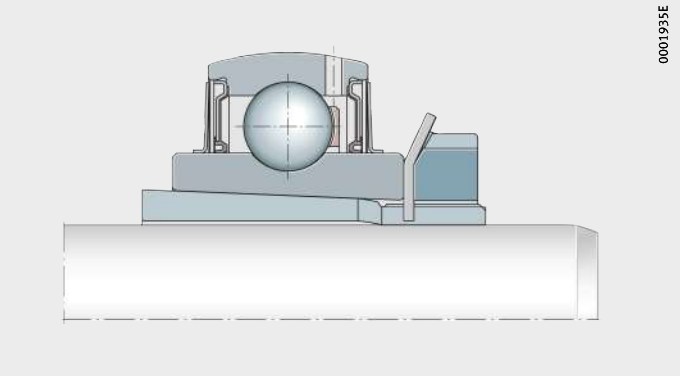
The grub screws are self-retaining and have a fine pitch thread with cup point for secure location of the bearings. In order to allow better differentiation, the metric grub screws have a Durotect B coating while the inch size grub screws are zinc plated.

In the case of radial insert ball bearings UK, the inner ring is located on the shaft by means of a concentric adapter sleeve in accordance with JIS B 1552, *Figure 2*, page 468. They are suitable for bearing arrangements with an alternating direction of rotation, even under high speed and load.



UC

Figure 1
Location by grub screws in the inner ring



UK

Figure 2
Location by adapter sleeve

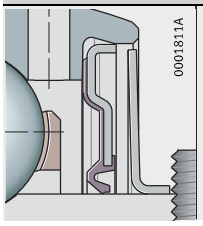
Tightening torques

Tightening torques for metric and inch size grub screws, see table, page 490.
Tightening torques for locknuts, see table, page 490.

Sealing

FAG Black Series radial insert ball bearings are supplied with seals RSR, see table.

Seal types

Seal RSR	
	Single piece, zinc-plated sheet steel washer with vulcanised and radially preloaded seal lip made from NBR and additional flinger shield

Operating temperature

The insert bearings are designed for operating temperatures from –20 °C to +120 °C.

In the case of temperatures over ϑ = +100 °C, relubrication must be carried out regularly.

Design and safety guidelines
Compensation of static misalignments

Bearings with a spherical outer ring, fitted in housings with a concave bore, can compensate for static misalignment of the shaft, *Figure 3*:

For units with a lubrication groove in the housing and a lubrication hole in the radial insert ball bearing, the following applies:

- Up to ±2,5°, the units can be relubricated.
- Between ±2,5° and ±5°, the facility for relubrication is dependent on the specific unit. Please contact us in this case.
- Above ±5°, relubrication is no longer possible.

The units must not be used to support swivelling or tumbling motion.

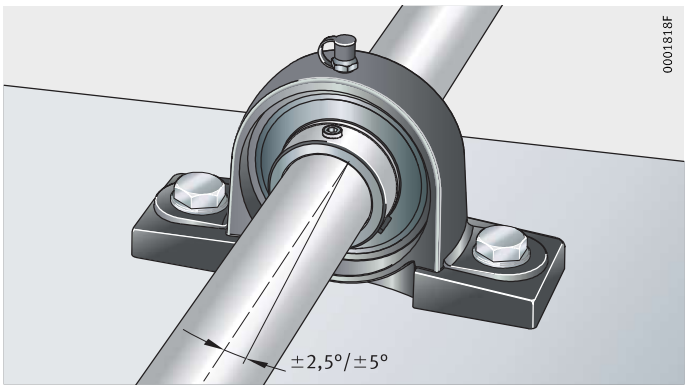


Figure 3
Compensation of static shaft misalignment

Speed limits for radial insert ball bearings

The speed limits are dependent on the load, the clearance between the bearing bore and shaft and the friction of the seals in the case of bearings with contact seals.

Guide values for the permissible speeds can be derived from the diagram, *Figure 2*.

In the case of load ratios $C_r/P > 13$, the speeds can be increased. At $C_r/P < 5$, location by means of a fit is recommended, see section Conditions of rotation, chapter Technical principles, Catalogue HR 1, Rolling Bearings. For both types of applications, please contact us.

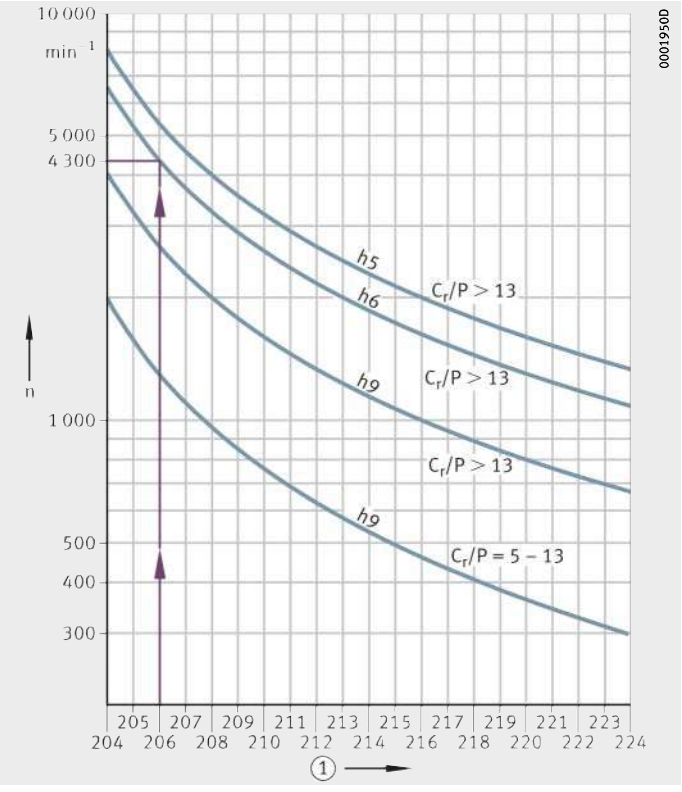
Example of permissible speed calculation

Given:

Shaft tolerance	h6 Ⓔ
Radial insert ball bearing	UC206
Basic dynamic load rating C_r	20 700 N
Load P	1 300 N
Sealing	Seals RSR.

Required:

Load ratio $C_r/P = 20\,700\ N/1\,300\ N$	$C_r/P > 13$
Permissible speed	$n \approx 4\,300\ min^{-1}$, *Figure 2*.



n = permissible speed
h5, h6, h9 = shaft tolerance (this is subject to the envelope requirement Ⓔ)
C_r/P = load ratio

① Ball set (bearings of sizes 201, 202, 203 and 204 all have the ball set 204)

Figure 4
Permissible speed for radial insert ball bearings with seals RSR

Shaft tolerances for radial insert ball bearings

The permissible shaft tolerance is dependent on the speed and load. Tolerances h6 Ⓔ to h9 Ⓔ are recommended.

Conventional drawn shafts will suffice for most applications.

Accuracy Standard tolerances of radial insert ball bearings

The outside diameter tolerances of the bearings conform to the tolerances in accordance with JIS B 1558. The inner ring bore has a plus tolerance to allow easier mounting of the bearing, see tables.

Inner ring tolerances

Nominal bearing bore diameter d mm		Variation[1] Δ_{dmp} µm		Width deviation Δ_{Bs} µm	
over	incl.	min.	max.	min.	max.
10	18	0	+15	–120	0
18	31,75	0	+18	–120	0
31,75	50,8	0	+21	–120	0
50,8	80,962	0	+24	–150	0
80,962	120	0	+28	–200	0

[1] This corresponds to the arithmetic mean value derived from the largest and smallest diameters (measured using a two-point measuring device).

Outer ring tolerances

Nominal outside diameter D_{sp} mm		Variation[1] Δ_{Dm} µm	
over	incl.	min.	max.
30	50	–11	0
50	80	–13	0
80	120	–15	0
120	150	–18	0
150	180	–25	0
180	250	–30	0

[1] In the case of sealed bearings, the largest and smallest values of the outside diameter can deviate from the mean value by approx. 0,03 mm.

Radial insert ball bearings

Radial internal clearance of radial insert ball bearings

The radial internal clearance in accordance with JIS B 1520 is C3 for radial insert ball bearings UC and C4 for radial insert ball bearings UK. It is thus larger than in the case of normal deep groove ball bearings, see table.

The larger internal clearance allows better support of misalignments and shaft deflection.

Radial internal clearance

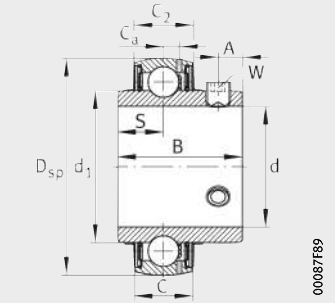
Bore d		Ball set	Outside diameter D	Radial internal clearance			
				C3		C4	
mm	*inch*		mm	µm		µm	
				min.	max.	min.	max.
12	–	204	47	13	28	20	36
12,7	*1/2*						
14,288	*9/16*						
15	–						
15,875	*5/8*						
17	–						
17,462	*11/16*						
19,05	*3/4*						
20	–						
20,638	*13/16*	205	52	13	28	23	41
22,225	*7/8*						
23,812	*15/16*						
25	–						
25,4	*1*						
26,988	*1 1/16*	206	62				
28,575	*1 1/8*						
30	–						
30,162	*1 3/16*						
31,75	*1 1/4*						
31,75	*1 1/4*	207	72	15	33	28	46
33,338	*1 5/16*						
34,925	*1 3/8*						
35	–						
36,512	*1 7/16*						
38,1	*1 1/2*	208	80				
39,688	*1 9/16*						
40	–						
41,275	*1 5/8*	209	85	18	36	30	51
42,862	*1 11/16*						
44,45	*1 3/4*						
45	–						
46,038	*1 13/16*	210	90				
47,625	*1 7/8*						
49,212	*1 15/16*						
50	–						
50,8	*2*						

Radial internal clearance
(continued)

Bore d		Ball set	Outside diameter D	Radial internal clearance			
				C3		C4	
mm	*inch*		mm	µm		µm	
				min.	max.	min.	max.
50,8	*2*	211	100	23	43	38	61
52,388	*2 1/16*						
53,975	*2 1/8*						
55	–						
55,562	*2 3/16*						
57,15	*2 1/4*	212	110				
58,738	*2 5/16*						
60	–						
60,325	*2 3/8*						
61,912	*2 7/16*						
63,5	*2 1/2*	213	120				
65	–						
65,09	*2 9/16*						
66,675	*2 5/8*	214	125	25	51	46	71
68,262	*2 11/16*						
69,85	*2 3/4*						
70	–						
71,438	*2 13/16*	215	130				
73,025	*2 7/8*						
74,612	*2 15/16*						
75	–						
76,2	*3*						
77,787	*3 1/16*	216	140				
79,375	*3 1/8*						
80	–						
80,962	*3 3/16*						
82,55	*3 1/4*	217	150	30	58	53	84
84,137	*3 5/16*						
85	–						
87,312	*3 7/16*						
88,9	*3 1/2*	218	160				
90	–						
93,662	*3 11/16*	219	170				
95	–						
100	–	220	180				
100,012	*3 15/16*						
101,6	*4*						

Radial insert ball bearings with grub screws in inner ring

Spherical outer ring



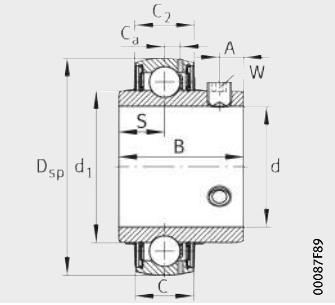
UC

Dimension table · Dimensions in mm and *inch*

Designation	Mass	Dimensions											Basic load ratings	
	m	d		D_{sp}	C	C_2	B	S	d_1	C_a	A	W	dyn. C_r	stat. C_{0r}
	≈ kg	mm	*inch*										N	N
UC201	0,2	**12**	–	47	17	16,8	31	12,7	27,56	4,2	5	3	13 600	6 600
UC201-08	0,2	**12,7**	*1/2*									1/8		
UC202-09	0,19	**14,29**	*9/16*									1/8		
UC202	0,18	**15**	–									3		
UC202-10	0,18	**15,88**	*5/8*									1/8		
UC203	0,17	**17**	–									3		
UC203-11	0,17	**17,46**	*11/16*									1/8		
UC204-12	0,16	**19,05**	*3/4*									1/8		
UC204	0,15	**20**	–									3		
UC205-13	0,24	**20,64**	*13/16*	52	17	17,6	34,1	14,3	33,83	4,2	5	1/8	14 900	7 800
UC205-14	0,22	**22,23**	*7/8*									1/8		
UC205-15	0,21	**23,81**	*15/16*									1/8		
UC205	0,2	**25**	–									3		
UC205-16	0,19	**25,4**	1									1/8		
UC206-17	0,35	**26,99**	*1 1/16*	62	19	19,6	38,1	15,9	40,2	5	5	1/8	20 700	11 300
UC206-18	0,33	**28,58**	*1 1/8*									1/8		
UC206	0,31	**30**	–									3		
UC206-19	0,31	**30,16**	*1 3/16*									1/8		
UC206-20	0,29	**31,75**	*1 1/4*									1/8		
UC207-20	0,52	**31,75**	*1 1/4*	72	20	20,6	42,9	17,5	46,84	5,7	7	5/32	27 500	15 300
UC207-21	0,5	**33,34**	*1 5/16*									5/32		
UC207-22	0,47	**34,93**	*1 3/8*									5/32		
UC207	0,47	**35**	–									4		
UC207-23	0,44	**36,51**	*1 7/16*									5/32		
UC208-24	0,66	**38,1**	*1 1/2*	80	21	21,6	49,2	19	52,27	6,2	8	5/32	34 500	19 800
UC208-25	0,63	**39,69**	*1 9/16*									5/32		
UC208	0,62	**40**	–									4		
UC209-26	0,79	**41,28**	*1 5/8*	85	22	22,6	49,2	19	57,91	6,3	8	5/32	34 500	20 400
UC209-27	0,75	**42,86**	*1 11/16*									5/32		
UC209-28	0,71	**44,45**	*1 3/4*									5/32		
UC209	0,69	**45**	–									4		
UC210-29	0,92	**46,04**	*1 13/16*	90	24	24,6	51,6	19	62,84	6,5	10	3/16	37 500	23 200
UC210-30	0,87	**47,63**	*1 7/8*									3/16		
UC210-31	0,82	**49,21**	*1 15/16*									3/16		
UC210	0,8	**50**	–									5		
UC210-32	0,77	**50,8**	2									3/16		

Radial insert ball bearings with grub screws in inner ring

Spherical outer ring



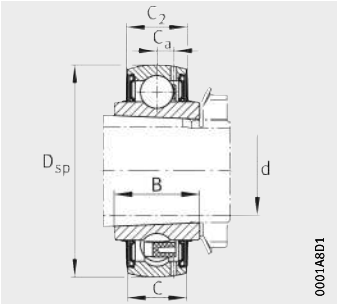
UC

Dimension table (continued) · Dimensions in mm and *inch*

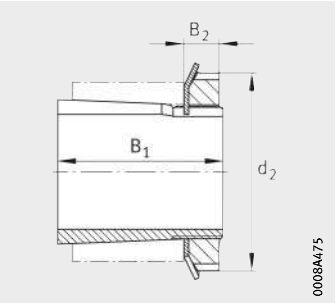
Designation	Mass	Dimensions											Basic load ratings	
	m	d		D_{sp}	C	C_2	B	S	d_1	C_a	A	W	dyn. C_r	stat. C_{0r}
	≈ kg	mm	*inch*										N	N
UC211-32	1,22	**50,8**	*2*	100	25	25,6	55,6	22,2	69,77	7	10	3/16	46 000	29 000
UC211-33	1,17	**52,39**	*2 1/16*									3/16		
UC211-34	1,11	**53,98**	*2 1/8*									3/16		
UC211	1,07	**55**	–									5		
UC211-35	1,05	**55,56**	*2 3/16*									3/16		
UC212-36	1,62	**57,15**	*2 1/4*	110	27	27,6	65,1	25,4	76,48	7,4	10	3/16	56 000	36 000
UC212-37	1,55	**58,74**	*2 5/16*									3/16		
UC212	1,49	**60**	–									5		
UC212-38	1,48	**60,33**	*2 3/8*									3/16		
UC212-39	1,4	**61,91**	*2 7/16*									3/16		
UC213-40	1,79	**63,5**	*2 1/2*	120	28	29,4	65,1	25,4	80,85	8,2	12	1/4	61 000	40 000
UC213	1,72	**65**	–									6		
UC213-41	1,71	**65,09**	*2 9/16*									1/4		
UC214-42	2,17	**66,68**	*2 5/8*	125	30	31,4	74,6	30,2	85,2	8,5	12	1/4	66 000	44 000
UC214-43	2,07	**68,26**	*2 11/16*									1/4		
UC214-44	1,97	**69,85**	*2 3/4*									1/4		
UC214	1,96	**70**	–									6		
UC215-45	2,39	**71,44**	*2 13/16*	130	32	33,4	77,8	33,3	90	8,5	12	1/4	66 000	44 500
UC215-46	2,28	**73,03**	*2 7/8*									1/4		
UC215-47	2,17	**74,61**	*2 15/16*									1/4		
UC215	2,14	**75**	–									6		
UC215-48	2,06	**76,2**	*3*									1/4		
UC216-49	2,88	**77,79**	*3 1/16*	140	33	34,4	82,6	33,3	97	9,3	14	1/4	76 000	54 000
UC216-50	2,76	**79,38**	*3 1/8*									1/4		
UC216	2,71	**80**	–									6		
UC216-51	2,63	**80,96**	*3 3/16*									1/4		
UC217-52	3,62	**82,55**	*3 1/4*	150	35	36,4	85,7	34,1	104,09	10	14	1/4	88 000	64 000
UC217-53	3,48	**84,14**	*3 5/16*									1/4		
UC217	3,41	**85**	–									6		
UC217-55	3,2	**87,31**	*3 7/16*									1/4		
UC218-56	4,2	**88,9**	*3 1/2*	160	38	39,4	96	39,7	109,4	11	15	1/4	102 000	72 000
UC218	4,08	**90**	–									6		

Radial insert ball bearings with adapter sleeve

Spherical outer ring



UK



Complete adapter sleeve[1)]

Dimension table · Dimensions in mm

Designation	Mass	Dimensions						Basic load ratings	
	m ≈ kg	d	D_{sp}	C	C_2	B	C_a	dyn. C_r N	stat. C_{0r} N
UK205	0,25	**20**	52	17	17,6	23	4,2	14 900	7 800
UK206	0,37	**25**	62	19	19,6	26	5	20 700	11 300
UK207	0,54	**30**	72	20	20,6	29	5,7	27 500	15 300
UK208	0,7	**35**	80	21	21,6	31	6,2	34 500	19 800
UK209	0,83	**40**	85	22	22,6	32	6,3	34 500	20 400
UK210	0,98	**45**	90	24	24,6	34	6,5	37 500	23 200
UK211	1,24	**50**	100	25	25,6	36	7	46 000	29 000
UK212	1,58	**55**	110	27	27,6	40	7,4	56 000	36 000
UK213	1,88	**60**	120	28	29,4	41	8,2	61 000	40 000
UK215	2,62	**65**	130	32	33,4	44	8,5	66 000	44 500
UK216	3,23	**70**	140	33	34,4	46	9,3	76 000	54 000
UK217	3,9	**75**	150	35	36,4	48	10	88 000	64 000
UK218	4,62	**80**	160	38	39,4	51	11	102 000	72 000

[1)] Radial insert ball bearings UK are supplied with an adapter sleeve H..X.

Designation					Mass	Dimensions		
Adapter sleeve Complete	Sleeve	Locknut	Tab washer	Matching bearing	m ≈ kg	B_1	B_2	d_2 max.
H2305X	A2305X	AN05	AW05X	UK205	0,1	35	8	38
H2306X	A2306X	AN06	AW06X	UK206	0,13	38	8	45
H2307X	A2307X	AN07	AW07X	UK207	0,18	43	9	52
H2308X	A2308X	AN08	AW08X	UK208	0,23	46	10	58
H2309X	A2309X	AN09	AW09X	UK209	0,31	50	11	65
H2310X	A2310X	AN10	AW10X	UK210	0,38	55	12	70
H2311X	A2311X	AN11	AW11X	UK211	0,45	59	12	75
H2312X	A2312X	AN12	AW12X	UK212	0,5	62	13	80
H2313X	A2313X	AN13	AW13X	UK213	0,58	65	14	85
H2315X	A2315X	AN15	AW15X	UK215	1,1	73	15	98
H2316X	A2316X	AN16	AW16X	UK216	1,33	78	17	105
H2317X	A2317X	AN17	AW17X	UK217	1,51	82	18	110
H2318X	A2318X	AN18	AW18X	UK218	1,77	86	18	120

FAG

Housing units

Housing units

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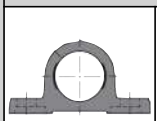
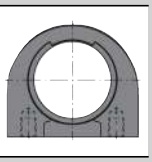
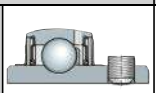
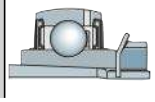
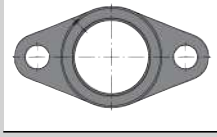
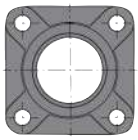
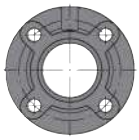
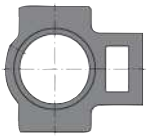
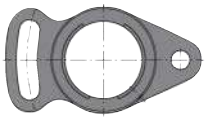
Possible combinations of radial insert ball bearings and housings

Radial insert ball bearing		Housing Plummer block housing	
			
Designation Shaft diameter d		**P**	**PA**
UC 12 mm – 90 mm 1/2" – 3 1/2"		**UCP** page 492	**UCPA** page 498
UK 20 mm – 80 mm		**UKP** page 496	Available by agreement

Catalogue range, for dimension tables see pages indicated.
Other dimensions and combinations available by agreement.

Two-bolt flanged housing	Four-bolt flanged housing		Take-up housing	
				
FL	**F**	**FC**	**T**	**FA**
UCFL page 500	**UCF** page 503	**UCFC** page 506	**UCT** page 512	**UCFA** page 518
UKFL page 502	**UKF** page 505	**UKFC** page 510	**UKT** page 516	Available by agreement

Plummer block housing units

Flake graphite cast iron housing with long base

UCP

UKP

Flake graphite cast iron housing with short base

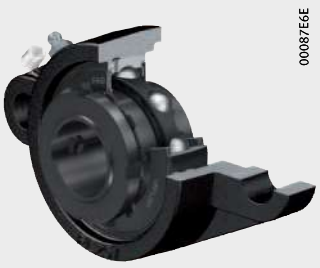
UCPA

Two-bolt flanged housing units

Flake graphite cast iron housing

UCFL

UKFL



Four-bolt flanged housing units

Flake graphite cast iron housing

UCF

UKF

UCFC

UKFC

Take-up housing units

Flake graphite cast iron housing

UCT

UKT

UCFA

Housing units

Features

These housing units are available as plummer block housing units, flanged housing units and take-up housing units. The units are ready-to-fit and comprise FAG flake graphite cast iron housings in which FAG Black Series radial insert ball bearings are fitted. In order to ensure function and reliability under all operating conditions, the bearings and housings are matched to each other.

Due to the spherical outer ring of the bearing and the concave housing bore, housing units can compensate for static misalignments of the shaft, see page 487.

The housings are screw mounted on the adjacent construction. Less stringent tolerances are sufficient for the screw mounting surfaces, see page 487.

Housing units with flake graphite cast iron housing

The flake graphite cast iron housings are single piece components in accordance with JIS B 1559 and have high radial and axial load carrying capacity, see page 487.

The housing has a lubrication groove for relubrication of the radial insert ball bearing. The housing has a lubrication hole with an M6 thread for a lubrication nipple.

The housings have a primer paint coating as anti-corrosion protection of colour RAL 9005 (black).

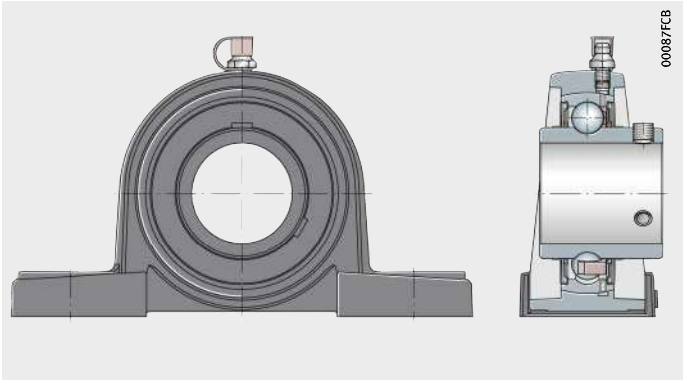
Housing material

The material used for the flake graphite cast iron housings is cast iron in accordance with JIS G 5501.

Plummer block housing units

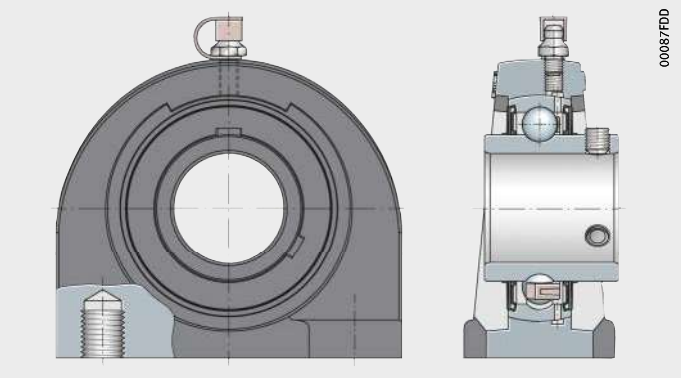
Plummer block housing units have a housing with a short or long base and are screw mounted to the adjacent construction through slot holes or fixing holes, *Figure 1* and *Figure 2*, page 485.

Plummer block housing units with a long base are available either with radial insert ball bearings UC with grub screws or with radial insert ball bearings UK with adapter sleeves, see dimension table.



UCP

Figure 1
Plummer block housing unit, flake graphite cast iron housing with long base



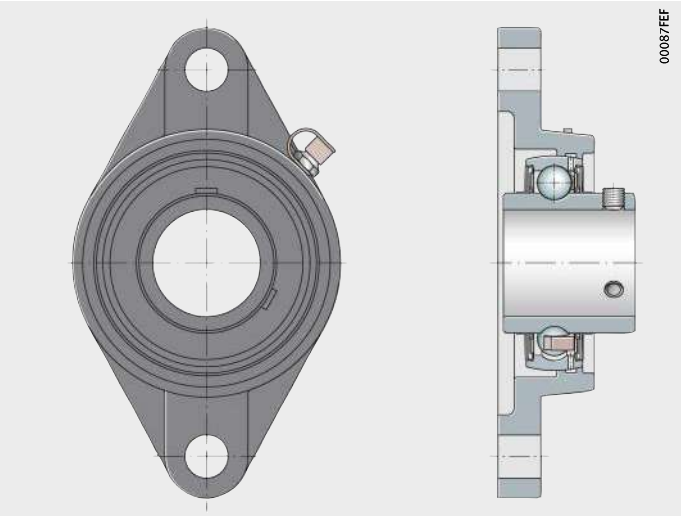
UCPA

Figure 2
Plummer block housing unit with short base

Flanged housing units

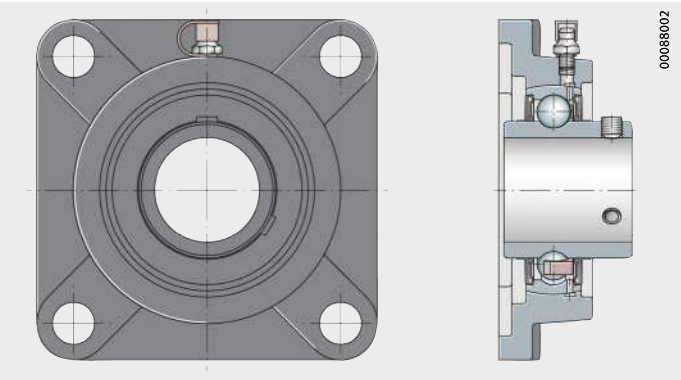
Flanged housing units are available as two-bolt and four-bolt units, *Figure 3* to *Figure 5*, page 486. The housings are oval, square or round in shape. The housings have through holes for location purposes.

Flanged housing units are available either with radial insert ball bearings UC with grub screws or with radial insert ball bearings UK with adapter sleeves, see dimension table.



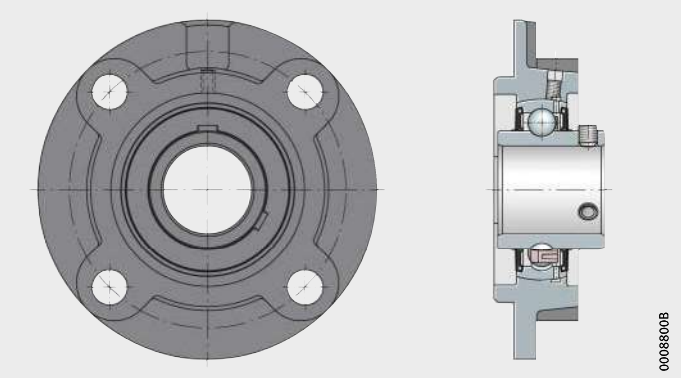
UCFL

Figure 3
Two-bolt flanged housing unit, oval version



UCF

Figure 4
Four-bolt flanged housing unit, square version

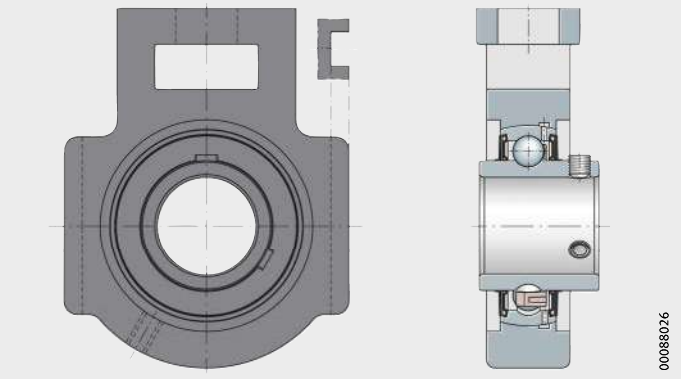


UCFC

Figure 5
Four-bolt flanged housing unit, round version

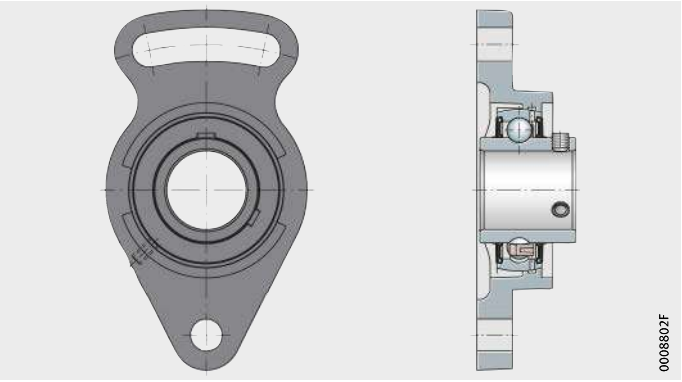
Take-up housing units

Take-up housing units can be moved or swivelled, *Figure 6* and *Figure 7*. They are used where shafts must carry out long displacement motions.



UCT

Figure 6
Take-up housing unit for linear motion



UCFA

Figure 7
Take-up housing unit for swivel motion

Design and safety guidelines

Compensation of static misalignments

Units with a spherical outer ring and concave housing bore can compensate static misalignments of the shaft, see page 469.

Load carrying capacity of housings

Due to their versatile characteristics, FAG housing units can be easily used in almost all industrial sectors.

Radial load carrying capacity

Flake graphite cast iron housings can support the same radial loads as the radial insert ball bearings fitted. The static load carrying capacity C_{0r} of the radial insert ball bearings is stated in the dimension tables.

Where shock loads are present, appropriate safety factors must be applied. In this case, please contact us.

Axial load carrying capacity

The axial load carrying capacity of flake graphite cast iron housings is restricted to $0{,}5 \times C_{0r}$.

Load carrying capacity and speed limits of radial insert ball bearings

In the design of housing units, attention must be paid to the load carrying capacity and speed limits of the radial insert ball bearings fitted:

- speed limits, see page 470
- dimension table, see page 474.

Design of adjacent construction

The permissible shaft tolerance is dependent on the speed and load. Shafts of the tolerance classes h6 Ⓔ to h9 Ⓔ can be used.

Screw mounting surfaces

Recommendations for the screw mounting surfaces are as follows:

- The roughness of the screw mounting surface should be max. Ra 12,5 (Rzmax 63)
- The geometrical tolerance should be 0,04/100 concave, a spherical form is not permissible
- In addition, it is recommended that the housings should be secured by dowels to the locating surface if higher loads acting parallel to the locating surface occur.

Fixing screws

The screw connection should be designed in accordance with the state of the art. Screws of grade 8.8 can be used. The maximum tightening torques applicable to this screw grade must not be exceeded even if screws of a higher grade are used.

In principle, we recommend that the screw connection should only be tightened to 70% of the values stated in the standard.

Screws and accessories for location are not included in the delivery.

Housing units

Mounting and dismounting

Radial insert ball bearings must be handled with care before and during mounting. Their trouble-free operation is also dependent on the care taken during mounting.

Delivered condition

The housings have a coating of black primer paint (RAL 9005).

The radial insert ball bearings are greased using a grease in grease group GA13, see Catalogue HR 1, Rolling Bearings.

The housing units are supplied with a loose packed lubrication nipple and integrated end cap for the lubrication nipple as well as an Allen key.

Storage and shelf life

The units should be stored in dry, clean rooms with a temperature as constant as possible and at a relative humidity of max. 65%.

The storage life of radial insert ball bearings is limited by the shelf life of the grease, see chapter Technical principles in Catalogue HR 1, Rolling Bearings.

Removal from packaging

Perspiration causes corrosion. Hands must therefore be kept clean and dry. Bearings should not be removed from their original packaging until immediately before mounting.

Preparation for mounting

The following preparatory measures for mounting should be taken:

- Ensure that the mounting tools and fixing screws are present.
- Clean the shaft and remove any burrs.
- Inspect the bearing seating surfaces on the shaft.
- Keep bearing seating surfaces clean, dry and free of grease.

Mounting of plummer block and flanged housing units

The assembly area should be as dry and clean as possible:

- The specified shaft tolerances must be observed, see page 487.
- Mounting forces must never be directed through the rolling elements.
- Blows should never be applied directly to the bearing rings and flinger shields or seals.
- Observe the tightening torques M_A for grub screws and adapter sleeve, see tables, page 490.

If the following sequence is observed, the bearing will align itself on the shaft in such a way that no undesirable stresses occur:

- ▶ Slide the housing unit onto the shaft and align it with the fixing holes in the adjacent construction, *Figure 8*.
- ▶ Tighten the fixing screws for all housings finger tight in the adjacent construction and align the shaft, *Figure 9*.
- ▶ Tighten both grub screws in the inner ring (for radial insert ball bearing UC) or the locknut of the adapter sleeve (for radial insert ball bearing UK) using a tightening torque (with an additional adapter if necessary) to the specified tightening torque, *Figure 10*, page 490.
- ▶ Locate the housings on the adjacent construction using the recommended tightening torque, see page 487.

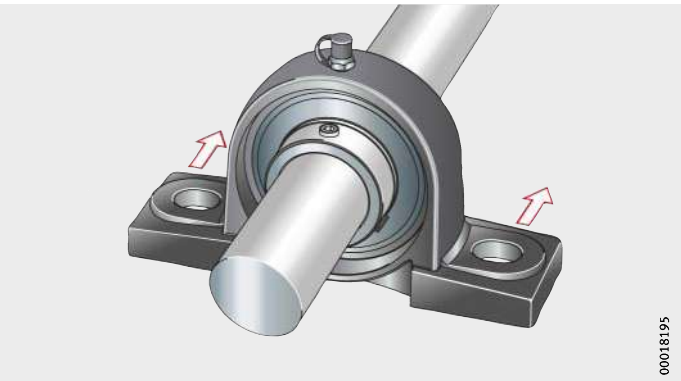


Figure 8
Sliding the unit onto the shaft

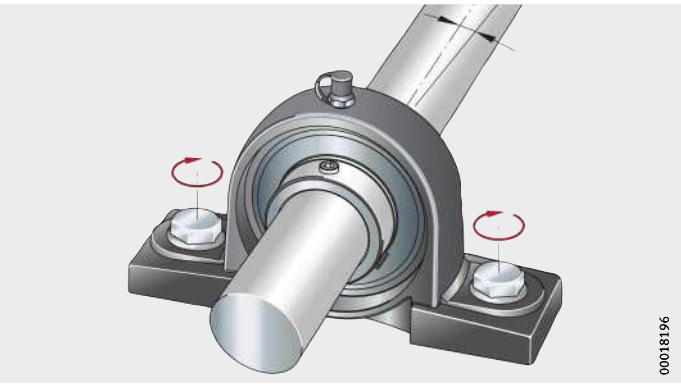


Figure 9
Screw mounting the housing finger tight

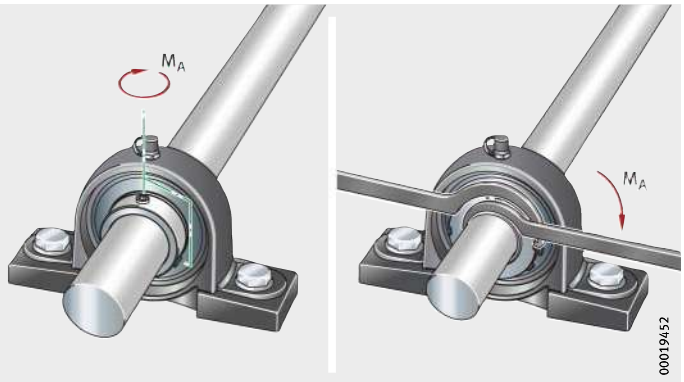


Figure 10
Fully tightening the grub screws or locknut in the inner ring

Tightening torques for grub screws

Width across flats W		Thread		Tightening torques[1] M_A
mm	*inch*	ISO	UNF	Nm
3	$^1/_8$	M6×0,75	1/4″-28	6
4	$^5/_{32}$	M8×1	5/16″-24	14
5	$^3/_{16}$	M10×1,25	3/8″-24	26
6	$^1/_4$	M12×1,5	1/2″-20	42

[1] The tightening torques are valid for original FAG grub screws only.

Tightening torques for locknut

Locknut	Tightening torques M_A Nm
AN05	25
AN06	30
AN07	40
AN08	50
AN09	60
AN10	75
AN11	100
AN12	130
AN13	150
AN15	170
AN16	200
AN17	230
AN18	270

Dismounting

The units are dismounted in the reverse sequence.

- ▶ Loosen the grub screws in the inner ring or the locknut of the adapter sleeve.
- ▶ Unscrew the housing.

Accuracy

The flake graphite cast iron housings conform to JIS B 1559.

Accuracy of fitted radial insert ball bearings: see page 471.

Dimensional tolerances

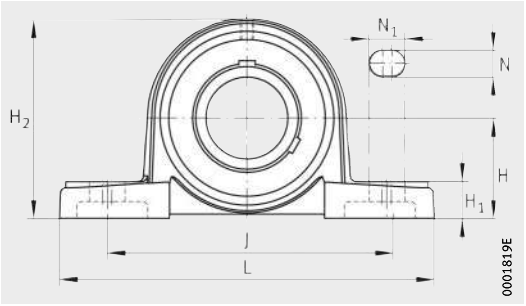
The dimensional tolerances for the machined surfaces of the flake graphite cast iron housings are ±0,25 mm.

Dimensions without tolerance conform to JIS B 0403:

- unfinished dimensions to Table 1, class CT 10
- finished dimensions to Table 5.

Plummer block housing units

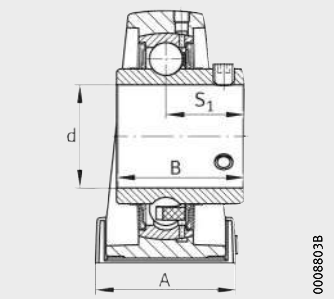
Flake graphite cast iron housing
with long base
With grub screws in inner ring



UCP

Dimension table · Dimensions in mm and *inch*

Designation	Mass	Dimensions				
	m	d		H	L	J
	≈kg	mm	*inch*			
UCP201	0,64	**12**	–	30,2	127	95
UCP201-08	0,64	**12,7**	*1/2*			
UCP202-09	0,63	**14,288**	*9/16*			
UCP202	0,62	**15**	–			
UCP202-10	0,62	**15,875**	*5/8*			
UCP203	0,61	**17**	–			
UCP203-11	0,61	**17,462**	*11/16*			
UCP204-12	0,66	**19,05**	*3/4*	33,3		
UCP204	0,65	**20**	–			
UCP205-13	0,83	**20,638**	*13/16*	36,5	140	105
UCP205-14	0,82	**22,225**	*7/8*			
UCP205-15	0,81	**23,812**	*15/16*			
UCP205	0,79	**25**	–			
UCP205-16	0,79	**25,4**	1			
UCP206-17	1,33	**26,988**	*1 1/16*	42,9	165	121
UCP206-18	1,31	**28,575**	*1 1/8*			
UCP206	1,29	**30**	–			
UCP206-19	1,29	**30,162**	*1 3/16*			
UCP206-20	1,27	**31,75**	*1 1/4*			
UCP207-20	1,6	**31,75**	*1 1/4*	47,6	167	127
UCP207-21	1,58	**33,338**	*1 5/16*			
UCP207-22	1,55	**34,925**	*1 3/8*			
UCP207	1,55	**35**	–			
UCP207-23	1,52	**36,512**	*1 7/16*			
UCP208-24	1,89	**38,1**	*1 1/2*	49,2	184	137
UCP208-25	1,85	**39,688**	*1 9/16*			
UCP208	1,84	**40**	–			
UCP209-26	2,29	**41,275**	*1 5/8*	54	190	146
UCP209-27	2,25	**42,862**	*1 11/16*			
UCP209-28	2,21	**44,45**	*1 3/4*			
UCP209	2,2	**45**	–			
UCP210-29	2,89	**46,038**	*1 13/16*	57,2	206	159
UCP210-30	2,85	**47,625**	*1 7/8*			
UCP210-31	2,8	**49,212**	*1 15/16*			
UCP210	2,77	**50**	–			
UCP210-32	2,75	**50,8**	2			

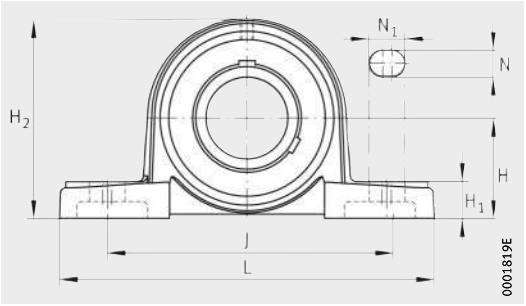


UCP

A	N_1	N	H_1	H_2	B	S_1	Housing	Radial insert ball bearing
38	19	13	14	62	31	18,3	P203	UC201
								UC201-08
								UC202-09
								UC202
								UC202-10
								UC203
								UC203-11
				65			P204	UC204-12
								UC204
38	19	13	15	71	34,1	19,8	P205	UC205-13
								UC205-14
								UC205-15
								UC205
								UC205-16
48	21	17	17	83	38,1	22,2	P206	UC206-17
								UC206-18
								UC206
								UC206-19
								UC206-20
48	21	17	18	93	42,9	25,4	P207	UC207-20
								UC207-21
								UC207-22
								UC207
								UC207-23
54	21	17	18	99	49,2	30,2	P208	UC208-24
								UC208-25
								UC208
54	21	17	20	106	49,2	30,2	P209	UC209-26
								UC209-27
								UC209-28
								UC209
60	25	20	21	114	51,6	32,6	P210	UC210-29
								UC210-30
								UC210-31
								UC210
								UC210-32

Plummer block housing units

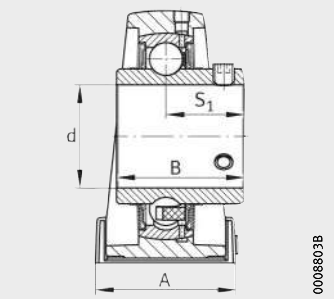
Flake graphite cast iron housing
with long base
With grub screws in inner ring



UCP

Dimension table (continued) · Dimensions in mm and *inch*

Designation	Mass	Dimensions				
	m	d		H	L	J
	≈kg	mm	*inch*			
UCP211-32	3,56	**50,8**	*2*	63,5	219	171
UCP211-33	3,5	**52,388**	*2 1/16*			
UCP211-34	3,44	**53,975**	*2 1/8*			
UCP211	3,41	**55**	–			
UCP211-35	3,39	**55,562**	*2 3/16*			
UCP212-36	4,75	**57,15**	*2 1/4*	69,8	241	184
UCP212-37	4,68	**58,738**	*2 5/16*			
UCP212	4,62	**60**	–			
UCP212-38	4,6	**60,325**	*2 3/8*			
UCP212-39	4,53	**61,912**	*2 7/16*			
UCP213-40	5,63	**63,5**	*2 1/2*	76,2	265	203
UCP213	5,55	**65**	–			
UCP213-41	5,55	**65,087**	*2 9/16*			
UCP214-42	6,29	**66,675**	*2 5/8*	79,4	266	210
UCP214-43	6,2	**68,262**	*2 11/16*			
UCP214-44	6,1	**69,85**	*2 3/4*			
UCP214	6,1	**70**	–			
UCP215-45	6,9	**71,438**	*2 13/16*	82,6	275	217
UCP215-46	6,81	**73,025**	*2 7/8*			
UCP215-47	6,7	**74,612**	*2 15/16*			
UCP215	6,67	**75**	–			
UCP215-48	6,58	**76,2**	*3*			
UCP216-49	8,53	**77,787**	*3 1/16*	88,9	292	232
UCP216-50	8,4	**79,375**	*3 1/8*			
UCP216	8,4	**80**	–			
UCP216-51	8,28	**80,962**	*3 3/16*			
UCP217-52	10,3	**82,55**	*3 1/4*	95,2	310	247
UCP217-53	10,17	**84,137**	*3 5/16*			
UCP217	10,1	**85**	–			
UCP217-55	9,9	**87,312**	*3 7/16*			
UCP218-56	12,3	**88,9**	*3 1/2*	101,6	327	262
UCP218	12,2	**90**	–			

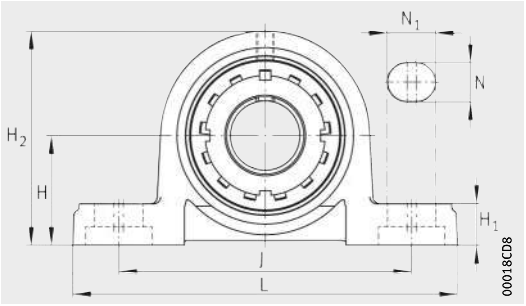


UCP

A	N_1	N	H_1	H_2	B	S_1	Housing	Radial insert ball bearing
60	25	20	23	126	55,6	33,4	P211	UC211-32
								UC211-33
								UC211-34
								UC211
								UC211-35
70	25	20	25	138	65,1	39,7	P212	UC212-36
								UC212-37
								UC212
								UC212-38
								UC212-39
70	29	25	27	151	65,1	39,7	P213	UC213-40
								UC213
								UC213-41
72	31	25	27	157	74,6	44,4	P214	UC214-42
								UC214-43
								UC214-44
								UC214
74	31	25	28	163	77,8	44,5	P215	UC215-45
								UC215-46
								UC215-47
								UC215
								UC215-48
78	31	25	30	175	82,6	49,3	P216	UC216-49
								UC216-50
								UC216
								UC216-51
83	31	25	32	187	85,7	51,6	P217	UC217-52
								UC217-53
								UC217
								UC217-55
88	33	27	33	200	96	56,3	P218	UC218-56
								UC218

Plummer block housing units

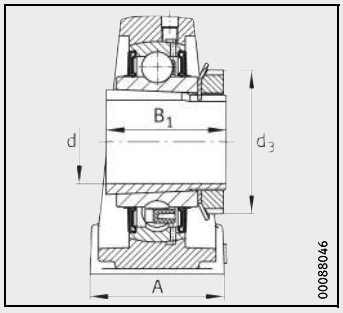
Flake graphite cast iron housing
with long base
With adapter sleeve



UKP

Dimension table · Dimensions in mm

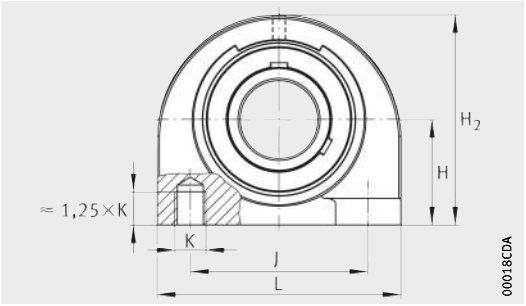
Designation	Mass	Dimensions											Housing	Radial insert ball bearing
	m ≈kg	d	H	L	J	A	N_1	N	H_1	H_2	B_1	d_3 max.		
UKP205	0,84	**20**	36,5	140	105	38	19	13	15	71	35	38	P205	UK205
UKP206	1,36	**25**	42,9	165	121	48	21	17	17	83	38	45	P206	UK206
UKP207	1,63	**30**	47,6	167	127	48	21	17	18	93	43	52	P207	UK207
UKP208	1,92	**35**	49,2	184	137	54	21	17	18	98	46	58	P208	UK208
UKP209	2,33	**40**	54	190	146	54	21	17	20	106	50	65	P209	UK209
UKP210	2,95	**45**	57,2	206	159	60	25	20	21	114	55	70	P210	UK210
UKP211	3,58	**50**	63,5	219	171	60	25	20	23	126	59	75	P211	UK211
UKP212	4,71	**55**	69,8	241	184	70	25	20	25	138	62	80	P212	UK212
UKP213	5,71	**60**	76,2	265	203	70	29	25	27	151	65	85	P213	UK213
UKP215	7,11	**65**	82,6	275	217	74	31	25	28	163	73	98	P215	UK215
UKP216	8,86	**70**	88,9	292	232	78	31	25	30	175	78	105	P216	UK216
UKP217	10,58	**75**	95,2	310	247	83	31	25	32	187	82	110	P217	UK217
UKP218	12,71	**80**	101,6	327	262	88	33	27	33	200	86	120	P218	UK218



UKP

Plummer block housing units

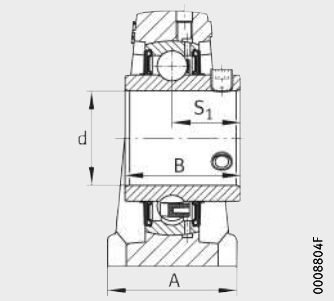
Flake graphite cast iron housing
with short base
With grub screws in inner ring



UCPA

Dimension table · Dimensions in mm and *inch*

Designation	Mass	Dimensions				
	m	d		H	A	H_2
	≈kg	mm	*inch*			
UCPA201	0,65	**12**	–	30,2	38	62
UCPA201-08	0,65	**12,7**	*1/2*			
UCPA202-09	0,64	**14,288**	*9/16*			
UCPA202	0,64	**15**	*15*			
UCPA202-10	0,63	**15,875**	*5/8*			
UCPA203	0,63	**17**	–			
UCPA203-11	0,63	**17,462**	*11/16*			
UCPA204-12	0,62	**19,05**	*3/4*			
UCPA204	0,61	**20**	–			
UCPA205-13	0,87	**20,638**	*13/16*	36,5	38	72
UCPA205-14	0,86	**22,225**	*7/8*			
UCPA205-15	0,84	**23,812**	*15/16*			
UCPA205	0,83	**25**	–			
UCPA205-16	0,83	**25,4**	*1*			
UCPA206-17	1,26	**26,988**	*1 1/16*	42,9	48	84
UCPA206-18	1,24	**28,575**	*1 1/8*			
UCPA206	1,22	**30**	–			
UCPA206-19	1,22	**30,162**	*1 3/16*			
UCPA206-20	1,2	**31,75**	*1 1/4*			
UCPA207-20	1,75	**31,75**	*1 1/4*	47,6	48	95
UCPA207-21	1,73	**33,338**	*15/16*			
UCPA207-22	1,7	**34,925**	*1 3/8*			
UCPA207	1,7	**35**	–			
UCPA207-23	1,67	**36,512**	*1 7/16*			
UCPA208-24	1,96	**38,1**	*1 1/2*	49,2	54	100
UCPA208-25	1,92	**39,688**	*1 9/16*			
UCPA208	1,91	**40**	–			
UCPA209-26	2,28	**41,275**	*1 5/8*	54,2	54	108
UCPA209-27	2,24	**42,862**	*1 11/16*			
UCPA209-28	2,2	**44,45**	*1 3/4*			
UCPA209	2,19	**45**	–			
UCPA210-29	2,9	**46,038**	*1 13/16*	57,2	60	116
UCPA210-30	2,85	**47,625**	*1 7/8*			
UCPA210-31	2,8	**49,212**	*1 15/16*			
UCPA210	2,78	**50**	–			
UCPA210-32	2,76	**50,8**	*2*			

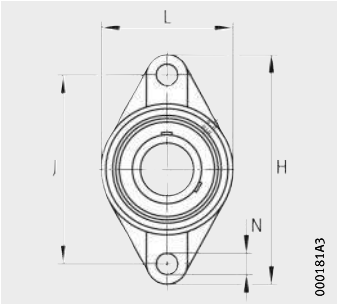


UCPA

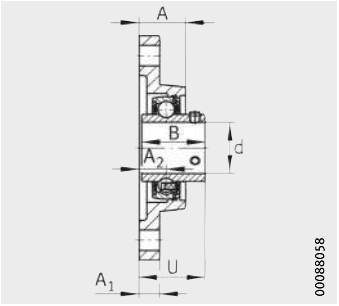
					Housing	Radial insert ball bearing
K	B	J	S_1	L		
M10	31	52	18,3	76	PA204	UC201
						UC201-08
						UC202-09
						UC202
						UC202-10
						UC203
						UC203-11
						UC204-12
						UC204
M10	34,1	56	19,8	84	PA205	UC205-13
						UC205-14
						UC205-15
						UC205
						UC205-16
M14	38,1	66	22,2	94	PA206	UC206-17
						UC206-18
						UC206
						UC206-19
						UC206-20
M14	42,9	80	25,4	110	PA207	UC207-20
						UC207-21
						UC207-22
						UC207
						UC207-23
M14	49,2	84	30,2	116	PA208	UC208-24
						UC208-25
						UC208
M14	49,2	90	30,2	120	PA209	UC209-26
						UC209-27
						UC209-28
						UC209
M16	51,6	94	32,6	130	PA210	UC210-29
						UC210-30
						UC210-31
						UC210
						UC210-32

Two-bolt flanged housing units

Oval version
With grub screws
in inner ring



UCFL



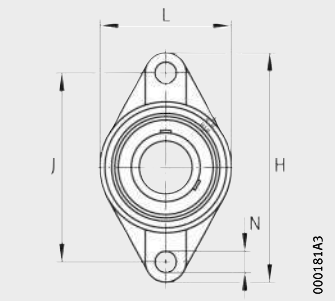
UCFL

Dimension table · Dimensions in mm and *inch*

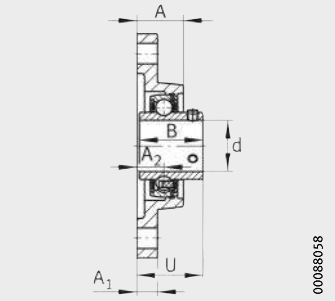
Designation	Mass	Dimensions											Housing	Radial insert ball bearing
	m	d		H	J	L	A	A_1	A_2	N	B	U		
	≈kg	mm	*inch*											
UCFL201	0,47	**12**	–	113	90	60	25,5	12	15	12	31	33,3	FL204	UC201
UCFL201-08	0,47	**12,7**	*1/2*											UC201-08
UCFL202-09	0,47	**14,288**	*9/16*											UC202-09
UCFL202	0,46	**15**	–											UC202
UCFL202-10	0,46	**15,875**	*5/8*											UC202-10
UCFL203	0,45	**17**	–											UC203
UCFL203-11	0,45	**17,462**	*11/16*											UC203-11
UCFL204-12	0,43	**19,05**	*3/4*											UC204-12
UCFL204	0,42	**20**	–											UC204
UCFL205-13	0,68	**20,638**	*13/16*	130	99	68	27	15	16	16	34,1	35,8	FL205	UC205-13
UCFL205-14	0,67	**22,225**	*7/8*											UC205-14
UCFL205-15	0,65	**23,812**	*15/16*											UC205-15
UCFL205	0,64	**25**	–											UC205
UCFL205-16	0,64	**25,4**	*1*											UC205-16
UCFL206-17	0,92	**26,988**	*1 1/16*	148	117	80	31	14	18	16	38,1	40,2	FL206	UC206-17
UCFL206-18	0,9	**28,575**	*1 1/8*											UC206-18
UCFL206	0,88	**30**	–											UC206
UCFL206-19	0,88	**30,162**	*1 3/16*											UC206-19
UCFL206-20	0,85	**31,75**	*1 1/4*											UC206-20
UCFL207-20	1,27	**31,75**	*1 1/4*	161	130	90	34	16	19	16	42,9	44,4	FL207	UC207-20
UCFL207-21	1,24	**33,338**	*1 5/16*											UC207-21
UCFL207-22	1,21	**34,925**	*1 3/8*											UC207-22
UCFL207	1,21	**35**	–											UC207
UCFL207-23	1,18	**36,512**	*1 7/16*											UC207-23
UCFL208-24	1,53	**38,1**	*1 1/2*	175	144	100	36	16	21	16	49,2	51,2	FL208	UC208-24
UCFL208-25	1,49	**39,688**	*1 9/16*											UC208-25
UCFL208	1,48	**40**	–											UC208
UCFL209-26	2,05	**41,275**	*1 5/8*	188	148	108	38	18	22	19	49,2	52,2	FL209	UC209-26
UCFL209-27	2,01	**42,862**	*1 11/16*											UC209-27
UCFL209-28	1,97	**44,45**	*1 3/4*											UC209-28
UCFL209	1,95	**45**	–											UC209

Two-bolt flanged housing units

Oval version
With grub screws
in inner ring



UCFL



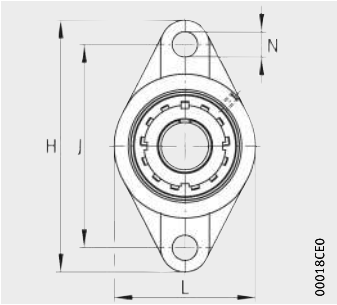
UCFL

Dimension table (continued) · Dimensions in mm and *inch*

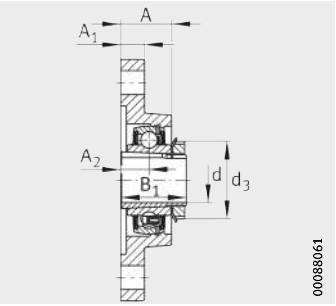
Designation	Mass	Dimensions											Housing	Radial insert ball bearing
	m	d		H	J	L	A	A_1	A_2	N	B	U		
	≈kg	mm	*inch*											
UCFL210-29	2,34	**46,038**	$1\,^{13}/_{16}$	197	157	115	40	18	22	19	51,6	54,6	FL210	UC210-29
UCFL210-30	2,3	**47,625**	$1\,^{7}/_{8}$											UC210-30
UCFL210-31	2,25	**49,212**	$1\,^{15}/_{16}$											UC210-31
UCFL210	2,23	**50**	–											UC210
UCFL210-32	2,2	**50,8**	*2*											UC210-32
UCFL211-32	3,02	**50,8**	*2*	224	184	130	43	20	25	19	55,6	58,4	FL211	UC211-32
UCFL211-33	2,96	**52,388**	$2\,^{1}/_{16}$											UC211-33
UCFL211-34	2,91	**53,975**	$2\,^{1}/_{8}$											UC211-34
UCFL211	2,87	**55**	–											UC211
UCFL211-35	2,85	**55,562**	$2\,^{3}/_{16}$											UC211-35
UCFL212-36	4,1	**57,15**	$2\,^{1}/_{4}$	250	202	140	48	20	29	23	65,1	68,7	FL212	UC212-36
UCFL212-37	4,02	**58,738**	$2\,^{5}/_{16}$											UC212-37
UCFL212	3,96	**60**	–											UC212
UCFL212-38	3,95	**60,325**	$2\,^{3}/_{8}$											UC212-38
UCFL212-39	3,87	**61,912**	$2\,^{7}/_{16}$											UC212-39
UCFL213-40	4,76	**63,5**	$2\,^{1}/_{2}$	258	210	155	50	24	30	23	65,1	69,7	FL213	UC213-40
UCFL213	4,69	**65**	–											UC213
UCFL213-41	4,68	**65,087**	$2\,^{9}/_{16}$											UC213-41
UCFL214-42	5,44	**66,675**	$2\,^{5}/_{8}$	265	216	160	54	24	31	23	74,6	75,4	FL214	UC214-42
UCFL214-43	5,34	**68,262**	$2\,^{11}/_{16}$											UC214-43
UCFL214-44	5,24	**69,85**	$2\,^{3}/_{4}$											UC214-44
UCFL214	5,23	**70**	–											UC214
UCFL215-45	5,94	**71,438**	$2\,^{13}/_{16}$	275	225	165	56	24	34	23	77,8	78,5	FL215	UC215-45
UCFL215-46	5,83	**73,025**	$2\,^{7}/_{8}$											UC215-46
UCFL215-47	5,72	**74,612**	$2\,^{15}/_{16}$											UC215-47
UCFL215	5,69	**75**	–											UC215
UCFL215-48	5,61	**76,2**	*3*											UC215-48
UCFL216-49	7,4	**77,787**	$3\,^{1}/_{16}$	290	233	180	58	24	34	25	82,6	83,3	FL216	UC216-49
UCFL216-50	7,28	**79,375**	$3\,^{1}/_{8}$											UC216-50
UCFL216	7,23	**80**	–											UC216
UCFL216-51	7,15	**80,962**	$3\,^{3}/_{16}$											UC216-51
UCFL217-52	8,74	**82,55**	$3\,^{1}/_{4}$	305	248	190	63	26	36	25	85,7	87,6	FL217	UC217-52
UCFL217-53	8,61	**84,137**	$3\,^{5}/_{16}$											UC217-53
UCFL217	8,6	**85**	–											UC217
UCFL217-55	8,32	**87,312**	$3\,^{7}/_{16}$											UC217-55
UCFL218-56	10,5	**88,9**	$3\,^{1}/_{2}$	320	265	205	68	26	40	25	96	96,3	FL218	UC218-56
UCFL218	10,39	**90**	–											UC218

Two-bolt flanged housing units

Oval version
With adapter sleeve



UKFL



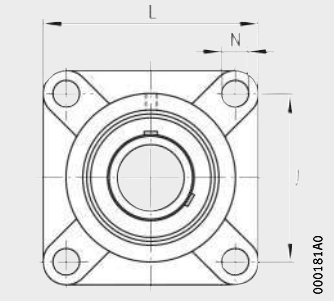
UKFL

Dimension table · Dimensions in mm

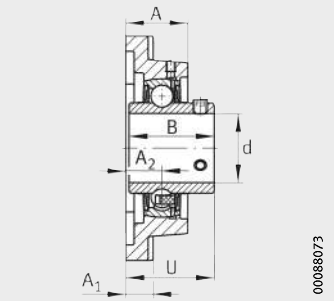
Designation	Mass	Dimensions										Housing	Radial insert ball bearing
	m ≈kg	d	H	J	L	A	A_1	A_2	N	B_1	d_3 max.		
UKFL205	0,69	**20**	130	99	68	27	15	16	16	35	38	FL205	UK205
UKFL206	0,94	**25**	148	117	80	31	14	18	16	38	45	FL206	UK206
UKFL207	1,29	**30**	161	130	90	34	16	19	16	43	52	FL207	UK207
UKFL208	1,56	**35**	175	144	100	36	16	21	16	46	58	FL208	UK208
UKFL209	2,08	**40**	188	148	108	38	18	22	19	50	65	FL209	UK209
UKFL210	2,4	**45**	197	157	115	40	18	22	19	55	70	FL210	UK210
UKFL211	3,04	**50**	224	184	130	43	20	25	19	59	75	FL211	UK211
UKFL212	4,05	**55**	250	202	140	48	20	29	23	62	80	FL212	UK212
UKFL213	4,84	**60**	258	210	155	50	24	30	23	65	85	FL213	UK213
UKFL215	6,17	**65**	275	225	165	56	24	34	23	73	98	FL215	UK215
UKFL216	7,74	**70**	290	233	180	58	24	34	25	78	105	FL216	UK216
UKFL217	9,08	**75**	305	248	190	63	26	36	25	82	110	FL217	UK217
UKFL218	10,9	**80**	320	265	205	68	26	40	25	86	120	FL218	UK218

Four-bolt flanged housing units

Square version
With grub screws
in inner ring



UCF



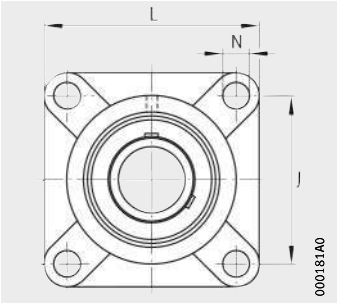
UCF

Dimension table · Dimensions in mm and *inch*

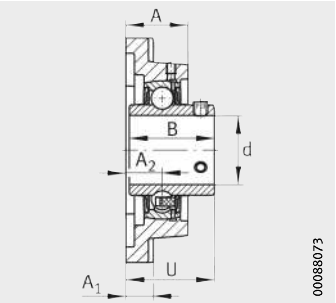
Designation	Mass	Dimensions										Housing	Radial insert ball bearing
	m	d		J	L	A	A_1	A_2	N	B	U		
	≈kg	mm	*inch*										
UCF201	0,62	**12**	–	64	86	25,5	12	15	12	31	33,3	F204	UC201
UCF201-08	0,62	**12,7**	*1/2*										UC201-08
UCF202-09	0,61	**14,288**	*9/16*										UC202-09
UCF202	0,6	**15**	–										UC202
UCF202-10	0,6	**15,875**	*5/8*										UC202-10
UCF203	0,59	**17**	–										UC203
UCF203-11	0,59	**17,462**	*11/16*										UC203-11
UCF204-12	0,58	**19,05**	*3/4*										UC204-12
UCF204	0,57	**20**	–										UC204
UCF205-13	0,89	**20,638**	13/16	70	95	27	14	16	12	34,1	35,8	F205	UC205-13
UCF205-14	0,87	**22,225**	7/8										UC205-14
UCF205-15	0,86	**23,812**	15/16										UC205-15
UCF205	0,85	**25**	–										UC205
UCF205-16	0,84	**25,4**	*1*										UC205-16
UCF206-17	1,15	**26,988**	*1 1/16*	83	108	31	14	18	12	38,1	40,2	F206	UC206-17
UCF206-18	1,13	**28,575**	*1 1/8*										UC206-18
UCF206	1,11	**30**	–										UC206
UCF206-19	1,11	**30,162**	*1 3/16*										UC206-19
UCF206-20	1,09	**31,75**	*1 1/4*										UC206-20
UCF207-20	1,55	**31,75**	1 1/4	92	117	34	16	19	14	42,9	44,4	F207	UC207-20
UCF207-21	1,53	**33,338**	1 5/16										UC207-21
UCF207-22	1,5	**34,925**	1 3/8										UC207-22
UCF207	1,5	**35**	–										UC207
UCF207-23	1,47	**36,512**	1 7/16										UC207-23
UCF208-24	1,95	**38,1**	*1 1/2*	102	130	36	16	21	16	49,2	51,2	F208	UC208-24
UCF208-25	1,92	**39,688**	*1 9/16*										UC208-25
UCF208	1,91	**40**	–										UC208
UCF209-26	2,4	**41,275**	1 5/8	105	137	38	18	22	16	49,2	52,2	F209	UC209-26
UCF209-27	2,36	**42,862**	1 11/16										UC209-27
UCF209-28	2,32	**44,45**	1 3/4										UC209-28
UCF209	2,3	**45**	–										UC209
UCF210-29	2,67	**46,038**	*1 13/16*	111	143	40	18	22	16	51,6	54,6	F210	UC210-29
UCF210-30	2,63	**47,625**	*1 7/8*										UC210-30
UCF210-31	2,58	**49,212**	*1 15/16*										UC210-31
UCF210	2,56	**50**	–										UC210
UCF210-32	2,53	**50,8**	*2*										UC210-32

Four-bolt flanged housing units

Square version
With grub screws
in inner ring



UCF



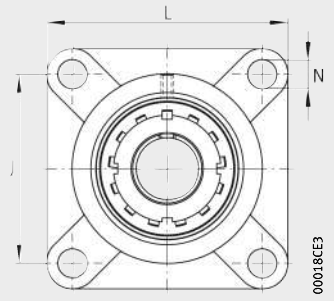
UCF

Dimension table (continued) · Dimensions in mm and *inch*

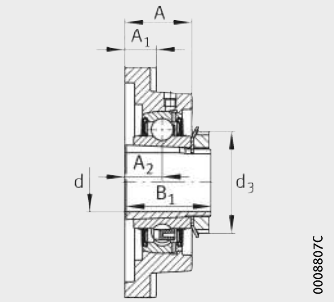
Designation	Mass	Dimensions										Housing	Radial insert ball bearing
	m	d		J	L	A	A_1	A_2	N	B	U		
	≈kg	mm	*inch*										
UCF211-32	3,46	**50,8**	*2*	130	163	43	20	25	19	55,6	58,4	F211	UC211-32
UCF211-33	3,4	**52,388**	*$2^{1}/_{16}$*										UC211-33
UCF211-34	3,35	**53,975**	*$2^{1}/_{16}$*										UC211-34
UCF211	3,31	**55**	–										UC211
UCF211-35	3,29	**55,562**	*$2^{3}/_{16}$*										UC211-35
UCF212-36	4,38	**57,15**	*$2^{1}/_{4}$*	143	175	48	20	29	19	65,1	68,7	F212	UC212-36
UCF212-37	4,31	**58,738**	*$2^{5}/_{16}$*										UC212-37
UCF212	4,25	**60**	–										UC212
UCF212-38	4,23	**60,325**	*$2^{3}/_{8}$*										UC212-38
UCF212-39	4,15	**61,912**	*$2^{7}/_{16}$*										UC212-39
UCF213-40	4,98	**63,5**	*$2^{1}/_{2}$*	149	187	50	20	30	19	65,1	69,7	F213	UC213-40
UCF213	4,9	**65**	–										UC213
UCF213-41	4,9	**65,087**	*$2^{9}/_{16}$*										UC213-41
UCF214-42	6,19	**66,675**	*$2^{5}/_{8}$*	152	193	54	24	31	19	74,6	75,4	F214	UC214-42
UCF214-43	6,09	**68,262**	*$2^{11}/_{16}$*										UC214-43
UCF214-44	6	**69,85**	*$2^{3}/_{16}$*										UC214-44
UCF214	5,99	**70**	–										UC214
UCF215-45	6,9	**71,438**	*$2^{1}/_{16}$*	159	200	56	24	34	19	77,8	78,5	F215	UC215-45
UCF215-46	6,8	**73,025**	*$2^{7}/_{16}$*										UC215-46
UCF215-47	6,7	**74,612**	*$2^{15}/_{16}$*										UC215-47
UCF215	6,6	**75**	–										UC215
UCF215-48	6,6	**76,2**	*3*										UC215-48
UCF216-49	7,6	**77,787**	*$3^{1}/_{16}$*	165	208	58	24	34	23	82,6	83,3	F216	UC216-49
UCF216-50	7,4	**79,375**	*$3^{1}/_{8}$*										UC216-50
UCF216	7,4	**80**	–										UC216
UCF216-51	7,3	**80,962**	*$3^{3}/_{16}$*										UC216-51
UCF217-52	9,2	**82,55**	*$3^{1}/_{4}$*	175	220	63	26	36	23	85,7	87,6	F217	UC217-52
UCF217-53	9	**84,137**	*$3^{5}/_{16}$*										UC217-53
UCF217	9	**85**	–										UC217
UCF217-55	8,8	**87,312**	*$3^{7}/_{16}$*										UC217-55
UCF218-56	10,8	**88,9**	*$3^{1}/_{2}$*	187	235	68	26	40	23	96	96,3	F218	UC218-56
UCF218	10,7	**90**	–										UC218

Four-bolt flanged housing units

Square version
With adapter sleeve



UKF



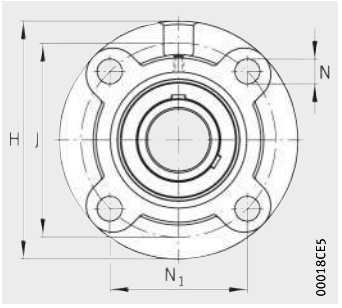
UKF

Dimension table · Dimensions in mm

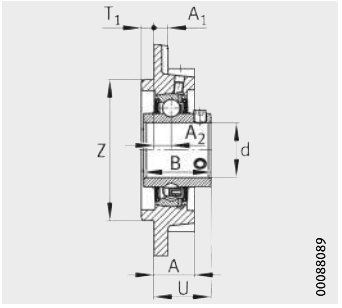
Designation	Mass	Dimensions									Housing	Radial insert ball bearing
	m ≈kg	d	J	L	A	A_1	A_2	N	B_1	d_3 max.		
UKF205	0,9	**20**	70	95	27	14	16	12	35	38	F205	UK205
UKF206	1,18	**25**	83	108	31	14	18	12	38	45	F206	UK206
UKF207	1,58	**30**	92	117	34	16	19	14	43	52	F207	UK207
UKF208	1,99	**35**	102	130	36	16	21	16	46	58	F208	UK208
UKF209	2,44	**40**	105	137	38	18	22	16	50	65	F209	UK209
UKF210	2,73	**45**	111	143	40	18	22	16	55	70	F210	UK210
UKF211	3,48	**50**	130	163	43	20	25	19	59	75	F211	UK211
UKF212	4,34	**55**	143	175	48	20	29	19	62	80	F212	UK212
UKF213	5,06	**60**	149	187	50	20	30	19	65	85	F213	UK213
UKF215	7,12	**65**	159	200	56	24	34	19	73	98	F215	UK215
UKF216	7,9	**70**	165	208	58	24	34	23	78	105	F216	UK216
UKF217	9,51	**75**	175	220	63	26	36	23	82	110	F217	UK217
UKF218	11,16	**80**	187	235	68	26	40	23	86	120	F218	UK218

Four-bolt flanged housing units

Round version
With grub screws
in inner ring



UCFC



UCFC

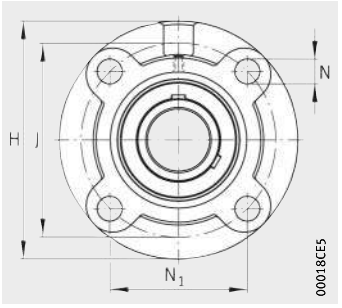
Dimension table · Dimensions in mm and *inch*

Designation	Mass	Dimensions				
	m	d		H	J	N_1
	≈kg	mm	*inch*			
UCFC201	0,77	**12**	–	100	78	55,1
UCFC201-08	0,77	**12,7**	*1/2*			
UCFC202-09	0,76	**14,288**	*9/16*			
UCFC202	0,76	**15**	–			
UCFC202-10	0,75	**15,875**	*5/8*			
UCFC203	0,74	**17**	–			
UCFC203-11	0,74	**17,462**	*11/16*			
UCFC204-12	0,73	**19,05**	*3/4*			
UCFC204	0,72	**20**	–			
UCFC205-13	0,98	**20,638**	*13/16*	115	90	63,6
UCFC205-14	0,97	**22,225**	*7/8*			
UCFC205-15	0,95	**23,812**	*15/16*			
UCFC205	0,94	**25**	–			
UCFC205-16	0,94	**25,4**	1			
UCFC206-17	1,29	**26,988**	*1 1/16*	125	100	70,7
UCFC206-18	1,27	**28,575**	*1 1/8*			
UCFC206	1,25	**30**	–			
UCFC206-19	1,25	**30,162**	*1 3/16*			
UCFC206-20	1,23	**31,75**	*1 1/4*			
UCFC207-20	1,76	**31,75**	*1 1/4*	135	110	77,8
UCFC207-21	1,73	**33,338**	*1 5/16*			
UCFC207-22	1,7	**34,925**	*1 3/8*			
UCFC207	1,7	**35**	–			
UCFC207-23	1,67	**36,512**	*1 7/16*			
UCFC208-24	2,08	**38,1**	*1 1/2*	145	120	84,8
UCFC208-25	2,04	**39,688**	*1 9/16*			
UCFC208	2,03	**40**	–			
UCFC209-26	2,78	**41,275**	*1 5/8*	160	132	93,3
UCFC209-27	2,74	**42,862**	*1 11/16*			
UCFC209-28	2,7	**44,45**	*1 3/4*			
UCFC209	2,69	**45**	–			
UCFC210-29	3,08	**46,038**	*1 13/16*	165	138	97,6
UCFC210-30	3,03	**47,625**	*1 7/8*			
UCFC210-31	2,98	**49,212**	*1 15/16*			
UCFC210	2,96	**50**	–			
UCFC210-32	2,94	**50,8**	*2*			

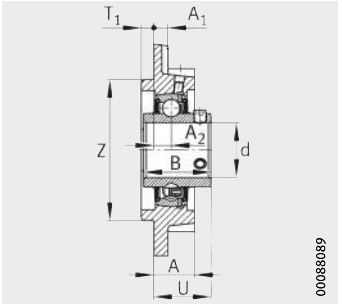
A	A_1	A_2	N	Z h8	T_1	B	U	Housing	Radial insert ball bearing
20,5	8	10	12	62	5	31	28,3	FC204	UC201
									UC201-08
									UC202-09
									UC202
									UC202-10
									UC203
									UC203-11
									UC204-12
									UC204
21	7	10	12	70	6	34,1	29,8	FC205	UC205-13
									UC205-14
									UC205-15
									UC205
									UC205-16
23	8	10	12	80	8	38,1	32,2	FC206	UC206-17
									UC206-18
									UC206
									UC206-19
									UC206-20
26	9	11	14	90	8	42,9	36,4	FC207	UC207-20
									UC207-21
									UC207-22
									UC207
									UC207-23
26	9	11	14	100	10	49,2	41,2	FC208	UC208-24
									UC208-25
									UC208
26	14	10	16	105	12	49,2	40,2	FC209	UC209-26
									UC209-27
									UC209-28
									UC209
28	14	10	16	110	12	51,6	42,6	FC210	UC210-29
									UC210-30
									UC210-31
									UC210
									UC210-32

Four-bolt flanged housing units

Round version
With grub screws
in inner ring



UCFC



UCFC

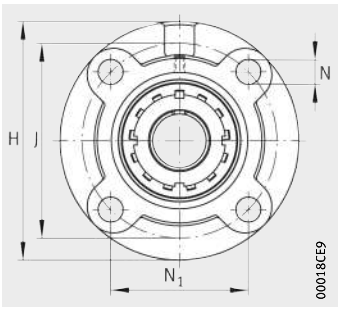
Dimension table (continued) · Dimensions in mm and *inch*

Designation	Mass	Dimensions				
	m	d		H	J	N_1
	≈kg	mm	*inch*			
UCFC211-32	4,13	**50,8**	*2*	185	150	106,1
UCFC211-33	4,07	**52,388**	*2 1/16*			
UCFC211-34	4,02	**53,975**	*2 1/8*			
UCFC211	3,98	**55**	–			
UCFC211-35	3,96	**55,562**	*2 3/16*			
UCFC212-36	5	**57,15**	*2 1/4*	195	160	113,1
UCFC212-37	4,92	**58,738**	*2 5/16*			
UCFC212	4,86	**60**	–			
UCFC212-38	4,85	**60,325**	*2 3/8*			
UCFC212-39	4,77	**61,912**	*2 7/16*			
UCFC213-40	5,55	**63,5**	*2 1/12*	205	170	120,2
UCFC213	5,47	**65**	–			
UCFC213-41	5,47	**65,087**	*2 9/16*			
UCFC214-42	6,84	**66,675**	*2 5/8*	215	177	125,15
UCFC214-43	6,74	**68,262**	*2 11/16*			
UCFC214-44	6,64	**69,85**	*2 3/4*			
UCFC214	6,63	**70**	–			
UCFC215-45	7,46	**71,438**	*2 13/16*	220	184	130,1
UCFC215-46	7,35	**73,025**	*2 7/8*			
UCFC215-47	7,24	**74,612**	*2 15/16*			
UCFC215	7,21	**75**	–			
UCFC215-48	7,13	**76,2**	*3*			
UCFC216-49	8,95	**77,787**	*2 1/16*	240	200	141,4
UCFC216-50	8,82	**79,375**	*2 1/8*			
UCFC216	8,77	**80**	–			
UCFC216-51	8,69	**80,962**	*2 3/16*			
UCFC217-52	10,51	**82,55**	*2 1/4*	250	208	147,1
UCFC217-53	10,37	**84,137**	*2 5/16*			
UCFC217	10,37	**85**	–			
UCFC217-55	10,09	**87,312**	*2 7/16*			
UCFC218-56	12,33	**88,9**	*2 1/2*	265	220	155,55
UCFC218	12,21	**90**	–			

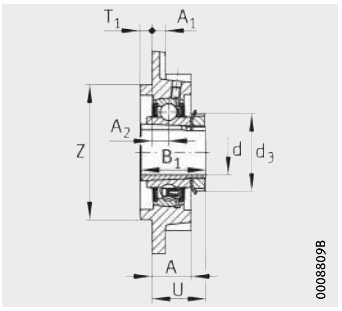
								Housing	Radial insert ball bearing
A	A_1	A_2	N	Z h8	T_1	B	U		
31	15	13	19	125	12	55,6	46,4	FC211	UC211-32
									UC211-33
									UC211-34
									UC211
									UC211-35
36	15	17	19	135	12	65,1	56,7	FC212	UC212-36
									UC212-37
									UC212
									UC212-38
									UC212-39
36	15	16	19	145	14	65,1	55,7	FC213	UC213-40
									UC213
									UC213-41
40	18	17	19	150	14	74,6	61,4	FC214	UC214-42
									UC214-43
									UC214-44
									UC214
40	18	18	19	160	16	77,8	62,5	FC215	UC215-45
									UC215-46
									UC215-47
									UC215
									UC215-48
42	18	18	23	170	16	82,6	67,3	FC216	UC216-49
									UC216-50
									UC216
									UC216-51
45	20	18	23	180	18	85,7	69,6	FC217	UC217-52
									UC217-53
									UC217
									UC217-55
50	20	22	23	190	18	96	78,3	FC218	UC218-56
									UC218

Four-bolt flanged housing units

Round version
With adapter sleeve



UKFC



UKFC

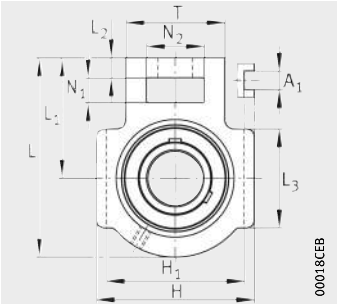
Dimension table · Dimensions in mm

Designation	Mass	Dimensions					
	m	d	H	J	N_1	A	A_1
	≈kg						
UKFC205	0,99	**20**	115	90	63,6	21	7
UKFC206	1,31	**25**	125	100	70,7	23	8
UKFC207	1,78	**30**	135	110	77,8	26	9
UKFC208	2,12	**35**	145	120	84,8	26	9
UKFC209	2,82	**40**	160	132	93,3	26	14
UKFC210	3,14	**45**	165	138	97,6	28	14
UKFC211	4,15	**50**	185	150	106,1	31	15
UKFC212	4,95	**55**	195	160	113,1	36	15
UKFC213	5,62	**60**	205	170	120,2	36	15
UKFC215	7,69	**65**	220	184	130,1	40	18
UKFC216	9,28	**70**	240	200	141,4	42	18
UKFC217	10,83	**75**	250	208	147,1	45	20
UKFC218	12,72	**80**	265	220	155,55	50	20

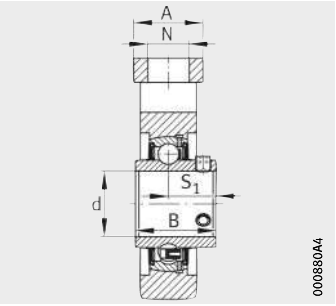
							Housing	Radial insert ball bearing
A_2	N	Z	T_1	B_1	U	d_3 max.		
10	12	70	6	35	30,7	38	FC205	UK205
10	12	80	8	38	32,2	45	FC206	UK206
11	14	90	8	43	35,7	52	FC207	UK207
11	14	100	10	46	37,7	58	FC208	UK208
10	16	105	12	50	38,2	65	FC209	UK209
10	16	110	12	55	40,2	70	FC210	UK210
13	19	125	12	59	44,2	75	FC211	UK211
17	19	135	12	62	51,2	80	FC212	UK212
16	19	145	14	65	51,2	85	FC213	UK213
18	19	160	16	73	55	98	FC215	UK215
18	23	170	16	78	58,2	105	FC216	UK216
18	23	180	18	82	60,2	110	FC217	UK217
22	23	190	18	86	65,7	120	FC218	UK218

Take-up housing units

For linear motion
With grub screws
in inner ring



UCT



UCT

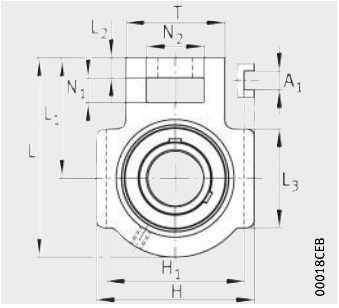
Dimension table · Dimensions in mm and *inch*

Designation	Mass	Dimensions					
	m	d		L	L_1	L_2	L_3
	≈kg	mm	*inch*				
UCT201	0,77	**12**	–	94	61	10	51
UCT201-08	0,77	**12,7**	*1/2*				
UCT202-09	0,76	**14,288**	*9/16*				
UCT202	0,75	**15**	–				
UCT202-10	0,75	**15,875**	*5/8*				
UCT203	0,74	**17**	–				
UCT203-11	0,74	**17,463**	*11/16*				
UCT204-12	0,73	**19,05**	*3/4*				
UCT204	0,72	**20**	–				
UCT205-13	0,84	**20,638**	*13/16*	97	62	10	51
UCT205-14	0,83	**22,225**	*7/8*				
UCT205-15	0,81	**23,812**	*15/16*				
UCT205	0,8	**25**	–				
UCT205-16	0,8	**25,4**	*1*				
UCT206-17	1,27	**26,988**	*1 1/16*	113	70	10	57
UCT206-18	1,25	**28,575**	*1 1/8*				
UCT206	1,23	**30**	–				
UCT206-19	1,23	**30,162**	*1 3/16*				
UCT206-20	1,2	**31,75**	*1 1/4*				
UCT207-20	1,64	**31,75**	*1 1/4*	129	78	13	64
UCT207-21	1,61	**33,338**	*1 5/16*				
UCT207-22	1,58	**34,925**	*1 3/8*				
UCT207	1,58	**35**	–				
UCT207-23	1,55	**36,512**	*1 7/16*				
UCT208-24	2,36	**38,1**	*1 1/2*	144	88	16	83
UCT208-25	2,33	**39,688**	*1 9/16*				
UCT208	2,32	**40**	–				
UCT209-26	2,46	**41,275**	*1 5/8*	144	87	16	83
UCT209-27	2,42	**42,862**	*1 11/16*				
UCT209-28	2,38	**44,45**	*1 3/4*				
UCT209	2,37	**45**	–				
UCT210-29	2,64	**46,038**	*1 13/16*	149	90	16	86
UCT210-30	2,59	**47,625**	*1 7/8*				
UCT210-31	2,54	**49,212**	*1 15/16*				
UCT210	2,52	**50**	–				
UCT210-32	2,5	**50,8**	*2*				

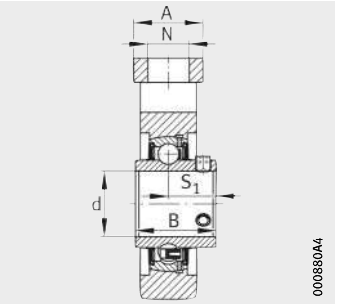
										Housing	Radial insert ball bearing
N	N_1	N_2	A	H	H_1	A_1	B	S_1	T		
19	16	32	32	89	76	12	31	18,3	51	T204	UC201 UC201-08 UC202-09 UC202 UC202-10 UC203 UC203-11 UC204-12 UC204
19	16	32	32	89	76	12	34,1	19,8	51	T205	UC205-13 UC205-14 UC205-15 UC205 UC205-16
22	16	37	37	102	89	12	38,1	22,2	56	T206	UC206-17 UC206-18 UC206 UC206-19 UC206-20
22	16	37	37	102	89	12	42,9	25,4	64	T207	UC207-20 UC207-21 UC207-22 UC207 UC207-23
29	19	49	49	114	102	16	49,2	30,2	83	T208	UC208-24 UC208-25 UC208
29	19	49	49	117	102	16	49,2	30,2	83	T209	UC209-26 UC209-27 UC209-28 UC209
29	19	49	49	117	102	16	51,6	32,6	83	T210	UC210-29 UC210-30 UC210-31 UC210 UC210-32

Take-up housing units

For linear motion
With grub screws
in inner ring



UCT



UCT

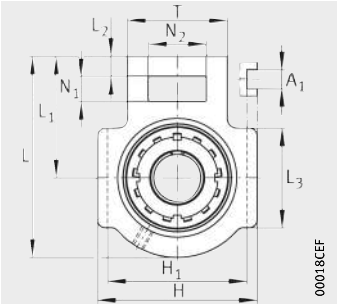
Dimension table (continued) · Dimensions in mm and *inch*

Designation	Mass	Dimensions					
	m	d		L	L_1	L_2	L_3
	≈kg	mm	*inch*				
UCT211-32	3,98	**50,8**	*2*	171	106	19	95
UCT211-33	3,93	**52,388**	*2 1/16*				
UCT211-34	3,87	**53,975**	*2 1/8*				
UCT211	3,83	**55**	–				
UCT211-35	3,81	**55,562**	*2 3/16*				
UCT212-36	4,84	**57,15**	*2 1/4*	194	119	19	102
UCT212-37	4,77	**58,738**	*2 5/16*				
UCT212	4,71	**60**	–				
UCT212-38	4,69	**60,325**	*2 3/8*				
UCT212-39	4,61	**61,912**	*2 7/16*				
UCT213-40	6,68	**63,5**	*2 1/2*	224	137	21	121
UCT213	6,61	**65**	–				
UCT213-41	6,6	**65,087**	*2 9/16*				
UCT214-42	6,98	**66,675**	*2 5/8*	224	137	21	121
UCT214-43	6,88	**68,262**	*2 11/16*				
UCT214-44	6,78	**69,85**	*2 3/4*				
UCT214	6,77	**70**	–				
UCT215-45	7,45	**71,438**	*2 13/16*	232	140	21	121
UCT215-46	7,34	**73,025**	*2 7/8*				
UCT215-47	7,23	**74,612**	*2 15/16*				
UCT215	7,2	**75**	–				
UCT215-48	7,12	**76,2**	*3*				
UCT216-49	8,27	**77,787**	*3 1/16*	235	140	21	121
UCT216-50	8,14	**79,375**	*3 1/8*				
UCT216	8,09	**80**	–				
UCT216-51	8,01	**80,962**	*3 3/16*				
UCT217-52	10,8	**82,55**	*3 1/4*	260	162	29	157
UCT217-53	10,7	**84,137**	*3 5/16*				
UCT217	10,6	**85**	–				
UCT217-55	10,4	**87,312**	*3 7/16*				
UCT218-56	12,37	**88,9**	*3 1/2*	275	170	30	140
UCT218	12,26	**90**	–				

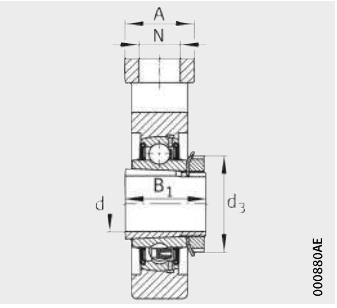
										Housing	Radial insert ball bearing
N	N_1	N_2	A	H	H_1	A_1	B	S_1	T		
35	25	64	64	146	130	22	55,6	33,4	102	T211	UC211-32
											UC211-33
											UC211-34
											UC211
											UC211-35
35	32	64	64	146	130	22	65,1	39,7	102	T212	UC212-36
											UC212-37
											UC212
											UC212-38
											UC212-39
41	32	70	70	167	151	26	65,1	39,7	111	T213	UC213-40
											UC213
											UC213-41
41	32	70	70	167	151	26	74,6	44,4	111	T214	UC214-42
											UC214-43
											UC214-44
											UC214
41	32	70	70	167	151	26	77,8	44,5	111	T215	UC215-45
											UC215-46
											UC215-47
											UC215
											UC215-48
41	32	70	70	184	165	26	82,6	49,3	111	T216	UC216-49
											UC216-50
											UC216
											UC216-51
48	38	73	73	198	173	30	85,7	51,6	124	T217	UC217-52
											UC217-53
											UC217
											UC217-55
47	40	80	80	215	190	28	96	56,3	130	T218	UC218-56
											UC218

Take-up housing units

For linear motion
With adapter sleeve



UKT



UKT

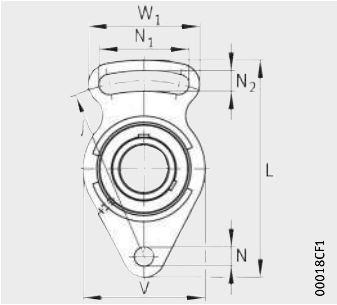
Dimension table · Dimensions in mm

Designation	Mass	Dimensions				
	m	d	L	L_1	L_2	L_3
	≈kg					
UKT205	0,85	**20**	97	62	10	51
UKT206	1,29	**25**	113	70	10	57
UKT207	1,66	**30**	129	78	13	64
UKT208	2,4	**35**	144	88	16	83
UKT209	2,5	**40**	144	87	16	83
UKT210	2,7	**45**	149	90	16	86
UKT211	4	**50**	171	106	19	95
UKT212	4,79	**55**	194	119	19	102
UKT213	6,76	**60**	224	137	21	121
UKT215	7,68	**65**	232	140	21	121
UKT216	8,6	**70**	235	140	21	121
UKT217	11,2	**75**	260	162	29	157
UKT218	12,77	**80**	275	170	30	140

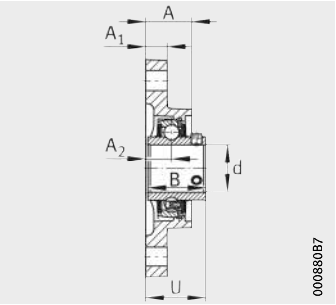
										Housing	Radial insert ball bearing
N	N_1	N_2	A	H	H_1	A_1	B_1	d_3 max.	T		
19	16	32	32	89	76	12	35	38	51	T205	UK205
22	16	37	37	102	89	12	38	45	56	T206	UK206
22	16	37	37	102	89	12	43	52	64	T207	UK207
29	19	49	49	114	102	16	46	58	83	T208	UK208
29	19	49	49	117	102	16	50	65	83	T209	UK209
29	19	49	49	117	102	16	55	70	83	T210	UK210
35	25	64	64	146	130	22	59	75	102	T211	UK211
35	32	64	64	146	130	22	62	80	102	T212	UK212
41	32	70	70	167	151	26	65	85	111	T213	UK213
41	32	70	70	167	151	26	73	98	111	T215	UK215
41	32	70	70	184	165	26	78	105	111	T216	UK216
48	38	73	73	198	173	30	82	110	124	T217	UK217
47	40	80	80	215	190	28	86	120	130	T218	UK218

Take-up housing units

For swivel motion
With grub screws
in inner ring



UCFA



UCFA

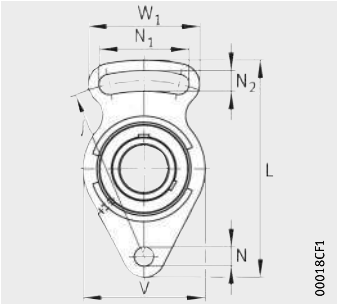
Dimension table · Dimensions in mm and *inch*

Designation	Mass	Dimensions						
	m	d		L	J	A	A_1	A_2
	≈kg	mm	*inch*					
UCFA201	0,45	**12**	–	98	78	25,5	12	15
UCFA201-08	0,44	**12,7**	*1/2*					
UCFB202-09	0,43	**14,288**	*9/16*					
UCFA202	0,43	**15**	–					
UCFA202-10	0,43	**15,875**	*5/8*					
UCFA203	0,42	**17**	–					
UCFA203-11	0,42	**17,462**	*11/16*					
UCFA204-12	0,41	**19,05**	*3/4*					
UCFA204	0,41	**20**	–					
UCFA205-13	0,67	**20,638**	*13/16*	125	98	27	14	16
UCFA205-14	0,66	**22,225**	*7/8*					
UCFA205-15	0,64	**23,812**	*15/16*					
UCFA205	0,63	**25**	–					
UCFA205-16	0,62	**25,4**	*1*					
UCFA206-17	0,94	**26,988**	*1 1/16*	144	117	31	14	18
UCFA206-18	0,92	**28,575**	*1 1/8*					
UCFA206	0,9	**30**	–					
UCFA206-19	0,9	**30,162**	*1 3/16*					
UCFA206-20	0,88	**31,75**	*1 1/4*					

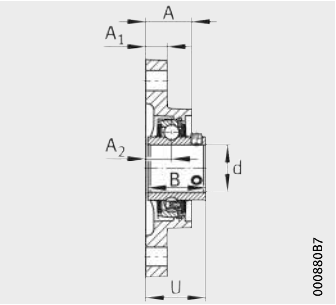
							Housing	Radial insert ball bearing
N	N_1	N_2	V	W_1	B	U		
10	40	10	60	50	31	33,3	FA204	UC201
								UC201-08
								UC202-09
								UC202
								UC202-10
								UC203
								UC203-11
								UC204-12
								UC204
12	51	12	68	66	34,1	35,8	FA205	UC205-13
								UC205-14
								UC205-15
								UC205
								UC205-16
12	58	12	80	72	38,1	40,2	FA206	UC206-17
								UC206-18
								UC206
								UC206-19
								UC206-20

Take-up housing units

For swivel motion
With grub screws
in inner ring



UCFA



UCFA

Dimension table (continued) · Dimensions in mm and *inch*

Designation	Mass	Dimensions						
	m	d		L	J	A	A_1	A_2
	≈kg	mm	*inch*					
UCFA207-20	1,29	**31,75**	$1\,1/4$	161	130	34	16	19
UCFA207-21	1,26	**33,338**	$1\,5/16$					
UCFA207-22	1,24	**34,925**	$1\,3/8$					
UCFA207	1,23	**35**	–					
UCFA207-23	1,21	**36,512**	$1\,7/16$					
UCFA208-24	1,58	**38,1**	$1\,1/2$	175	144	36	16	21
UCFA208-25	1,54	**39,688**	$1\,9/16$					
UCFA208	1,53	**40**	–					
UCFA209-26	1,99	**41,275**	$1\,5/8$	181	148	38	18	22
UCFA209-27	1,95	**42,862**	$1\,11/16$					
UCFA209-28	1,91	**44,45**	$1\,3/4$					
UCFA209	1,9	**45**	–					
UCFA210-29	2,2	**46,038**	$1\,13/16$	190	157	37,5	18	22
UCFA210-30	2,16	**47,625**	$1\,7/8$					
UCFA210-31	2,11	**49,212**	$1\,15/16$					
UCFA210	2,08	**50**	–					
UCFA210-32	2,06	**50,8**	*2*					
UCFA211-32	3,1	**50,8**	*2*	219	184	43	20	25
UCFA211-33	3,05	**52,388**	$2\,1/16$					
UCFA211-34	2,99	**53,975**	$2\,1/8$					
UCFA211	2,95	**55**	–					
UCFA211-35	2,93	**55,562**	$2\,3/16$					

							Housing	Radial insert ball bearing
N	N_1	N_2	V	W_1	B	U		
14	66	14	90	82	42,9	44,4	FA207	UC207-20
								UC207-21
								UC207-22
								UC207
								UC207-23
14	71	14	100	87	49,2	51,2	FA208	UC208-24
								UC208-25
								UC208
16	72	16	108	90	49,2	52,2	FA209	UC209-26
								UC209-27
								UC209-28
								UC209
16	76	16	115	94	51,6	54,6	FA210	UC210-29
								UC210-30
								UC210-31
								UC210
								UC210-32
16	86	16	130	104	55,6	58,4	FA211	UC211-32
								UC211-33
								UC211-34
								UC211
								UC211-35