forniture
per
l'industria
gelmini s.r.l.

SKF ball bearing units
UC range

Japanese Industrial Standards compliant ball bearing units

Solid design, solid benefits

In order to meet the industry's demands of improved protection against contaminant ingress, better shaft balance and locking strength, we have now developed a new range of ball bearing units – the UC range.

These bearing units offer optimized protection against contaminants as well as better resistance against washdowns. In addition, the units are designed with a 120° grub screw angle locking system to operate reliably in applications where good shaft balance is needed and where systemic vibration is a characteristic application condition.

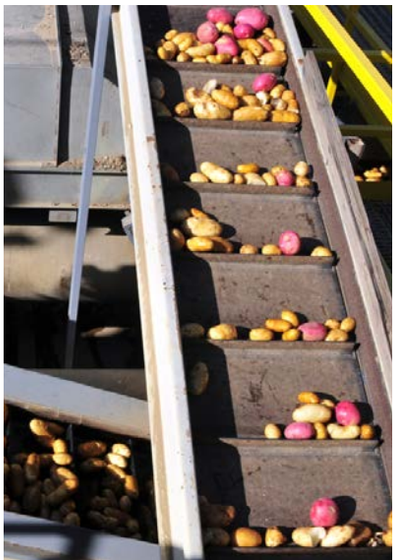
Easy to order, easy to replace

You want a solution that makes your life easy – a solution with interchangeable boundary dimensions, housing configurations and part numbers. The UC range ball bearing units achieve this and more. It's compatible with JIS* housings available today on the market. No modification of your machine is needed. The dimensions meet most of the current UC designated bearing unit fitting requirements. And whatever product you need, with SKF you know it will be easy to obtain, straightforward to install and manufactured to SKF quality levels.

* JIS: Japanese Industrial Standards

Main applications include

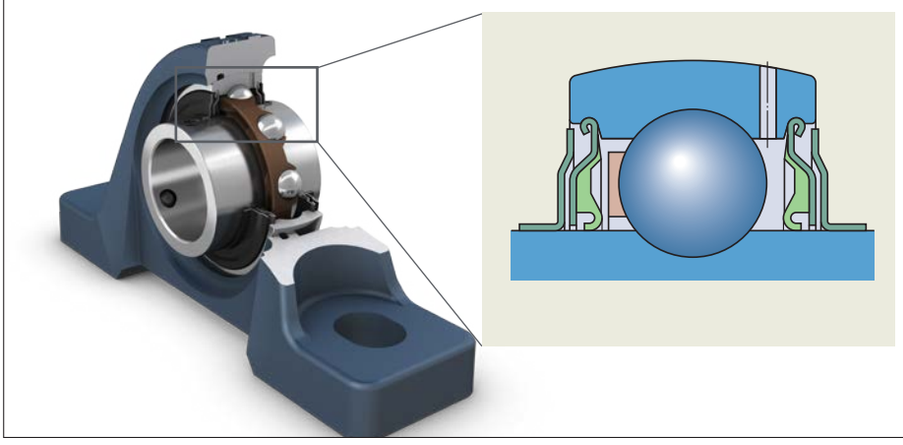
- Material handling conveyors
- Agriculture machinery
- Food & beverage machinery
- Packaging equipment
- Fitness equipment
- Air handling



Other industries

- Textile machinery
- Construction machinery
- Escalators
- Metal industry

Fig. 1



Sealing system

SKF has cascaded its extensive field proven sealing experience to this new product range. The sealing system consists of an integral single-lip inner seal and an external flinger fitted on the inner ring (**fig 1**). This additional barrier acting as a deflector, together with the seal, improves bearing protection against the ingress of contaminants. Comparative tests of contaminant and washdown resistance show that SKF units perform better than comparable competitor products (**diagrams 1** and **2**).

Solid design for increased cleanliness

The solid base design provides a smooth surface to avoid the harboring of contaminants, especially in contaminated conveyor operating environments. The solid design also limits the risk of dirt collecting underneath the housing support and improves resistance to vibration.

To help comply with health and safety regulations, UC bearing units with flanged and take-up housings are available with hydrophobic polypropylene end covers. We offer these end covers as a high availability option.

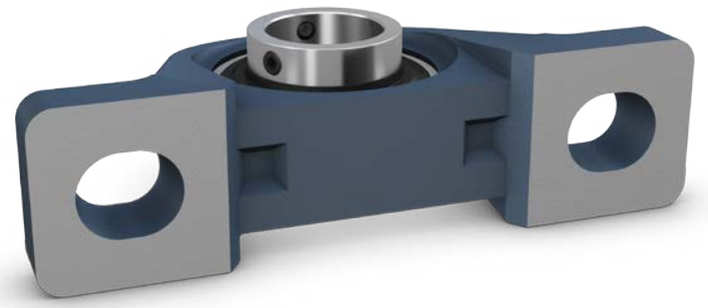


Diagram 1

Contaminant resistance, mud test (hours)

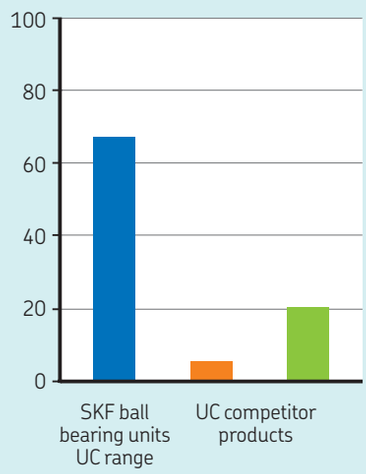


Diagram 2

Washdown resistance (score)

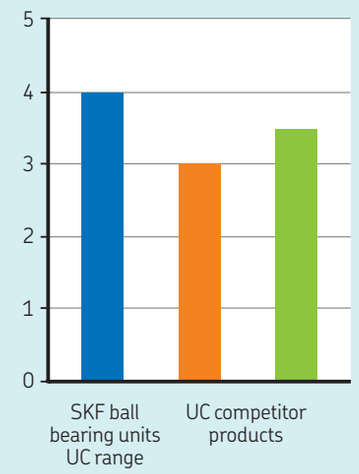


Diagram 3

Axial holding power – grub screws (kN/Nm)

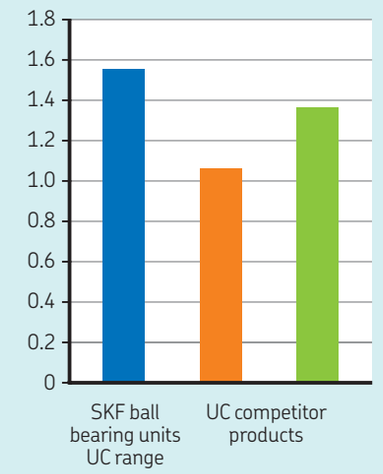
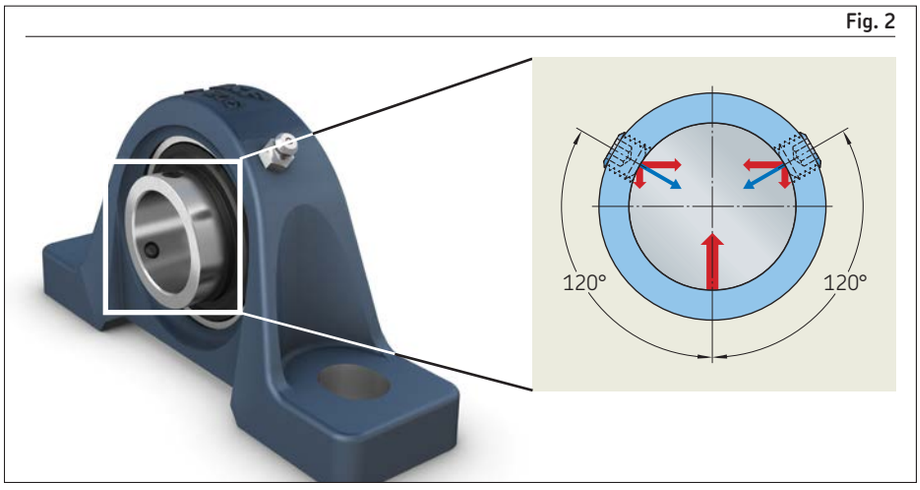


Fig. 2



Please note that end covers are not included with the SKF ball bearing units and must be ordered separately.

Better balance with a 120° [1] locking screw angle

One of the most frequent causes for ball bearing unit failures in high speed applications is shaft imbalance and vibration loosening the locking system. Designing the UC range with a grub screw angle of 120° not only improves balance at high speed, it also reduces deformation of the bearing when locking. For distribution of the forces acting on the shaft (**fig 2**).

A test of the axial holding power of the grub screw showed that the SKF locking system performed better than our competitors' equivalent offers (**diagram 3**, **page 3**).

[1] Valid up to bore diameter 65 mm, for larger diameter shaft applications characterized by higher peak loads and lower rotational speeds, the ball bearing unit features a grub screw angle of 62°

SKF high-quality grease

Poor lubrication accounts for over 36% of premature bearing failures. In fact, most low speed applications fail due to lubrication related issues, not necessarily due to bearing fatigue. Provided that recommended maintenance intervals are followed, SKF high-quality grease helps bearings achieve expected service life as the SKF lubricants are designed to perform under real conditions (**table 1**).

Table 1

Lubricating greases

Technical specification	**Grease fills in** standard ball bearings standard ball bearing units
Thickener	Lithium-calcium soap
Base oil	Mineral oil
Colour	Yellowish brown
Temperature range [°C] (continuous operation)	–30 to +120[1]
Kinematic viscosity [mm²/s]	190/15
Consistency (to NLGI scale)	2
Other	Long life grease

[1] The temperature range for reliable operation in accordance with the SKF traffic light concept is between 10 and 120 °C.

Your benefits at a glance

SKF understands machine and plant productivity and the need to deliver high rotating equipment performance. The UC range has been designed to provide reliable performance as well as reduce machine downtime. It includes specific features that can make the difference in your equipment:

- Interchangeable with JIS housing
- Full range assortment
- Shorter lead times with available local stock
- 120° grub screw angle – better balance at high speed and less deformation when locking
- Robust design reducing contaminant ingress and vibration
- Enhanced washdown resistance

Designations

The complete designation for the SKF ball bearing units – UC range consists of:

- Prefixes, identifying ball bearing housing type
- Figures, identifying the size
- Suffixes, identifying design and variants

More details about the basic designations and the supplementary designations can be obtained from the table **Designation system.**

Designation system

Examples: UCP 216 — UC P 2 16
UCFL 204/H — UC FL 2 04 /H

Bearing series

UC	Insert bearing with grub screws
UK[1)]	Insert bearing with a tapered bore and adapter sleeve

Housing type

P	Pillow block unit
F	Flanged unit, square 4-bolt flange
FL	Flanged unit, oval 2-bolt flange
FC	Flanged unit, round 4-bolt flange
T	Take-up unit for linear motion
FB	Flanged unit, 3-bolt bracket flange
PA	Tapped base pillow block unit

Dimension series

2	Normal series
3	Heavy duty series

Bore diameter

For metric shaft

04	20 mm
to	to
18	90 mm

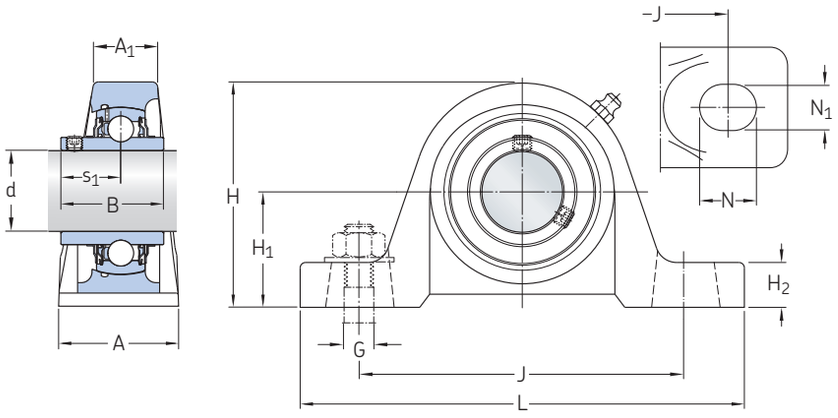
Suffixes

/H	Higher stability and better load balance than standard For UC ball bearing units: 120° grub screws angle instead of 62°
K	Without adapter sleeve

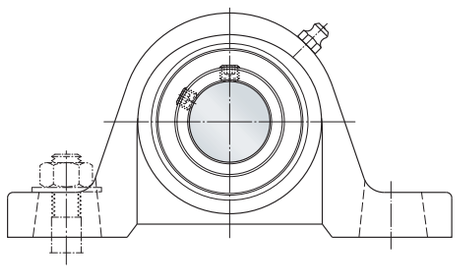
[1)] Order adapter sleeve separately.

SKF's global distribution network – always close to you

Finding replacement parts can sometimes be a challenge. SKF is well positioned to bring you the right support and the right parts, no matter where your application is based. We have 17 000 distribution locations in over 130 countries around the globe, which, together with our distribution partners, help us achieve industry leading product availability.



UCP 204/H to UCP 213/H

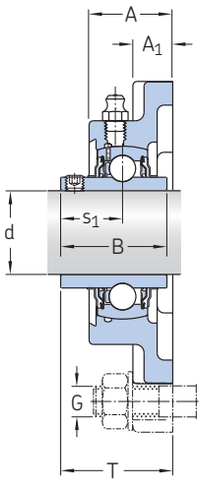


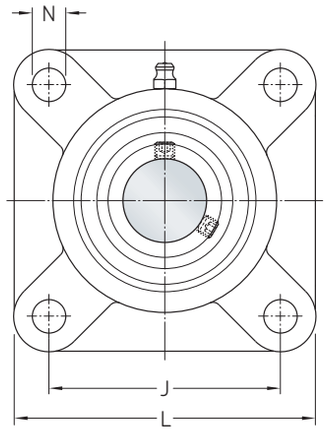
UCP 214 to UCP 218

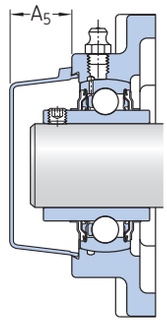
Principal dimensions			**Basic load ratings** dynamic	static	**Fatigue load limit**	**Limiting speed** with shaft tolerance h6	**Mass**	**Designations**
d	H_1	J	C	C_0	P_u			
mm			kN			r/min	kg	–
20	33,3	95	12,7	6,55	0,28	6 500	0,6	**UCP 204/H**
25	36,5	105	14	7,8	0,335	5 850	0,76	**UCP 205/H**
30	42,9	121	19,5	11,2	0,475	5 000	1,2	**UCP 206/H**
35	47,6	127	25,5	15,3	0,655	4 300	1,5	**UCP 207/H**
40	49,2	137	30,7	19	0,8	3 750	2	**UCP 208/H**
45	54	146	33,2	21,6	0,915	3 400	2,2	**UCP 209/H**
50	57,2	159	35,1	23,2	0,98	3 300	2,7	**UCP 210/H**
55	63,5	171	43,6	29	1,25	3 000	3,55	**UCP 211/H**
60	69,8	184	52,7	36	1,53	2 700	4,55	**UCP 212/H**
65	76,2	203	57,2	40	1,7	2 350	6,25	**UCP 213/H**
70	79,4	210	62,4	45	1,86	2 250	6,8	**UCP 214**
75	82,6	217	66,3	49	2,04	2 100	7,3	**UCP 215**
80	88,9	232	71,5	54	2,2	1 900	9,45	**UCP 216**
90	101,6	262	95,6	72	2,7	1 600	14,1	**UCP 218**

Dimensions

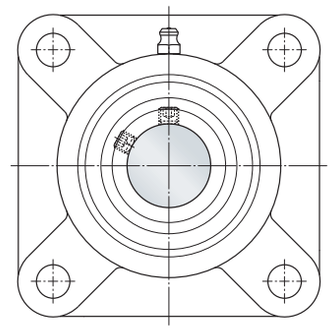
d	A	A_1	B	H	H_2	L	N	N_1	G	s_1
mm										
20	34	21	31	64,5	13,5	127	18	13	10	18,3
25	38	22	34,1	70,5	16	139,5	18	13	10	19,8
30	45	24	38,1	83,5	16,5	165	21	17	14	22,2
35	46	27	42,9	93,5	18,5	166,5	21	17	14	25,4
40	49	29	49,2	101	20,5	184	21	17	14	30,2
45	51	29	49,2	108	19	189,5	21	17	14	30,2
50	56	31	51,6	116	19	206,5	22	20	16	32,6
55	59	35	55,6	126	22	219	22	20	16	33,4
60	62	36	65,1	141,5	22	239,5	25	20	16	39,7
65	72	35	68,3	153,5	25,5	265	30	25	20	42,9
70	72	41	69,9	159,5	28	266	30	25	20	39,7
75	73	42	77,8	164	25,5	271,5	30	25	20	44,5
80	78	45	82,6	176	32,5	292	35	25	20	49,3
90	88	51	96	202,5	36,5	327	40	27	22	56,3







UCF 204/H to UCF 213/H



UCF 214 to UCF 218

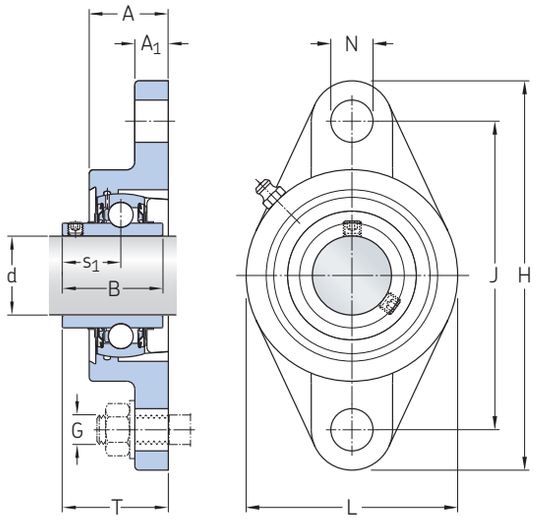
Principal dimensions		**Basic load ratings** dynamic	static	**Fatigue load limit**	**Limiting speed** with shaft tolerance h6	**Mass**	**Designations** Ball bearing unit	Associated end cover
d	J	C	C_0	P_u				
mm		kN			r/min	kg	–	
20	64	12,7	6,55	0,28	6 500	0,53	**UCF 204/H**	ECY 204
25	70	14	7,8	0,335	5 850	0,72	**UCF 205/H**	ECY 205
30	83	19,5	11,2	0,475	5 000	1,05	**UCF 206/H**	ECY 206
35	92	25,5	15,3	0,655	4 300	1,35	**UCF 207/H**	ECY 207
40	102	30,7	19	0,8	3 750	1,8	**UCF 208/H**	ECY 208
45	105	33,2	21,6	0,915	3 400	2,1	**UCF 209/H**	ECY 209
50	111	35,1	23,2	0,98	3 300	2,4	**UCF 210/H**	ECY 210
55	130	43,6	29	1,25	3 000	3,4	**UCF 211/H**	ECY 211
60	143	52,7	36	1,53	2 700	4,05	**UCF 212/H**	ECY 212
65	149	57,2	40	1,7	2 350	5,35	**UCF 213/H**	ECY 213
70	152	62	44	1,86	2 250	5,95	**UCF 214**	ECY 214
75	159	66	49	2,04	2 100	6,2	**UCF 215**	ECY 215
80	165	72	54	2,2	1 900	7,35	**UCF 216**	ECY 216
90	187	96	72	2,7	1 600	11,5	**UCF 218**	ECY 218

Dimensions

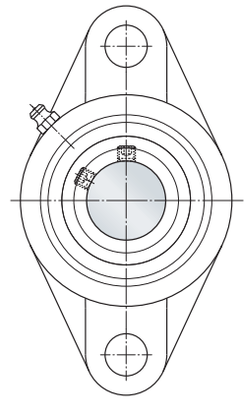
d	A	A_1	A_5	B	L	N	G	s_1	T
mm									
20	25,5	11	20,5	31	86	12	10	18,3	33,3
25	27	13	20,5	34,1	95	12	10	19,8	35,8
30	30	14	22,5	38,1	108	12	10	22,2	40,2
35	32	15	24,5	42,9	118	14	12	25,4	44,4
40	35,5	15	26	49,2	130	16	14	30,2	51,2
45	38	16	26,5	49,2	137	16	14	30,2	52,2
50	39,5	16	33	51,6	143	16	14	32,6	54,6
55	43	18	37,5	55,6	162	19	16	33,4	58,4
60	47,5	18	39	65,1	175	19	16	39,7	68,7
65	50	22	39	68,3	187	19	16	42,9	72,9
70	54	22	41,5	74,6	193	19	16	44,4	75,4
75	56,5	22	41,5	77,8	200	19	16	44,5	78,3
80	58	22	41,5	82,6	208	23	20	49,3	83,3
90	68,5	25	45,5	96	235	23	20	56,3	96

Oval flanged ball bearing units, grub screw locking

d **20**-**90** mm



UCFL 204/H to UCFL 213/H



UCFL 214 to UCFL 218

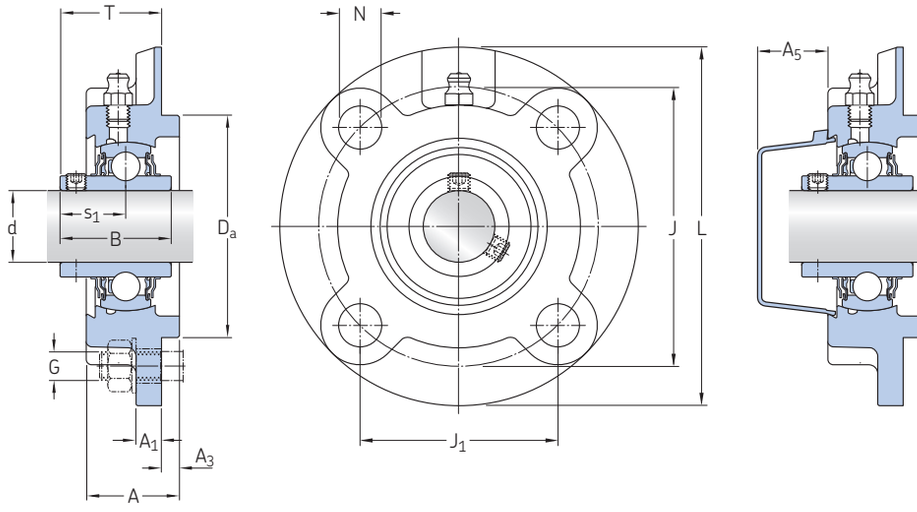
Principal dimensions		**Basic load ratings** dynamic	static	**Fatigue load limit**	**Limiting speed** with shaft tolerance h6	**Mass**	**Designations** Ball bearing unit	Associated end cover
d	J	C	C_0	P_u				
mm		kN			r/min	kg	–	
20	90	12,7	6,55	0,28	6 500	0,44	**UCFL 204/H**	ECY 204
25	99	14	7,8	0,335	5 850	0,61	**UCFL 205/H**	ECY 205
30	117	19,5	11,2	0,475	5 000	0,9	**UCFL 206/H**	ECY 206
35	130	25,5	15,3	0,655	4 300	1,15	**UCFL 207/H**	ECY 207
40	144	30,7	19	0,8	3 750	1,5	**UCFL 208/H**	ECY 208
45	148	33,2	21,6	0,915	3 400	1,8	**UCFL 209/H**	ECY 209
50	157	35,1	23,2	0,98	3 300	2,2	**UCFL 210/H**	ECY 210
55	184	43,6	29	1,25	3 000	3,05	**UCFL 211/H**	ECY 211
60	202	52,7	36	1,53	2 700	3,85	**UCFL 212/H**	ECY 212
65	210	57,2	40	1,7	2 350	4,85	**UCFL 213/H**	ECY 213
70	216	62,4	44	1,86	2 250	5,45	**UCFL 214**	ECY 214
75	225	66,3	49	2,04	2 100	5,95	**UCFL 215**	ECY 215
80	233	71,5	54	2,2	1 900	7,5	**UCFL 216**	ECY 216
90	265	95,6	72	2,7	1 600	11,3	**UCFL 218**	ECY 218

Dimensions

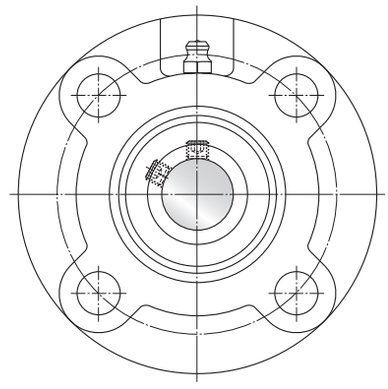
d	A	A_1	A_5	B	H	L	N	G	s_1	T
mm										
20	25,5	11	20,5	31	113	60	12	10	18,3	33,3
25	27	13	20,5	34,1	130	68	16	14	19,8	35,8
30	30	13	22,5	38,1	147,5	80	16	14	22,2	40,2
35	32	14	24,5	42,9	161	90	16	14	25,4	44,4
40	34	14	26	49,2	174,5	100	16	14	30,2	51,2
45	35	15	26,5	49,2	188	108	19	16	30,2	51,2
50	39	15	33	51,6	197	115	19	16	32,6	53,6
55	41,5	18	37,5	55,6	224	130	19	16	33,4	58,4
60	45	18	39	65,1	250	140	23	20	39,7	68,7
65	47	20	39	68,3	258	155	23	20	42,9	72,9
70	50	20	41,5	74,6	265	160	23	20	44,4	75,4
75	54	20	41,5	77,8	275	164	23	20	44,5	78,5
80	56	20	41,5	82,6	290	180	25	22	49,3	83,3
90	68	23	45,5	96	320	205	25	22	56,3	96,3

Round flanged ball bearing units, grub screw locking

d **20**-**90** mm



UCFC 204/H to UCFC 213/H

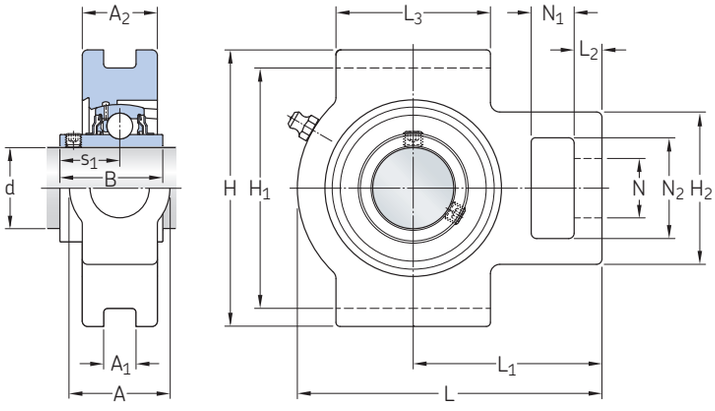


UCFC 214 to UCFC 218

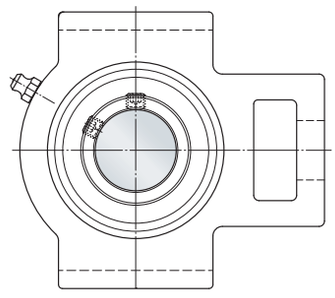
Principal dimensions				**Basic load ratings** dynamic	static	**Fatigue load limit**	**Limiting speed** with shaft tolerance h6	**Mass**	**Designations** Ball bearing unit	Associated end cover
d	D_a h8	J	J_1	C	C_0	P_u				
mm				kN			r/min	kg	–	
20	62	78	55,2	12,7	6,55	0,28	6 500	0,71	**UCFC 204/H**	ECY 204
25	70	90	63,6	14	7,8	0,335	5 850	1	**UCFC 205/H**	ECY 205
30	80	100	70,7	19,5	11,2	0,475	5 000	1,3	**UCFC 206/H**	ECY 206
35	90	110	77,8	25,5	15,3	0,655	4 300	1,6	**UCFC 207/H**	ECY 207
40	100	120	84,9	30,7	19	0,8	3 750	2	**UCFC 208/H**	ECY 208
45	105	132	93,3	33,2	21,6	0,915	3 400	2,7	**UCFC 209/H**	ECY 209
50	110	138	97,6	35,1	23,2	0,98	3 300	2,9	**UCFC 210/H**	ECY 210
55	125	150	106,1	43,6	29	1,25	3 000	4,1	**UCFC 211/H**	ECY 211
60	135	160	113,1	52,7	36	1,53	2 700	4,95	**UCFC 212/H**	ECY 212
65	145	170	120,2	57,2	40	1,7	2 350	5,65	**UCFC 213/H**	ECY 213
70	150	177	125,2	62,4	44	1,86	2 250	6,85	**UCFC 214**	ECY 214
75	160	184	130,1	66,3	49	2,04	2 100	7,35	**UCFC 215**	ECY 215
80	170	200	141,4	71,5	54	2,2	1 900	9,1	**UCFC 216**	ECY 216
90	190	220	155,6	95,6	72	2,7	1 600	12,8	**UCFC 218**	ECY 218

Dimensions

d	A	A_1	A_3	A_5	B	L	N	G	s_1	T
mm										
20	26	7	5	20,5	31	100	12	10	18,3	28,3
25	27,5	7	6	20,5	34,1	115	12	10	19,8	29,8
30	30	8	8	22,5	38,1	125	12	10	22,2	32,2
35	32	9	8	24,5	42,9	135	14	12	25,4	36,4
40	35,5	9	10	26	49,2	145	14	12	30,2	41,2
45	37,5	14	12	26,5	49,2	160	16	14	30,2	40,2
50	39	14	12	33	51,6	165	16	14	32,6	42,6
55	43	15	12	37,5	55,6	185	19	16	33,4	46,4
60	47,5	15	12	39	65,1	195	19	16	39,7	56,7
65	50	15	14	39	68,3	205	19	16	42,9	58,9
70	54	10	14	41,5	74,6	215	19	16	44,4	61,4
75	56	10	16	41,5	77,8	220	19	16	44,5	62,5
80	58	10	16	41,5	82,6	240	23	20	49,3	67,3
90	68,5	20	18	45,5	96	265	23	20	56,3	78,3



UCT 204/H to UCT 213/H



UCT 214 to UCT 216

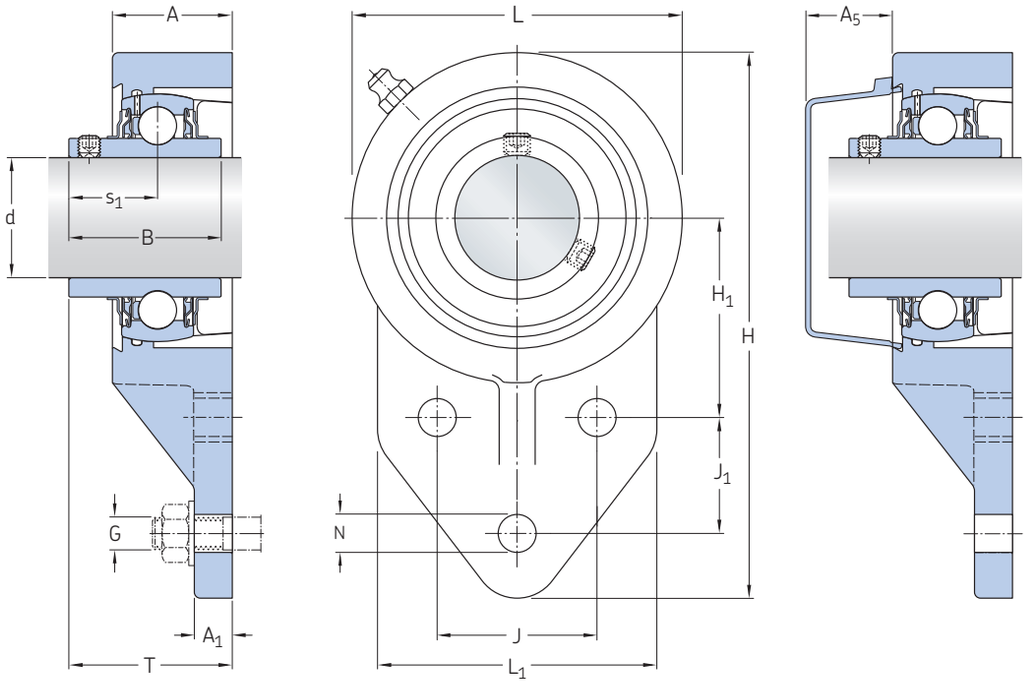
Principal dimensions				**Basic load ratings** dynamic	static	**Fatigue load limit**	**Limiting speed** with shaft tolerance h6	**Mass**	**Designations** Ball bearing unit	Associated end cover
d	H_1	A_1	N	C	C_0	P_u				
mm				kN			r/min	kg	–	
20	76	12	19	12,7	6,55	0,28	6 500	0,7	**UCT 204/H**	**ECY 204**
25	76	12	19	14	7,8	0,335	5 850	0,79	**UCT 205/H**	**ECY 205**
30	89	12	22	19,5	11,2	0,475	5 000	1,25	**UCT 206/H**	**ECY 206**
35	89	12	22	25,5	15,3	0,655	4 300	1,6	**UCT 207/H**	**ECY 207**
40	102	16	29	30,7	19	0,8	3 750	2,35	**UCT 208/H**	**ECY 208**
45	102	16	29	33,2	21,6	0,915	3 400	2,35	**UCT 209/H**	**ECY 209**
50	102	16	29	35,1	23,2	0,98	3 300	2,5	**UCT 210/H**	**ECY 210**
55	130	22	35	43,6	29	1,25	3 000	3,85	**UCT 211/H**	**ECY 211**
60	130	22	35	52,7	36	1,53	2 700	4,7	**UCT 212/H**	**ECY 212**
65	151	26	41	57,2	40	1,7	2 350	6,7	**UCT 213/H**	**ECY 213**
70	151	26	41	62,4	44	1,86	2 250	6,9	**UCT 214**	**ECY 214**
75	151	26	41	66,3	49	2,04	2 100	7,2	**UCT 215**	**ECY 215**
80	165	26	41	71,5	54	2,2	1 900	8,3	**UCT 216**	**ECY 216**

Dimensions

d	A	A_2	A_5	B	H	H_2	L	L_1	L_2	L_3	N_1	N_2	s_1
mm													
20	32	21	20,5	31	89	51	94	61	10	51	16	32	18,3
25	32	24	20,5	34,1	89	51	97	62	10	51	16	32	19,8
30	37	28	22,5	38,1	102	56	113	70	10	57	16	37,5	22,2
35	37	30	24,5	42,9	102	64	129	78	13	64	16	37,5	25,4
40	49	33	26	49,2	114	83	145	88	16	83	19	49	30,2
45	49	35	26,5	49,2	117	83	145	87	16	83	21	51	30,2
50	49	37	33	51,6	117	83	148	90	16	86	19	49	32,6
55	64	38	37,5	55,6	146	102	172	106	19	95	25	64,5	33,4
60	64	42	39	65,1	146	102	45	119	19	102	32	64,5	39,7
65	70	44	39	68,3	167	111	225	137	21	121	32	70	42,9
70	70	46	41,5	74,6	167	111	225	137	21	121	32	70	44,4
75	70	48	41,5	77,8	167	111	232	140	21	121	32	70	44,5
80	70	51	41,5	82,6	184	111	235	140	21	121	32	70	49,3

3-bolt bracket flanged ball bearing units, grub screw locking

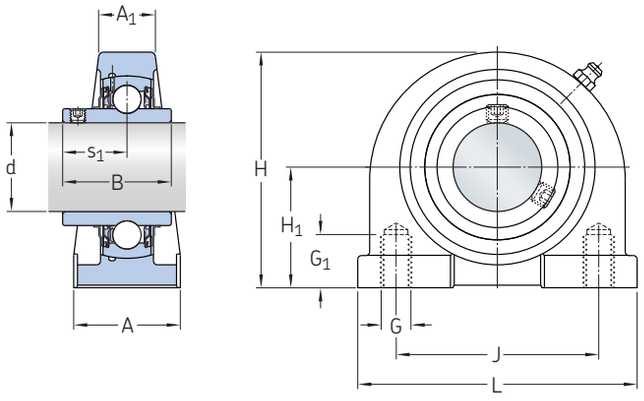
d **30**–**45** mm



Principal dimensions				Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Associated end cover
d	H_1	J	J_1	C	C_0	P_u				
mm				kN			r/min	kg	–	
30	50	40	29	19,5	11,2	0,475	5 000	1,05	**UCFB 206/H**	ECY 206
35	55	46	32	25,5	15,3	0,655	4 300	1,4	**UCFB 207/H**	ECY 207
40	60	50	41	30,7	19	0,8	3 750	1,8	**UCFB 208/H**	ECY 208
45	65	54	43	33,2	21,6	0,915	3 400	2,15	**UCFB 209/H**	ECY 209

Dimensions

d	A	A_1	A_5	B	H	L	L_1	N	G	s_1	T
mm											
30	30	10	22,5	38,1	137	83	70	9,5	8	22,2	40,9
35	33,5	13	24,5	42,9	144	90	83	9,5	8	25,4	44,4
40	35,5	16	26	49,2	164	100	78	11	10	30,2	51,2
45	37	18	26,5	49,2	176	106	80	11	10	30,2	50,2



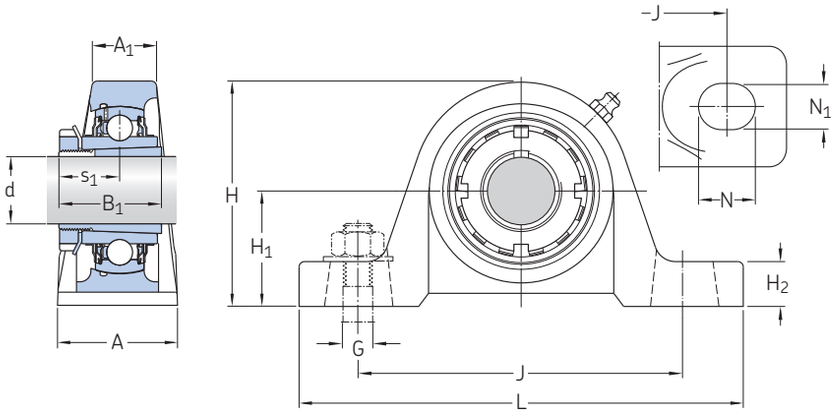
Principal dimensions			Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations
d	H_1	J	C	C_0	P_u			
mm			kN			r/min	kg	–
35	47,6	80	25,5	15,3	0,655	4 300	1,45	**UCPA 207/H**
40	49,2	84	30,7	19	0,8	3 750	1,65	**UCPA 208/H**
45	54,2	90	33,2	21,6	0,915	3 400	1,85	**UCPA 209/H**
50	57,2	94	35,1	23,2	0,98	3 300	2,25	**UCPA 210/H**

Dimensions

d	A	A_1	B	H	L	G	G_1	s_1
mm						–	mm	
35	42	22	42,9	93	110,5	M14	20	25,4
40	45	27	49,2	98	116	M14	20	30,2
45	45	26	49,2	106	120	M14	25	30,2
50	51	27	51,6	113	130	M16	25	32,6

Plummer block ball bearing units, adapter locking

d **20**-**60** mm



Principal dimensions			Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Adapter sleeve[1]
d	H_1	J	C	C_0	P_u				
mm			kN			r/min	kg	–	
20	36,5	105	14	7,8	0,335	5 850	0,82	**UKP 205 K/H**	H 2305
25	42,9	121	19,5	11,2	0,475	5 000	1,25	**UKP 206 K/H**	H 2306
30	47,6	127	25,5	15,3	0,655	4 300	1,6	**UKP 207 K/H**	H 2307
35	49,2	137	30,7	19	0,8	3 750	2,1	**UKP 208 K/H**	H 2308
40	54	146	33,2	21,6	0,915	3 400	2,4	**UKP 209 K/H**	H 2309
45	57,2	159	35,1	23,2	0,98	3 300	2,9	**UKP 210 K/H**	H 2310
50	63,5	171	43,6	29	1,25	3 000	3,75	**UKP 211 K/H**	H 2311
55	69,8	184	52,7	36	1,53	2 700	4,7	**UKP 212 K/H**	H 2312
60	76,2	203	57,2	40	1,7	2 350	6,4	**UKP 213 K/H**	H 2313

[1] Order adapter sleeve separately.

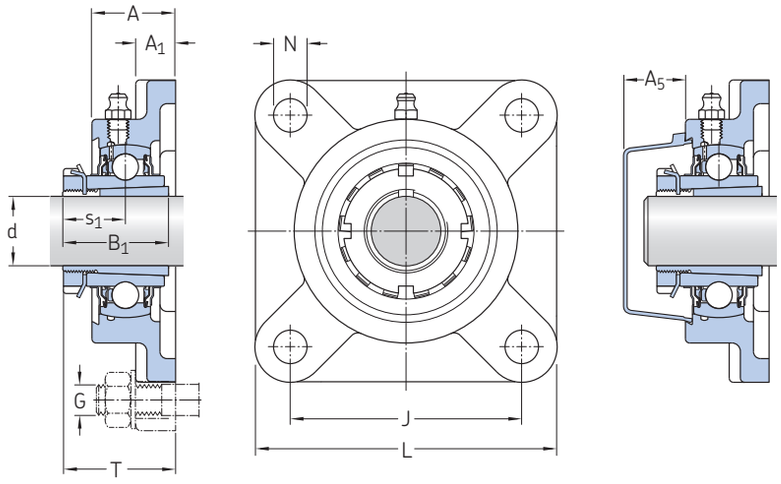
Dimensions

d	A	A_1	B_1	H	H_2	L	N	N_1	G	s_1[2)]
mm										
20	38	22	35	70,5	16	139,5	18	13	10	20,5
25	45	24	38	83,5	16,5	165	21	17	14	22,5
30	46	27	43	93,5	18,5	166,5	21	17	14	24,8
35	49	29	46	101	20,5	184	21	17	14	27,5
40	51	29	50	108	19	189,5	21	17	14	29
45	56	31	55	116	19	206,5	22	20	16	31,1
50	59	35	59	126	22	219	22	20	16	32,5
55	62	36	62	141,5	22	239,5	25	20	16	33,8
60	72	35	65	153,5	25,5	265	30	25	20	35,3

[2)] Values for s_1 are valid before the sleeve is driven into the bearing bore (sleeve and inner ring at starting position).

Square flanged ball bearing units, adapter locking

d **20**-**60** mm



Principal dimensions		Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Adapter sleeve[1]	Associated end cover
d	J	C	C_0	P_u					
mm		kN			r/min	kg	–		
20	70	14	7,8	0,335	5 850	0,77	**UKF 205 K/H**	H 2305	ECY 205
25	83	19,5	11,2	0,475	5 000	1,15	**UKF 206 K/H**	H 2306	ECY 206
30	92	25,5	15,3	0,655	4 300	1,45	**UKF 207 K/H**	H 2307	ECY 207
35	102	30,7	19	0,8	3 750	1,9	**UKF 208 K/H**	H 2308	ECY 208
40	105	33,2	21,6	0,915	3 400	2,25	**UKF 209 K/H**	H 2309	ECY 209
45	111	35,1	23,2	0,98	3 300	2,6	**UKF 210 K/H**	H 2310	ECY 210
50	130	43,6	29	1,25	3 000	3,6	**UKF 211 K/H**	H 2311	ECY 211
55	143	52,7	36	1,53	2 700	4,2	**UKF 212 K/H**	H 2312	ECY 212
60	149	57,2	40	1,7	2 350	5,45	**UKF 213 K/H**	H 2313	ECY 213

[1] Order adapter sleeve separately.

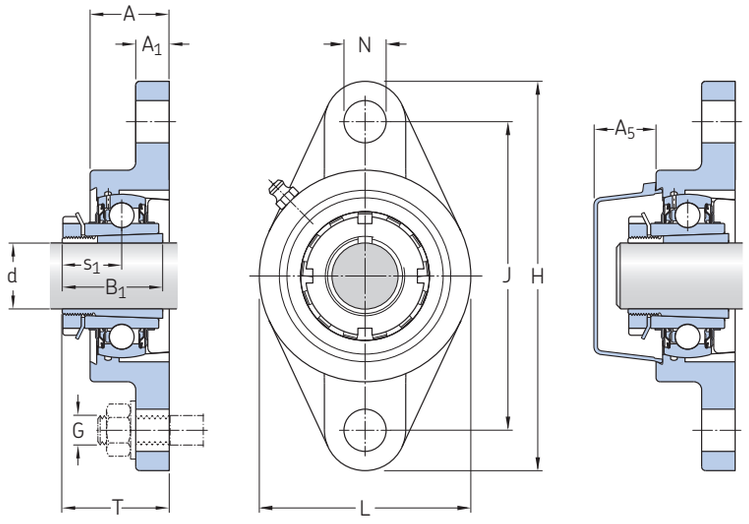
Dimensions

d	A	A_1	A_5	B_1	L	N	G	s_1[2)]	T
mm									
20	27	13	20,5	35	95	12	10	20,5	36,5
25	30	14	22,5	38	108	12	10	22,5	40,5
30	32	15	24,5	43	118	14	12	24,8	43,8
35	35,5	15	26	46	130	16	14	27,5	48,5
40	38	16	26,5	50	137	16	14	29	51
45	39,5	16	33	55	143	16	14	31,1	53,1
50	43	18	37,5	59	162	19	16	32,5	57,5
55	47,5	18	39	62	175	19	16	33,8	62,8
60	50	22	39	65	187	19	16	35,3	65,3

[2)] Values for s_1 are valid before the sleeve is driven into the bearing bore (sleeve and inner ring at starting position).

Oval flanged ball bearing units, adapter locking

d **20**-**60** mm



Principal dimensions		Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Adapter sleeve[1]	Associated end cover
d	J	C	C_0	P_u					
mm		kN			r/min	kg	–		
20	99	14	7,8	0,335	5 850	0,67	**UKFL 205 K/H**	H 2305	ECY 205
25	117	19,5	11,2	0,475	5 000	0,97	**UKFL 206 K/H**	H 2306	ECY 206
30	130	25,5	15,3	0,655	4 300	1,25	**UKFL 207 K/H**	H 2307	ECY 207
35	144	30,7	19	0,8	3 750	1,6	**UKFL 208 K/H**	H 2308	ECY 208
40	148	33,2	21,6	0,915	3 400	2	**UKFL 209 K/H**	H 2309	ECY 209
45	157	35,1	23,2	0,98	3 300	2,4	**UKFL 210 K/H**	H 2310	ECY 210
50	184	43,6	29	1,25	3 000	3,3	**UKFL 211 K/H**	H 2311	ECY 211
55	202	52,7	36	1,53	2 700	4	**UKFL 212 K/H**	H 2312	ECY 212
60	210	57,2	40	1,7	2 350	5	**UKFL 213 K/H**	H 2313	ECY 213

[1] Order adapter sleeve separately.

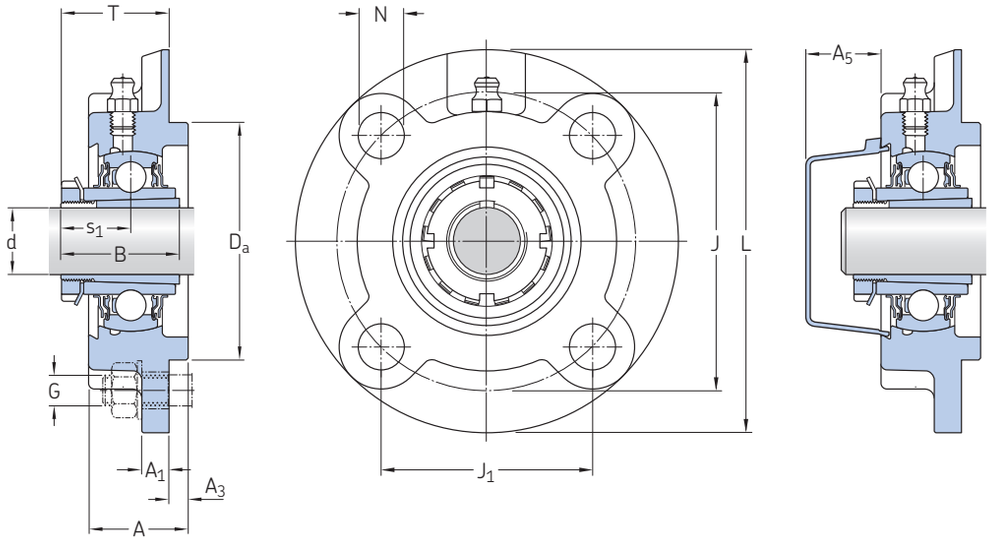
Dimensions

d	A	A_1	A_5	B_1	H	L	N	G	s_1[2)]	T
mm										
20	27	13	20,5	35	130	68	16	14	20,5	36,5
25	30	13	22,5	38	147,5	80	16	14	22,5	40,5
30	32	14	24,5	43	161	90	16	14	24,8	43,8
35	34	14	26	46	174,5	100	16	14	27,5	48,5
40	35	15	26,5	50	188	108	19	16	29	51
45	39	15	33	55	197	115	19	16	31,1	53,1
50	41,5	18	37,5	59	224	130	19	16	32,5	57,5
55	45	18	39	62	250	140	23	20	33,8	62,8
60	47	20	39	65	258	155	23	20	35,3	65,3

[2)] Values for s_1 are valid before the sleeve is driven into the bearing bore (sleeve and inner ring at starting position).

Round flanged ball bearing units, adapter locking

d **20**-**60** mm



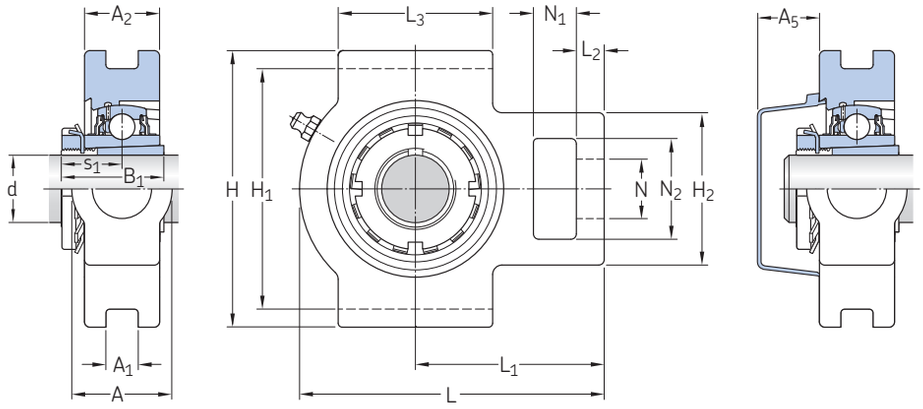
Principal dimensions				Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Adapter sleeve[1]	Associated end cover
d	D_a h8	J	J_1	C	C_0	P_u					
mm				kN			r/min	kg	–		
20	70	90	63,6	14	7,8	0,335	5 850	1,05	**UKFC 205 K/H**	H 2305	ECY 205
25	80	100	70,7	19,5	11,2	0,475	5 000	1,35	**UKFC 206 K/H**	H 2306	ECY 206
30	90	110	77,8	25,5	15,3	0,655	4 300	1,7	**UKFC 207 K/H**	H 2307	ECY 207
35	100	120	84,9	30,7	19	0,8	3 750	2,15	**UKFC 208 K/H**	H 2308	ECY 208
40	105	132	93,3	33,2	21,6	0,915	3 400	2,9	**UKFC 209 K/H**	H 2309	ECY 209
45	110	138	97,6	35,1	23,2	0,98	3 300	3,1	**UKFC 210 K/H**	H 2310	ECY 210
50	125	150	106,1	43,6	29	1,25	3 000	4,3	**UKFC 211 K/H**	H 2311	ECY 211
55	135	160	113,1	52,7	36	1,53	2 700	5,1	**UKFC 212 K/H**	H 2312	ECY 212
60	145	170	120,2	57,2	40	1,7	2 350	5,75	**UKFC 213 K/H**	H 2313	ECY 213

[1] Order adapter sleeve separately.

Dimensions

d	A	A_1	A_3	A_5	B_1	L	N	G	s_1[2)]	T
mm										
20	27,5	7	6	20,5	35	115	12	10	20,5	30,5
25	30	8	8	22,5	38	125	12	10	22,5	32,5
30	32	9	8	24,5	43	135	14	12	24,8	35,8
35	35,5	9	10	26	46	145	14	12	27,5	38,5
40	37,5	14	12	26,5	50	160	16	14	29	39
45	39	14	12	33	55	165	16	14	31,1	41,1
50	43	15	12	37,5	59	185	19	16	32,5	45,5
55	47,5	15	12	39	62	195	19	16	33,8	50,8
60	50	15	14	39	65	205	19	16	35,3	51,3

[2)] Values for s_1 are valid before the sleeve is driven into the bearing bore (sleeve and inner ring at starting position).



Principal dimensions				Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Adapter sleeve[1)]	Associated end cover
d	H_1	A_1	N	C	C_0	P_u					
mm				kN			r/min	kg	–		
20	76	12	19	14	7,8	0,335	5 850	0,84	**UKT 205/H**	H 2305	ECY 205
25	89	12	22	19,5	11,2	0,475	5 000	1,3	**UKT 206/H**	H 2306	ECY 206
30	89	12	22	25,5	15,3	0,655	4 300	1,7	**UKT 207/H**	H 2307	ECY 207
35	102	16	29	30,7	19	0,8	3 750	2,45	**UKT 208/H**	H 2308	ECY 208
40	102	16	29	33,2	21,6	0,915	3 400	2,5	**UKT 209/H**	H 2309	ECY 209
45	102	16	29	35,1	23,2	0,98	3 300	2,7	**UKT 210/H**	H 2310	ECY 210
50	130	22	35	43,6	29	1,25	3 000	4,05	**UKT 211/H**	H 2311	ECY 211
55	130	22	35	52,7	36	1,53	2 700	4,8	**UKT 212/H**	H 2312	ECY 212
60	151	26	41	57,2	40	1,7	2 350	6,8	**UKT 213/H**	H 2313	ECY 213

[1)] Order adapter sleeve separately.

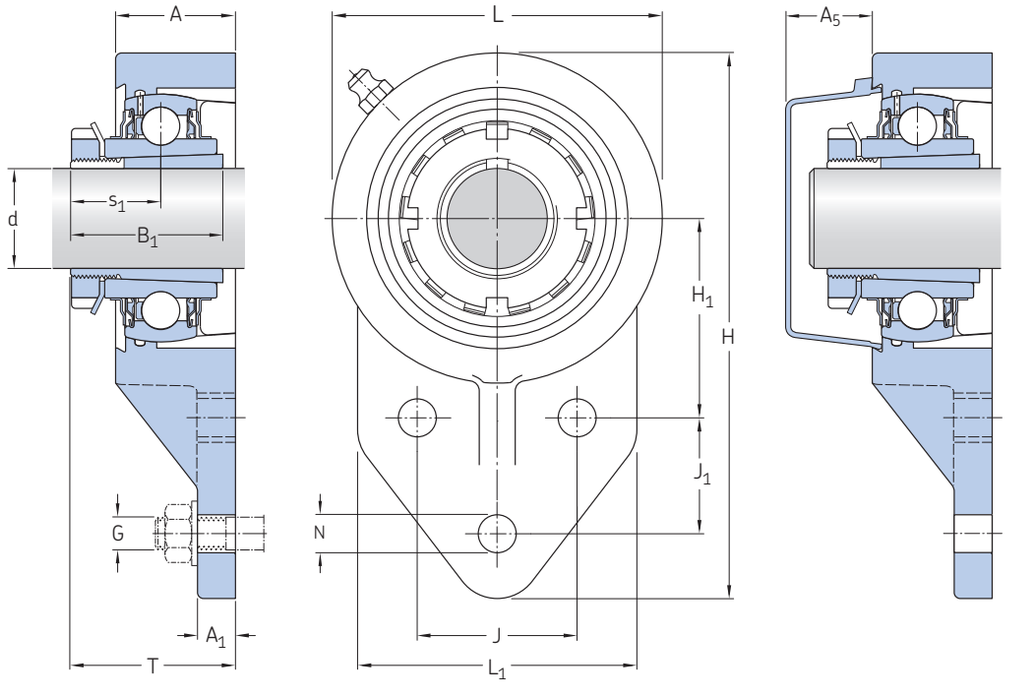
Dimensions

d	A	A_2	A_5	B_1	H	H_2	L	L_1	L_2	L_3	N_1	N_2	s_1[2)]
mm													
20	32	24	20,5	35	89	51	97	62	10	51	16	32	20,5
25	37	28	22,5	38	102	56	113	70	10	57	16	37,5	22,5
30	37	30	24,5	43	102	64	129	78	13	64	16	37,5	24,8
35	49	33	26	46	114	83	145	88	16	83	19	49	27,5
40	49	35	26,5	50	117	83	145	87	16	83	21	51	29
45	49	37	33	55	117	83	148	90	16	86	19	49	31,1
50	64	38	37,5	59	146	102	172	106	19	95	25	64,5	32,5
55	64	42	39	62	146	102	194	119	19	102	32	64,5	33,8
60	70	44	39	65	167	111	225	137	21	121	32	70	35,3

[2)] Values for s_1 are valid before the sleeve is driven into the bearing bore (sleeve and inner ring at starting position).

3-bolt bracket flanged ball bearing units, adapter locking

d **25**–**40** mm



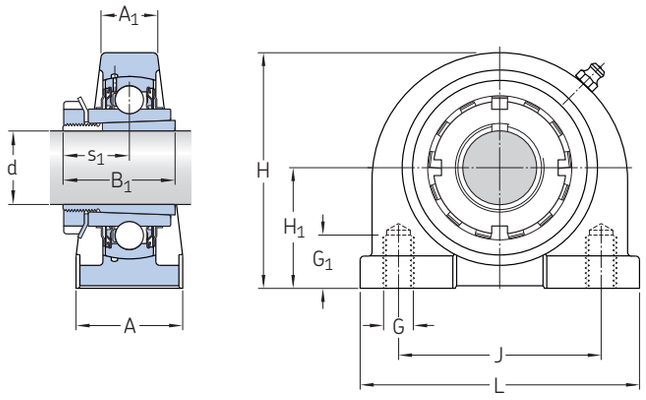
Principal dimensions				Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Adapter sleeve[1)]	Associated end cover
d	H_1	J	J_1	C	C_0	P_u					
mm				kN			r/min	kg	–		
25	50	40	29	19,5	11,2	0,475	5 000	1,1	**UKFB 206 K/H**	H 2306	ECY 206
30	55	46	32	25,5	15,3	0,655	4 300	1,5	**UKFB 207 K/H**	H 2307	ECY 207
35	60	50	41	30,7	19	0,8	3 750	1,95	**UKFB 208 K/H**	H 2308	ECY 208
40	65	54	43	33,2	21,6	0,915	3 400	2,3	**UKFB 209 K/H**	H 2309	ECY 209

[1)] Order adapter sleeve separately.

Dimensions

d	A	A_1	A_5	B_1	H	L	L_1	N	G	s_1[2)]	T
mm											
25	30	10	22,5	38	137	83	70	9,5	8	22,5	41,2
30	33,5	13	24,5	43	144	90	83	9,5	8	24,8	43,8
35	35,5	16	26	46	164	100	78	11	10	27,5	48,5
40	37	18	26,5	50	176	106	80	11	10	29	49

[2)] Values for s_1 are valid before the sleeve is driven into the bearing bore (sleeve and inner ring at starting position).



Principal dimensions			Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Ball bearing unit	Adapter sleeve[1]
d	H_1	J	C	C_0	P_u				
mm			kN			r/min	kg	–	
30	47,6	80	25,5	15,3	0,655	4 300	1,5	**UKPA 207 K/H**	H 2307
35	49,2	84	30,7	19	0,8	3 750	1,75	**UKPA 208 K/H**	H 2308
40	54,2	90	33,2	21,6	0,915	3 400	2	**UKPA 209 K/H**	H 2309
45	57,2	94	35,1	23,2	0,98	3 300	2,45	**UKPA 210 K/H**	H 2310

[1] Order adapter sleeve separately.

Dimensions

d	A	A_1	B_1	H	L	G	G_1	s_1[2)]
mm						–	mm	
30	42	22	43	93	110,5	M14	20	24,8
35	45	27	46	98	116	M14	20	27,5
40	45	26	50	106	120	M14	25	29
45	51	27	55	113	130	M16	25	31,1

[2)] Values for s_1 are valid before the sleeve is driven into the bearing bore (sleeve and inner ring at starting position).

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