

FAG



Housing units

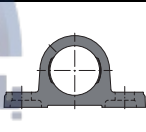
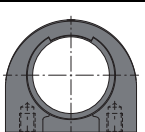
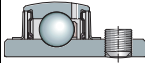
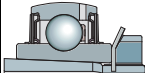


Housing units

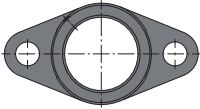
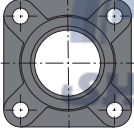
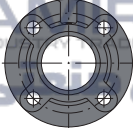
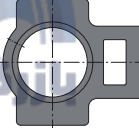
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Possible combinations of radial insert ball bearings and housings



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 36	UCPA page 44
UK 20 mm – 80 mm 		UKP page 42	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 48		UCF page 56	UCFC page 64	UCT page 72	UCFA page 80
UKFL page 54		UKF page 62	UKFC page 70	UKT page 78	Available by agreement

Product overview Housing units

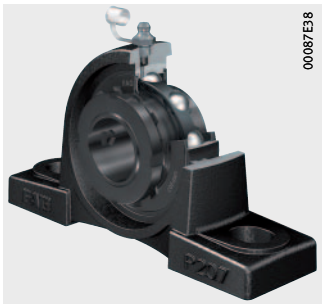
Plummer block
housing units

Flake graphite cast iron housing
with long base

UCP

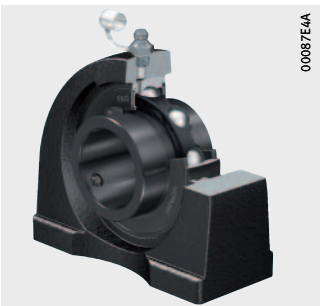


UKP



Flake graphite cast iron housing
with short base

UCPA



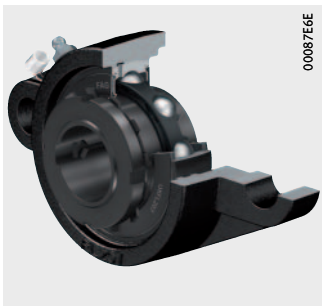
Two-bolt flanged
housing units

Flake graphite cast iron housing

UCFL



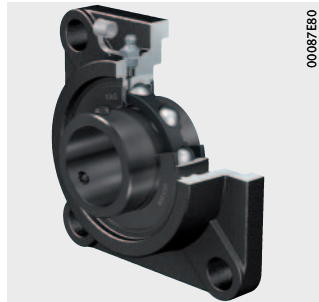
UKFL



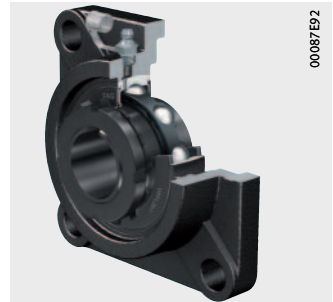
Four-bolt flanged housing units

Flake graphite cast iron housing

UCF



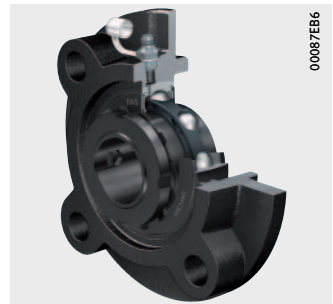
UKF



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.

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 31.

The housings are screw mounted on the adjacent construction. Less stringent tolerances are sufficient for the screw mounting surfaces, see page 31.

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 31.

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).



In order to ensure function and reliability under all operating conditions, the bearings and housings are matched to each other with a defined swivel moment after mounting.

All catalogue cast iron units have a mean swivel moment (as standard); further designs with a smaller or greater swivel moment, depending on their application, are available by agreement.

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

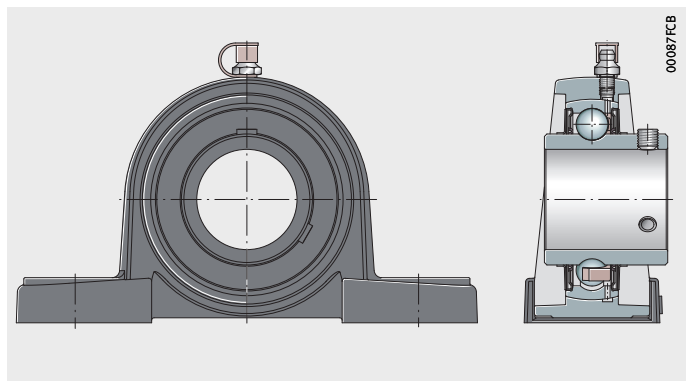
Plummer block housing units have a housing with a short or long base and are screw mounted to the adjacent construction through slot holes or fixing holes, *Figure 1* and *Figure 2*, page 29.

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

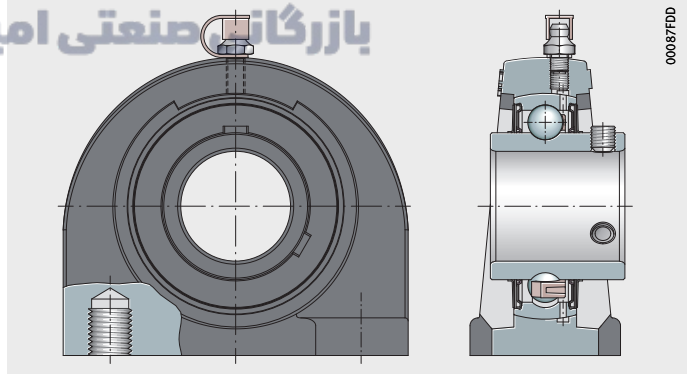
Figure 1

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



UCPA

Figure 2
Plummer block housing unit
with short base



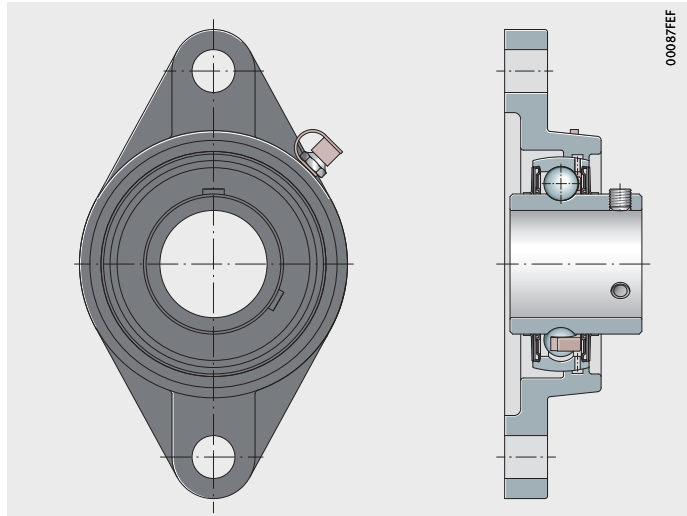
Flanged housing units

Flanged housing units are available as two-bolt and four-bolt units, *Figure 3* to *Figure 5*, page 30. 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.

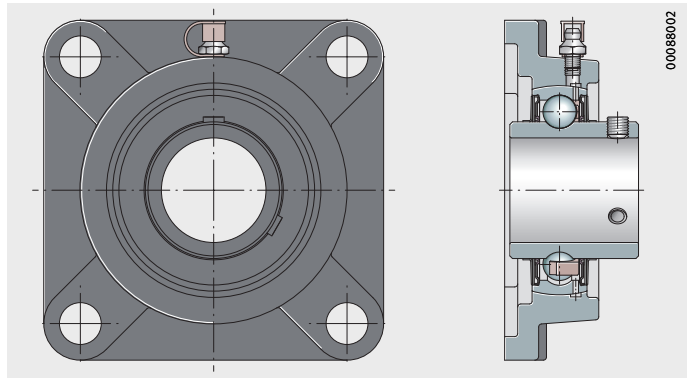
UCFL

Figure 3
Two-bolt flanged housing unit,
oval version



UCF

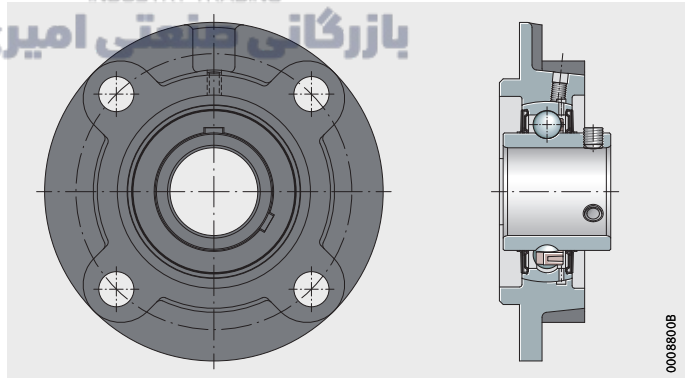
Figure 4
Four-bolt flanged housing unit,
square version



Housing units

UCFC

Figure 5
Four-bolt flanged housing unit,
round version

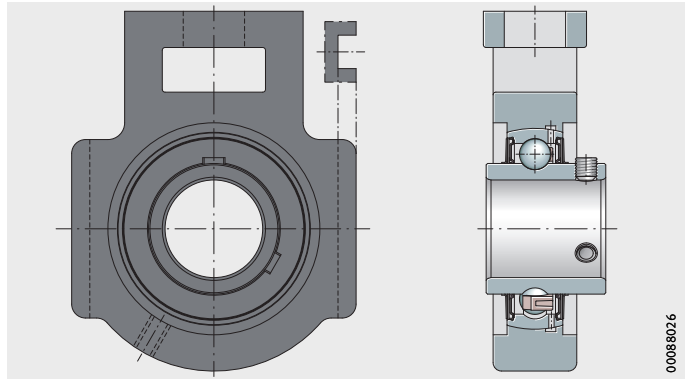


Take-up housing units

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.

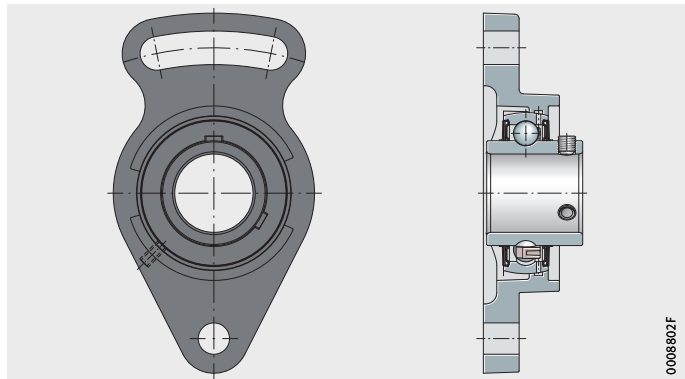
UCT

Figure 6
Take-up housing unit
for linear motion



UCFA

Figure 7
Take-up housing unit
for swivel motion



Operating temperature

Housing units are suitable for operating temperatures of $-20\text{ }^{\circ}\text{C}$ to $+100\text{ }^{\circ}\text{C}$. Temperature peaks of up to $+120\text{ }^{\circ}\text{C}$ are possible for short periods.

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 11.

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 12
- dimension table, see page 16.

Design of adjacent construction

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

Screw mounting surfaces

Recommendations for the screw mounting surfaces are as follows:

- roughness of the screw mounting surface max. Ra 12,5 (Rzmax 63)
- geometrical and positional tolerance 0,04/100 concave, spherical not permissible.
- In the event of high loads occurring parallel to the mounting surface of plummer block housing units (in the case of cast iron housing with long base), the use of additional dowel pins to DIN EN ISO 8752 is recommended. In this case, through holes (see centre punch mark for housing ASE) must be applied, see *Figure 8*, page 33.



Housing units

Fixing screws The screw connection should be designed in accordance with the state of the art; friction coefficient $\mu = 0,12$ (90%).
Screws of grade 8.8 or better can be used for fixing.
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.
For fixing, hexagonal socket head screws in accordance with DIN EN ISO 4762 or hexagonal socket head screws with a coarse pitch full thread in accordance with DIN EN ISO 4017 should be used. The screws should be combined as a minimum with a washer in accordance with DIN EN ISO 7089 or DIN EN ISO 7090.
Screws and accessories for location are not included in the delivery.

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 31.
- 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 34.

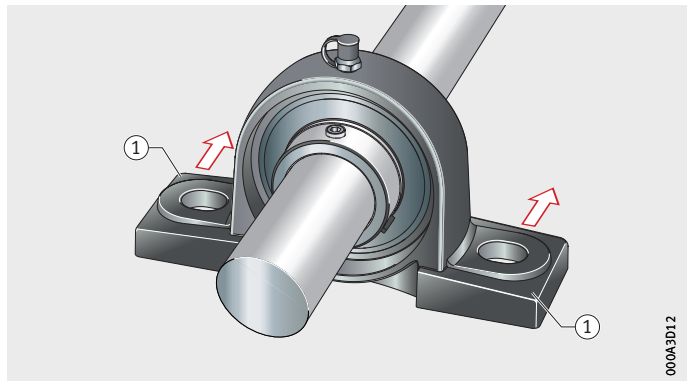
If the following sequence is observed, the bearing will align itself on the shaft in such a way that no undesirable stresses occur:

- ▶ Slide the housing unit onto the shaft and align it with the fixing holes in the adjacent construction, *Figure 8*.
- ▶ Fit dowel pins if necessary.
- ▶ Tighten the fixing screws for all housings finger tight in the adjacent construction as far as possible and align the shaft, *Figure 9*, page 34.
- ▶ 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 34.
- ▶ Locate the housings on the adjacent construction using the recommended tightening torque, see page 31.

① Position of additional through hole for location of dowel pins in accordance with DIN EN ISO 8752 (in the event of high loads occurring parallel to the mounting surface; for housing P)

Figure 8

Sliding the unit onto the shaft



000A3D12

Housing units

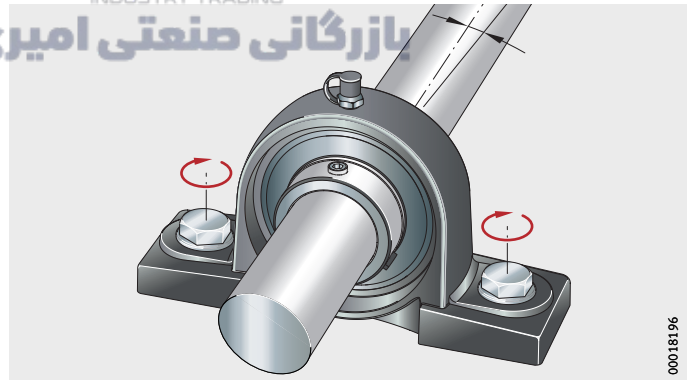


Figure 9
Screw mounting
the housing finger tight

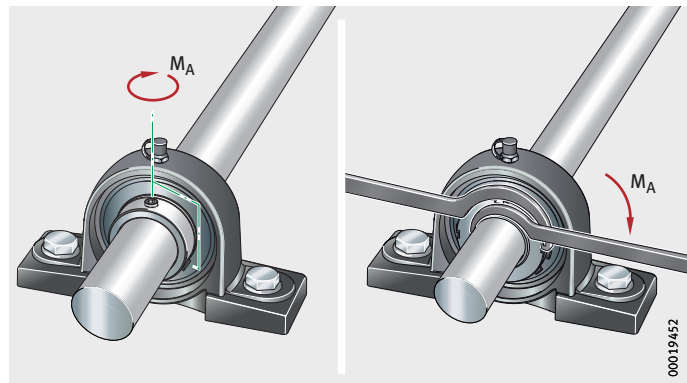


Figure 10
Fully tightening the grub screws or
locknut in the inner ring

Tightening torques for grub screws

Width across flats W		Thread		Tightening torque ¹⁾ M _A Nm
mm	inch	ISO	UNF	
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 torque 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 13.

Dimensional tolerances

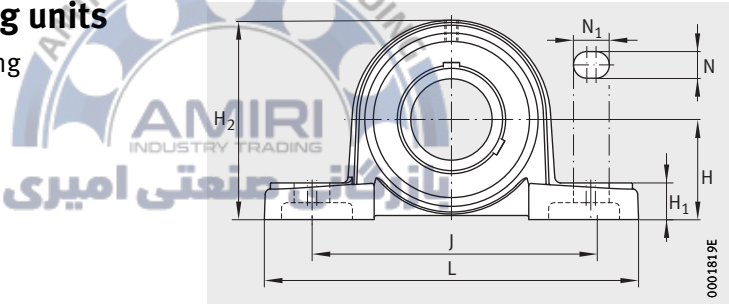
The dimensional tolerances for the machined surfaces of the flake graphite cast iron housings are $\pm 0,25$ mm.

Dimensions without tolerance conform to JIS B 0403:

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

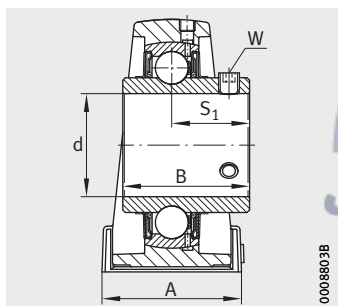
Plummer block housing units

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



UCP

Dimension table - Dimensions in mm and inch									
Designation			Mass m ≈ kg	Dimensions					
Unit	Housing	Radial insert ball bearing		d		H	J	L	A
				mm	inch				
UCP201	P203	UC201	0,7	12	–	30,2	95	127	38
UCP201-08	P203	UC201-08	0,69	12,7	1/2	30,2	95	127	38
UCP202-09	P203	UC202-09	0,69	14,288	9/16	30,2	95	127	38
UCP202	P203	UC202	0,68	15	–	30,2	95	127	38
UCP202-10	P203	UC202-10	0,68	15,875	5/8	30,2	95	127	38
UCP203	P203	UC203	0,67	17	–	30,2	95	127	38
UCP203-11	P203	UC203-11	0,67	17,463	11/16	30,2	95	127	38
UCP204-12	P204	UC204-12	0,66	19,05	3/4	33,3	95	127	38
UCP204	P204	UC204	0,65	20	–	33,3	95	127	38
UCP205-13	P205	UC205-13	0,83	20,638	13/16	36,5	105	140	38
UCP205-14	P205	UC205-14	0,82	22,225	7/8	36,5	105	140	38
UCP205-15	P205	UC205-15	0,81	23,813	15/16	36,5	105	140	38
UCP205	P205	UC205	0,79	25	–	36,5	105	140	38
UCP205-16	P205	UC205-16	0,79	25,4	1	36,5	105	140	38
UCP206-17	P206	UC206-17	1,33	26,988	11/16	42,9	121	165	48
UCP206-18	P206	UC206-18	1,31	28,575	11/8	42,9	121	165	48
UCP206	P206	UC206	1,29	30	–	42,9	121	165	48
UCP206-19	P206	UC206-19	1,29	30,163	13/16	42,9	121	165	48
UCP206-20	P206	UC206-20	1,27	31,75	11/4	42,9	121	165	48
UCP207-20	P207	UC207-20	1,6	31,75	11/4	47,6	127	167	48
UCP207-21	P207	UC207-21	1,58	33,338	15/16	47,6	127	167	48
UCP207-22	P207	UC207-22	1,55	34,925	13/8	47,6	127	167	48
UCP207	P207	UC207	1,55	35	–	47,6	127	167	48
UCP207-23	P207	UC207-23	1,52	36,513	17/16	47,6	127	167	48
UCP208-24	P208	UC208-24	1,89	38,1	11/2	49,2	137	184	54
UCP208-25	P208	UC208-25	1,85	39,688	19/16	49,2	137	184	54
UCP208	P208	UC208	1,84	40	–	49,2	137	184	54

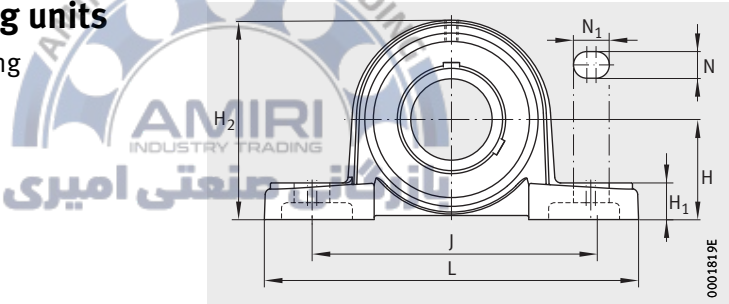


UCP

H ₁ H ₂ N N ₁ B S ₁						Width across flats W		Load carrying capacity Bearing		
								Basic load ratings		Fatigue limit load
						dyn. C _r	stat. C _{0r}	C _{ur}		
mm	inch	N	N	N						
14	62	13	19	31	18,3	3	–	13 600	6 600	335
14	62	13	19	31	18,3	–	1/8	13 600	6 600	335
14	62	13	19	31	18,3	–	1/8	13 600	6 600	335
14	62	13	19	31	18,3	3	–	13 600	6 600	335
14	62	13	19	31	18,3	–	1/8	13 600	6 600	335
14	62	13	19	31	18,3	3	–	13 600	6 600	335
14	62	13	19	31	18,3	–	1/8	13 600	6 600	335
14	65	13	19	31	18,3	–	1/8	13 600	6 600	335
14	65	13	19	31	18,3	3	–	13 600	6 600	335
15	71	13	19	34,1	19,8	–	1/8	14 900	7 800	395
15	71	13	19	34,1	19,8	–	1/8	14 900	7 800	395
15	71	13	19	34,1	19,8	–	1/8	14 900	7 800	395
15	71	13	19	34,1	19,8	3	–	14 900	7 800	395
15	71	13	19	34,1	19,8	–	1/8	14 900	7 800	395
17	83	17	21	38,1	22,2	–	1/8	20 700	11 300	570
17	83	17	21	38,1	22,2	–	1/8	20 700	11 300	570
17	83	17	21	38,1	22,2	3	–	20 700	11 300	570
17	83	17	21	38,1	22,2	–	1/8	20 700	11 300	570
17	83	17	21	38,1	22,2	–	1/8	20 700	11 300	570
18	93	17	21	42,9	25,4	–	5/32	27 500	15 300	770
18	93	17	21	42,9	25,4	–	5/32	27 500	15 300	770
18	93	17	21	42,9	25,4	–	5/32	27 500	15 300	770
18	93	17	21	42,9	25,4	4	–	27 500	15 300	770
18	93	17	21	42,9	25,4	–	5/32	27 500	15 300	770
18	98	17	21	49,2	30,2	–	5/32	34 500	19 800	1 010
18	98	17	21	49,2	30,2	–	5/32	34 500	19 800	1 010
18	98	17	21	49,2	30,2	4	–	34 500	19 800	1 010

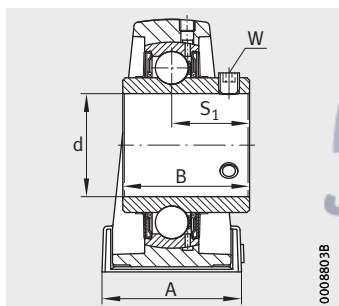
Plummer block housing units

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 m ≈ kg	Dimensions					
Unit	Housing	Radial insert ball bearing		d		H	J	L	A
				mm	inch				
UCP209-26	P209	UC209-26	2,29	41,275	15⁄8	54	146	190	54
UCP209-27	P209	UC209-27	2,25	42,863	111⁄16	54	146	190	54
UCP209-28	P209	UC209-28	2,21	44,45	13⁄4	54	146	190	54
UCP209	P209	UC209	2,2	45	–	54	146	190	54
UCP210-29	P210	UC210-29	2,89	46,038	113⁄16	57,2	159	206	60
UCP210-30	P210	UC210-30	2,85	47,625	17⁄8	57,2	159	206	60
UCP210-31	P210	UC210-31	2,8	49,213	115⁄16	57,2	159	206	60
UCP210	P210	UC210	2,77	50	–	57,2	159	206	60
UCP210-32	P210	UC210-32	2,75	50,8	2	57,2	159	206	60
UCP211-32	P211	UC211-32	3,56	50,8	2	63,5	171	219	60
UCP211-33	P211	UC211-33	3,5	52,388	21⁄16	63,5	171	219	60
UCP211-34	P211	UC211-34	3,44	53,975	21⁄8	63,5	171	219	60
UCP211	P211	UC211	3,41	55	–	63,5	171	219	60
UCP211-35	P211	UC211-35	3,39	55,563	23⁄16	63,5	171	219	60
UCP212-36	P212	UC212-36	4,75	57,15	21⁄4	69,8	184	241	70
UCP212-37	P212	UC212-37	4,68	58,738	25⁄16	69,8	184	241	70
UCP212	P212	UC212	4,62	60	–	69,8	184	241	70
UCP212-38	P212	UC212-38	4,6	60,325	23⁄8	69,8	184	241	70
UCP212-39	P212	UC212-39	4,53	61,913	27⁄16	69,8	184	241	70
UCP213-40	P213	UC213-40	5,63	63,5	21⁄2	76,2	203	265	70
UCP213	P213	UC213	5,55	65	–	76,2	203	265	70
UCP213-41	P213	UC213-41	5,55	65,088	29⁄16	76,2	203	265	70
UCP214-42	P214	UC214-42	6,29	66,675	25⁄8	79,4	210	266	72
UCP214-43	P214	UC214-43	6,2	68,263	211⁄16	79,4	210	266	72
UCP214-44	P214	UC214-44	6,1	69,85	23⁄4	79,4	210	266	72
UCP214	P214	UC214	6,1	70	–	79,4	210	266	72

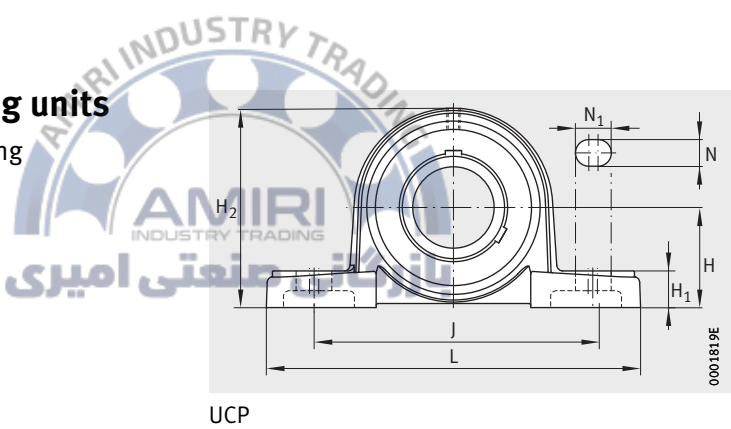


UCP

H ₁ H ₂ N N ₁ B S ₁						Width across flats W mm inch		Load carrying capacity		
								Bearing		Fatigue limit load C _{ur} N
								Basic load ratings		
						dyn. C _r N	stat. C _{0r} N			
20	106	17	21	49,2	30,2	–	5/32	34 500	20 400	1 030
20	106	17	21	49,2	30,2	–	5/32	34 500	20 400	1 030
20	106	17	21	49,2	30,2	–	5/32	34 500	20 400	1 030
20	106	17	21	49,2	30,2	4	–	34 500	20 400	1 030
21	114	20	25	51,6	32,6	–	3/16	37 500	23 200	1 180
21	114	20	25	51,6	32,6	–	3/16	37 500	23 200	1 180
21	114	20	25	51,6	32,6	–	3/16	37 500	23 200	1 180
21	114	20	25	51,6	32,6	5	–	37 500	23 200	1 180
21	114	20	25	51,6	32,6	–	3/16	37 500	23 200	1 180
23	126	20	25	55,6	33,4	–	3/16	46 000	29 000	1 480
23	126	20	25	55,6	33,4	–	3/16	46 000	29 000	1 480
23	126	20	25	55,6	33,4	–	3/16	46 000	29 000	1 480
23	126	20	25	55,6	33,4	5	–	46 000	29 000	1 480
23	126	20	25	55,6	33,4	–	3/16	46 000	29 000	1 480
25	138	20	25	65,1	39,7	–	3/16	56 000	36 000	1 820
25	138	20	25	65,1	39,7	–	3/16	56 000	36 000	1 820
25	138	20	25	65,1	39,7	5	–	56 000	36 000	1 820
25	138	20	25	65,1	39,7	–	3/16	56 000	36 000	1 820
25	138	20	25	65,1	39,7	–	3/16	56 000	36 000	1 820
27	151	25	29	65,1	39,7	–	1/4	61 000	40 000	2 030
27	151	25	29	65,1	39,7	6	–	61 000	40 000	2 030
27	151	25	29	65,1	39,7	–	1/4	61 000	40 000	2 030
27	157	25	31	74,6	44,4	–	1/4	66 000	44 000	2 230
27	157	25	31	74,6	44,4	–	1/4	66 000	44 000	2 230
27	157	25	31	74,6	44,4	–	1/4	66 000	44 000	2 230
27	157	25	31	74,6	44,4	6	–	66 000	44 000	2 230

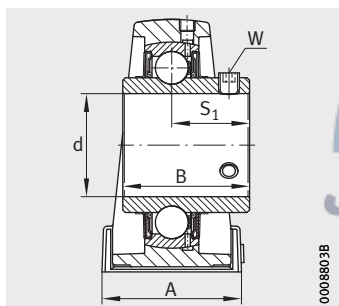
Plummer block housing units

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



Dimension table (continued) - Dimensions in mm and inch

Designation			Mass	Dimensions						
Unit	Housing	Radial insert ball bearing		m	d		H	J	L	A
					mm	inch				
				≈ kg						
UCP215-45	P215	UC215-45	6,9	71,438	2 ¹³ / ₁₆	82,6	217	275	74	
UCP215-46	P215	UC215-46	6,81	73,025	2 ⁷ / ₈	82,6	217	275	74	
UCP215-47	P215	UC215-47	6,7	74,613	2 ¹⁵ / ₁₆	82,6	217	275	74	
UCP215	P215	UC215	6,67	75	–	82,6	217	275	74	
UCP215-48	P215	UC215-48	6,58	76,2	3	82,6	217	275	74	
UCP216-49	P216	UC216-49	8,53	77,788	3 ¹ / ₁₆	88,9	232	292	78	
UCP216-50	P216	UC216-50	8,4	79,375	3 ¹ / ₈	88,9	232	292	78	
UCP216	P216	UC216	8,4	80	–	88,9	232	292	78	
UCP216-51	P216	UC216-51	8,28	80,963	3 ³ / ₁₆	88,9	232	292	78	
UCP217-52	P217	UC217-52	10,3	82,55	3 ¹ / ₄	95,2	247	310	83	
UCP217-53	P217	UC217-53	10,17	84,138	3 ⁵ / ₁₆	95,2	247	310	83	
UCP217	P217	UC217	10,1	85	–	95,2	247	310	83	
UCP217-55	P217	UC217-55	9,9	87,313	3 ⁷ / ₁₆	95,2	247	310	83	
UCP218-56	P218	UC218-56	12,3	88,9	3 ¹ / ₂	101,6	262	327	88	
UCP218	P218	UC218	12,2	90	–	101,6	262	327	88	



UCP

						Width across flats		Load carrying capacity Bearing		
								Basic load ratings		Fatigue limit load
H ₁	H ₂	N	N ₁	B	S ₁	W		dyn. C _r N	stat. C _{0r} N	C _{ur} N
						mm	inch			
28	163	25	31	77,8	44,5	–	1/4	66 000	44 500	2 240
28	163	25	31	77,8	44,5	–	1/4	66 000	44 500	2 240
28	163	25	31	77,8	44,5	–	1/4	66 000	44 500	2 240
28	163	25	31	77,8	44,5	6	–	66 000	44 500	2 240
28	163	25	31	77,8	44,5	–	1/4	66 000	44 500	2 240
30	175	25	31	82,6	49,3	–	1/4	76 000	54 000	2 600
30	175	25	31	82,6	49,3	–	1/4	76 000	54 000	2 600
30	175	25	31	82,6	49,3	6	–	76 000	54 000	2 600
30	175	25	31	82,6	49,3	–	1/4	76 000	54 000	2 600
32	187	25	31	85,7	51,6	–	1/4	88 000	64 000	2 950
32	187	25	31	85,7	51,6	–	1/4	88 000	64 000	2 950
32	187	25	31	85,7	51,6	6	–	88 000	64 000	2 950
32	187	25	31	85,7	51,6	–	1/4	88 000	64 000	2 950
33	200	27	33	96	56,3	–	1/4	102 000	72 000	3 250
33	200	27	33	96	56,3	6	–	102 000	72 000	3 250