

**Bearing units**

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## Thermoplastic Pillow Block Bearings igubal® KSTM, connection measures like DIN 12240-4 (DIN 648) series K

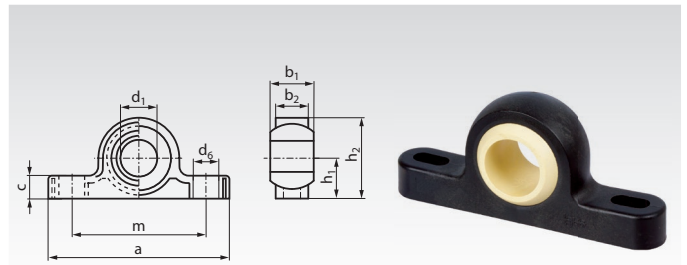
**Material spherical ball:** iglidur® W300, yellowish.

**Material housing:** igamid G, black.



- Maintenance-free, silent running and anti-vibrating.
- High strength at very low weight.
- Resistant against corrosion and many chemicals.
- Electrical and thermal isolating.
- The shaft must rotate inside the bore of the spherical ball. With a metal shaft, a sliding speed up to 30 m/min. may be possible. The spherical ball may only compensate shaft misalignment.

Temperature range: -30° to +80°C.



Ordering Details: e.g.: Product No. 620 550 05, Pillow Block igubal KSTM, 5mm

Product No. KSTM	d <sub>1</sub> <sup>E10</sup> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	b <sub>1</sub> mm	b <sub>2</sub> mm	a mm	m mm	c mm	d <sub>6</sub> mm	Load Rating radial* static N	Load Rating axial static N	Tilting angle α °	Weight g
620 550 05	5	7	14	8	6	34	26,3	4,0	3,3 x 4,6	350	300	30	1,7
620 550 06	6	10	18	9	7	43	34,5	5,5	4,5 x 6,0	550	300	29	2,9
620 550 08	8	10	20	12	9	47	35,5	6,0	4,5 x 7,0	650	400	25	4,6
620 550 10	10	14	26	14	10,5	62	48,5	7,5	5,5 x 8,0	750	500	25	8,6
620 550 12	12	14	28	16	12	65	49,5	8,5	5,5 x 9,0	1100	600	25	11,8
620 550 16	16	18	36	21	15	86	65,4	10,5	6,6 x 12	1500	1000	23	23,7
620 550 20	20	22	44	25	18	98	73	13	9,0 x 14	2350	1300	23	40,0
620 550 25	25	27	54	31	22	124	94	16	9,0 x 17	3300	1600	22	75,3
620 550 30	30	32	64	37	25	139	105	17	11 x 20	4050	2100	22	116,8

\* At short term, the radial load may be twice as high.

*Other versions or sizes on request.*

## Thermoplastic Pillow Block Bearings igubal® ESTM, connection measures like DIN 12240-4 (DIN 648) series E

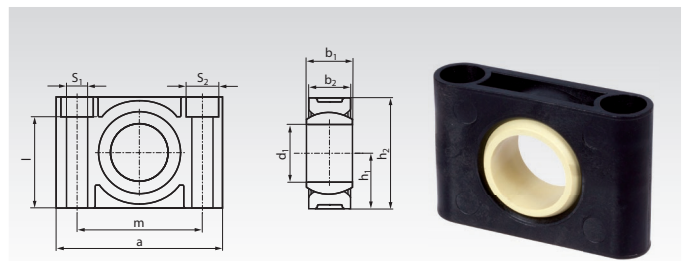
**Material spherical ball:** iglidur® W300, yellowish.

**Material housing:** igamid G, black.



- Maintenance-free, silent running and anti-vibrating.
- High strength at very low weight.
- Resistant against corrosion and many chemicals.
- Electrical and thermal isolating.
- The shaft must rotate inside the bore of the spherical ball. With a metal shaft, a sliding speed up to 30 m/min. may be possible. The spherical ball may only compensate shaft misalignment.

Temperature range: -30° to +80°C.



Ordering Details: e.g.: Product No. 620 551 08, Pillow Block igubal ESTM, 8mm

Product No. ESTM	d <sub>1</sub> <sup>E10</sup> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	b <sub>1</sub> mm	b <sub>2</sub> mm	a mm	m mm	s <sub>1</sub> mm	s <sub>2</sub> mm	l mm	Load rating* radial push static N	Load rating* radial pull static N	Load rating* axial static N	Tilting angle α °	Weight g
620 551 08	8	9,5	19	8	9	31	22	4,5	-	-	2150	1250	300	22	5,0
620 551 10	10	11	22	9	10	36	26	5,5	-	-	2650	1700	350	22	7,1
620 551 12	12	13	26	10	10	38	28	5,5	-	-	3250	2250	375	22	9,0
620 551 16	16	17	34	13	13	50	37	6,6	10,6	27,6	4250	3350	550	22	17,5
620 551 20	20	20	40	16	16	62	46	9	14	31,4	5750	4250	700	22	27,4
620 551 25	25	24	48	20	18	72	54	9	14	39,4	9250	6750	1150	20	50,8
620 551 30	30	28	56	22	22	86	64	11	17	45,4	8250	5000	1250	20	79,7

\* At short term, the load may be twice as high.

*Other versions or sizes on request.*

## Thermoplastic Flange Bearings igubal® EFSM, with 4 Mounting Holes

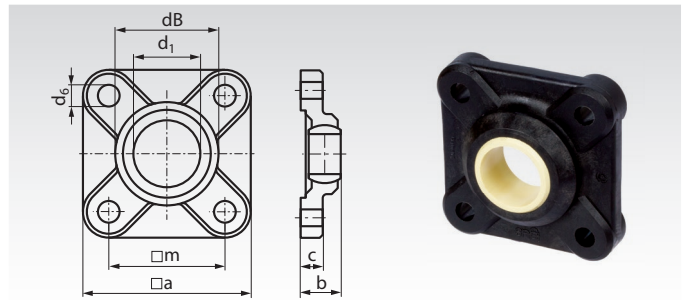
**Material spherical ball:** iglidur® W300, yellowish.

**Material housing:** igumid G, black.



- Maintenance-free, silent running and anti-vibrating.
- High strength at very low weight.
- Resistant against corrosion and many chemicals.
- Electrical and thermal isolating.
- The shaft must rotate inside the bore of the spherical ball. With a metal shaft, a sliding speed up to 30 m/min. may be possible. The spherical ball may only compensate shaft misalignment.

Temperature range: -30° to +80°C.



Ordering Details: e.g.: Product No. 621 550 04, Flange Bearing igubal EFSM, 4mm

Product No. EFSM	d <sub>1</sub> E10 mm	b mm	dB mm	a mm	m <sup>±0,1</sup> mm	c <sup>±0,1</sup> mm	d <sub>6</sub> mm	Load Rating*		Tilting angle α °	Weight g
								radial static N	axial static N		
621 550 04	4	8,5	14	25	17	4,5	3,2	500	100	28	2,6
621 550 05	5	8,5	14	25	17	4,5	3,2	500	150	29	2,7
621 550 06	6	8,5	14	25	17	4,5	3,2	500	150	25	2,8
621 550 08	8	10,5	18	33	22	5,5	4,3	700	225	25	5,9
621 550 10	10	12	21,9	38	26	6,5	5,3	1000	350	25	9,1
621 550 12	12	13	25	40	28	7	5,3	1250	425	21	11
621 550 15	15	15,5	30	49	34	8,5	6,4	1500	550	20	20,2
621 550 16	16	16,5	32	52	36	9	6,4	1600	675	27	23,3
621 550 17	17	18	35	54	38	10	6,4	1700	800	21	27,9
621 550 20	20	20	40	65	45	11	8,4	2000	1000	19	45
621 550 25	25	25	48,5	74	52	14	8,4	2800	1200	15	76
621 550 30	30	26	54,5	85	60	15	10,5	3000	1400	14	101

\* At short term, the load may be twice as high.

*Other versions or sizes on request.*

## Thermoplastic Flange Bearings igubal® EFOM, with 2 Mounting Holes

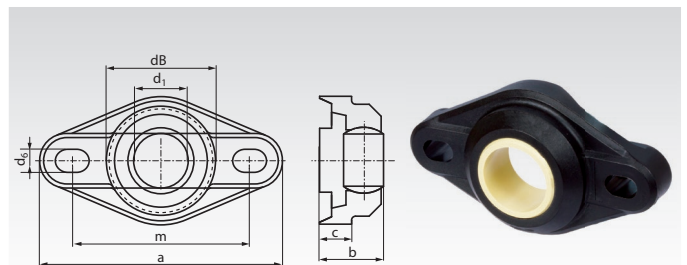
**Material spherical ball:** iglidur® W300, yellowish.

**Material housing:** igumid G, black.



- Maintenance-free, silent running and anti-vibrating.
- High strength at very low weight.
- Resistant against corrosion and many chemicals.
- Electrical and thermal isolating.
- The shaft must rotate inside the bore of the spherical ball. With a metal shaft, a sliding speed up to 30 m/min. may be possible. The spherical ball may only compensate shaft misalignment.

Temperature range: -30° to +80°C.



Ordering Details: e.g.: Product No. 621 551 04, Flange Bearing igubal EFOM, 8mm

Product No. EFOM	d <sub>1</sub> E10 mm	b mm	dB mm	a mm	h mm	m <sup>±0,1</sup> mm	c mm	d <sub>6</sub> mm	Load Rating*		Tilting angle α °	Weight g
									radial static N	axial static N		
621 551 04	4	8	14	33,8	16	24	4,5	3,2 x 5,0	375	200	28	1,9
621 551 05	5	8,5	14	33,8	16	24	4,5	3,2 x 5,0	375	200	29	2,3
621 551 06	6	8,5	14	33,8	16	24	4,5	3,2 x 5,0	400	250	25	1,8
621 551 08	8	10,5	18	44,2	22	31	5,5	4,3 x 6,5	550	350	25	4,1
621 551 10	10	12	22,2	52	26	36	6,5	5,3 x 8,0	1000	425	25	6,8
621 551 12	12	13	25	56,7	31	41	7	5,3 x 8,0	1100	550	21	8,9
621 551 15	15	15,5	29,8	68,6	36	50	8,5	6,4 x 10,0	1200	650	20	15,0
621 551 16	16	17,5	32	72,6	38	53	10	6,4 x 10,1	1400	700	27	17,7
621 551 17	17	18	34,8	74,6	41	55	10	6,4 x 10,2	1600	900	21	24,9
621 551 20	20	20	40	89	47	65	11	8,4 x 12,5	2750	900	19	32,8
621 551 25	25	25	48,5	101	58,5	75	14	8,4 x 12,6	3000	1500	15	58,5
621 551 30	30	26	55	118	65	87,5	15	10,5 x 16,0	3250	1750	14	78,9

\* At short term, the load may be twice as high.

*Other versions or sizes on request.*

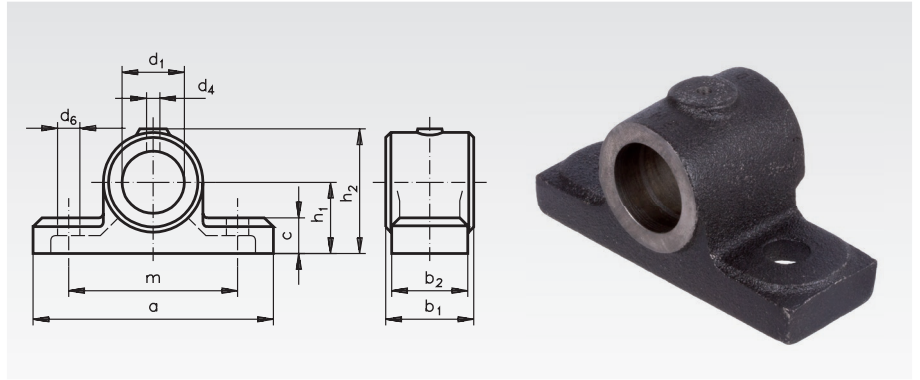
## Light-Duty Pillow Block Bearings HM

Material: Grey Cast Iron.

Bore tolerance: ISO D9.

Front faces machined.

With Bores for Drive-In Oiler



Ordering Details: e.g.: Product No. 620 015 00,  
Pillow Block Bearing HM, 15 mm Bore

Product No.	d <sub>1</sub> mm	h <sub>1</sub> * mm	h <sub>2</sub> * mm	b <sub>1</sub> mm	a mm	b <sub>2</sub> * mm	m mm	c mm	d <sub>6</sub> * mm	d <sub>4</sub> mm	Weight kg
620 015 00	15	30	51	42	95	35	65	18,5	9x14**	5	0,6
620 020 00	20	30	51	42	95	35	65	18,5	9x14**	5	0,5
620 025 00	25	35	61	50	116	40	74	17,5	13	5	0,66
620 030 00	30	35	61	50	116	40	74	17,5	15	5	0,57
620 035 00	35	43	77	55	130	45	85	24	17	6	1,2
620 040 00	40	48	81	63	145	50	95	24	18	6	1,4

\* Approx. dimensions (rough cast surfaces).

\*\* Slot hole.

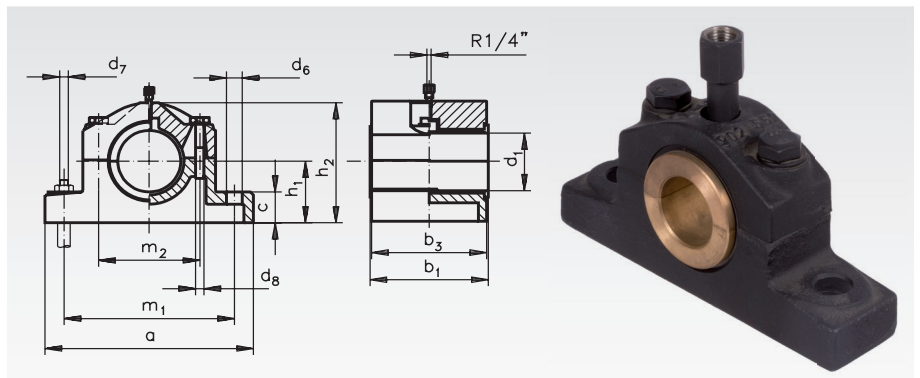
## Cap Bearings DIN 505 Version L, with Red Brass Bush

Material: Grey Cast Iron.

Bush Rg7 (G-CuSn7ZnPb).

Bore Tolerance: ISO D10.

For compression lubricators type Stauffer.



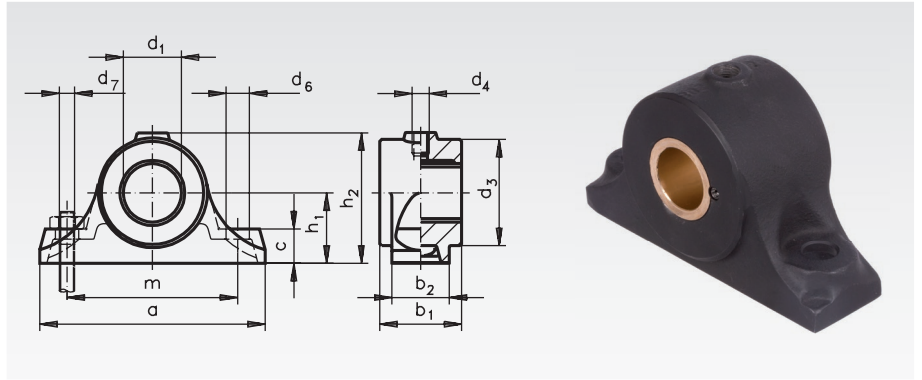
Ordering Details: e.g.: Product No. 620 325 00,  
Cap Bearing DIN 505, 25 mm Bore

Product No.	d <sub>1</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	b <sub>1</sub> mm	a mm	b <sub>3</sub> mm	c mm	d <sub>6</sub> mm	d <sub>7</sub> mm	d <sub>8</sub> mm	m <sub>1</sub> mm	m <sub>2</sub> mm	Weight kg
620 325 00	25	40	78	45	165	40	22	15	M12	M10	125	65	1,6
620 330 00	30	40	78	45	165	40	22	15	M12	M10	125	65	1,6
620 335 00	35	50	95	50	180	45	25	15	M12	M10	140	75	2,25
620 340 00	40	50	95	50	180	45	25	15	M12	M10	140	75	2,25
620 345 00	45	60	114	55	210	50	30	19	M16	M12	160	90	3,25
620 350 00	50	60	114	55	210	50	30	19	M16	M12	160	90	3,25
620 360 00	60	70	132	60	225	55	35	19	M16	M12	175	100	4,35
620 370 00	70	80	154	65	270	60	40	24	M20	M16	210	120	7,1
620 380 00	80	90	170	75	290	70	45	24	M20	M16	230	130	10,2

Compression lubricators page 586.

## Heavy-Duty Pillow Block Bearings DIN 504 Design A, with Red Brass Bush

Material: Grey Cast Iron.  
 Bush Rg7 (G-CuSn7ZnPb).  
 Bore Tolerance: ISO D10.  
 For compression lubricators type Stauffer.

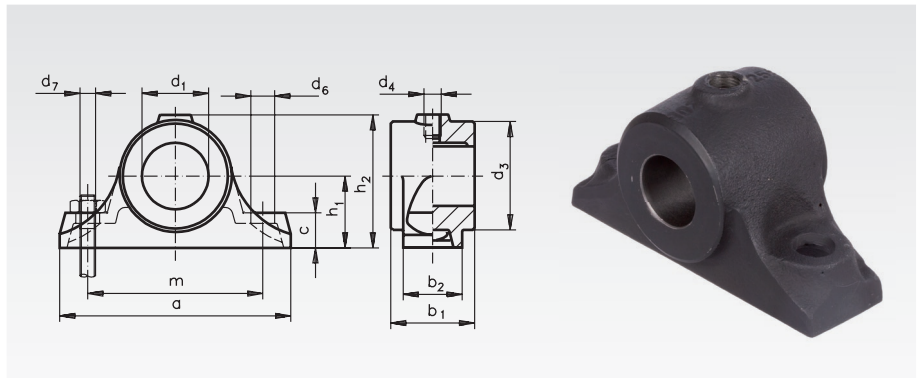


Ordering Details: e.g.: Product No. 620 130 00,  
 Pillow Block Bearing DIN 504 A, 30 mm Bore

Product No.	d <sub>1</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> max. mm	b <sub>1</sub> mm	d <sub>3</sub> mm	a mm	b <sub>2</sub> mm	c mm	m mm	d <sub>6</sub> mm	d <sub>7</sub> mm	d <sub>4</sub> inch	Weight kg
620 130 00	30	50	95	60	80	160	45	25	120	15	M12	R 1/4"	3
620 140 00	40	60	110	70	90	190	50	30	140	19	M16	R 1/4"	4,2
620 150 00	50	70	125	80	100	220	55	35	160	24	M20	R 1/4"	5,5
620 160 00	60	80	145	90	120	240	60	35	180	24	M20	R 1/4"	8,3
620 170 00	70	90	165	100	140	270	70	45	210	28	M24	R 1/4"	11,6
620 180 00	80	100	185	100	160	300	80	45	240	28	M24	R 1/4"	17

## Heavy-Duty Pillow Block Bearings DIN 504 Design B, without Bush

Material: Grey Cast Iron.  
 Bore Tolerance: ISO D7.  
 For compression lubricators type Stauffer.



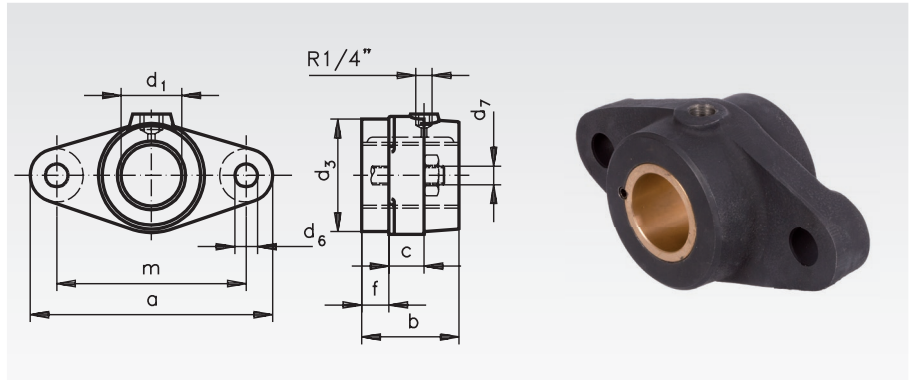
Ordering Details: e.g.: Product No. 620 220 00,  
 Pillow Block Bearing DIN 504 B, 20 mm Bore

Product No.	d <sub>1</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> max. mm	b <sub>1</sub> mm	d <sub>3</sub> mm	a mm	b <sub>2</sub> mm	c mm	m mm	d <sub>6</sub> mm	d <sub>7</sub> mm	d <sub>4</sub> inch	Weight kg
620 220 00	20	30	56	50	45	110	35	18	75	12	M10	R 1/4"	1,3
620 225 00	25	40	75	60	60	140	40	25	100	15	M12	R 1/4"	2
620 230 00	30	40	75	60	60	140	40	25	100	15	M12	R 1/4"	2
620 235 00	35	50	95	60	80	160	45	25	120	15	M12	R 1/4"	3
620 240 00	40	50	95	60	80	160	45	25	120	15	M12	R 1/4"	3
620 245 00	45	60	110	70	90	190	50	30	140	19	M16	R 1/4"	4,2
620 250 00	50	60	110	70	90	190	50	30	140	19	M16	R 1/4"	4,2
620 260 00	60	70	125	80	100	220	55	35	160	24	M20	R 1/4"	5,5
620 270 00	70	80	145	90	120	240	60	35	180	24	M20	R 1/4"	8,3
620 280 00	80	90	165	100	140	270	70	45	210	28	M24	R 1/4"	11,6

Compression lubricators (type Stauffer) page 586.

### Flange Bearings DIN 502 Design A, with Red Brass Bush

Material: Grey Cast Iron.  
 Bush Rg7 (G-CuSn7ZnPb).  
 Bore Tolerance: ISO D10.  
 For compression lubricators type Stauffer.

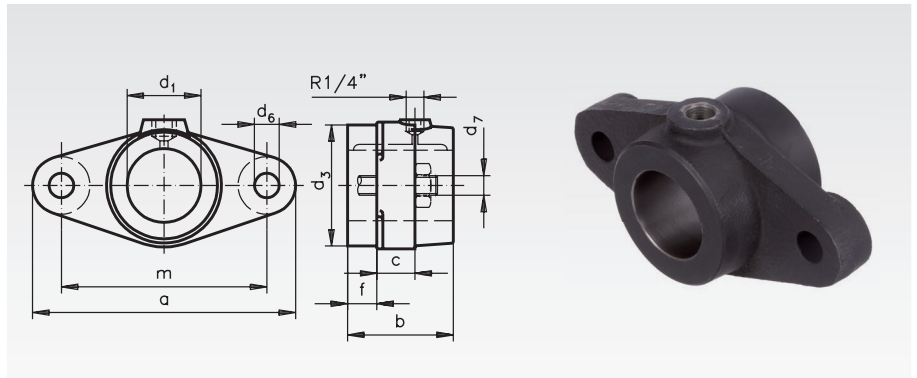


Ordering Details: e.g.: Product No. 621 025 00,  
 Flange Bearing DIN 502 A, 25 mm Bore

Product No.	d <sub>1</sub> mm	b mm	d <sub>3</sub> <sup>h9</sup> mm	f mm	a mm	c mm	m mm	d <sub>6</sub> mm	d <sub>7</sub> mm	Weight kg
621 025 00	25	60	65	20	155	20	120	14	M12	1,4
621 030 00	30	60	65	20	155	20	120	14	M12	1,4
621 040 00	40	70	80	20	180	25	140	18	M16	3
621 050 00	50	80	90	20	210	30	160	22	M20	4,2

### Flange Bearings DIN 502 Design B, without Bush

Material: Grey Cast Iron.  
 Bore Tolerance: ISO D7.  
 For compression lubricators type Stauffer

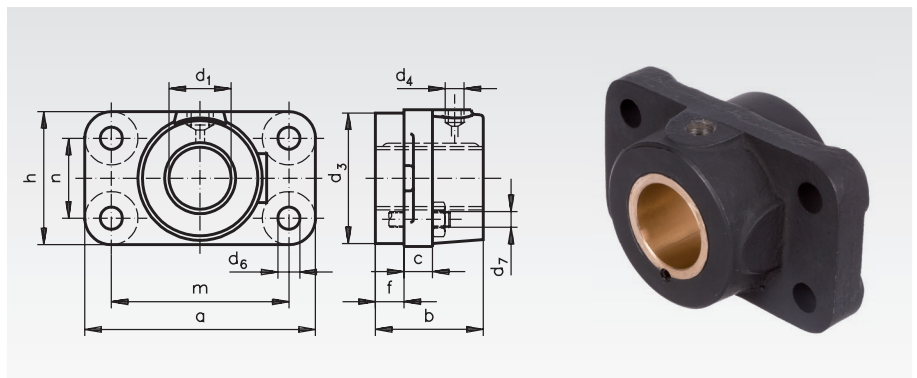


Ordering Details: e.g.: Product No. 621 125 00, Flange  
 bearing DIN 502 B, 25 mm Bore

Product No.	d <sub>1</sub> mm	b mm	d <sub>3</sub> <sup>h9</sup> mm	f mm	a mm	c mm	m mm	d <sub>6</sub> mm	d <sub>7</sub> mm	Weight kg
621 125 00	25	60	50	20	135	20	100	14	M12	1,2
621 130 00	30	60	50	20	135	20	100	14	M12	1,2
621 135 00	35	60	65	20	155	20	120	14	M12	1,4
621 140 00	40	60	65	20	155	20	120	14	M12	1,4

### Flange Bearing DIN 503 Design A, with Red Brass Bush

Material: Grey Cast Iron.  
 Bush Rg7 (G-CuSn7ZnPb).  
 Bore Tolerance: ISO D10.  
 For compression lubricators type Stauffer.



Ordering Details: e.g.: Product No. 621 240 00,  
 Flange Bearing DIN 503 A, 40 mm Bore

Product No.	d <sub>1</sub> mm	b mm	d <sub>3</sub> <sup>h9</sup> mm	f mm	a mm	h mm	c mm	m mm	n mm	d <sub>6</sub> mm	d <sub>7</sub> mm	d <sub>4</sub> inch	Weight kg
621 240 00	40	70	80	20	145	85	20	110	50	14	M12	R 1/4"	3,1
621 250 00	50	80	100	20	175	105	25	130	60	18	M16	R 1/4"	5,5
621 260 00	60	90	120	25	195	125	25	150	80	18	M16	R 1/4"	8,1
621 270 00	70	100	140	25	220	150	30	170	100	22	M20	R 1/4"	12,2
621 280 00	80	100	160	30	240	170	30	190	120	22	M20	R 1/4"	14,9

Adjusting rings and clamping collars page 452.

Silver steel and precision shafts steel page 478.  
 Compression lubricators page 586.

- Bearings:** The inside diameters correspond with the standard dimensions of the 6200 series bearings. The outer ring is spherical and allows an angular misalignment of +/- 2°.
- Maintenance:** Due to the perfect sealing, all bearing types are usually maintenance free. In special application they can, however be relubricated. See lubrication.
- Housings:** The one-part housings are made from massive grey cast iron and the two-part ones are drawn from steel sheet. The grey cast iron housings are that rigidly built, that the full load capacity of the bearing can be used.
- Temperatures:** Bearings and housings made from cast or steel sheet can be used in continuous operation from -30°C to +100°C. Bearings for higher temperatures on request.
- Materials:** Only high-quality materials are used for housing bearing, housing and all other components.  
**Bearing:** Bearing steel 100Cr6  
**Cast housing:** GGL20 DIN 1691  
**Sheet-metal housing:** St10-03 DIN 1623  
**Seal:** synth. nitrile rubber (NBR)
- Mounting on the shaft:** The housing bearings are supplied with longer inner ring and adjusting screw. The fixation on the shaft depends on the effective axial shifting force of the inner ring. The stability mainly depends on the quality and the tolerance zone of of the shaft. To facilitate the assembly, the inner rings are - other than the norm - produced with a plus tolerance.
- Sealing:** All housing bearings are supplied with an efficient, heat and oil resistant rubber seal. The constructive design of the seal varies with the different bearing types.

**Tolerances of roller bearings:**

Nominal Ø of Bore d <sup>H7</sup> mm	Tol. of Bore d µm	Inner Ring Bi µm	Nominal Ø of Outer Rings D mm	Outer Rings D µm
10 - 18	+ 18 0	0 - 120	50 - 80	0 - 13
18 - 30	+ 21 0	0 - 120	80 - 120	0 - 15
30 - 50	+ 25 0	0 - 120	120 - 150	0 - 18

**Tolerances of Cast Housings according to DIN 1686:**

Nominal Ø of Bore d mm	P h mm	F i mm	Tolerances of the Connecting Dimensions		
			FL FA e mm	k mm	T e mm
12 - 50	± 0,15	± 0,5	± 0,7	+ 0,2	- 0,5

**Lubrication:** All housing bearings are filled with a high-grade lithium-soap grease. In most mounting situations this lubricant-filling guarantees maintenance-free operation. In especially robust operating conditions with higher loads, speeds, temperatures, dirt etc. relubricating at shorter intervals may be required, depending on the application.

For relubrication we recommend using lithium-based grease. Under no circumstances use soda saponification.

**Load bearing rating:** The radial static and dynamic load bearing ratings are stated at the individual bearings (axial = 20% of radial).

**Speed and load:** The permissible speed is directly connected to the load and the play at bearing bore and shaft diameterer



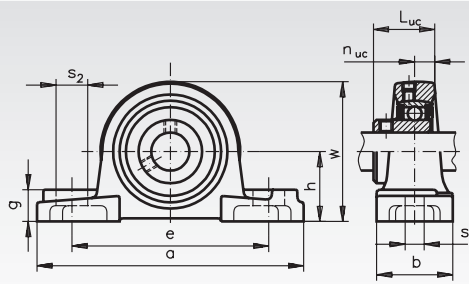
## Ball Pillow Block Bearings TUCP, Thermoplastic Housing with Stainless Steel Bearing

Material: Housing: Thermoplast PBT, on choice black or white.

Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Delivery with stainless steel grease nipple.



Ordering Details: e.g.: Product No. 625 551 12, Ball Pillow Block Bearing TUCP 201, black, Bore 12mm

Product No. Black	Product No. White	TUCP No.	Bore mm	h mm	a mm	e mm	b mm	s <sub>1</sub> mm	s <sub>2</sub> mm	g mm	w mm	L <sub>UC</sub> mm	n <sub>UC</sub> mm	Housing Load Rating		Weight kg
														radial*	axial**	
625 551 12	625 561 12	201	12	33,3	127	95	38	11	14	14,2	65,5	31,0	12,7	7,7	5,0	0,30
625 551 15	625 561 15	202	15	33,3	127	95	38	11	14	14,2	65,5	31,0	12,7	7,7	5,0	0,30
625 551 17	625 561 17	203	17	33,3	127	95	38	11	14	14,2	65,5	31,0	12,7	7,7	5,0	0,30
625 551 20	625 561 20	204	20	33,3	127	95	38	11	14	14,2	65,5	31,0	12,7	7,7	5,0	0,28
625 551 25	625 561 25	205	25	36,5	140,5	105	38	11	14	14,5	71,0	34,0	14,3	10,0	8,1	0,34
625 551 30	625 561 30	206	30	42,9	163	119	46	14	18	17,8	84,0	38,1	15,9	10,6	5,8	0,52
625 551 35	625 561 35	207	35	47,6	170	127	48	14	18	18,0	94,5	42,9	17,5	10,8	7,5	0,73
625 551 40	625 561 40	208	40	49,2	184	137	54	14	18	19,5	99,0	49,2	19,0	11,1	8,5	1,00
625 551 45	625 561 45	209	45	54,0	192	146	54	17	20	23,0	106,0	49,2	19,0	11,4	9,0	1,15
625 551 50	625 561 50	210	50	57,2	206	159	60	17	20	23,0	114,0	51,6	19,0	11,8	9,6	1,34

\* Maximum radial load if axial force = 0.

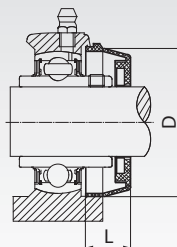
\*\* Maximum axial load if radial force = 0.

## Protection Caps for Thermoplastic Pillow Bearings TUCP, TUCF and TUCFL

Material: Thermoplast PBT, on choice black or white.

Open Design with sealing for shaft side or closed design.

The caps fit only on the one bearing side with the setscrews. They can get clipped on by hand by the customer.



Ordering Details: e.g.: Product No. 625 552 20, Protection Cap, black, Open Design, for Bearing Size 204

Product No. Black	Product No. White	Design	for bearing size	Bore mm	Ø D mm	Length L mm	Weight g
625 552 20	625 562 20	open	204	20	50	23	10
625 552 25	625 562 25	open	205	25	55	25	15
625 552 30	625 562 30	open	206	30	64	30	20
625 552 35	625 562 35	open	207	35	74,5	32	20
625 552 40	625 562 40	open	208	40	84	37	30
625 552 45	625 562 45	open	209	45	89	41	30
625 552 50	625 562 50	open	210	50	94	47	35
625 553 20	625 563 20	closed	201 - 204	-	50	23	10
625 553 25	625 563 25	closed	205	-	55	25	10
625 553 30	625 563 30	closed	206	-	64	30	15
625 553 35	625 563 35	closed	207	-	74,5	32	20
625 553 40	625 563 40	closed	208	-	84	37	30
625 553 45	625 563 45	closed	209	-	89	41	30
625 553 50	625 563 50	closed	210	-	94	47	35



## Ball Flange Bearings TUCF, Thermoplastic Housing with Stainless Steel Bearing

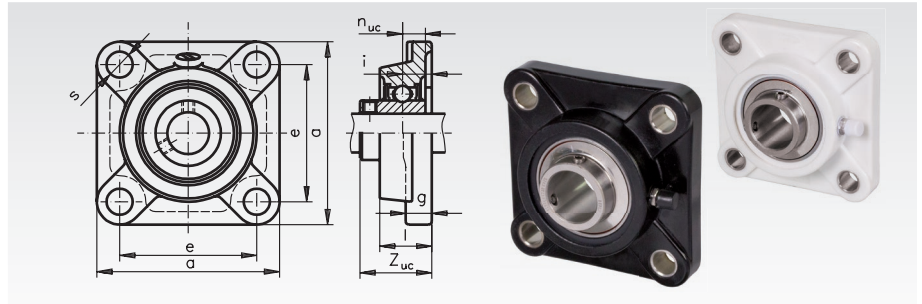
**Material:** Housing: Thermoplast PBT, on choice black or white.  
 Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).



With 4 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Delivery with stainless steel grease nipple.



Ordering Details: e.g.: Product No. 626 550 17, Ball Flange Bearing TUCF 203, black, Bore 17mm

Product No. Black	Product No. White	TUCF No.	Bore mm	a mm	e mm	i mm	g mm	l mm	s mm	Z <sub>uc</sub> mm	n <sub>uc</sub> mm	Housing Load Rating radial* kN	axial** kN	Weight kg
626 550 12	626 560 12	201	12	86	63,5	18	13,4	27,8	11	36,3	12,7	16	3,7	0,30
626 550 15	626 560 15	202	15	86	63,5	18	13,4	27,8	11	36,3	12,7	16	3,7	0,30
626 550 17	626 560 17	203	17	86	63,5	18	13,4	27,8	11	36,3	12,7	16	3,7	0,30
626 550 20	626 560 20	204	20	86	63,5	18	13,4	27,8	11	36,3	12,7	16	3,7	0,28
626 550 25	626 560 25	205	25	95	70	17	14,0	28,0	11	36,7	14,3	13	3,4	0,35
626 550 30	626 560 30	206	30	107	83	19,2	14,3	31,5	11	41,4	15,9	18	3,4	0,50
626 550 35	626 560 35	207	35	118	92	21,5	15,5	34,8	13	46,9	17,5	18,5	3,5	0,74
626 550 40	626 560 40	208	40	130	102	23	17,0	37,5	14	53,2	19	19,1	3,8	0,98
626 550 45	626 560 45	209	45	137	105	24	19,0	41,0	17	54,2	19	19,4	3,9	1,12
626 550 50	626 560 50	210	50	143	111	25	21,0	43,0	17	57,6	19	19,7	4,0	1,30

\* Maximum radial load if axial force = 0.

\*\* Maximum axial load if radial force = 0.

## Ball Flange Bearings TUCFL, Thermoplastic Housing with Stainless Steel Bearing

**Material:** Housing: Thermoplast PBT, on choice black or white.

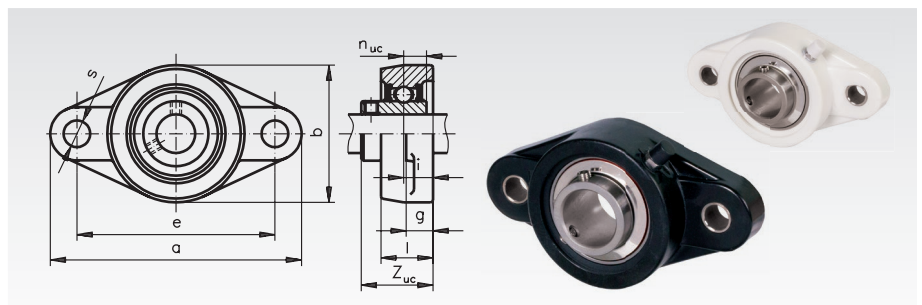
Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).



With 2 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Delivery with stainless steel grease nipple.



Ordering Details: e.g.: Product No. 626 551 17, Ball Flange Bearing TUCFL 203, black, Bore 17mm

Product No. Black	Product No. White	TUCFL No.	Bore mm	a mm	b mm	e mm	i mm	g mm	l mm	s mm	Z <sub>uc</sub> mm	n <sub>uc</sub> mm	Housing Load Rating* kN		Weight kg
													vertical	horizontal	
626 551 12	626 561 12	201	12	113	65	90	15,4	11,4	26,5	11	31	12,7	8,5	11,8	0,26
626 551 15	626 561 15	202	15	113	65	90	15,4	11,4	26,5	11	31	12,7	8,5	11,8	0,26
626 551 17	626 561 17	203	17	113	65	90	15,4	11,4	26,5	11	31	12,7	8,5	11,8	0,26
626 551 20	626 561 20	204	20	113	65	90	15,4	11,4	26,5	11	31	12,7	8,5	11,8	0,24
626 551 25	626 561 25	205	25	131	69,5	99	17	13,5	29,1	11	34	14,3	11,1	11,4	0,30
626 551 30	626 561 30	206	30	148	80	117	19	13,3	30,5	11	38,1	15,9	14,2	16,5	0,45
626 551 35	626 561 35	207	35	164	90	130	18	16,1	32,8	13	42,9	17,5	14,9	16,9	0,64
626 551 40	626 561 40	208	40	176	100	144	21,5	20	37,5	14	49,2	19	15,2	17,4	0,89
626 551 45	626 561 45	209	45	188	108	148	24	21	41	17	49,2	19	15,4	17,6	1,02
626 551 50	626 561 50	210	50	197	115	157	25	21	43	17	51,6	19	15,7	18,0	1,21

\* Not recommended for axial force.

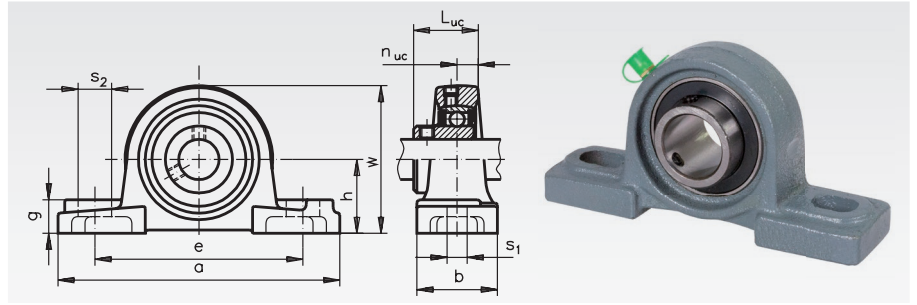
## Ball Pillow Block Bearings UCP (Grey Cast Iron)

**Material:** Housing from grey cast iron.  
Rolling bearing from bearing steel.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Technical explanations page 423.

Delivery with grease nipple.



Ordering Details: e.g.: Product No. 625 112 00, Ball Pillow Block Bearing UCP 201, Bore 12mm

Product No.	UCP No.	Bore mm	h mm	a mm	e mm	b mm	s <sub>1</sub> mm	s <sub>2</sub> mm	g mm	w mm	L <sub>uc</sub> mm	n <sub>uc</sub> mm	Bearing-Load Rating*		Weight kg
													dyn. C kN	stat. C <sub>0</sub> kN	
625 112 00	201	12	30,2	127	96	38	13	19	15	62	31	12,7	9,9	6,2	0,61
625 115 00	202	15	30,2	127	96	38	13	19	15	62	31	12,7	9,9	6,2	0,61
625 117 00	203	17	30,2	127	96	38	13	19	15	62	31	12,7	9,9	6,0	0,61
625 120 00	204	20	33,3	127	96	38	13	19	15	65	31	12,7	9,9	6,0	0,65
625 125 00	205	25	36,5	140	105	38	13	19	16	70	34	14,3	10,8	7,0	0,79
625 130 00	206	30	42,9	165	121	48	17	21	18	83	38,1	15,9	15,1	10,0	1,27
625 135 00	207	35	47,6	167	126	48	17	21	19	92	42,9	17,5	19,9	13,7	1,56
625 140 00	208	40	49,2	184	136	54	17	21	19	98	49,2	19	22,6	15,7	1,97
625 145 00	209	45	54	190	146	54	17	21	20	106	49,2	19	25,2	17,8	2,27
625 150 00	210	50	57,2	206	159	58	20	25	22	112	51,6	19	27,1	19,7	2,70

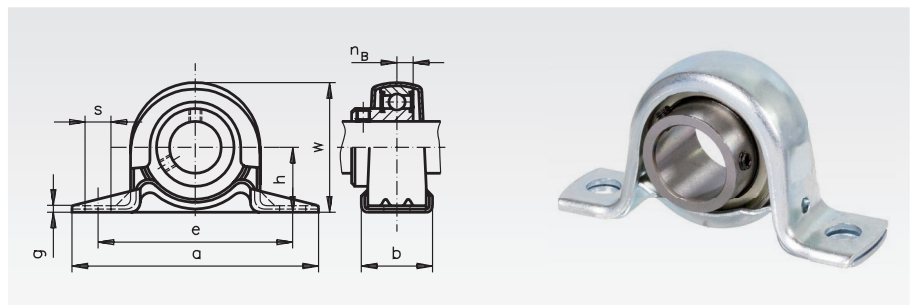
\* Maximum radial load if axial force = 0. The axial load rating is approx. 20% of the radial load rating.

## Ball Pillow Block Bearings BPP (Two-Part Steel Sheet, Zinc-Plated)

**Material:** Housing from two-part steel sheets, zinc-plated. Rolling bearing from bearing steel.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is not possible.

Technical explanations page 423.



Ordering Details: e.g.: Product No. 625 212 00, Ball Pillow Block Bearing BPP 201, Bore 12mm

Product No.	BPP No.	Bore mm	h mm	a mm	e mm	b mm	s mm	g mm	w mm	n <sub>B</sub> mm	Permissible Housing Load kN	Bearing-Load Rating*		Weight kg
												dyn. C kN	stat. C <sub>0</sub> kN	
625 212 00	201	12	22,2	86	68	25	9,5	3,5	43,8	6	2,16	7,4	4,5	0,16
625 215 00	202	15	22,2	86	68	25	9,5	3,5	43,8	6	2,16	7,4	4,5	0,16
625 217 00	203	17	22,2	86	68	25	9,5	3,5	43,8	6	2,16	7,4	4,5	0,16
625 220 00	204	20	25,4	99	76	32	9,5	3,5	50,5	7	2,62	9,9	6,2	0,23
625 225 00	205	25	28,6	108	86	32	11,5	4	56,6	7,5	3,72	10,8	7,0	0,28
625 230 00	206	30	33,3	119	95	38	11,5	4	66,3	8	4,41	15,1	10,0	0,47
625 235 00	207	35	39,7	130	106	42	11	5	78	8,5	4,90	19,9	13,7	0,60

\* Maximum radial load if axial force = 0. Regard the housing load. The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings UCF (Grey Cast Iron)

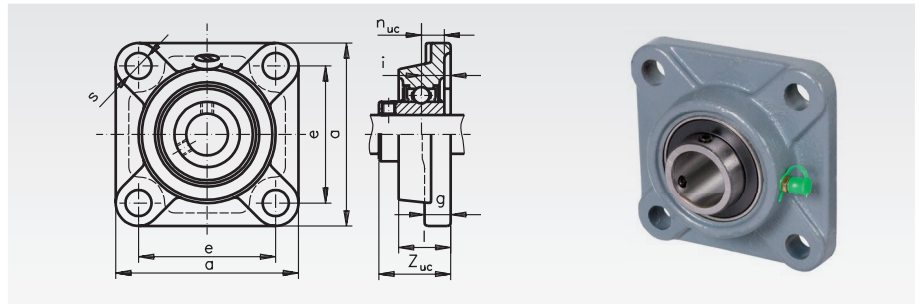
**Material:** Housing from grey cast iron.  
Rolling bearing from bearing steel.

With 4 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Technical explanations page 423.

Delivery with grease nipple.



Ordering Details: e.g.: Product No. 626 012 00, Ball Flange Bearing UCF 201, Bore 12mm

Product No.	UCF No.	Bore mm	a mm	e mm	i mm	g mm	l mm	s mm	Z <sub>uc</sub> mm	n <sub>uc</sub> mm	Bearing-Load Rating*		Weight kg
											dyn. C kN	stat. C <sub>0</sub> kN	
626 012 00	201	12	86	64	15	12	25,5	12	33,3	12,7	9,9	6,2	0,62
626 015 00	202	15	86	64	15	12	25,5	12	33,3	12,7	9,9	6,2	0,62
626 017 00	203	17	86	64	15	12	25,5	12	33,3	12,7	9,9	6,2	0,62
626 020 00	204	20	86	64	15	12	25,5	12	33,3	12,7	9,9	6,2	0,59
626 025 00	205	25	95	70	16	14	27	12	35,7	14,3	10,8	7,0	0,82
626 030 00	206	30	108	83	18	14	31	12	40,2	15,9	15,1	10,0	1,00
626 035 00	207	35	117	92	19	16	34	14	44,4	17,5	19,9	13,7	1,40
626 040 00	208	40	130	102	21	16	36	16	51,2	19	22,6	15,7	2,00
626 045 00	209	45	137	105	22	18	38	16	52,2	19	25,2	17,8	2,20
626 050 00	210	50	143	111	22	18	40	16	54,6	19	27,1	19,7	2,40

\* Maximum radial load if axial force = 0. The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings UCFL (Grey Cast Iron)

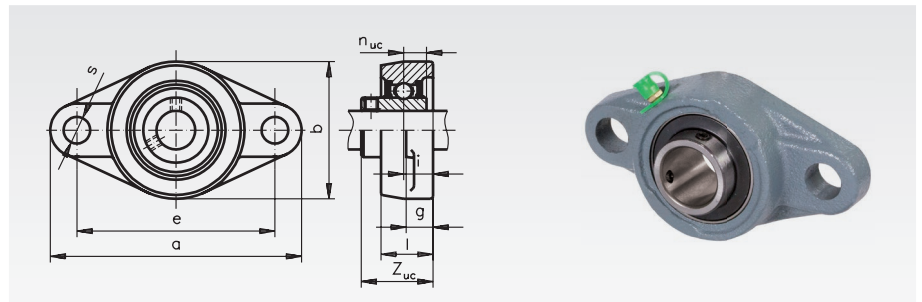
**Material:** Housing from grey cast iron.  
Rolling bearing from bearing steel.

With 2 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Technical explanations page 423.

Delivery with grease nipple.



Ordering Details: e.g.: Product No. 626 112 00, Ball Flange Bearing UCFL 201, Bore 12mm

Product No.	UCFL No.	Bore mm	a mm	b mm	e mm	i mm	g mm	l mm	s mm	Z <sub>uc</sub> mm	n <sub>uc</sub> mm	Bearing-Load Rating*		Weight kg
												dyn. C kN	stat. C <sub>0</sub> kN	
626 112 00	201	12	113	60	90	15	11	25,5	12	33,3	12,7	9,9	6,2	0,48
626 115 00	202	15	113	60	90	15	11	25,5	12	33,3	12,7	9,9	6,2	0,48
626 117 00	203	17	113	60	90	15	11	25,5	12	33,3	12,7	9,9	6,2	0,48
626 120 00	204	20	113	60	90	15	11	25,5	12	33,3	12,7	9,9	6,2	0,45
626 125 00	205	25	130	68	99	16	13	27	16	35,7	14,3	10,8	7,0	0,60
626 130 00	206	30	148	80	117	18	13	31	16	40,2	15,9	15,1	10,0	0,90
626 135 00	207	35	161	90	130	19	14	34	16	44,4	17,5	19,9	13,7	1,20
626 140 00	208	40	175	100	144	21	14	36	16	51,2	19	22,6	15,7	1,60
626 145 00	209	45	188	108	148,5	22	15	38	19	52,2	19	25,2	17,8	1,90
626 150 00	210	50	197	115	157	22	15	40	19	54,6	19	27,1	19,7	2,20

\* Maximum radial load if axial force = 0. The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings UCFA (Grey Cast Iron)

**Material:** Housing from grey cast iron.

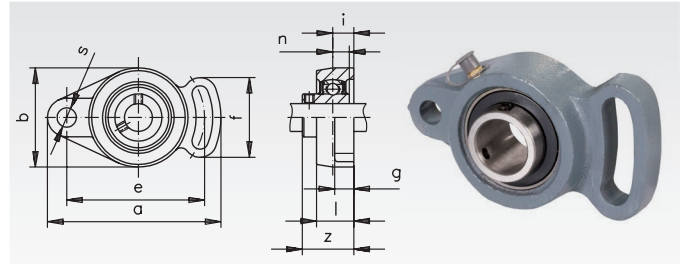
Rolling bearing from bearing steel.

With 2 mounting holes, one of them slotted.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible. Technical explanations page 423.

Delivery with grease nipple.

Ordering Details: e.g.: Product No. 626 312 00, Ball Flange Bearing UCFA 201, Bore 12mm



Product No.	UCFA No.	Bore mm	a mm	b mm	e mm	i mm	g mm	l mm	s mm	f mm	Z <sub>uc</sub> mm	n <sub>uc</sub> mm	Bearing-Load Rating*		Weight kg
													dyn. C kN	stat. C <sub>0</sub> kN	
626 312 00	201	12	98	60	78	15	11	25,5	10	50	33,3	12,7	9,9	6,2	0,47
626 315 00	202	15	98	60	78	15	11	25,5	10	50	33,3	12,7	9,9	6,2	0,47
626 317 00	203	17	98	60	78	15	11	25,5	10	50	33,3	12,7	9,9	6,2	0,47
626 320 00	204	20	98	60	78	15	11	25,5	10	50	33,3	12,7	9,9	6,2	0,47
626 325 00	205	25	124	70	98	16	13	27	12	65	35,7	14,3	10,8	7,0	0,68
626 330 00	206	30	141	83	117	18	13	31	12	72	40,2	15,9	15,1	10,0	1,00
626 335 00	207	35	155	96	130	19	14	34	14	82	44,2	17,5	19,9	13,7	1,50
626 340 00	208	40	171	105	144	21	14	38	14	87	50,2	19	22,6	15,7	1,90
626 345 00	209	45	179	111	148	22	14	40	16	90	52,2	19	25,2	17,8	2,03
626 350 00	210	50	189	116	157	22	14	40	16	94	54,6	19	27,1	19,7	2,38

\* Maximum radial load if axial force = 0. The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings BPF (Two-Part Steel Sheet, Zinc Plated)

**Material:** Housing from two-part steel sheets, zinc-plated.

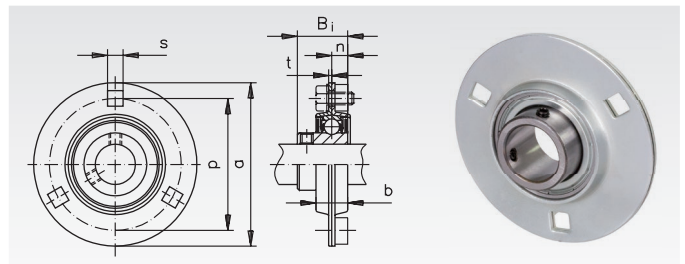
Rolling bearing from bearing steel.

With 3 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is not possible.

Technical explanations page 423.

Ordering Details: e.g.: Product No. 626 412 00, Ball Flange Bearing BPF 201, Bore 12mm



Product No.	BPF No.	Bore mm	a mm	p mm	t mm	b mm	s mm	B <sub>i</sub> mm	n mm	Permissible Housing Load kN	Bearing-Load Rating*		Weight kg
											dyn. C kN	stat. C <sub>0</sub> kN	
626 412 00	201	12	81	63,5	2	14	7,1	22	6	2,65	7,4	4,5	0,27
626 415 00	202	15	81	63,5	2	14	7,1	22	6	2,65	7,4	4,5	0,27
626 417 00	203	17	81	63,5	2	14	7,1	22	6	2,65	7,4	4,5	0,27
626 420 00	204	20	90	71,5	2	16	9	25	7	3,09	9,9	6,2	0,33
626 425 00	205	25	95	76	2	18	9	27	7,5	3,53	10,8	7,0	0,38
626 430 00	206	30	113	90,5	2,6	19	11	30	8	4,90	15,1	10,0	0,62
626 435 00	207	35	122	100	2,6	22	11	32	8,5	6,23	19,9	13,7	0,82

\* Maximum radial load if axial force = 0. Regard the housing load. The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings BPFL (Two-Part Steel Sheet, Zinc-Plated)

**Material:** Housing from two-part steel sheets, zinc-plated.

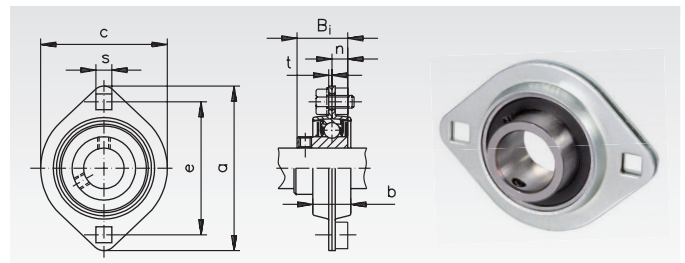
Rolling bearing from bearing steel.

With 2 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is not possible.

Technical explanations page 423.

Ordering Details: e.g.: Product No. 626 512 00, Ball Flange Bearing BPFL 201, Bore 12mm



Product No.	BPFL No.	Bore mm	a mm	e mm	t mm	b mm	c mm	s mm	B <sub>i</sub> mm	n mm	Permissible Housing Load kN	Bearing-Load Rating*		Weight kg
												dyn. C kN	stat. C <sub>0</sub> kN	
626 512 00	201	12	81	63,5	2	14	59	7,1	22	6	2,65	7,4	4,5	0,19
626 515 00	202	15	81	63,5	2	14	59	7,1	22	6	2,65	7,4	4,5	0,19
626 517 00	203	17	81	63,5	2	14	59	7,1	22	6	2,65	7,4	4,5	0,19
626 520 00	204	20	91	71,5	2	16	67	9	25	7	3,09	9,9	6,2	0,24
626 525 00	205	25	96	76,0	2	18	71	9	27	7,5	3,53	10,8	7,0	0,28
626 530 00	206	30	113	90,5	2,6	19	85	11	30	8	4,90	15,1	10,0	0,38
626 535 00	207	35	123	100	2,6	20	94	11	32	8,5	6,23	19,9	13,7	0,58

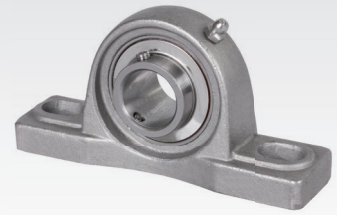
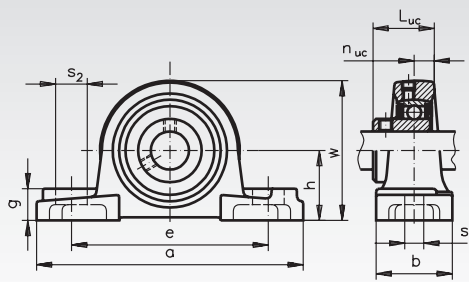
\* Maximum radial load if axial force = 0. Regard the housing load. The axial load rating is approx. 20% of the radial load rating.

## Ball Pillow Block Bearings SSUCP, Stainless Steel

**Material:** Housing: Stainless steel 1.4305 (X5CrNi18-10, AISI 304).  
Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).



The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible. Delivery with stainless steel grease nipple.



Ordering Details: e.g.: Product No. 625 991 12, Ball Pillow Block Bearing SSUCP 201, Bore 12mm

Product No. Stainless	SSUCP No.	Bore mm	h mm	a mm	e mm	b mm	s <sub>1</sub> mm	s <sub>2</sub> mm	g mm	w mm	L <sub>UC</sub> mm	n <sub>UC</sub> mm	Bearing-Load Rating*		Weight kg
													dyn. C kN	stat. C <sub>0</sub> kN	
625 991 12	201	12	30,2	127	95	38	13	19	15	62	31	12,7	12,8	6,7	0,84
625 991 15	202	15	30,2	127	95	38	13	19	15	62	31	12,7	12,8	6,7	0,82
625 991 17	203	17	30,2	127	95	38	13	19	15	62	31	12,7	12,8	6,7	0,81
625 991 20	204	20	33,3	127	95	38	13	19	15	65	31	12,7	12,8	6,7	0,81
625 991 25	205	25	36,5	140	105	38	13	16	16	70	34	14,3	14,0	7,9	0,99
625 991 30	206	30	42,9	163	121	48	17	21	18	83	38,1	15,9	19,5	11,3	1,62
625 991 35	207	35	47,6	167	127	48	17	21	19	94	42,9	17,5	25,7	15,3	2,08
625 991 40	208	40	49,2	184	137	54	17	25	19	100	49,2	19	29,5	18,2	2,65
625 991 45	209	45	54,0	190	146	54	17	22	20	108	49,2	19	31,7	20,7	2,90
625 991 50	210	50	57,2	206	159	60	20	25	22	114	51,6	19	35,1	23,2	2,59

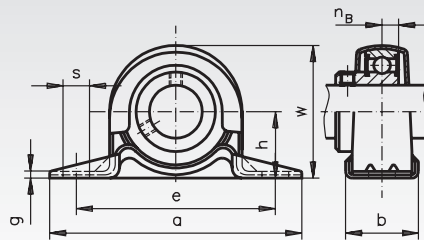
\* Maximum radial load if axial force = 0.  
The axial load rating is approx. 20% of the radial load rating.

## Ball Pillow Block Bearings SSBPP, Two-Part Sheet, Stainless Steel

**Material:** Housing from two-part sheets: Stainless steel 1.4305 (X5CrNi18-10, AISI 304).  
Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).



The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is not possible.



Ordering Details: e.g.: Product No. 625 992 12, Ball Pillow Block Bearing SSBPP 201

Product No.	SSBPP No.	Bore mm	h mm	a mm	e mm	b mm	s mm	g mm	w mm	n <sub>B</sub> mm	Permissible Housing Load kN	Bearing-Load Rating*		Weight kg
												dyn. C kN	stat. C <sub>0</sub> kN	
625 992 12	201	12	22,2	86	68	25	9,5	3,5	43,8	6	2,16	9,6	4,8	0,19
625 992 15	202	15	22,2	86	68	25	9,5	3,5	43,8	6	2,16	9,6	4,8	0,19
625 992 17	203	17	22,2	86	68	25	9,5	3,5	43,8	6	2,16	9,6	4,8	0,19
625 992 20	204	20	25,4	98	76	32	9,5	3,5	50,5	7	2,62	12,9	6,7	0,23
625 992 25	205	25	28,6	108	86	32	11,5	4	56,6	7,5	3,72	14,0	7,9	0,32
625 992 30	206	30	33,3	117	95	38	11,5	4	66,3	8	4,41	19,5	11,3	0,50
625 992 35	207	35	39,7	130	106	42	11	5	78	8,5	4,90	25,7	15,3	0,60

\* Maximum radial load if axial force = 0. Regard the housing load. The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings SSUCF, Stainless Steel

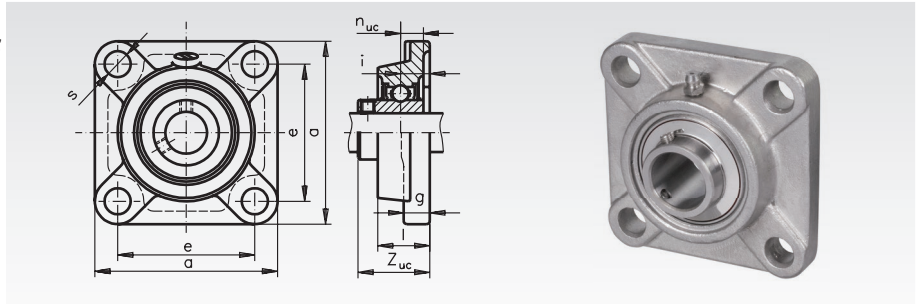
**Material:** Housing: Stainless steel 1.4305 (X5CrNi18-10, AISI 304).  
Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).



With 4 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Delivery with stainless steel grease nipple.



Ordering Details: e.g.: Product No. 626 990 12, Ball Flange Bearing SSUCF 201, Bore 12mm

Product No. Stainless	SSUCF No.	Bore mm	a mm	e mm	i mm	g mm	l mm	s mm	Z <sub>uc</sub> mm	n <sub>uc</sub> mm	Bearing-Load Rating*		Weight kg
											dyn. C kN	stat. C <sub>0</sub> kN	
626 990 12	201	12	86	64	15	12	25,5	12	33,3	12,7	12,8	6,7	0,84
626 990 15	202	15	86	64	15	12	25,5	12	33,3	12,7	12,8	6,7	0,82
626 990 17	203	17	86	64	15	12	25,5	12	33,3	12,7	12,8	6,7	0,81
626 990 20	204	20	86	64	15	12	25,5	12	33,3	12,7	12,8	6,7	0,79
626 990 25	205	25	95	70	16	14	27	12	35,7	14,3	14,0	7,9	1,02
626 990 30	206	30	108	83	18	14	31	12	40,2	15,9	19,5	11,3	1,42
626 990 35	207	35	117	92	19	16	34	14	44,4	17,5	25,7	15,3	1,98
626 990 40	208	40	130	102	21	16	36	16	51,2	19	29,5	18,2	2,55
626 990 45	209	45	137	105	22	18	38	16	52,2	19	31,7	20,7	3,00
626 990 50	210	50	143	111	22	18	40	16	54,6	19	35,1	23,2	3,29

\* Maximum radial load if axial force = 0.  
The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings SSUCFL, Stainless Steel

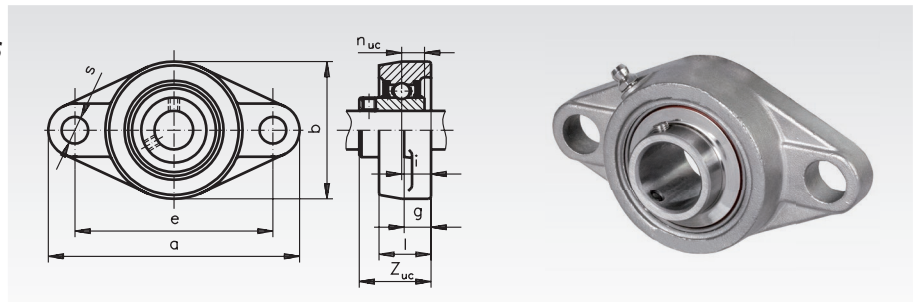
**Material:** Housing: Stainless steel 1.4305 (X5CrNi18-10, AISI 304).  
Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).



With 2 mounting holes.

The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is possible.

Delivery with stainless steel grease nipple.



Ordering Details: e.g.: Product No. 626 991 12, Ball Flange Bearing SSUCFL 201, Bore 12mm

Product No. Stainless	SSUCFL No.	Bore mm	a mm	b mm	e mm	i mm	g mm	l mm	s mm	Z <sub>uc</sub> mm	n <sub>uc</sub> mm	Bearing-Load Rating*		Weight kg
												dyn. C kN	stat. C <sub>0</sub> kN	
626 991 12	201	12	113	60	90	15	12	25,5	12	33,3	12,7	12,8	6,7	0,70
626 991 15	202	15	113	60	90	15	12	25,5	12	33,3	12,7	12,8	6,7	0,68
626 991 17	203	17	113	60	90	15	12	25,5	12	33,3	12,7	12,8	6,7	0,67
626 991 20	204	20	113	60	90	15	12	25,5	12	33,3	12,7	12,8	6,7	0,65
626 991 25	205	25	125	68	99	16	14	27	16	35,7	14,3	14,0	7,9	0,83
626 991 30	206	30	141	80	117	18	14	31	16	40,2	15,9	19,5	11,3	1,26
626 991 35	207	35	157	90	130	19	16	34	16	44,4	17,5	25,7	15,3	1,68
626 991 40	208	40	172	100	144	21	16	36	16	51,2	19	29,5	18,2	2,25
626 991 45	209	45	179	108	148	22	18	38	19	52,2	19	31,7	20,7	2,60
626 991 50	210	50	189	115	157	22	18	40	19	54,6	19	35,1	23,2	2,99

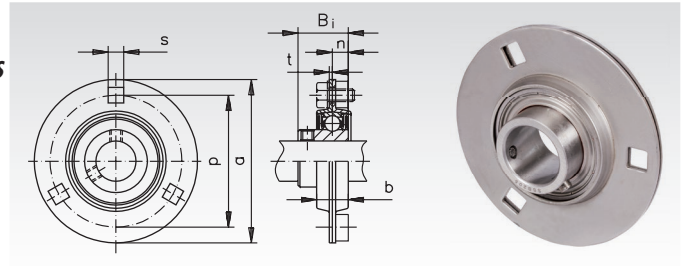
\* Maximum radial load if axial force = 0.  
The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings SSBPF, Two-Part Steel Sheet, Stainless Steel

**Material:** Housing from two-part sheets: Stainless steel 1.4305 (X5CrNi18-10, AISI 304). Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).

**STAINLESS**

With 3 mounting holes. The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is not possible.



Ordering Details: e.g.: Product No. 626 994 12, Ball Flange Bearing SSBPF 201

Product No.	SSBPF No.	Bore mm	a mm	p mm	t mm	b mm	s mm	B <sub>i</sub> mm	n mm	Permissible Housing Load kN	Bearing-Load Rating* dyn. C kN	stat. C <sub>0</sub> kN	Weight kg
626 994 12	201	12	81	63,5	2	14	7,1	22	6	2,65	9,6	4,8	0,27
626 994 15	202	15	81	63,5	2	14	7,1	22	6	2,65	9,6	4,8	0,27
626 994 17	203	17	81	63,5	2	14	7,1	22	6	2,65	9,6	4,8	0,27
626 994 20	204	20	90	71,5	2	16	9	25	7	3,09	12,9	6,7	0,33
626 994 25	205	25	95	76	2	18	9	27	7,5	3,53	14,0	7,9	0,38
626 994 30	206	30	113	90,5	2,6	19	11	30	8	4,90	19,5	11,3	0,62
626 994 35	207	35	122	100	2,6	22	11	32	8,5	6,23	25,7	15,3	0,82

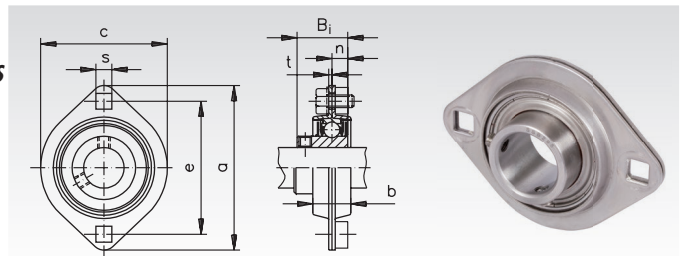
\* Maximum radial load if axial force = 0. Regard the housing load. The axial load rating is approx. 20% of the radial load rating.

## Ball Flange Bearings SSBPFL, Two-Part Steel Sheet, Stainless Steel

**Material:** Housing from two-part sheets: Stainless steel 1.4305 (X5CrNi18-10, AISI 304). Rolling bearing: Stainless steel 1.4125 (X105CrMo17, AISI 440 C).

**STAINLESS**

With 2 mounting holes. The rolling bearing can be swiveled when mounting to compensate shaft misalignment. The shaft will get fastened with 2 setscrews. Lubricated for life at normal operating conditions. Re-lubricating is not possible.



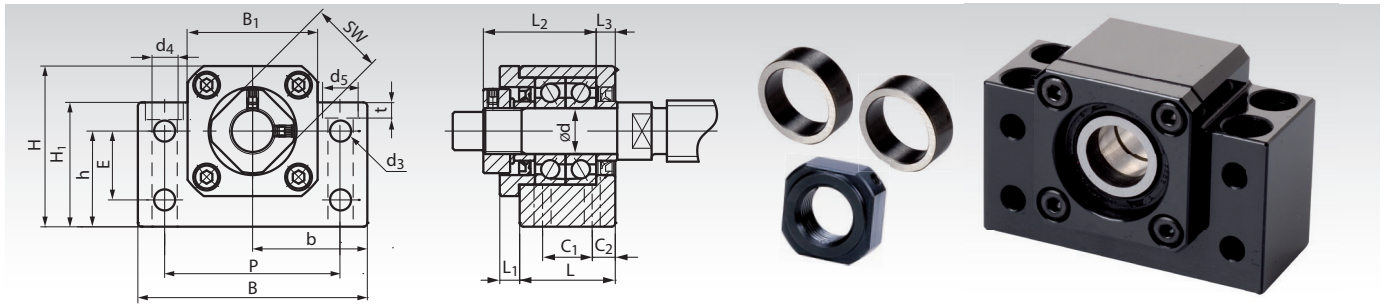
Ordering Details: e.g.: Product No. 626 995 12, Ball Flange Bearing SSBPFL 201

Product No.	SSBPFL No.	Bore mm	a mm	e mm	t mm	b mm	c mm	s mm	B <sub>i</sub> mm	n mm	Permissible Housing Load kN	Bearing-Load Rating* dyn. C kN	stat. C <sub>0</sub> kN	Weight kg
626 995 12	201	12	81	63,5	2	14	59	7,1	22	6	2,65	9,6	4,8	0,19
626 995 15	202	15	81	63,5	2	14	59	7,1	22	6	2,65	9,6	4,8	0,19
626 995 17	203	17	81	63,5	2	14	59	7,1	22	6	2,65	9,6	4,8	0,19
626 995 20	204	20	90	71,5	2	16	67	9	25	7	3,09	12,9	6,7	0,24
626 995 25	205	25	95	76,0	2	18	71	9	27	7,5	3,53	14,0	7,9	0,28
626 995 30	206	30	113	90,5	2,6	19	84	11	30	8	4,90	19,5	11,3	0,38
626 995 35	207	35	123	100	2,6	20	94	11	32	8,5	6,23	25,7	15,3	0,58

\* Maximum radial load if axial force = 0. Regard the housing load. The axial load rating is approx. 20% of the radial load rating.



## Pillow Block Bearing Units BK, for Fixed Side



**Material:** Housing from steel, all surfaces machined, burnished.  
On request: nickel plated. Rolling bearing from bearing steel.

Ready-to-install housing bearing unit for trapezoidal and ballscrew spindle drives, for the fixed side. With two angular contact ball bearings, lightly preloaded, with seals. With 8 mounting holes.

Locknut and distance bushes are included. Due to the standard dimensions, these units can also replace parts of other suppliers.

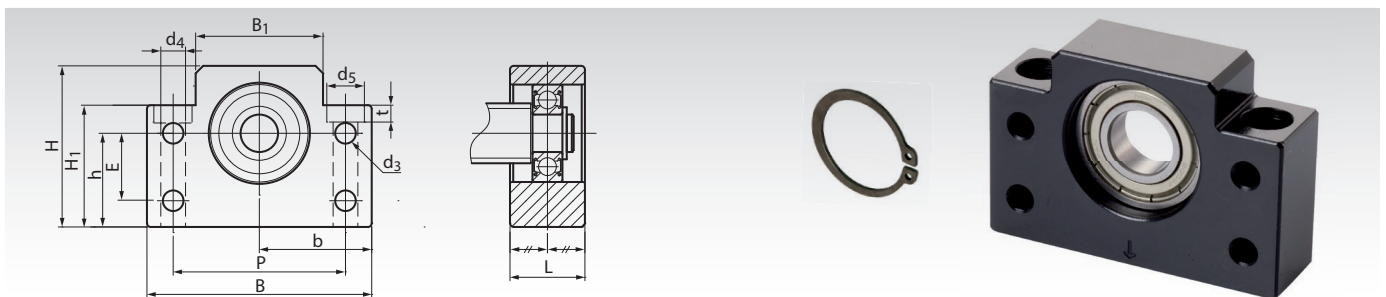
Spindle reworking on request (see page 435).

Matching counterpart for support side: Pillow Block Bearing BF.

Ordering Details: e.g.: Product No. 642 001 10, Ball Pillow Block Bearing Unit BK 10, Bore 10mm

Product No.	Type	d	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	B	H	b $\pm 0,02$	h $\pm 0,02$	B <sub>1</sub>	H <sub>1</sub>	E	P	C <sub>1</sub>	C <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	t	SW	Weight	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
642 001 10	BK 10	10	25	5	29,5	5	60	39	30	22	34	32,5	15	46	13	6	5,5	6,3	10,5	6,5	16	0,39	
642 001 12	BK 12	12	25	5	29,5	5	60	42	30	25	34	32,5	18	46	13	6	5,5	6,3	10,5	1,5	19	0,41	
642 001 15	BK 15	15	27	6	32	6	70	47	35	28	38	38	18	54	15	6	5,5	6,3	10,5	6,5	22	0,57	
642 001 17	BK 17	17	35	9	44	7	86	63	43	39	48	55	28	68	19	8	6,6	8,7	14,0	8,6	24	1,27	
642 001 20	BK 20	20	35	8	43	8	88	59	44	34	50	50	22	70	19	8	6,6	8,7	14,0	8,5	30	1,19	
642 001 25	BK 25	25	42	12	54	9	106	79	53	48	62	70	33	85	22	10	9	10,7	17,5	10,8	35	2,30	
642 001 30	BK 30	30	45	14	61	9	128	88	64	51	74	78	33	102	23	11	11	13,7	20	13	40	3,32	
642 001 35	BK 35	35	50	14	67	12	140	95	70	52	86	79	35	114	26	12	11	13,7	20	13	50	4,33	
642 001 40	BK 40	40	61	18	76	15	160	109	80	60	98	90	37	130	33	14	14	17,7	26	17,5	50	6,50	

## Pillow Block Bearing Units BF, for Support Side



**Material:** Housing from steel, all surfaces machined, burnished.  
On request: nickel plated. Rolling bearing from bearing steel.

Ready-to-install housing bearing unit for trapezoidal and ballscrew spindle drives, for the support side. With one movable single row deep groove ball bearing with shields (2Z). With 6 mounting holes.

Retaining ring for fixing on the spindle end is included.

Due to the standard dimensions, these units can also replace parts of other suppliers.

Spindle reworking on request (see page 435).

Matching counterpart for fixed side: Pillow Block Bearing BK.

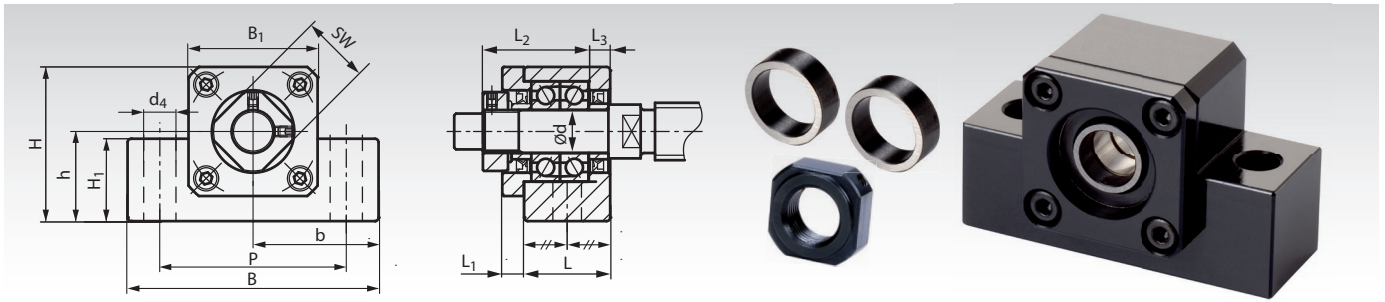
Ordering Details: e.g.: Product No. 642 002 10, Ball Pillow Block Bearing Unit BF 10, Bore 8mm

Product No.	Type	d	L	B	H	b $\pm 0,02$	h $\pm 0,02$	B <sub>1</sub>	H <sub>1</sub>	E	P	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	t	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
642 002 10	BF 10	8	20	60	39	30	22	34	32,5	15	46	5,5	6,3	10,8	5,0	0,29
642 002 12	BF 12	10	20	60	43	30	25	34	32,5	18	46	5,5	6,3	10,8	1,5	0,30
642 002 15	BF 15	15	20	70	48	35	28	40	38	18	54	5,5	6,3	11	6,5	0,38
642 002 17	BF 17	17	23	86	64	43	39	50	55	28	68	6,6	8,7	14	8,6	0,74
642 002 20	BF 20	20	26	88	60	44	34	52	50	22	70	6,6	8,7	14	8,6	0,76
642 002 25	BF 25	25	30	106	80	53	48	64	70	33	85	9	10,7	17,5	11	1,42
642 002 30	BF 30	30	32	128	89	64	51	76	78	33	102	11	13,7	20	13	1,97
642 002 35	BF 35	35	32	140	96	70	52	88	79	35	114	11	13,7	20	13	2,22
642 002 40	BF 40	40	37	160	110	80	60	100	90	37	130	14	17,7	26	17,5	3,27



Nickel plated on request.

## Pillow Block Bearing Units EK, for Fixed Side



**Material:** Housing from steel, all surfaces machined, burnished.  
On request: nickel plated. Rolling bearing from bearing steel.

Ready-to-install housing bearing unit for trapezoidal and ballscrew spindle drives, for the fixed side. With two angular contact ball bearings, lightly preloaded, with seals. With 2 mounting holes.

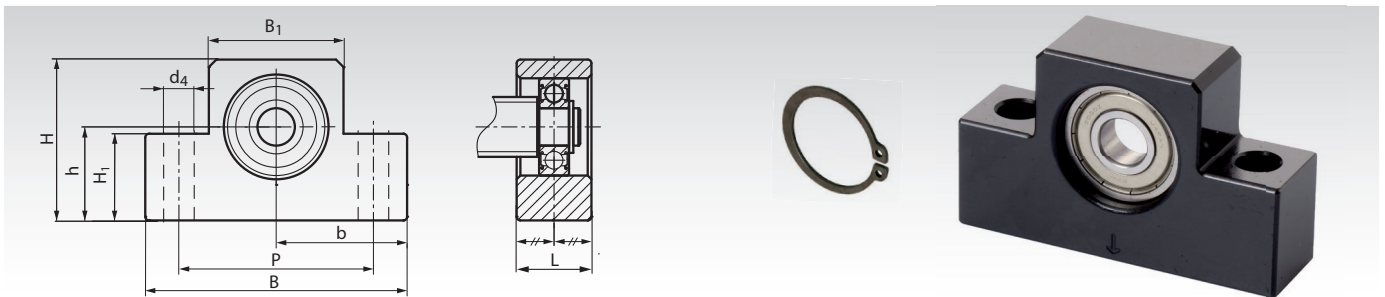
Locknut and distance bushes are included. Due to the standard dimensions, these units can also replace parts of other suppliers.

Spindle reworking on request (see page 435).  
Matching counterpart for support side: Pillow Block Bearing EF.

Ordering Details: e.g.: Product No. 642 003 06, Ball Pillow Block Bearing Unit EK 6, Bore 6mm

Product No.	Type	d mm	L mm	L <sub>1</sub> mm	L <sub>2</sub> mm	L <sub>3</sub> mm	B mm	H mm	b±0,02 mm	h±0,02 mm	B <sub>1</sub> mm	H <sub>1</sub> mm	P mm	d <sub>4</sub> mm	SW mm	Weight kg
642 003 06	EK 06	6	20	5,5	22	3,5	42	25	21	13	20	12	30	5,2	12	0,14
642 003 08	EK 08	8	23	7	26	4	52	32	26	17	27	16	38	6,3	14	0,24
642 003 10	EK 10	10	24	6	29,5	6	70	43	35	25	36	24	52	9	16	0,46
642 003 12	EK 12	12	24	6	29,5	6	70	43	35	25	36	24	52	9	19	0,44
642 003 15	EK 15	15	25	6	32	5	80	50	40	30	40	25	60	11	22	0,55
642 003 20	EK 20	20	42	10	50	10	95	58	47,5	30	56	25	75	11	30	1,35

## Pillow Block Bearing Units EF, for Support Side



**Material:** Housing from steel, all surfaces machined, burnished.  
On request: nickel plated. Rolling bearing from bearing steel.

Ready-to-install housing bearing unit for trapezoidal and ballscrew spindle drives, for the support side. With one movable single row deep groove ball bearing with shields (2Z). With 2 mounting holes.

Retaining ring for fixing on the spindle end is included. Due to the standard dimensions, these units can also replace parts of other suppliers.

Spindle reworking on request (see page 435).  
Matching counterpart for fixed side: Pillow Block Bearing EK.

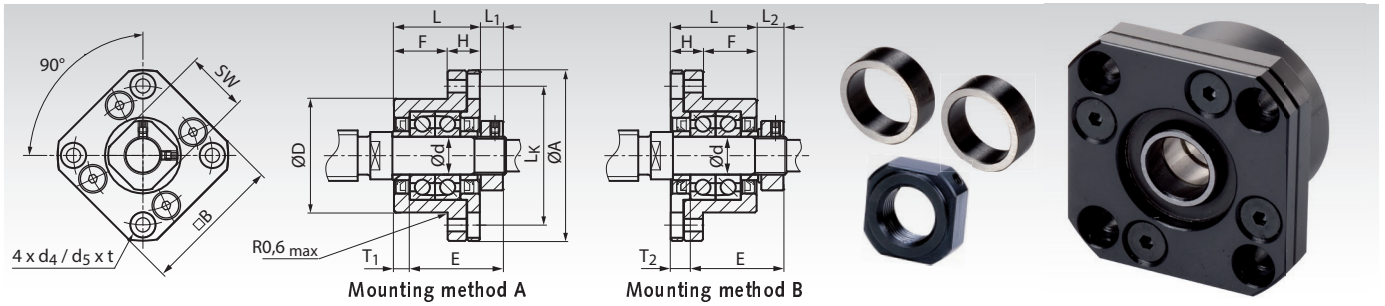
Ordering Details: e.g.: Product No. 642 004 06, Ball Pillow Block Bearing Unit EF 6, Bore 6mm

Product No.	Type	d mm	L mm	B mm	H mm	b±0,02 mm	h±0,02 mm	B <sub>1</sub> mm	H <sub>1</sub> mm	P mm	d <sub>4</sub> mm	Weight kg
642 004 06	EF 06	6	12	42	25	21	13	20	12	30	5,2	0,07
642 004 08	EF 08	6	14	52	32	26	17	27	16	38	6,3	0,13
642 004 10	EF 10	8	20	70	43	35	25	36	24	52	9	0,33
642 004 12	EF 12	10	20	70	43	35	25	36	24	52	9	0,32
642 004 15	EF 15	15	20	80	49	40	30	41	25	60	9	0,38
642 004 20	EF 20	20	26	95	58	47,5	30	56	25	75	11	0,63



Nickel plated on request.

## Flange Bearing Units FK, for Fixed Side



**Material:** Housing from steel, all surfaces machined, burnished. On request: nickel plated. Rolling bearing from bearing steel.

Ready-to-install housing bearing unit for trapezoidal and ballscrew spindle drives, for the fixed side. With two angular contact ball bearings, lightly preloaded, with seals. With 4 mounting holes.

Locknut and distance bushes are included. Due to the standard dimensions, these units can also replace parts of other suppliers.

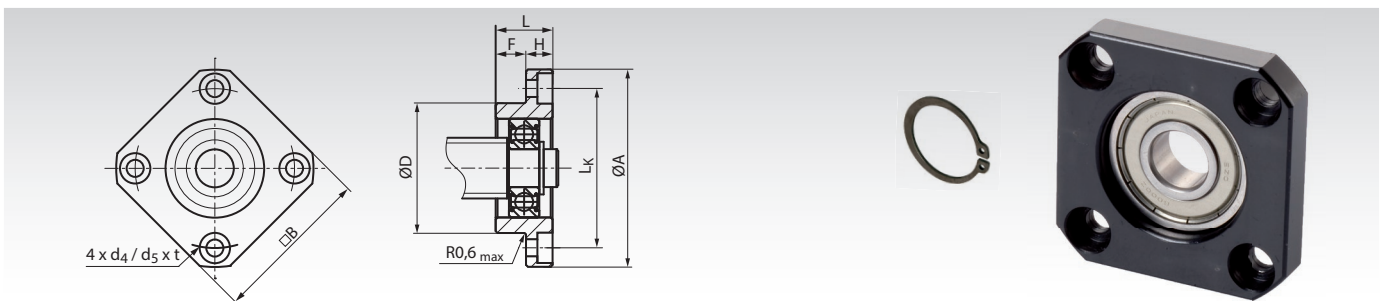
Spindle reworking on request (see page 435).

Matching counterpart for support side: Flange Bearing FF.

Ordering Details: e.g.: Product No. 642 005 06, Flange Bearing Unit FK 6, Bore 6mm

Product No.	Type	d mm	L mm	H mm	F mm	E mm	D <sup>g6</sup> mm	A mm	L <sub>k</sub> mm	B mm	L <sub>1</sub> mm	T <sub>1</sub> mm	L <sub>2</sub>	T <sub>2</sub>	d <sub>4</sub> mm	d <sub>5</sub> mm	t mm	SW mm	Weight kg
642 005 06	FK 06	6	20	7	13	22	22	36	28	28	5,5	3,5	6,5	4,5	3,4	6	3,3	12	0,08
642 005 08	FK 08	8	23	9	14	26	28	43	35	35	7,0	4	8	5	3,4	6	3,3	14	0,15
642 005 10	FK 10	10	27	10	17	29,5	34	52	42	42	7,3	5	8,5	6	4,5	8	4	16	0,21
642 005 12	FK 12	12	27	10	17	29,5	36	54	44	44	7,3	5	8,5	6	4,5	8	4	19	0,22
642 005 15	FK 15	15	32	15	17	36	40	63	50	52	9,8	6	12	8	5,5	9,5	6	22	0,39
642 005 17	FK 17	17	45	22	23	47	50	77	62	61	11,0	9	14	12	6,6	11	10	24	0,85
642 005 20	FK 20	20	52	22	30	50	57	85	70	68	7,8	10	12	14	6,5	11	10	30	1,09
642 005 25	FK 25	25	57	27	30	60	63	98	80	79	12,8	10	20	17	9	15	13	35	1,49
642 005 30	FK 30	30	62	30	32	61	75	117	95	93	10,8	12	17	18	11	17,5	15	40	2,32

## Flange Bearing Units FF, for Support Side



**Material:** Housing from steel, all surfaces machined, burnished. On request: nickel plated. Rolling bearing from bearing steel.

Ready-to-install housing bearing unit for trapezoidal and ballscrew spindle drives, for the support side. With one movable single row deep groove ball bearing with shields (2Z). With 4 mounting holes.

Retaining ring for fixing on the spindle end is included.

Due to the standard dimensions, these units can also replace parts of other suppliers.

Spindle reworking on request (see page 435).

Matching counterpart for fixed side: Flange Bearing FK.

Ordering Details: e.g.: Product No. 642 006 06, Flange Bearing Unit FF 6, Bore 6mm

Product No.	Type	d mm	L mm	H mm	F mm	D <sup>g6</sup> mm	A mm	L <sub>k</sub> mm	B mm	d <sub>4</sub> mm	d <sub>5</sub> mm	t mm	Weight kg
642 006 06	FF 06	6	10	6	4	22	36	28	28	3,4	6,0	3,3	0,04
642 006 10	FF 10	8	12	7	5	28	43	35	35	3,4	6,0	3,3	0,07
642 006 12	FF 12	10	15	7	8	34	52	42	42	4,2	8	4,4	0,11
642 006 15	FF 15	15	17	9	8	40	63	50	52	5,2	9,5	5,4	0,20
642 006 17	FF 17	17	20	11	9	50	77	62	61	6,6	11	8,6	0,35
642 006 20	FF 20	20	20	11	9	57	85	70	68	6,3	11	6,5	0,27
642 006 25	FF 25	25	24	14	10	63	98	80	79	8,7	14	8,6	0,67
642 006 30	FF 30	30	27	18	9	75	117	95	93	10,7	17,5	10,8	1,07



Nickel plated on request.

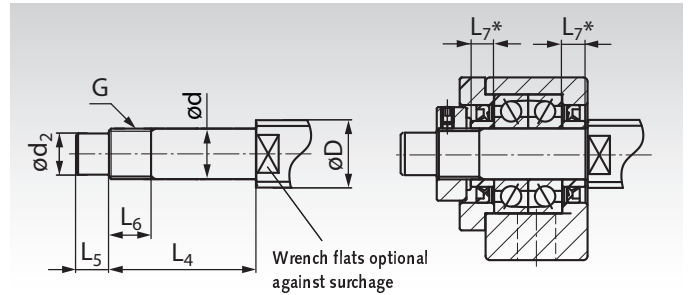
## Shaft Reworking and Bearing Load Data for Spindle Bearing Units BK, EK and FK (Fixed Side)

### Shaft Reworking:

At **MÄDLER®**, trapezoidal and ballscrew spindles can get reworked, fitting to the bearing units. The spindle reworking in the drawing is just a recommendation. Due to the customer's request, the length  $L_5$  could be shorter or longer and the shaft end could get a keyway DIN 6885.

### Bearing Load Data:

The loading rates and speed limits shown in the table are the limits just for the bearings. The limits of the spindles are much lower, depending on the diameter, length and material.



### Recommended Shaft Reworking for Fixed Side Units

Bearing-Unit Type	Spindle-Ø D		$d_{g6}$ mm	$d_2^{h7}$ mm	$L_4 \pm 0,2$ mm	$L_5 \pm 0,2$ mm	G mm	$L_6 \pm 0,2$ mm	$L_7^{1)}$ mm	Bearing Load Data			
	KGT mm	TR mm								Bearing Type	Load rating axial dyn.C kN	stat.C <sub>0</sub> kN	Speed limit min <sup>-1</sup>
EK 06 / FK 06	8	10*	6	4	28	8	M6x0,75	8	5	706 A P5	2,03	0,80	46.400
EK 08 / FK 08	10/12	12*/14	8	6	32	9	M8x1	10	5,5	708 A P5	3,35	1,45	35.200
BK 10	12/14/15	16	10	8	36	15	M10x1	16	5,5	7000 A P5	5,0	2,34	29.440
EK 10 / FK 10	12/14/15	16	10	8	36	15	M10x1	11	5,5	7000 A P5	5,0	2,34	29.440
BK 12	14/15/16	18	12	10	36	15	M12x1	14	5,5	7001 A P5	5,4	2,71	25.760
EK 12 / FK 12	14/15/16	18	12	10	36	15	M12x1	11	5,5	7001 A P5	5,4	2,71	25.760
BK 15	18/20	20*/24	15	12	40	20	M15x1	12	6	7002 A P5	3,2	2,36	22.080
EK 15	18/20	20*/24	15	12	40	20	M15x1	13	6	7002 A P5	3,2	2,36	22.080
FK 15	18/20	20*/24	15	12	47	20	M15x1	13	10	7002 A P5	3,2	2,36	22.080
BK 17 / FK 17	20/25	24/28	17	15	53	23	M17x1	17	7	7203 A P5	10,1	5,45	18.400
BK 20	25/28/30	30/36	20	17	53	25	M20x1	15	8	7004 A P5	10,3	6,10	16.560
EK 20 / FK 20	25/28/30	30/36	20	17	62	25	M20x1	17	11	7204 A P5	13,6	7,55	15.640
BK 25	30/32/36	36	25	20	65	30	M25x1,5	18	9	7205 A P5	15,4	9,45	13.800
FK 25	30/32/36	36	25	20	76	30	M25x1,5	20	15	7205 A P5	15,4	9,45	13.800
BK 30 / FK 30	36/40	36*/40	30	25	72	38	M30x1,5	25	9	7206 A P5	21,3	13,6	11.040
BK 35	45	36*/40	35	30	81	45	M35x1,5	28	12	7207 A P5	28,2	18,5	9.660
BK 40	50	50	40	35	93	50	M40x1,5	35	15	7208 A P5	33,5	23,3	8.832

<sup>1)</sup> The matching distance bushes are included in the scope of delivery of bearing units BK, EK and FK.

\* A rest of the thread grooves may remain visible.

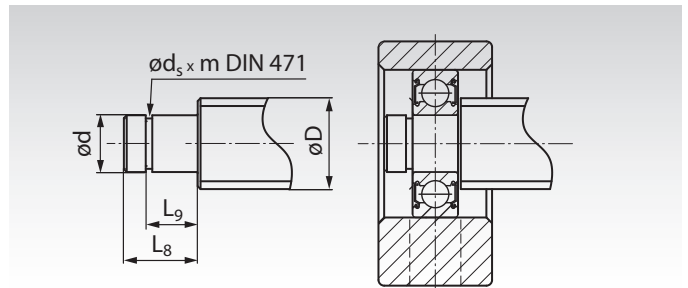
## Shaft Reworking and Bearing Load Data for Spindle Bearing Units BF, EF and FF (Support Side)

### Shaft Reworking:

At **MÄDLER®**, trapezoidal and ballscrew spindles can get reworked, fitting to the bearing units. The spindle reworking in the drawing is just a recommendation. Due to the customer's request, the length  $L_8$  could be shorter or longer and the shaft end could get a keyway DIN 6885.

### Bearing Load Data:

The loading rates and speed limits shown in the table are the limits just for the bearings. The limits of the spindles are much lower, depending on the diameter, length and material.



### Recommended Shaft Reworking for Support Side Units

Bearing-Unit Type	Spindle-Ø D		$d_{g6}$ mm	$d_s^{-0,15}$ mm	$L_8 \pm 0,2$ mm	$L_9 \pm 0,2$ mm	mH13 mm	DIN 471 <sup>1)</sup> mm	Bearing Load Data			
	KGT mm	TR mm							Bearing Type	Load rating axial dyn.C kN	stat.C <sub>0</sub> kN	Speed limit min <sup>-1</sup>
EF 06 / FF 06	8	10*	6	5,7	9	6,8	0,8	6	606-2Z	2,3	0,8	37.000
EF 08	10/12	10*/12	6	5,7	9	6,8	0,8	6	606-2Z	2,3	0,8	37.000
BF 10 / EF 10 / FF 10	12/14/15	12*/14	8	7,6	10	7,9	0,9	8	608-2Z	3,3	1,4	34.000
BF 12 / EF 12 / FF 12	14/15/16	16/18	10	9,6	11	9,15	1,15	10	6000-2Z	4,6	2,0	31.000
BF 15 / EF 15 / FF 15	18/20	20*/24	15	14,3	13	10,15	1,15	15	6002-2Z	5,6	2,8	23.000
BF 17 / FF 17	20/25	24/28	17	16,2	16	13,15	1,15	17	6203-2Z	9,6	4,8	17.000
BF 20	25/28/30	30/36	20	19,0	16	13,15	1,15	20	6004-2Z	9,4	5,0	15.000
EF 20 / FF 20	25/28/30	30/36	20	19,0	19	15,35	1,35	20	6204-2Z	12,8	6,7	14.000
BF 25 / FF 25	30/32/36	36	25	23,9	20	16,35	1,35	25	6205-2Z	14,0	7,9	12.000
BF 30 / FF 30	36/40	36*/40	30	28,6	21	17,75	1,75	30	6206-2Z	19,5	11,3	9.500
BF 35	40/45	36/40	35	33	22	18,75	1,75	35	6207-2Z	16,0	10,4	9.000
BF 40	50	50	40	38	23	19,95	1,95	40	6208-2Z	29,5	18,0	8.000

<sup>1)</sup> The retaining ring DIN 471 is included in the scope of delivery of bearing units BF, EF and FF.

\* A rest of the thread grooves may remain visible.