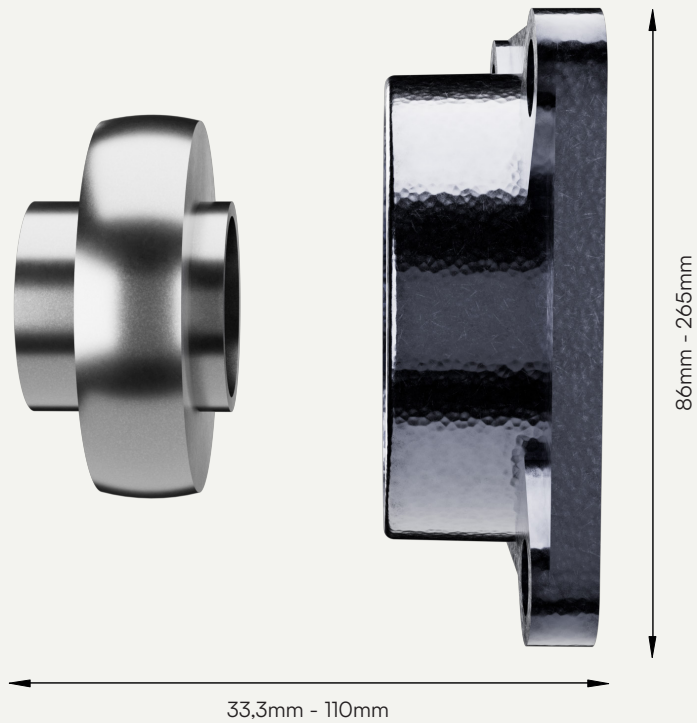


UCF200





Our bearing inserts (UC, HC and UK) have a dual seal. This consists of a lip seal guided on the outer ring and a cover disc which sits on the inner ring.

   				Loads		Setscrew	Tightening torque
				CKN _{dyn.}	CKN _{stat.}		Nm
UC201	SA201	SB201	UK201	7,30	4,76	M5 x 0,8	3,50
UC202	SA202	SB202	UK202	7,30	4,76	M5 x 0,8	3,50
UC203	SA203	SB203	UK203	7,30	4,76	M5 x 0,8	3,50
UC204	SA204	SB204	UK204	9,85	6,58	M6 x 1,0	5,50
UC205	SA205	SB205	UK205	10,80	7,88	M6 x 1,0	5,50
UC206	SA206	SB206	UK206	15,00	11,30	M6 x 1,0	5,50
UC207	SA207	SB207	UK207	19,70	15,30	M8 x 1,0	11,50
UC208	SA208	SB208	UK208	22,40	17,90	M8 x 1,0	11,50
UC209	SA209		UK209	25,10	20,50	M8 x 1,0	11,50
UC210	SA210		UK210	27,00	23,20	M10 x 1,25	22,00
UC211			UK211	33,40	29,20	M10 x 1,25	22,00
UC212	SA212		UK212	40,30	35,90	M10 x 1,25	22,00
UC213			UK213	43,90	40,00	M12 x 1,25	33,00
UC214			UK214	47,70	44,00	M12 x 1,25	33,00
UC215			UK215	50,70	49,30	M12 x 1,25	33,00
UC216			UK216	55,50	53,00	M12 x 1,25	33,00
UC217			UK217	63,50	63,00	M12 x 1,25	33,00
UC218			UK218	74,00	71,50	M12 x 1,25	33,00

Ball bearing units

Housing bearings, as fully assembled and ready-to-install bearing units, present significant opportunities for streamlining various industries and installation scenarios. The ball bearings are superbly sealed against dirt and dust by specialized seals, ensuring, under normal operating conditions, a maintenance-free lifespan. The quality and quantity of the lithium-soap-based grease used inside the ball bearings allow continuous operation in temperatures ranging from -30 to +100°C. The outer ring of the ball bearings is designed spherically, facilitating the compensation for misalignments of the shafts when coupled with the respective housings.



Assembly guidelines

The tension bearing units are slid onto the shaft to their designated positions. Subsequently, the housings are securely fastened to the machinery. Only then is the ball bearing insert affixed to the shaft.

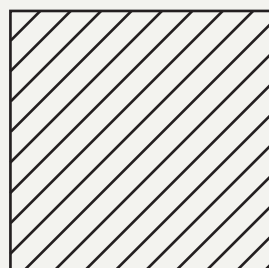
Axial load on the bearing inserts

When axial loads (across a shaft shoulder) are transmitted to bearing inserts, the same axial load capacities apply as with regular deep groove ball bearings of series 62../63.. according to DIN625. The table above illustrates the permissible axial loads for different mounting methods.

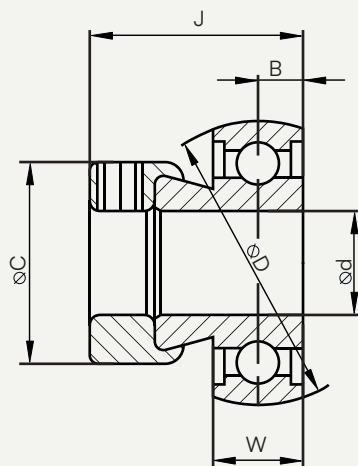
Recommended shaft tolerance

Stock	h6	h7	h8	h9	h11
201	10000	6300	4500	1600	1000
202	10000	6300	4500	1600	1000
203	9500	6000	4300	1500	950
204	8500	5300	3800	1300	850
205	7000	4500	3200	1000	700
206	6300	4000	2800	900	630
207	5300	3400	2200	750	530
208	4800	3000	1900	670	480
209	4300	2600	1700	600	430
210	4000	2400	1600	560	400
211	3600	2000	1400	500	360
212	3400	1900	1300	480	340
213	3000	1700	1100	430	300

Permissible axial load in kg



		150	200	300	400	500	600	700	800	900	1000	1500	2000
Stock size	UC	201-205	206-207	208-211	212	212-215	216	217-218	213	214	215	216	217-218
	UK		205-207	208		209	210	211-212					
	HC	204-205	206-207	208-211									
	SA	201-205	206-207	208-210									
	SB	206	207-208	209-210									



Dimensions in mm								Carrying figures	
								dyn.	stat.
Stock	kg	d	D	W	J	C	b	CKN	CKN
SA201		12							
SA202		15							
SA203	0,15	17	40	12	28,54	28,58	6,55	7,3	4,76
SA204	0,16	20	47	14		33,3		9,85	6,58
SA205	0,23	25	52	15	30,92	38,1	7,56	10,8	7,88
SA206	0,4	30	62	16	35,68	44,45	9,04	15	11,3
SA207	0,58	35	72	17	38,88	55,58	9,55	19,7	15,3
SA208	0,73	40	80	18		60,3		22,4	17,9
SA209	0,87	45	85	19		63,5		25,1	20,5
SA210	0,98	50	90	20	43,64	69,85	11,05	27	23,2
SA212	1,4	60	110	22	53,31	84,12	13,58	40,3	35,9

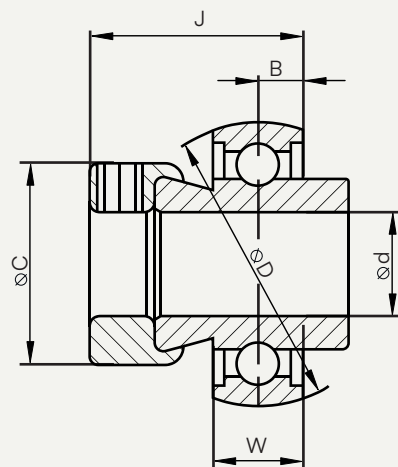
In general

The specialized sealing of these bearings consists of an oil-resistant rubber seal securely attached to the outer ring and reinforced with steel sheet. This frictional sealing disk is guided in a groove on the inner ring, providing maximum protection even in exceptionally dirty conditions.

The bearings come pre-greased with high-quality lubricant, eliminating the need for re-greasing under normal operating conditions. However, under extreme conditions, re-greasing is possible through two lubrication holes in the outer ring.

During installation of these bearings, attention must be given to tightening the eccentric ring in the direction of shaft rotation.

Dynamic and static load ratings have been calculated according to ISO standards. To obtain „scaled-up“ values for equivalent bearings from other manufacturers for comparison, the dynamic load rating C should be multiplied by a factor of 1.35.



In general

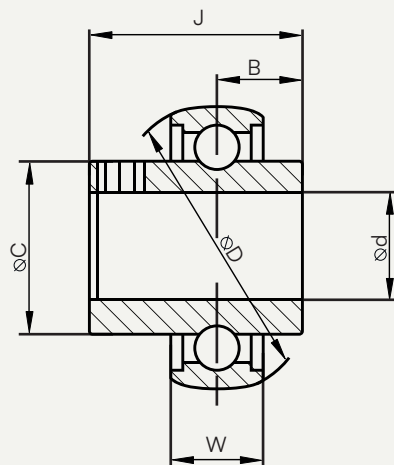
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Dimensions in mm								Carrying figures	
								dyn.	stat.
Stock	kg	d	D	W	J	C	b	CKN	CKN
HC204	0,2	20	47	14	43,62	33,3	17,12	9,85	6,85
HC205	0,26	25	52	15	44,4	38,1	17,49	10,8	7,88
HC206	0,53	30	62	16	48,42	44,45	18,32	15	11,3
HC207	0,7	35	72	17	51,18	55,58	18,89	19,7	15,3
HC208	0,82	40	80	18	56,34	60,3	21,46	22,4	17,9
HC209	1,08	45	85	19	56,34	63,5	21,46	25,1	20,5
HC210	1,19	50	90	20	62,7	69,85	24,65	27	23,2
HC211	1,4	55	100	21	71,44	76,2	27,82	33,4	29,2
HC212	1,72	60	110	22	77,82	84,12	32,02	40,3	35,9
HC213	2,56	65	120	23	77,82	87,33	31,02	43,9	40
HC214	2,56	70	125	24	85,36	96,82	34,19	47,7	44
HC215	2,61	75	130	25	91,72	101,6	37,37	50,7	49,3
HC216	3,23	80	140	26	100	111	40,4	55,5	53
HC218	4,99	90	160	30	106,3	123,7	43,6	74	71,5
HC220	4,65	100	180	36	75	132	25,5	122	93
HC224	6,93	120	215	40	81	152	28,5	155	131

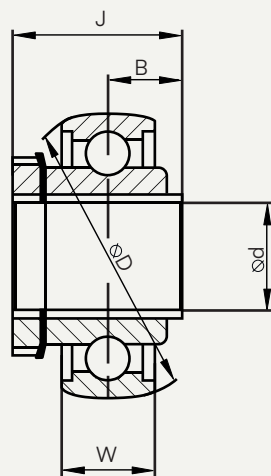


Dimensions in mm								Carrying figures	
								dyn.	stat.
Stock	kg	d	D	W	J	C	b	CKN	CKN
UC201		12							
UC202		15							
UC203		17							
UC204	0,13	20	47	14	30,36	28,5	12,75	9,85	6,58
UC205	0,17	25	52	15	34,11	34,01	14,32	10,8	7,88
UC206	0,37	30	62	16	38,1	40	15,93	15	11,3
UC207	0,51	35	72	17	42,88	46,69	17,53	19,7	15,3
UC208	0,64	40	80	18	49,23	52,7	19,1	22,4	17,9
UC209	0,73	45	85	19	49,23	57,3	19,1	25,1	20,5
UC210	0,91	50	90	20	51,59	62,2	19,1	27	23,2
UC211	1,12	55	100	21	55,55	68,81	22,28	33,4	29,2
UC212	1,47	60	110	22	65,07	75,34	25,45	40,3	35,9
UC213	2,02	65	120	23	65,07	82,4	25,45	43,3	40
UC214	2,27	70	125	24	74,63	87	30,23	47,7	44
UC215	2,61	75	130	25	77,77	92	33,37	50,7	49,3
UC216	3,23	80	140	26	82,55	98,5	33,37	55,5	53
UC217	3,74	85	150	28	85,72	106,02	34,18	63,5	63

In general

The specialized sealing of these bearings consists of an externally mounted, steel-reinforced, oil-resistant rubber seal. This abrasive sealing disc is guided in a groove on the inner ring, providing maximum protection even under exceptional contamination conditions. The bearings are equipped with high-quality grease, eliminating the need for re-lubrication (under normal operating conditions); however, under extreme conditions, re-lubrication is possible through two lubrication holes in the outer ring.

During the installation of these bearings, attention must be paid to tightening the eccentric ring in the direction of shaft rotation. The dynamic and static load ratings have been calculated in accordance with ISO standards. To obtain „extrapolated“ values for equivalent bearings from other manufacturers for comparison purposes, the dynamic load rating C should be multiplied by a factor of 1.35.



Dimensions in mm								Carrying figures	
								dyn.	stat.
Stock	sleeves		kg	d	D	W	J	CKN	CKN
UK205	H2305	H305	0,2	20	52	15	29	10,8	7,88
UK206	H2306	H306	0,3	25	62	16	31	15	11,3
UK207	H2307	H307	0,42	30	72	17	35	19,7	15,3
UK208	H2308	H308	0,54	35	80	18	36	22,4	17,9
UK209	H2309	H309	0,64	40	85	19	39	25,1	20,5
UK210	H2310	H310	0,75	45	90	20	42	27	23,2
UK211	H2311	H311	0,95	50	100	21	45	33,4	29,2
UK212	H2312		1,59	55	110	22	62	40,3	35,9
UK213	H2313		2	60	120	23	65	43,9	40
UK215	H2315		2,85	65	130	25	73	50,7	49,3
UK216	H2316		3,23	70	140	26	78	55,5	53

In general

The specialized sealing of these bearings comprises a steel-reinforced, oil-resistant rubber seal securely fastened to the outer ring. This abrasive sealing disc is guided in a recess on the inner ring, providing maximum protection even under extraordinary contamination conditions.

The bearings come equipped with high-quality grease, eliminating the need for re-lubrication (under normal operating conditions). However, under extreme conditions, re-lubrication is possible through two lubrication holes in the outer ring. During the installation of these bearings, attention must be paid to tightening the eccentric ring in the direction of the shaft's rotation.

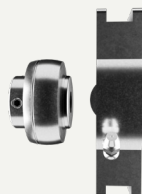
The dynamic and static load ratings have been calculated in accordance with ISO standards. To obtain „extrapolated“ values for equivalent bearings from other manufacturers for comparative purposes, the dynamic load rating C should be multiplied by a factor of 1.35.



UCT



UCFL



UCT



UCP



UCFC



UCF

Bearing units are completely ready-to-install units that offer significant streamlining possibilities in various industries and installation scenarios. The ball bearings are equipped with special seals to effectively protect against dirt and dust, ensuring a maintenance-free lifespan under normal operating conditions. These ball bearings contain high-quality lithium-soap-based lubricating grease, enabling continuous operation in a temperature range from -30 to +100°C. The outer ring of the ball bearings is designed with a spherical shape, allowing for the compensation of shaft misalignment errors when used with the corresponding housings.

UCF200 / UCFL200
UCP200 / UCFC200
UCT200 / RCJS..USP
RSFH / MSB500TO



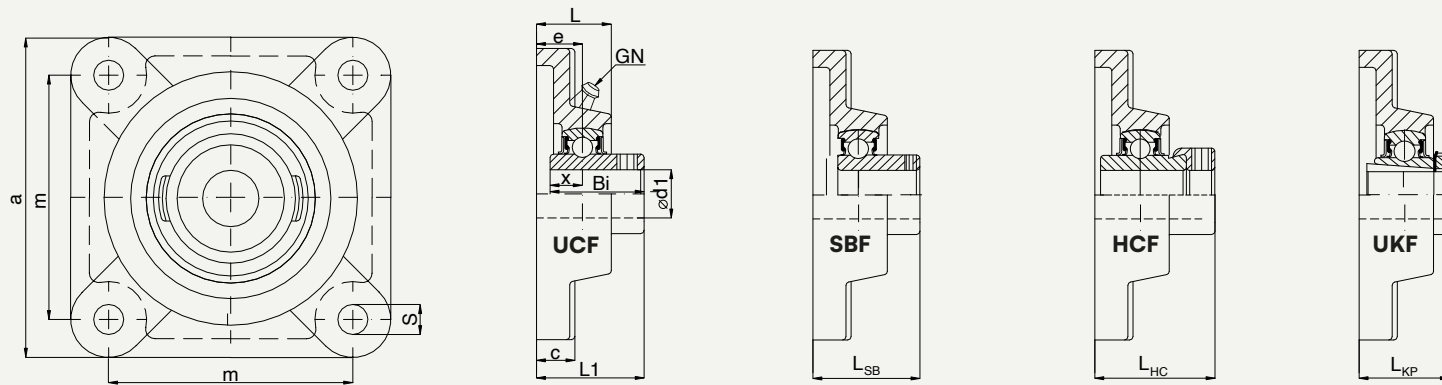
0,63kg - 15,85kg



12mm - 100mm



1000U/min - 6500U/min



Article	d1	a	m	e	c	L	S	L1	Bi	x	kg	Bearing	Housing	Set-screw	SW	GN
UCF201	12	86	64	15	12	25,5	12	33,3	31	12,7	0,63	UC201	F201	M6x1.0	3	M6
UCF202	15	86	64	15	12	25,5	12	33,3	31	12,7	0,63	UC202	F202	M6x1.1	3	M6
UCF203	17	86	64	15	12	25,5	12	33,3	31	12,7	0,63	UC203	F203	M6x1.2	3	M6
UCF204	20	86	64	15	12	25,5	12	33,3	31	12,7	0,63	UC204	F204	M6x1.3	3	M6
UCF205	25	95	70	16	14	27	12	35,7	34	14,3	0,82	UC205	F205	M6x1.4	3	M6
UCF206	30	108	83	18	14	31	12	40,2	38,1	15,9	1,1	UC206	F206	M6x1.5	3	M6
UCF207	35	117	92	19	16	34	14	44,4	42,9	17,5	1,5	UC207	F207	M8x1.0	4	M6
UCF208	40	130	102	21	16	36	16	51,2	49,2	19	1,9	UC208	F208	M8x1.1	4	M6
UCF209	45	137	105	22	18	38	16	52,2	49,2	19	2,3	UC209	F209	M8x1.2	4	M6
UCF210	50	143	111	22	18	40	16	54,6	51,6	19	2,5	UC210	F210	M10x1.25	5	M6
UCF211	55	162	130	25	20	43	19	58,4	55,6	22,2	3,4	UC211	F211	M10x1.26	5	M8
UCF212	60	175	143	29	20	48	19	68,7	65,1	25,4	4,4	UC212	F212	M10x1.27	5	M8
UCF213	65	187	149	30	20	50	19	69,7	65,1	25,4	5,3	UC213	F213	M10x1.28	5	M8
UCF214	70	193	152	31	24	54	19	75,4	74,6	30,2	6	UC214	F214	M12x1.5	6	M8
UCF215	75	200	159	35	24	57	19	79,5	77,8	33,3	6,6	UC215	F215	M12x1.6	6	M8
UCF216	80	208	165	35	24	59	23	83,3	82,6	33,3	7,5	UC216	F216	M12x1.7	6	M8
UCF217	85	220	175	36	26	63	23	87,6	85,7	34,1	9,1	UC217	F217	M12x1.8	6	M8
UCF218	90	235	187	42	26	70	23	98,3	96	39,7	11,3	UC218	F218	M12x1.9	6	M8
UCF220	100	265	210	44	28	75	27	110	108	-	13,45	UC220	F220	M12x1.10	6	M8



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