



UCFC





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.}		
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.

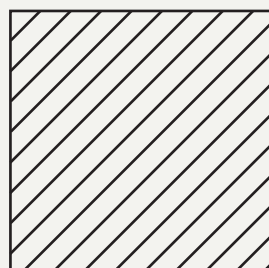
Axial load on the bearing inserts

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.

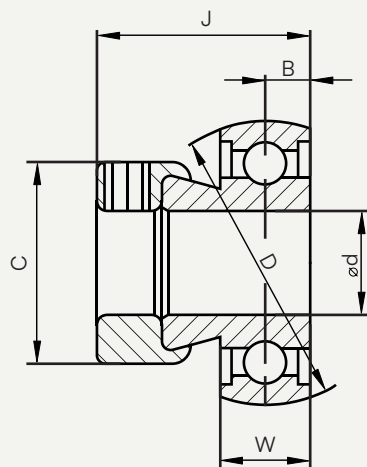
Recommended shaft tolerance

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

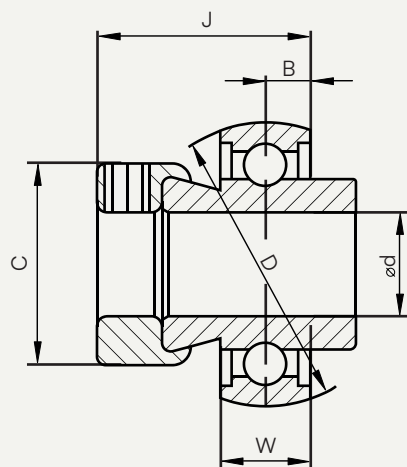
In general

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

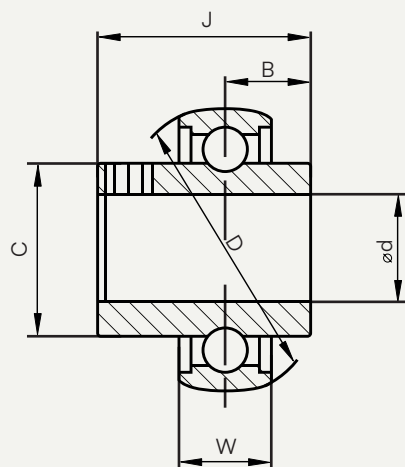
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Dimensions in mm								Carrying figures	
								dyn.	stat.
Stock	kg	d	D	W	J	C	b	CKN	CKN
HC204	0,2	20	47	14	43,62	33,3	17,12	9,85	6,85
HC205	0,26	25	52	15	44,4	38,1	17,49	10,8	7,88
HC206	0,53	30	62	16	48,42	44,45	18,32	15	11,3
HC207	0,7	35	72	17	51,18	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

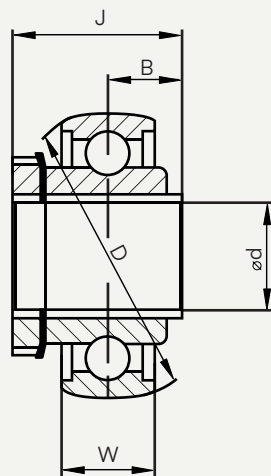


Dimensions in mm								Carrying figures	
								dyn.	stat.
Stock	kg	d	D	W	J	C	b	CKN	CKN
UC201		12							
UC202		15							
UC203		17							
UC204	0,13	20	47	14	30,36	28,5	12,75	9,85	6,58
UC205	0,17	25	52	15	34,11	34,01	14,32	10,8	7,88
UC206	0,37	30	62	16	38,1	40	15,93	15	11,3
UC207	0,51	35	72	17	42,88	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.

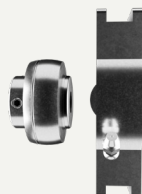
The dynamic and static load ratings have been calculated in accordance with ISO standards. To obtain „extrapolated“ values for equivalent bearings from other manufacturers for comparative purposes, the dynamic load rating C should be multiplied by a factor of 1.35.



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**



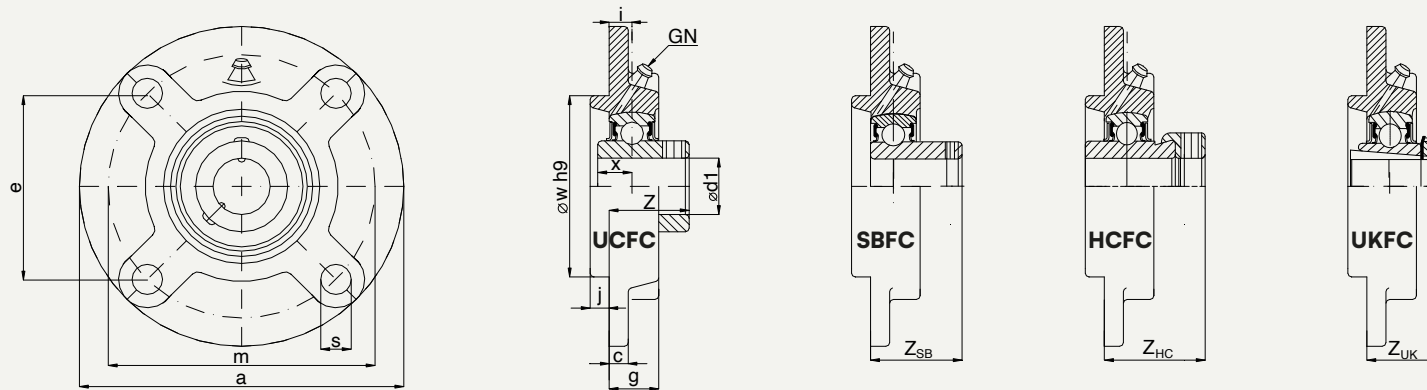
0,63kg - 15,85kg



12mm - 100mm



1000U/min - 6500U/min



Article	d1	a	m	e	i	s	j	c	g	w h9	Z	x	Bolt	kg	Housing	Bearing	Set-screw	SW	GN
UCFC201	12	100	78	55,1	10	12	5	7	20,5	62	28,3	12,7	M10	0,9	FC201	UC201	M6x1.0	3	M6
UCFC202	15	100	78	55,1	10	12	5	7	20,5	62	28,3	12,7	M10	0,9	FC202	UC202	M6x1.1	3	M6
UCFC203	17	100	78	55,1	10	12	5	7	20,5	62	28,3	12,7	M10	0,9	FC203	UC203	M6x1.2	3	M6
UCFC204	20	100	78	55,1	10	12	5	7	20,5	62	28,3	12,7	M10	0,8	FC204	UC204	M6x1.3	3	M6
UCFC205	25	115	90	63,6	10	12	6	7	21	70	29,7	14,3	M10	1,1	FC205	UC205	M6x1.4	3	M6
UCFC206	30	125	100	70,7	10	12	8	8	23	80	32,2	15,9	M10	1,5	FC206	UC206	M6x1.5	3	M6
UCFC207	35	135	110	77,8	11	14	8	9	26	90	36,4	17,5	M12	1,7	FC207	UC207	M8x1.0	4	M6
UCFC208	40	145	120	84,8	11	14	10	9	26	100	41,2	19	M12	2,1	FC208	UC208	M8x1.1	4	M6
UCFC209	45	160	132	93,3	10	16	12	14	26	105	40,2	19	M14	3	FC209	UC209	M8x1.2	4	M6
UCFC210	50	165	138	97,6	10	16	12	14	28	110	42,6	19	M14	3,1	FC210	UC210	M10x1.25	5	M6
UCFC211	55	185	150	106,1	13	19	12	15	31	125	46,4	22,2	M16	3,9	FC211	UC211	M10x1.26	5	M8
UCFC212	60	195	160	113,1	17	19	12	15	36	135	56,7	25,4	M16	4,4	FC212	UC212	M10x1.27	5	M8
UCFC213	65	205	170	120,2	16	19	14	15	36	145	55,7	25,4	M16	5,3	FC213	UC213	M10x1.28	5	M8
UCFC214	70	215	177	125,1	17	19	14	18	40	150	61,4	30,2	M16	6,8	FC214	UC214	M12x1.5	6	M8
UCFC215	75	220	184	130,1	18	19	16	18	40	160	62,5	33,3	M16	7,4	FC215	UC215	M12x1.6	6	M8
UCFC216	80	240	200	141,4	18	23	16	18	42	170	67,3	33,3	M20	8,7	FC216	UC216	M12x1.7	6	M8
UCFC217	85	250	208	147,1	18	23	18	20	45	180	69,6	34,1	M20	10,3	FC217	UC217	M12x1.8	6	M8
UCFC218	90	265	220	155,5	22	23	18	20	50	190	78,3	39,7	M20	13,3	FC218	UC218	M12x1.9	6	M8



THIS IS HOW YOU REACH US

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