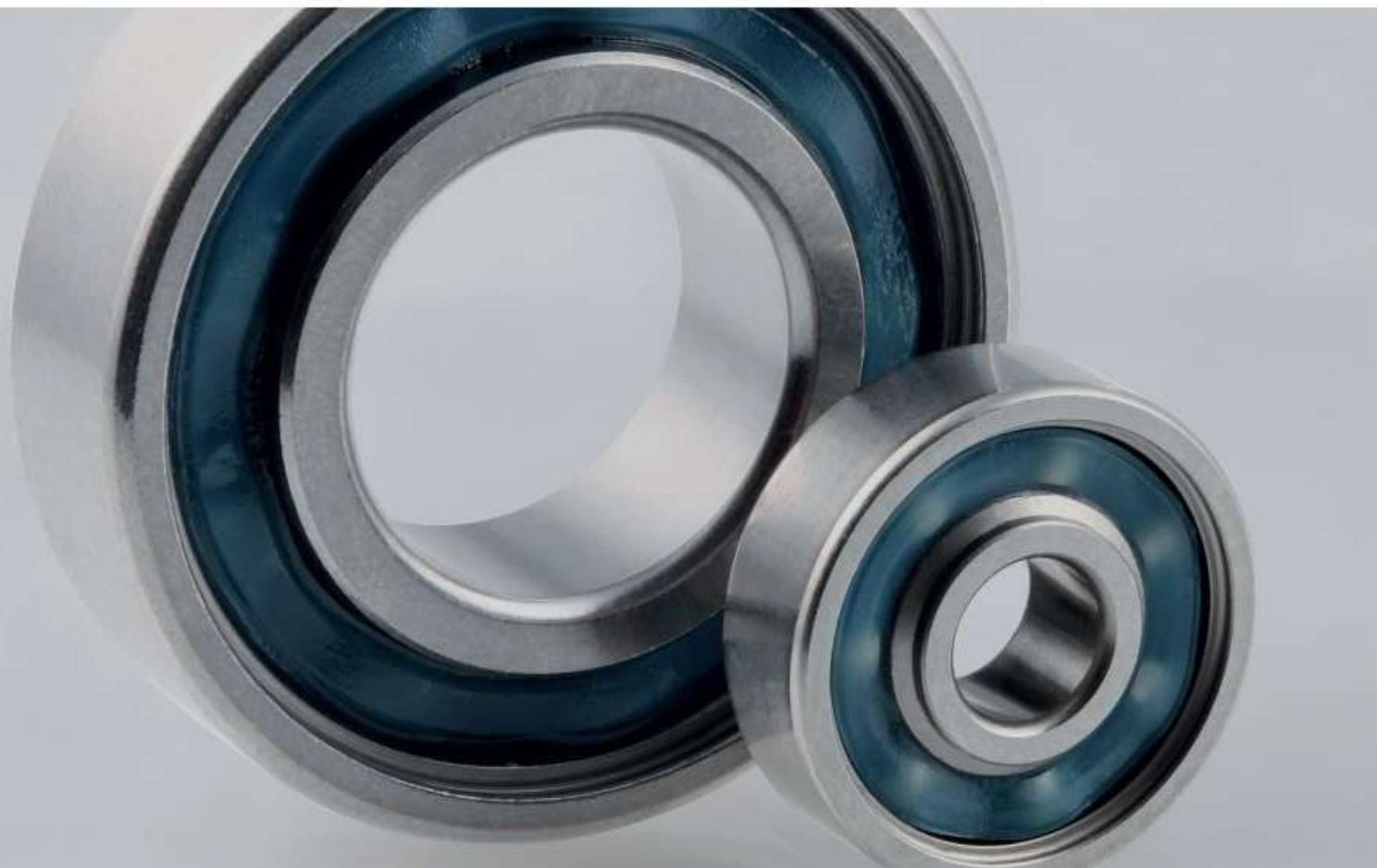


ActiveLube®

Solid Lubrication for Demanding Applications

การหล่อลื่นที่เป็นสารของแข็งสำหรับการใช้งานที่มีความต้องการอีกระดับ

1



ตลับลูกปืน SWC รุ่น แอ็คทีฟลูฟ / การหล่อลื่นที่เป็นสารของแข็ง ได้รับการพัฒนา เพื่อเป็นอีกทางเลือกในการตอบสนองการใช้งาน
หล่อลื่นของเครื่องจักรกล ที่ที่ซึ่งจารบีและน้ำมันหล่อลื่นทั่วไปไม่สามารถใช้งานได้เหมาะสมสำหรับงานบำรุงรักษา



ActiveLube® solid lubrication was developed as an alternative in applications where conventional grease and oils are unsuitable.

This innovative solid lubricant comprises of a lubricating oil and an open pored plastic polymer matrix. The matrix holds up to 65% oil, offering 2 to 3 times more oil than conventional grease.

สารหล่อลื่นที่เป็นสารของแข็งที่เป็นนวัตกรรมใหม่นี้ประกอบด้วยน้ำมันหล่อลื่นและสารโพลีเมอร์โครงสร้างเมทริกซ์ที่มีรูพรุนแบบเปิด โครงสร้างนี้สามารถกักเก็บน้ำมันได้ถึง 65%, โดยที่ให้การหล่อลื่นได้ยาวนานกว่าจารบีทั่วไปถึง 2-3 เท่า

การใช้งานและภาคอุตสาหกรรมต่างๆที่นำไปใช้งานได้

- > อุตสาหกรรมอาหารและเครื่องดื่ม
- > อุตสาหกรรมสิ่งทอ
- > เครื่องจักรกลและอุปกรณ์ทางการเกษตร
- > ภาคการขนถ่ายขนย้ายวัสดุ
- > งานหุ่นยนต์แขนกลและเครื่องจักรอัตโนมัติต่างๆ
- > เทคโนโลยีการผลิต

Industries & Applications

- ▶ Food & Beverage processing industry
- ▶ Textiles
- ▶ Agricultural equipment & machinery
- ▶ Materials handling
- ▶ Automation & robotics
- ▶ Process technology

ความได้เปรียบในด้านการใช้งาน

Operational Advantages

▶ Effective “for life” lubrication due to significantly higher oil volume than conventional grease lubrication. การหล่อลื่นที่มีประสิทธิภาพตลอดอายุเนื่องมาจากปริมาณน้ำมันหล่อลื่นที่มีมากกว่าจารบีทั่วไปอย่างเห็นได้ชัด

▶ Low maintenance requirements makes ActiveLube® the perfect choice in hard to access or hazardous applications. ความต้องการในการบำรุงรักษาที่ต่ำทำให้ ActiveLube เป็นทางเลือกสำหรับงานที่เข้าถึงได้ยากหรือที่เป็นอันตรายได้

▶ ActiveLube® offers superior protection of the bearing from contamination and water ingress. It also offers extra protection against aggressive cleaning agents or chemicals. ActiveLube ให้การปกป้องตลับลูกปืนอย่างดียิ่งขึ้นจากการปนเปื้อนและน้ำ รวมทั้งยังสามารถป้องกันตลับลูกปืนจากสารเคมีและสารทำความสะอาดต่างๆ

▶ ActiveLube® is highly water resistant. ActiveLube ทนทานต่อการชะล้างของน้ำได้ดียิ่ง

▶ Permanent lubrication eliminates any need for regreasing. การหล่อลื่นที่ถาวรทำให้ไม่ต้องการเติมสารหล่อลื่นใดๆในภายหลัง

▶ ActiveLube® is environmentally friendly as it avoids loss lubrication or oil leakage. ActiveLube เป็นมิตรต่อสิ่งแวดล้อมเพราะปราศจากการสูญเสียสารหล่อลื่นหรือการรั่วไหลของน้ำมัน

▶ Reduced downtime due to high operational safety. ลดการหยุดทำงานเนื่องจากมีความปลอดภัยในการใช้งานสูง

▶ Increased operational performance. ประสิทธิภาพในการใช้งานที่เพิ่มขึ้น

▶ ActiveLube® offers extra protection against bearing failures caused by lubrication related issues. ActiveLube ให้การปกป้องตลับลูกปืนที่เพิ่มมากขึ้นต่อความเสียหายอันมีสาเหตุที่เกี่ยวข้องจากการหล่อลื่น





ACTIVE LUBE STAINLESS STEEL DGBB LAL-01

SWC Stainless Steel Deep Groove Ball Bearings with the Suffix **LAL-01** are made of a high-grade stainless steel, equipped with 2 stainless steel shields (2ZR) or 2 rubber seal (2RSR) and suitable for **fast speeds and temperatures up to 90°C**.

All LAL-01 Stainless Steel Deep Groove Ball Bearings come with the following benefits:

Radial clearance CN or C3

Water and dust resistant

Riveted sheet steel cage
provides high stability at low friction

High-quality lubricant, certified for food and beverage industries (H1)
(suitable up to 90°C)

Two stainless steel shields (2ZR) or 2 rubber seal (2RSR)

Broad assortment

6000 ... 6012

6200 ... 6212

6300 ... 6312





ACTIVE LUBE DEEP GROOVE BALL BEARINGS LAL-01

SWC Deep Groove Ball Bearings with the Suffix **LAL-01** are in compliance with the FAG S1 standard and suitable for **fast speeds and temperatures up to 90°C**.

All LAL0-01 Deep Groove Ball Bearings come with the following benefits:

Radial clearance CN, C3 or C4

Dust resistant

Riveted sheet steel cage
provides high stability at low friction

High-quality lubricant
(suitable up to 90°C)

Optional: Steel shields (2ZR) or rubber seals (2RSR)
(suitable up to 90°C)

Broad assortment

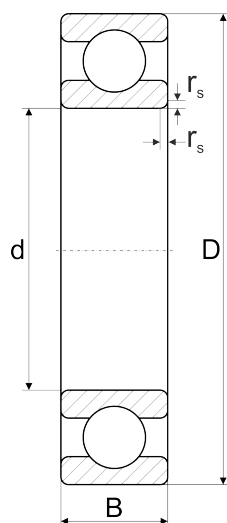
6000 ... 6020

6200 ... 6220

6300 ... 6320



60xx

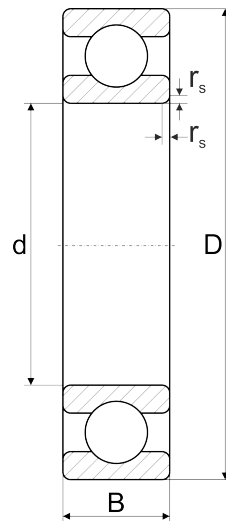


Bezeichnung Code	Dimensionen Dimensions				Tragzahlen Load Ratings		Max. Drehzahl Max. Speed				Gewicht Weight
SWC	d	D	B	r _s min	C ₀	C _{dyn}	Open	T200 2ZR	T200 2VSR	T250	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	
6000	10	26	8	0,3	1,96	4,55	30 000	22 222	19 000	16 667	0,019
6001	12	28	8	0,3	2,36	5,10	26 000	20 000	18 000	15 000	0,020
6002	15	32	9	0,3	2,85	5,60	24 000	17 021	16 000	12 766	0,031
6003	17	35	10	0,3	3,25	6,00	21 000	15 385	14 000	11 538	0,038
6004	20	42	12	0,6	5,00	9,30	19 000	12 903	12 000	9 677	0,068
6005	25	47	12	0,6	5,85	10,0	17 000	11 111	10 000	8 333	0,080
6006	30	55	13	1,0	8,00	12,7	14 000	9 412	8 500	7 059	0,122
6007	35	62	14	1,0	10,2	16,0	12 000	8 247	7 500	6 186	0,157
6008	40	68	15	1,0	11,6	16,6	11 000	7 407	6 700	5 556	0,194
6009	45	75	16	1,0	14,3	20,0	10 000	6 667	6 000	5 000	0,247
6010	50	80	16	1,0	15,6	20,8	9 000	6 154	5 600	4 615	0,272
6011	55	90	18	1,1	21,2	28,5	8 500	5 517	5 000	4 138	0,397
6012	60	95	18	1,1	23,2	29,0	7 500	5 161	4 500	3 871	0,404
6013	65	100	18	1,1	25,0	30,5	7 000	4 848	4 300	3 636	0,411
6014	70	110	20	1,1	31,0	38,0	6 700	4 444	4 000	3 333	0,594
6015	75	115	20	1,1	33,5	39,0	6 300	4 211	3 800	3 158	0,639
6016	80	125	22	1,1	40,0	47,5	6 000	3 902	3 300	2 927	0,844
6017	85	130	22	1,1	43,0	49,0	5 600	3 721	3 100	2 791	0,880
6018	90	140	24	1,5	50,0	58,5	5 300	3 478	3 000	2 609	1,010
6019	95	145	24	1,5	54,0	60,0	5 000	3 333	2 800	2 500	1,070
6020	100	150	24	1,5	54,0	60,0	4 800	3 200	2 600	2 400	1,140

Anmerkung:
Remark:

Das Gewicht gilt für das Lager ohne Schmierstoff und Deckel.
The weight applies for the bearing only without lubricant and shields.

62xx

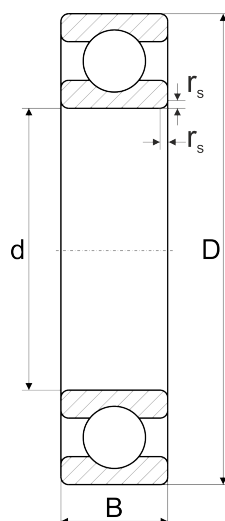


Bezeichnung Code SWC	Dimensionen Dimensions				Tragzahlen Load Ratings		Max. Drehzahl Max. Speed				Gewicht Weight ≈ [kg]
	d	D	B	r _s min	C ₀	C _{dyn}	Open	T200 2ZR	T200 2VSR	T250	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	
6200	10	30	9	0,6	2,60	6,00	26 000	20 000	17 000	15 000	0,031
6201	12	32	10	0,6	3,10	6,95	24 000	18 182	16 000	13 636	0,037
6202	15	35	11	0,6	3,75	7,80	22 000	16 000	14 000	12 000	0,043
6203	17	40	12	0,6	4,75	9,50	20 000	14 035	12 000	10 526	0,065
6204	20	47	14	1,0	6,55	12,7	18 000	11 940	10 000	8 955	0,105
6205	25	52	15	1,0	7,80	14,0	15 000	10 390	9 000	7 792	0,128
6206	30	62	16	1,0	11,2	19,3	13 000	8 696	7 500	6 522	0,195
6207	35	72	17	1,1	15,3	25,5	11 000	7 477	6 300	5 607	0,291
6208	40	80	18	1,1	18,0	29,0	10 000	6 667	5 600	5 000	0,371
6209	45	85	19	1,1	20,4	31,0	9 000	6 154	5 300	4 615	0,429
6210	50	90	20	1,1	24,0	36,5	8 500	5 714	4 800	4 286	0,466
6211	55	100	21	1,5	29,0	43,0	7 500	5 161	4 300	3 871	0,616
6212	60	110	22	1,5	36,0	52,0	7 000	4 706	4 000	3 529	0,789
6213	65	120	23	1,5	41,5	60,0	6 300	4 324	3 600	3 243	0,980
6214	70	125	24	1,5	44,0	62,0	6 000	4 103	3 400	3 077	1,060
6215	75	130	25	1,5	49,0	65,5	5 600	3 902	3 200	2 927	1,170
6216	80	140	26	2,0	53,0	72,0	5 300	3 636	3 000	2 727	1,390
6217	85	150	28	2,0	64,0	83,0	5 000	3 404	2 800	2 553	1,780
6218	90	160	30	2,0	72,0	96,5	4 800	3 200	2 500	2 400	2,140
6219	95	170	32	2,1	81,5	108,0	4 500	3 019	2 400	2 264	2,610
6220	100	180	34	2,1	93,0	122,0	4 300	2 857	2 400	2 143	3,130

Anmerkung:
Remark:

Das Gewicht gilt für das Lager ohne Schmierstoff und Deckel.
The weight applies for the bearing only without lubricant and shields.

63xx



Bezeichnung Code	Dimensionen Dimensions				Tragzahlen Load Ratings		Max. Drehzahl Max. Speed				Gewicht Weight
SWC	d	D	B	r _s min	C ₀	C _{dyn}	Active Lube				
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	Open	T200 2ZR	T200 2VSR	T250	≈ [kg]
6300	10	35	11	0,6	3,45	8,15	24 000	17 778	15 000	13 333	0,055
6301	12	37	12	1,0	4,15	9,65	22 000	16 327	13 000	12 245	0,062
6302	15	42	13	1,0	5,40	11,4	20 000	14 035	12 000	10 526	0,088
6303	17	47	14	1,0	6,55	13,4	18 000	12 500	11 000	9 375	0,114
6304	20	52	15	1,1	7,80	16,0	16 000	11 111	9 500	8 333	0,151
6305	25	62	17	1,1	11,4	22,4	14 000	9 195	7 500	6 897	0,234
6306	30	72	19	1,1	16,3	29,0	11 000	7 843	6 300	5 882	0,355
6307	35	80	21	1,5	19,0	33,5	9 500	6 957	5 600	5 217	0,471
6308	40	90	23	1,5	25,0	42,5	8 500	6 154	5 000	4 615	0,640
6309	45	100	25	1,5	31,5	53,0	7 500	5 517	4 500	4 138	0,847
6310	50	110	27	2,0	38,0	62,0	7 000	5 000	4 000	3 750	1,100
6311	55	120	29	2,0	47,5	76,5	6 700	4 571	3 600	3 429	1,390
6312	60	130	31	2,1	52,0	81,5	6 000	4 211	3 400	3 158	1,750
6313	65	140	33	2,1	60,0	93,0	5 300	3 902	3 000	2 927	2,070
6314	70	150	35	2,1	68,0	104,0	5 000	3 636	2 800	2 727	2,510
6315	75	160	37	2,1	76,5	114,0	4 800	3 404	2 600	2 553	3,010
6316	80	170	39	2,1	86,5	122,0	4 500	3 200	2 500	2 400	3,580
6317	85	180	41	3,0	96,5	132,0	4 300	3 019	2 400	2 264	4,220
6318	90	190	43	3,0	102,0	134,0	4 000	2 857	2 300	2 143	4,900
6319	95	200	45	3,0	112,0	143,0	3 800	2 712	2 200	2 034	5,660
6320	100	215	47	3,0	134,0	163,0	3 600	2 540	2 100	1 905	6,990

Anmerkung:
Remark:

Das Gewicht gilt für das Lager ohne Schmierstoff und Deckel.
The weight applies for the bearing only without lubricant and shields.



ACTIVE LUBE RADIAL INSERT BALL BEARINGS LAL-01

SWC Radial Insert Ball Bearings with the Suffix **LAL-01** are in compliance with the FAG S1 standard and suitable for **fast speeds and temperatures up to 90°C**.

All LAL-01 Radial Insert Ball Bearings come with the following benefits:

Radial clearance C3

Water and dust resistant

Manganese phosphate coating (according to EN ISO 9717)

ensures increased protection against corrosion, good adhesion of lubricants and better runability

Riveted sheet steel cage

provides high stability at low friction

High-quality lubricant

(suitable up to 90°C)

Two steel shields (2ZR) or two rubber seals (2RSR)

Broad assortment

Metric: UC204 ... UC213

Inch: UC204-12 ... UC213-40

Suitable housings

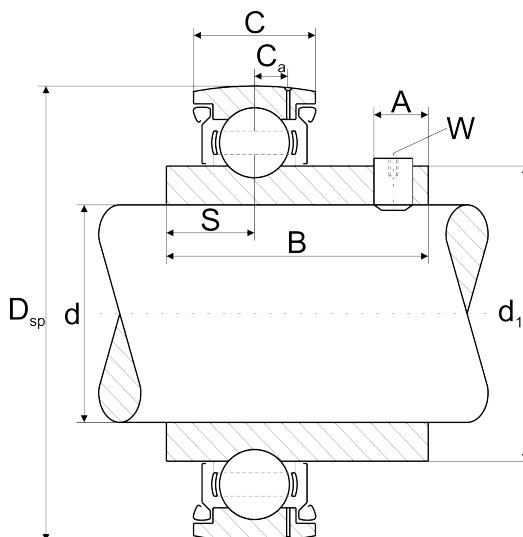
Plummer block housing (UCP)

Two-bolt flanged housing (UCFL)

Four-hole flanged housing (UCF)



Spannlager / Radial Insert Ball Bearings

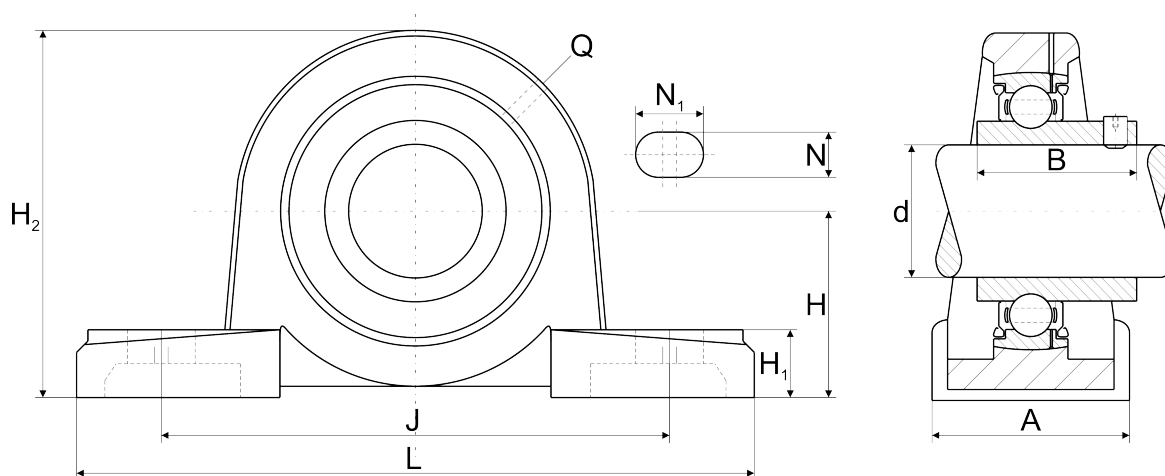


Bez. Code	Dimensionen Dimensions									Tragzahlen Load Ratings		Max. Drehzahl Max. Speed			Gewicht Weight
SWC	d	D _{sp}	C	B	S	d ₁	C _a	A	W	C _{0r}	C _r	T200	T250	HT	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	
UC204	20	47	17	31,0	12,7	27,56	4,2	5	3	6,6	12,8	8 000	8 000	140	0,15
UC204-12	19,05	47	17	31,0	12,7	27,56	4,2	5	1/8	6,6	12,8	8 000	8 000	140	0,16
UC205	25	52	17	34,1	14,3	33,83	4,2	5	3	7,8	14,0	7 200	7 200	130	0,20
UC205-16	25,40	52	17	34,1	14,3	33,83	4,2	5	1/8	7,8	14,0	7 200	7 200	130	0,19
UC206	30	62	19	38,1	15,9	40,20	5,0	5	3	11,3	19,5	6 000	6 000	110	0,31
UC206-18	28,58	62	19	38,1	15,9	40,20	5,0	5	1/8	11,3	19,5	6 000	6 000	110	0,33
UC207	35	72	20	42,9	17,5	46,84	5,7	7	4	15,3	25,5	5 000	5 000	90	0,47
UC207-20	31,75	72	20	42,9	17,5	46,84	5,7	7	5/32	15,3	25,5	5 000	5 000	90	0,52
UC208	40	80	21	49,2	19,0	52,27	6,2	8	4	19,8	32,5	4 500	4 500	80	0,62
UC208-24	38,10	80	21	49,2	19,0	52,27	6,2	8	5/32	19,8	32,5	4 500	4 500	80	0,66
UC209	45	85	22	49,2	19,0	57,91	6,3	8	4	20,4	32,5	4 300	4 300	80	0,69
UC209-28	44,45	85	22	49,2	19,0	57,91	6,3	8	5/32	20,4	32,5	4 300	4 300	80	0,71
UC210	50	90	24	51,6	19,0	62,84	6,5	10	5	23,2	35,0	3 800	3 800	70	0,80
UC210-30	47,63	90	24	51,6	19,0	62,84	6,5	10	3/16	23,2	35,0	3 800	3 800	70	0,87
UC211	55	100	25	55,6	22,2	69,77	7,0	10	5	29,0	43,5	3 400	3 400	60	1,07
UC211-32	50,80	100	25	55,6	22,2	69,77	7,0	10	3/16	29,0	43,5	3 400	3 400	60	1,22
UC212	60	110	27	65,1	25,4	76,48	7,4	10	5	36,0	52,0	3 200	3 200	50	1,49
UC212-36	57,15	110	27	65,1	25,4	76,48	7,4	10	3/16	36,0	52,0	3 200	3 200	50	1,62
UC213	65	120	28	65,1	25,4	80,85	8,2	12	6	40,0	57,0	3 000	3 000	50	1,73
UC213-40	63,50	120	28	65,1	25,4	80,85	8,2	12	1/4	40,0	57,0	3 000	3 000	50	1,82

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs are available on request.

UCP-Gehäuseeinheiten / UCP Housing Units

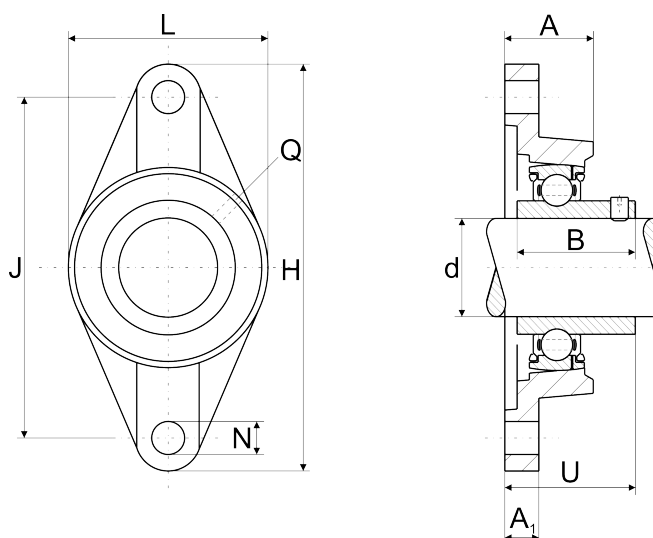


Bezeichnung Code	Dimensionen Dimensions											Gewicht Weight
SWC	d	H	J	L	A	H ₁	H ₂	N	N ₁	B	Q	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
UCP204	20	33,3	95	127	38	14	65	13	19	31,0	M6	0,65
UCP204-12	19,05	33,3	95	127	38	14	65	13	19	31,0	M6	0,66
UCP205	25	36,5	105	140	38	15	71	13	19	34,1	M6	0,79
UCP205-16	25,40	36,5	105	140	38	15	71	13	19	34,1	M6	0,79
UCP206	30	42,9	121	165	48	17	83	17	21	38,1	M6	1,29
UCP206-18	28,58	42,9	121	165	48	17	83	17	21	38,1	M6	1,31
UCP207	35	47,6	127	167	48	18	93	17	21	42,9	M6	1,55
UCP207-20	31,75	47,6	127	167	48	18	93	17	21	42,9	M6	1,60
UCP208	40	49,2	137	184	54	18	98	17	21	49,2	M6	1,84
UCP208-24	38,10	49,2	137	184	54	18	98	17	21	49,2	M6	1,89
UCP209	45	54,0	146	190	54	20	106	17	21	49,2	M6	2,20
UCP209-28	44,45	54,0	146	190	54	20	106	17	21	49,2	M6	2,21
UCP210	50	57,2	159	206	60	21	114	20	25	51,6	M6	2,77
UCP210-30	47,63	57,2	159	206	60	21	114	20	25	51,6	M6	2,85
UCP211	55	63,5	171	219	60	23	126	20	25	55,6	M6	3,41
UCP211-32	50,80	63,5	171	219	60	23	126	20	25	55,6	M6	3,56
UCP212	60	69,8	184	241	70	25	138	20	25	65,1	M6	4,62
UCP212-36	57,15	69,8	184	241	70	25	138	20	25	65,1	M6	4,75
UCP213	65	76,2	203	265	70	27	151	25	27	65,1	M6	5,57
UCP213-40	63,50	76,2	203	265	70	27	151	25	27	65,1	M6	5,66

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs are available on request.

UCFL-Gehäuseeinheiten / UCFL Housing Units

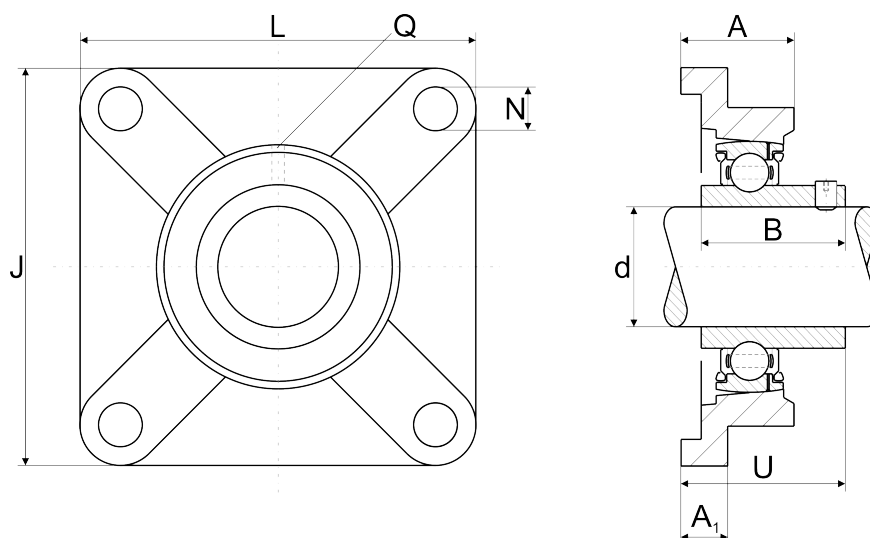


Bezeichnung Code	Dimensionen Dimensions										Gewicht Weight
SWC	d	H	J	L	A	A ₁	N	B	U	Q	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
UCFL204	20	113	90	60	25,5	12	12	31,0	33,3	M6	0,42
UCFL204-12	19,05	113	90	60	25,5	12	12	31,0	33,3	M6	0,43
UCFL205	25	130	99	68	27	15	16	34,1	35,8	M6	0,64
UCFL205-16	25,40	130	99	68	27	15	16	34,1	35,8	M6	0,64
UCFL206	30	148	117	80	31	14	16	38,1	40,2	M6	0,88
UCFL206-18	28,58	148	117	80	31	14	16	38,1	40,2	M6	0,90
UCFL207	35	161	130	90	34	16	16	42,9	44,4	M6	1,21
UCFL207-20	31,75	161	130	90	34	16	16	42,9	44,4	M6	1,27
UCFL208	40	175	144	100	36	16	16	49,2	51,2	M6	1,48
UCFL208-24	38,10	175	144	100	36	16	16	49,2	51,2	M6	1,53
UCFL209	45	188	148	108	38	18	19	49,2	52,2	M6	1,95
UCFL209-28	44,45	188	148	108	38	18	19	49,2	52,2	M6	1,97
UCFL210	50	197	157	115	40	18	19	51,6	54,6	M6	2,23
UCFL210-30	47,63	197	157	115	40	18	19	51,6	54,6	M6	2,30
UCFL211	55	224	184	130	43	20	19	55,6	58,4	M6	2,87
UCFL211-32	50,80	224	184	130	43	20	19	55,6	58,4	M6	3,02
UCFL212	60	250	202	140	48	20	23	65,1	68,7	M6	3,96
UCFL212-36	57,15	250	202	140	48	20	23	65,1	68,7	M6	4,10
UCFL213	65	258	210	155	50	24	23	65,1	69,7	M6	4,69
UCFL213-40	63,50	258	210	155	50	24	23	65,1	69,7	M6	4,78

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs are available on request.

UCF-Gehäuseeinheiten / UCF Housing Units



Bezeichnung Code	Dimensionen Dimensions									Gewicht Weight
SWC	d [mm]	J [mm]	L [mm]	A [mm]	A ₁ [mm]	N [mm]	B [mm]	U [mm]	Q	≈ [kg]
UCF204	20	64	86	25,5	12	12	31,0	33,3	M6	0,57
UCF204-12	19,05	64	86	25,5	12	12	31,0	33,3	M6	0,58
UCF205	25	70	95	27	14	12	34,1	35,8	M6	0,85
UCF205-16	25,40	70	95	27	14	12	34,1	35,8	M6	0,84
UCF206	30	83	108	31	14	12	38,1	40,2	M6	1,11
UCF206-18	28,58	83	108	31	14	12	38,1	40,2	M6	1,13
UCF207	35	92	117	34	16	14	42,9	44,4	M6	1,50
UCF207-20	31,75	92	117	34	16	14	42,9	44,4	M6	1,55
UCF208	40	102	130	36	16	16	49,2	51,2	M6	1,91
UCF208-24	38,10	102	130	36	16	16	49,2	51,2	M6	1,95
UCF209	45	105	137	38	18	16	49,2	52,2	M6	2,30
UCF209-28	44,45	105	137	38	18	16	49,2	52,2	M6	2,32
UCF210	50	111	143	40	18	16	51,6	54,6	M6	2,56
UCF210-30	47,63	111	143	40	18	16	51,6	54,6	M6	2,63
UCF211	55	130	163	43	20	19	55,6	58,4	M6	3,31
UCF211-32	50,80	130	163	43	20	19	55,6	58,4	M6	3,46
UCF212	60	141	175	48	20	19	65,1	68,7	M6	4,25
UCF212-36	57,15	141	175	48	20	19	65,1	68,7	M6	4,10
UCF213	65	149	187	50	20	19	65,1	69,7	M6	4,91
UCF213-40	63,50	149	187	50	20	19	65,1	69,7	M6	5,00

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs are available on request.



ACTIVE LUBE OPEN SPHERICAL ROLLER BEARINGS LAL-01

Open SWC Spherical Roller Bearings with the Suffix **LAL-01** are in compliance with the FAG S1 standard and suitable for **fast speeds and temperatures up to 90°C**.

All open LAL-01 Spherical Roller Bearings come with the following benefits:

Different versions

Cylindrical bore with radial clearance CN

Cylindrical bore with radial clearance C3

Tapered bore with radial clearance C3

Water and dust resistant

High-quality lubricant

Suitable up to 90°C and is maintenance free

Broad assortment

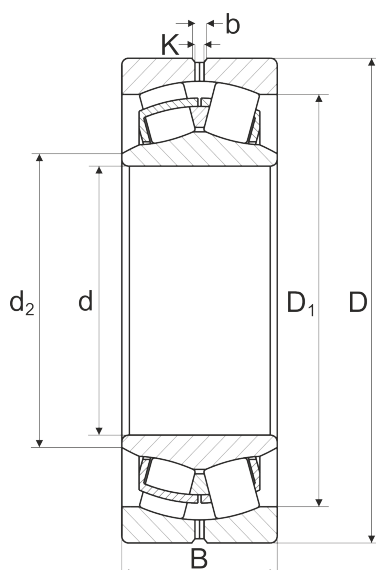
22208 ... 22222

22308 ... 22316

Matching adapter sleeves



Offene Pendelrollenlager 222xx / Open Spherical Roller Bearings 222xx



Bezeichnung Code	Dimensionen Dimensions							Tragzahlen und Faktoren Load Ratings and Factors						Gewicht Weight
SWC	d	D	B	D ₁	d ₂	b	K	C ₀	C _{dyn}	e	Y ₁	Y ₂	Y ₀	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]					
22208	40	80	23	69,4	50,3	5,5	3,0	80,7	90,7	0,29	2,35	3,50	2,30	0,536
22209	45	85	23	73,6	54,5	5,5	3,0	84,2	97,6	0,27	2,50	3,72	2,44	0,597
22210	50	90	23	78,8	59,7	5,5	3,0	86,7	103,5	0,25	2,71	4,04	2,65	0,641
22211	55	100	25	88,0	65,9	5,5	3,0	102,0	119,0	0,26	2,64	3,93	2,58	0,849
22212	60	110	28	96,5	72,6	5,5	3,0	127,0	154,0	0,25	2,71	4,04	2,65	1,200
22213	65	120	31	104,0	78,4	5,5	3,0	151,0	188,0	0,27	2,49	3,71	2,43	1,610
22214	70	125	31	109,6	83,3	5,5	3,0	161,0	204,0	0,24	2,83	4,21	2,77	1,680
22215	75	130	31	114,9	88,2	5,5	3,0	167,0	215,0	0,25	2,74	4,08	2,68	1,770
22216	80	140	33	122,8	95,1	5,5	3,0	181,0	237,0	0,22	3,01	4,48	2,94	2,200
22217	85	150	36	131,8	100,3	5,5	3,0	216,0	277,0	0,23	2,95	4,40	2,89	2,730
22218	90	160	40	141,0	108,0	5,5	3,0	252,0	332,0	0,23	2,90	4,31	2,83	3,470
22219	95	170	43	148,5	113,5	8,3	4,5	285,0	380,0	0,26	2,64	3,93	2,58	4,320
22220	100	180	46	158,1	120,5	8,3	4,5	317,0	423,0	0,26	2,55	3,80	2,50	5,100
22222	110	200	53	173,8	132,5	8,3	4,5	414,0	574,0	0,26	2,55	3,80	2,50	7,690

Die Werte aus der Tabelle gelten unabhängig von Radialluft und Bohrung.

The values in the table apply independent of radial clearance and bore.

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs available on request.



ACTIVE LUBE SEALED SPHERICAL ROLLER BEARINGS LAL-01

Sealed SWC Spherical Roller Bearings with the Suffix **LAL-01** are in compliance with the FAG S1 standard and suitable for **fast speeds and temperatures up to 90°C**.

All sealed LAL-01 Spherical Roller Bearings come with the following benefits:

Cylindrical bore

Radial clearance CN

Water and dust resistant

High-quality lubricant

Suitable up to 90°C and is maintenance free

Two Viton seals (2VSR)

Good protection against water, dust and some chemicals type

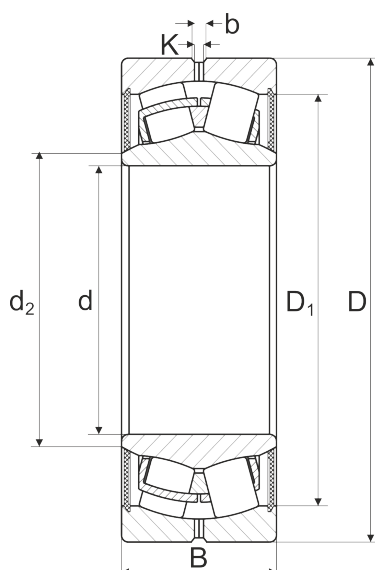
Broad assortment

BS22208 ... BS22222

BS22308 ... BS22316



Abgedichtete Pendelrollenlager BS222xx / Sealed Spherical Roller Bearings BS222xx



Bezeichnung Code	Dimensionen Dimensions							Tragzahlen und Faktoren Load Ratings and Factors						Gewicht Weight
SWC	d	D	B	D ₁	d ₂	b	K	C ₀	C _{dyn}	e	Y ₁	Y ₂	Y ₀	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]					
BS22208	40	80	28	72,0	48,4	5,5	3,0	80,7	90,7	0,29	2,35	3,50	2,30	0,570
BS22209	45	85	28	77,6	52,8	5,5	3,0	84,2	97,6	0,27	2,50	3,72	2,44	0,660
BS22210	50	90	28	82,5	57,7	5,5	3,0	86,7	103,5	0,25	2,71	4,04	2,65	0,700
BS22211	55	100	31	92,1	63,8	5,5	3,0	102,0	119,0	0,26	2,64	3,93	2,58	1,000
BS22212	60	110	34	99,8	71,2	5,5	3,0	127,0	154,0	0,25	2,71	4,04	2,65	1,300
BS22213	65	120	38	110,0	77,3	5,5	3,0	151,0	188,0	0,27	2,49	3,71	2,43	1,600
BS22214	70	125	38	115,0	81,9	5,5	3,0	161,0	204,0	0,24	2,83	4,21	2,77	1,800
BS22215	75	130	38	120,0	87,0	5,5	3,0	167,0	215,0	0,25	2,74	4,08	2,68	2,100
BS22216	80	140	40	129,0	93,0	5,5	3,0	181,0	237,0	0,22	3,01	4,48	2,94	2,400
BS22217	85	150	44	136,5	97,2	8,3	4,5	216,0	277,0	0,23	2,95	4,40	2,89	3,000
BS22218	90	160	48	149,0	104,0	8,3	4,5	252,0	332,0	0,23	2,90	4,31	2,83	3,700
BS22219	95	170	51	154,4	110,4	8,3	4,5	285,0	380,0	0,26	2,64	3,93	2,58	4,650
BS22220	100	180	55	165,5	117,2	8,3	4,5	317,0	423,0	0,26	2,55	3,80	2,50	5,350
BS22222	110	200	63	182,5	128,8	8,3	4,5	414,0	574,0	0,26	2,55	3,80	2,50	7,600

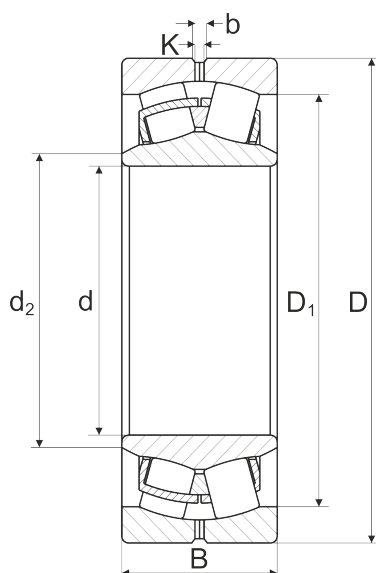
Die Werte aus der Tabelle gelten unabhängig von Radialluft und Bohrung.

The values in the table apply independent of radial clearance and bore.

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs available on request.

Offene Pendelrollenlager 223xx / Open Spherical Roller Bearings 223xx



Bezeichnung Code	Dimensionen Dimensions							Tragzahlen und Faktoren Load Ratings and Factors						Gewicht Weight
SWC	d	D	B	D ₁	d ₂	b	K	C ₀	C _{dyn}	e	Y ₁	Y ₂	Y ₀	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]					
22308	40	90	33	75,2	50,5	5,5	3,0	122,0	132,0	0,39	1,75	2,61	1,71	1,030
22309	45	100	36	83,8	56,8	5,5	3,0	141,0	154,0	0,39	1,71	2,54	1,67	1,430
22310	50	110	40	92,2	62,5	5,5	3,0	173,0	192,0	0,38	1,78	2,65	1,74	1,870
22311	55	120	43	100,5	68,7	5,5	3,0	213,0	248,0	0,37	1,80	2,69	1,76	2,430
22312	60	130	46	109,0	74,8	5,5	3,0	243,0	284,0	0,37	1,80	2,69	1,76	3,010
22313	65	140	48	117,4	81,3	5,5	3,0	266,0	313,0	0,35	1,92	2,86	1,88	3,530
22314	70	150	51	125,9	88,1	8,3	4,5	300,0	362,0	0,35	1,95	2,91	1,91	4,370
22315	75	160	55	133,8	94,5	8,3	4,5	351,0	437,0	0,36	1,87	2,79	1,83	5,500
22316	80	170	58	142,5	100,4	8,3	4,5	396,0	497,0	0,36	1,87	2,79	1,83	6,540

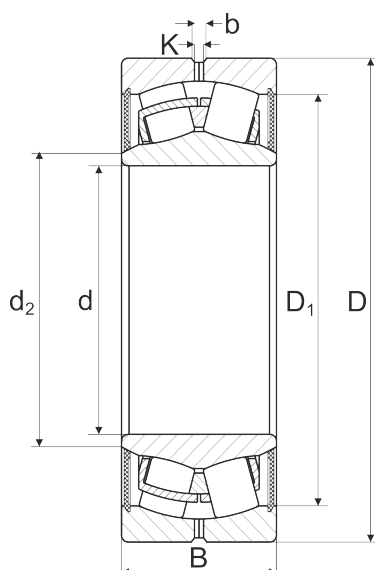
Die Werte aus der Tabelle gelten unabhängig von Radialluft und Bohrung.

The values in the table apply independent of radial clearance and bore.

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs available on request.

Abgedichtete Pendelrollenlager BS223xx / Sealed Spherical Roller Bearings BS223xx



Bezeichnung Code	Dimensionen Dimensions							Tragzahlen und Faktoren Load Ratings and Factors						Gewicht Weight
SWC	d	D	B	D ₁	d ₂	b	K	C ₀	C _{dyn}	e	Y ₁	Y ₂	Y ₀	≈ [kg]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]					
BS22308	40	90	38	80,2	50,5	5,5	3,0	122,0	132,0	0,39	1,75	2,61	1,71	1,200
BS22309	45	100	42	89,0	55,4	5,5	3,0	141,0	154,0	0,39	1,71	2,54	1,67	1,600
BS22310	50	110	45	98,0	60,8	5,5	3,0	173,0	192,0	0,38	1,78	2,65	1,74	2,100
BS22311	55	120	49	108,0	67,0	5,5	3,0	213,0	248,0	0,37	1,80	2,69	1,76	2,800
BS22312	60	130	53	117,0	72,2	5,5	3,0	243,0	284,0	0,37	1,80	2,69	1,76	3,400
BS22313	65	140	56	126,0	78,2	5,5	3,0	266,0	313,0	0,35	1,92	2,86	1,88	4,150
BS22314	70	150	60	135,5	83,9	8,3	4,5	300,0	362,0	0,35	1,95	2,91	1,91	5,100
BS22315	75	160	64	144,1	91,3	8,3	4,5	351,0	437,0	0,36	1,87	2,79	1,83	6,500
BS22316	80	170	67	153,2	96,9	8,3	4,5	396,0	497,0	0,36	1,87	2,79	1,83	7,200

Die Werte aus der Tabelle gelten unabhängig von Radialluft und Bohrung.

The values in the table apply independent of radial clearance and bore.

Informationen zu anderen Ausführungen auf Anfrage.

Information on other designs available on request.

Maximale Drehzahlen / Maximum Speed

Offene Pendelrollenlager Open Spherical Roller Bearings

Bezeichnung Code SWC	Max. Drehzahl Max. Speed			
	Öl / Oil		Fett / Grease	
	T200 [min ⁻¹]	T250 [min ⁻¹]	T200 [min ⁻¹]	T250 [min ⁻¹]
22208	6 900	6 900	5 200	5 200
22209	6 500	6 500	4 900	4 900
22210	6 000	6 000	4 500	4 500
22211	5 400	5 400	4 100	4 100
22212	4 900	4 900	3 700	3 700
22213	4 600	4 600	3 400	3 400
22214	4 300	4 300	3 200	3 200
22215	4 100	4 100	3 100	3 100
22216	3 800	3 800	2 900	2 900
22217	3 600	3 600	2 700	2 700
22218	3 300	3 300	2 500	2 500
22219	3 200	3 200	2 400	2 400
22220	3 000	3 000	2 200	2 200
22222	2 700	2 700	2 000	2 000
22308	5 300	5 300	4 000	4 000
22309	4 800	4 800	3 600	3 600
22310	4 300	4 300	3 200	3 200
22311	3 900	3 900	3 000	3 000
22312	3 600	3 600	2 700	2 700
22313	3 400	3 400	2 500	2 500
22314	3 100	3 100	2 400	2 400
22315	2 900	2 900	2 200	2 200
22316	2 100	2 100	1 600	1 600

Abgedichtete Pendelrollenlager Sealed Spherical Roller Bearings

Bezeichnung Code SWC	Max. Drehzahl Max. Speed	
	2VSR	
	T200 [min ⁻¹]	T250 [min ⁻¹]
BS22208	2 200	2 200
BS22209	2 000	2 000
BS22210	1 900	1 900
BS22211	1 700	1 700
BS22212	1 600	1 600
BS22213	1 500	1 500
BS22214	1 400	1 400
BS22215	1 300	1 300
BS22216	1 200	1 200
BS22217	1 100	1 100
BS22218	1 000	1 000
BS22219	950	950
BS22220	900	900
BS22222	800	800
BS22308	1 900	1 900
BS22309	1 500	1 500
BS22310	1 400	1 400
BS22311	1 400	1 400
BS22312	1 100	1 100
BS22313	1 000	1 000
BS22314	900	900
BS22315	950	950
BS22316	800	800