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BEHAM Maßliste 1W-01|16-A2

[1] Wälzlager

- Rillenkugellager
- Schrägkugellager
- Vierpunktlager
- Pendelkugellager
- Tonnenlager
- Pendelrollenlager
- Zylinderrollenlager
- Kegelrollenlager
- Axial-Rillenkugellager
- Axial-Zylinderrollenlager

Wälzlager Übersicht
Index Baureihen

BEHAM

Wälzlager Inhalt

1	BEHAM Maßliste 1W-01|16
3	WÄLZLAGER Übersicht
5	Rillenkugellager
5	Rillenkugellager Allgemeines
6	Rillenkugellager einreihig
22	Rillenkugellager zweireihig
23	Schrägkugellager
23	Schrägkugellager Allgemeines
25	Schrägkugellager einreihig
28	Schrägkugellager zweireihig
34	Vierpunktlager
34	Vierpunktlager Allgemeines
35	Vierpunktlager
37	Pendelkugellager
37	Pendelkugellager Allgemeines
38	Pendelkugellager zylindrisch | konisch
44	Pendelkugellager mit breitem Innenring
45	Pendelkugellager mit Spannhülse
47	Tonnenlager
47	Tonnenlager Allgemeines
48	Tonnenlager zylindrisch | konisch
51	Tonnenlager konisch mit Spannhülse
52	Pendelrollenlager
52	Pendelrollenlager Allgemeines
54	Pendelrollenlager zylindrisch | konisch
74	Pendelrollenlager mir Spannhülse
81	Pendelrollenlager mit Abziehhülse
90	Zylinderrollenlager
90	Zylinderrollenlager Allgemeines
92	Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU
99	Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP
110	Hochgenauigkeitslager | 2-reihig | Reihe NN
111	Zylinderrollenlager mit Scheibenkäfig | Reihe LSL
112	Zylinderrollenlager mit Zwischenstücken | Reihe ZSL
113	Zylinderrollenlager vollrollig | 1 -reihig | Reihe SL 18..
120	Zylinderrollenlager mit Ringnuten | vollrollig, abgedichtet | Reihe SL 04..PP
122	Kegelrollenlager
122	Kegelrollenlager Allgemeines
123	Kegelrollenlager einreihig
131	Kegelrollenlager zusammengepasst
132	Kegelrollenlager Zollabmessungen
133	Axialrillenkugellager
133	Axialrillenkugellager Allgemeines
134	Axialrillenkugellager einseitig wirkend
141	zweiseitig wirkend
145	Axial-Zylinderrollenlager
145	Axial-Zylinderrollenlager Allgemeines
146	Axialzylinderrollenlager | Axial-Zylinderrollenkränze | Axiallagerscheiben
152	Index - Baureihen

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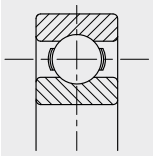
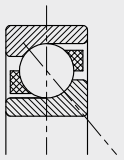
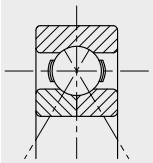
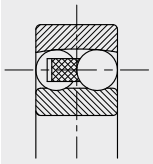
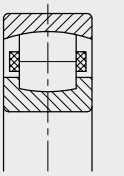
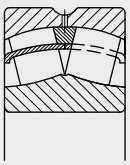
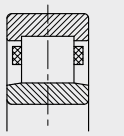
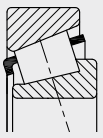
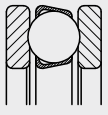
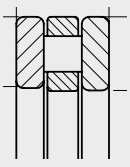
5	RILLENKUGELLAGER	
23	SCHRÄGKUGELLAGER	
34	VIERPUNKTLAGER	
37	PENDELKUGELLAGER	
47	TONNENLAGER	
52	PENDELROLLENLAGER	
90	ZYLINDERROLLENLAGER	
122	KEGELROLLENLAGER	
133	AXIALRILLENKUGELLAGER	
145	AXIAL-ZYLINDERROLLENLAGER	
152	INDEX - BAUREIHEN	

BEHAM Maßliste 1W-01 | 16 - Auflage 02 (PDF-Version)

Trotz großer Sorgfalt können wir Druck- und Satzfehler nicht ausschließen. Wir können daher keine Garantie für die Richtigkeit der angegebenen Zeichnungen und Maße übernehmen. Dieser Katalog stellt nur einen Auszug aus unserem reichhaltigen Lieferprogramm dar. Für Typen die nicht im Katalog angeführt sind, erbitten wir Ihre gesonderte Anfrage.

Die technischen Angaben (Tragzahlen, Drehzahlen,...) in diesem Katalog beziehen sich auf Westfabrikate. Bei Verwendung von bauformgleichen Alternativfabrikaten (Ostware) können die techn. Daten abweichen und kann somit keine Gewährleistung übernommen werden.

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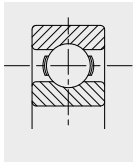
Rillenkugellager Allgemeines

Typen



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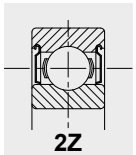
160.. 60.. 62.. 63.. 64..
618.. 619..



mit Spaltdichtungen:
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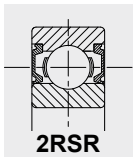
618..-2Z 619..-2Z



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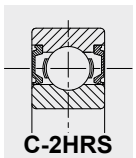
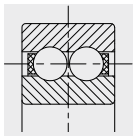
618..-2RSR 619..-2RSR



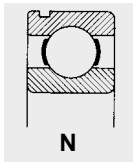
mit Lippend. - modifizierte Ausführung
60..-C-2HRS 62..-C-2HRS 63..-C-2HRS
618..-C-2HRS 619..-C-2HRS



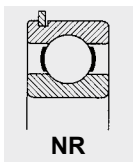
zweireihig
42..-B 43..-B

Ausführungen in NIRO auf Anfrage.

Bauformen mit Nut



Ringnut im Mantel des Außenringes



Ringnut im Mantel des Außenringes und zugehöriger Sprengring (zur axialen Festlegung des Lagers im Gehäuse)

Nachsetzzeichen

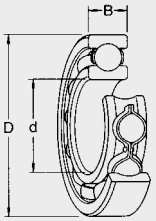
- M	Massivkäfig aus Messing, kugelgeführt
- DB	2 Rillenkugellager in O-Anordnung spielfrei zusammengepasst
- DF	2 Rillenkugellager in X-Anordnung spielfrei zusammengepasst
- DT	2 Rillenkugellager in Tandem-Anordnung spielfrei zusammengepasst
- 2RSR	beidseitig Lippendichtung
- TVH	Käfig aus glasfaserverstärktem Polyamid
- Y	Blechkäfig aus Messing
- 2Z	beidseitig Spaltdichtung

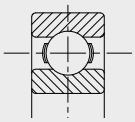
Lagerluft

Radiale Lagerluft für Lager mit zylindrischer Bohrung:
Lagerluftgruppe CN nach DIN 620-4.

Bohrung d mm über	bis	radiale Lagerluft C2 µm min.	C2 µm max.	CN µm min.	CN µm max.	C3 µm min.	C3 µm max.	C4 µm min.	C4 µm max.
1.5	6	0	7	2	13	8	23	–	–
6	10	0	7	2	13	8	23	14	29
10	18	0	9	3	18	11	25	18	33
18	24	0	10	5	20	13	28	20	36
24	30	1	11	5	20	13	28	23	41
30	40	1	11	6	20	15	33	28	46
40	50	1	11	6	23	18	36	30	51
50	65	1	15	8	28	23	43	38	61
65	80	1	15	10	30	25	51	46	71
80	100	1	18	12	36	30	58	53	84
100	120	2	20	15	41	36	66	61	97
120	140	2	23	18	48	41	81	71	114
140	160	2	23	18	53	46	91	81	130
160	180	2	25	20	61	53	102	91	147
180	200	2	30	25	71	63	117	107	163
200	225	2	35	25	85	75	140	125	195
225	250	2	40	30	95	85	160	145	225
250	280	2	45	35	105	90	170	155	245
280	315	2	55	40	115	100	190	175	270
315	355	3	60	45	125	110	210	195	300
355	400	3	70	55	145	130	240	225	340
400	450	3	80	60	170	150	270	250	380
450	500	3	90	70	190	170	300	280	420
500	560	10	100	80	210	190	330	310	470
560	630	10	110	90	230	210	360	340	520
630	710	20	130	110	260	260	400	380	570
710	800	20	140	120	290	270	450	430	630
800	900	20	160	140	320	300	500	480	700

Rillenkugellager einreihig





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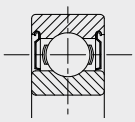
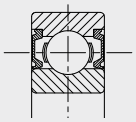


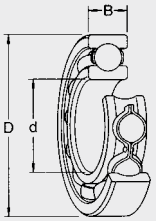
2Z

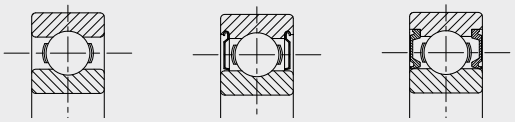


2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
623	3	10	4	640	220	10.6	53000	57000	0.001
623-2RSR	3	10	4	640	220	10.6	32000	–	0.001
623-2Z	3	10	4	640	220	10.6	45000	57000	0.001
624	4	13	5	1290	490	24.6	45000	46500	0.003
624-2RSR	4	13	5	1290	490	24.6	26000	–	0.003
624-2Z	4	13	5	1290	490	24.6	38000	46500	0.004
634	4	16	5	1730	670	35.5	43000	35000	0.006
634-2RSR	4	16	5	1730	670	35.5	24000	–	0.006
634-2Z	4	16	5	1730	670	35.5	36000	35000	0.006
625	5	16	5	1320	440	22.4	43000	36500	0.005
625-2RSR	5	16	5	1320	440	22.4	24000	–	0.005
625-2Z	5	16	5	1320	440	22.4	36000	36500	0.005
635	5	19	6	2600	1100	53	40000	31500	0.008
635-2RSR	5	19	6	2600	1100	53	22000	–	0.008
635-2Z	5	19	6	2600	1100	53	32000	31500	0.029
626	6	19	6	2600	1100	53	38000	32500	0.008
626-2RSR	6	19	6	2600	1100	53	22000	–	0.008
626-2Z	6	19	6	2600	1100	53	32000	32500	0.029
607	7	19	6	2600	1100	53	38000	34500	0.007
607-2RSR	7	19	6	2600	1100	53	22000	–	0.007
607-2Z	7	19	6	2600	1100	53	32000	35500	0.008
627	7	22	7	3250	1370	72	36000	30000	0.011
627-2RSR	7	22	7	3250	1370	72	20000	–	0.011
627-2Z	7	22	7	3250	1370	72	30000	30000	0.012
608	8	22	7	3250	1370	72	36000	31500	0.01
608-2RSR	8	22	7	3250	1370	72	20000	–	0.01
608-2Z	8	22	7	3250	1370	72	30000	32500	0.011
609	9	24	7	3650	1630	89	36000	28500	0.015
609-2RSR	9	24	7	3650	1630	89	20000	–	0.016
609-2Z	9	24	7	3650	1630	89	30000	29000	0.016
629	9	26	8	4550	1960	93	34000	25500	0.02

Rillenkugellager einreihig

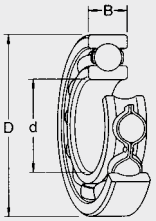


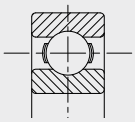


offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
629-2RSR	9	26	8	4550	1960	93	19000	–	0.021
629-2Z	9	26	8	4550	1960	93	28000	25500	0.021
61800	10	19	5	1450	590	29.5	43000	27500	0.006
61800-2RSR	10	19	5	1450	590	29.5	18000	-	0.006
61800-2Z	10	19	5	1450	590	29.5	36000	27500	0.006
61900	10	22	6	2200	840	42.5	40000	27000	0.01
61900-2RSR	10	22	6	2200	840	42.5	17300	-	0.01
61900-2Z	10	22	6	2200	840	42.5	34000	27000	0.01
6000	10	26	8	4550	1960	93	34000	28500	0.019
6000-2RSR	10	26	8	4550	1960	93	19000	–	0.02
6000-2Z	10	26	8	4550	1960	93	28000	28500	0.02
6200	10	30	9	6000	2600	171	32000	23400	0.031
6200-2RSR	10	30	9	6000	2600	171	17000	–	0.032
6200-2Z	10	30	9	6000	2600	171	26000	23400	0.032
62200-2RSR	10	30	14	6000	2600	158	17000	–	0.048
6300	10	35	11	8150	3450	230	56000	21100	0.055
6300-2RSR	10	35	11	8150	3450	230	15000	–	0.057
6300-2Z	10	35	11	8150	3450	230	22000	21100	0.057
61801	12	21	5	1520	670	33.5	38000	23600	0.006
61801-2RSR	12	21	5	1520	670	33.5	18000	-	0.006
61801-2Z	12	21	5	1520	670	33.5	32000	23600	0.006
61901	12	24	6	2360	980	49.5	36000	23500	0.012
61901-2RSR	12	24	6	2360	980	49.5	18000	-	0.012
61901-2Z	12	24	6	2360	980	49.5	30000	23500	0.012
6001	12	28	8	5100	2360	130	32000	25000	0.02
6001-2RSR	12	28	8	5100	2360	130	18000	–	0.022
6001-2Z	12	28	8	5100	2360	130	26000	25000	0.02
6201	12	32	10	6950	3100	198	30000	22200	0.037
6201-2RSR	12	32	10	6950	3100	198	16000	–	0.039
6201-2Z	12	32	10	6950	3100	198	24000	22200	0.039
62201-2RSR	12	32	14	6950	3100	198	16000	–	0.051

Rillenkugellager einreihig





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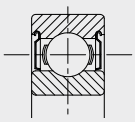

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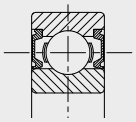
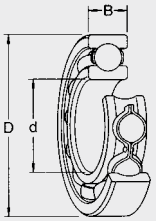
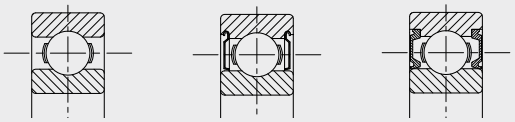


2RSR

Type	**Abmessungen** *(mm)*			**Tragzahlen** *(N)*		**Ermüdungs-grenzbelastung** *(N)*	**Grenz-drehzahl** *min–1*	**Bezugs-drehzahl** *min–1*	**Masse** *(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6301	12	37	12	9650	4150	280	53000	20000	0.062
6301-2RSR	12	37	12	9650	4150	280	13000	–	0.064
6301-2Z	12	37	12	9650	4150	280	20000	20000	0.064
61802	15	24	5	1650	800	40.5	34000	19300	0.008
61802-2RSR	15	24	5	1650	800	40.5	16000	-	0.008
61802-2Z	15	24	5	1650	800	40.5	28000	19300	0.008
61902	15	28	7	4350	2260	125	30000	20600	0.017
61902-2RSR	15	28	7	4350	2260	125	15000	-	0.017
61902-2Z	15	28	7	4350	2260	125	24000	20600	0.017
16002	15	32	8	5600	2850	144	30000	20000	0.027
6002	15	32	9	5600	2850	134	30000	22000	0.031
6002-2RSR	15	32	9	5600	2850	134	16000	–	0.033
6002-2Z	15	32	9	5600	2850	134	24000	22000	0.033
6202	15	35	11	7800	3750	220	26000	20200	0.043
6202-2RSR	15	35	11	7800	3750	220	14000	–	0.045
6202-2Z	15	35	11	7800	3750	220	20000	20200	0.045
62202-2RSR	15	35	14	7800	3750	220	14000	–	0.057
6302	15	42	13	11400	5400	350	43000	17500	0.088
6302-2RSR	15	42	13	11400	5400	350	12000	–	0.09
6302-2Z	15	42	13	11400	5400	350	18000	17500	0.09
62302-2RSR	15	42	17	11400	5400	350	12000	–	0.114
61803	17	26	5	1770	930	47	30000	17200	0.008
61803-2RSR	17	26	5	1770	930	47	15000	-	0.008
61803-2Z	17	26	5	1770	930	47	24000	17200	0.008
61903	17	30	7	4600	2550	135	28000	18500	0.019
61903-2RSR	17	30	7	4600	2550	135	14000	-	0.019
61903-2Z	17	30	7	4600	2550	135	22000	18500	0.019
16003	17	35	8	6000	3250	157	28000	17700	0.03
6003	17	35	10	6000	3250	157	28000	21000	0.038
6003-2RSR	17	35	10	6000	3250	157	14000	–	0.04
6003-2Z	17	35	10	6000	3250	157	22000	21000	0.04

Rillenkugellager einreihig

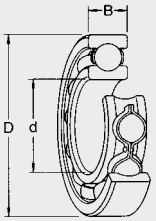


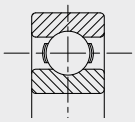


offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6203	17	40	12	9500	4750	275	22000	18100	0.065
6203-2RSR	17	40	12	9500	4750	275	12000	–	0.067
6203-2Z	17	40	12	9500	4750	275	18000	18100	0.067
62203-2RSR	17	40	16	9500	4750	280	12000	–	0.087
6303	17	47	14	13400	6550	425	30000	15900	0.114
6303-2RSR	17	47	14	13400	6550	425	11000	–	0.118
6303-2Z	17	47	14	13400	6550	425	16000	15900	0.117
62303-2RSR	17	47	19	13400	6550	425	11000	–	0.154
6403	17	62	17	22400	11400	750	28000	13700	0.269
61804	20	32	7	3900	2320	117	24000	16600	0.018
61804-2RSR	20	32	7	3900	2320	117	11500	-	0.018
61804-2Z	20	32	7	3900	2320	117	19000	16600	0.018
61904	20	37	9	6300	3700	191	22000	17000	0.037
61904-2RSR	20	37	9	6300	3700	191	11500	-	0.037
61904-2Z	20	37	9	6300	3700	191	18000	17000	0.037
16004	20	42	8	6950	4050	202	22000	14300	0.05
6004	20	42	12	9300	5000	285	20000	18900	0.069
6004-2RSR	20	42	12	9300	5000	285	12000	–	0.071
6004-2Z	20	42	12	9300	5000	285	17000	18900	0.071
6204	20	47	14	12700	6550	440	18000	16300	0.106
6204-2RSR	20	47	14	12700	6550	440	10000	–	0.11
6204-2Z	20	47	14	12700	6550	440	15000	16300	0.11
62204-2RSR	20	47	18	12700	6550	385	10000	–	0.139
6304	20	52	15	16000	7800	530	34000	14400	0.151
6304-2RSR	20	52	15	16000	7800	530	9500	–	0.155
6304-2Z	20	52	15	16000	7800	530	14000	14400	0.155
62304-2RSR	20	52	21	16000	7800	495	9500	–	0.209
6404	20	72	19	29000	16300	1020	24000	12100	0.414
61805	25	37	7	4150	2600	132	20000	13500	0.023
61805-2RSR	25	37	7	4150	2600	132	9800	-	0.023
61805-2Z	25	37	7	4150	2600	132	17000	13500	0.023

Rillenkugellager einreihig





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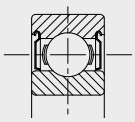

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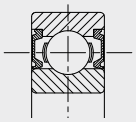
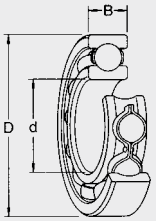
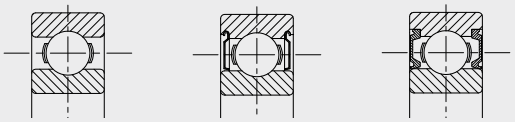


2RSR

Type	**Abmessungen** *(mm)*			**Tragzahlen** *(N)*		**Ermüdungs-grenzbelastung** *(N)*	**Grenz-drehzahl** *min–1*	**Bezugs-drehzahl** *min–1*	**Masse** *(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
61905	25	42	9	6900	4350	219	19000	14000	0.042
61905-2RSR	25	42	9	6900	4350	219	9800	-	0.042
61905-2Z	25	42	9	6900	4350	219	16000	14000	0.042
16005	25	47	8	7200	4650	215	19000	12000	0.055
6005	25	47	12	10000	5850	305	36000	15800	0.081
6005-2RSR	25	47	12	10000	5850	305	10000	–	0.085
6005-2Z	25	47	12	10000	5850	305	15000	15800	0.083
6205	25	52	15	14000	7800	510	17000	14400	0.129
6205-2RSR	25	52	15	14000	7800	510	9000	–	0.133
6205-2Z	25	52	15	14000	7800	510	14000	14400	0.133
62205-2RSR	25	52	18	14000	7800	415	9000	–	0.157
6305	25	62	17	22400	11400	750	28000	12300	0.234
6305-2RSR	25	62	17	22400	11400	750	7500	–	0.242
6305-2Z	25	62	17	22400	11400	750	11000	12300	0.24
62305-2RSR	25	62	24	22400	11400	750	7500	–	0.272
6405	25	80	21	33500	19000	1250	20000	11000	0.549
61806	30	42	7	4300	2900	249	18000	11300	0.027
61806-2RSR	30	42	7	4300	2900	249	8400	-	0.027
61806-2Z	30	42	7	4300	2900	249	15000	11300	0.027
61906	30	47	9	7000	4600	231	17000	11900	0.048
61906-2RSR	30	47	9	7000	4600	231	8100	-	0.048
61906-2Z	30	47	9	7000	4600	231	14000	11900	0.048
16006	30	55	9	11200	7350	365	16000	10400	0.082
6006	30	55	13	12700	8000	390	32000	13600	0.122
6006-2RSR	30	55	13	12700	8000	390	8500	–	0.126
6006-2Z	30	55	13	12700	8000	390	13000	13600	0.126
6206	30	62	16	19300	11200	680	14000	12000	0.195
6206-2RSR	30	62	16	19300	11200	680	7500	–	0.201
6206-2Z	30	62	16	19300	11200	680	11000	12000	0.201
62206-2RSR	30	62	20	19300	11200	680	7500	–	0.245
6306	30	72	19	29000	16300	1020	24000	10800	0.355

Rillenkugellager einreihig

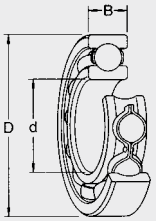


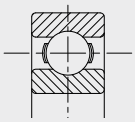


offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6306-2RSR	30	72	19	29000	16300	1020	6300	–	0.365
6306-2Z	30	72	19	29000	16300	1020	9500	10800	0.363
62306-2RSR	30	72	27	29000	16300	1020	6300	–	0.499
61807	35	47	7	4450	3200	285	16000	9600	0.03
61807-2RSR	35	47	7	4450	3200	285	7300	-	0.03
61807-2Z	35	47	7	4450	3200	285	13000	9600	0.03
61907	35	55	10	9500	6800	325	14000	10500	0.076
61907-2RSR	35	55	10	9500	6800	325	6900	-	0.076
61907-2Z	35	55	10	9500	6800	325	11000	10500	0.076
16007	35	62	9	12200	8800	415	14000	8900	0.105
6007	35	62	14	16000	10200	550	28000	12100	0.157
6007-2RSR	35	62	14	16000	10200	550	7500	–	0.163
6007-2Z	35	62	14	16000	10200	550	11000	12100	0.163
6207	35	72	17	25500	15300	920	24000	10300	0.291
6207-2RSR	35	72	17	25500	15300	920	6300	–	0.301
6207-2Z	35	72	17	25500	15300	920	9500	10300	0.299
62207-2RSR	35	72	23	25500	15300	920	6300	–	0.393
6307	35	80	21	33500	19000	1250	20000	9900	0.471
6307-2RSR	35	80	21	33500	19000	1250	5600	–	0.483
6307-2Z	35	80	21	33500	19000	1250	8500	9900	0.481
62307-2RSR	35	80	31	33500	19000	1250	5600	–	0.687
6407	35	100	25	53000	31500	2180	16000	8900	0.971
61808	40	52	7	4600	3500	320	14000	8400	0.032
61808-2RSR	40	52	7	4600	3500	320	6500	-	0.032
61808-2Z	40	52	7	4600	3500	320	11000	8400	0.032
61908	40	62	12	13700	10000	540	12000	10000	0.11
61908	40	62	12	13700	10000	540	28000	10000	0.11
61908-2RSR	40	62	12	13700	10000	540	6100	-	0.11
61908-2RSR	40	62	12	13700	10000	540	7000	–	0.11
61908-2Z	40	62	12	13700	10000	540	10000	10000	0.11
61908-2Z	40	62	12	13700	10000	540	11000	10000	0.11

Rillenkugellager einreihig





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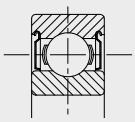

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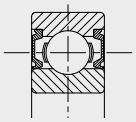
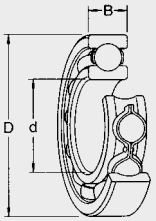
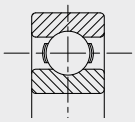


2RSR

Type	**Abmessungen** *(mm)*			**Tragzahlen** *(N)*		**Ermüdungs-grenzbelastung** *(N)*	**Grenz-drehzahl** *min–1*	**Bezugs-drehzahl** *min–1*	**Masse** *(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
16008	40	68	9	13200	10200	465	13000	7800	0.12
6008	40	68	15	16600	11600	580	26000	11100	0.194
6008-2RSR	40	68	15	16600	11600	580	6700	–	0.202
6008-2Z	40	68	15	16600	11600	580	10000	11100	0.2
6208	40	80	18	29000	18000	1050	20000	9300	0.372
6208-2RSR	40	80	18	29000	18000	1050	5600	–	0.384
6208-2Z	40	80	18	29000	18000	1050	8500	9300	0.382
62208-2RSR	40	80	23	29000	18000	1050	5600	–	0.478
6308	40	90	23	42500	25000	1640	18000	9000	0.64
6308-2RSR	40	90	23	42500	25000	1640	5000	–	0.654
6308-2Z	40	90	23	42500	25000	1640	7500	9000	0.654
62308-2RSR	40	90	33	42500	25000	1640	5000	–	0.903
61809	45	58	7	6400	5600	285	14000	9000	0.039
61809-2RSR	45	58	7	6400	5600	285	7500	–	0.039
61809-2Z	45	58	7	6400	5600	285	11000	9000	0.039
61909	45	68	12	14000	10800	570	26000	8900	0.13
61909-2RSR	45	68	12	14000	10800	570	6700	–	0.13
61909-2Z	45	68	12	14000	10800	570	10000	8900	0.13
16009	45	75	10	15600	12200	580	22000	7300	0.167
6009	45	75	16	20000	14300	730	22000	10200	0.247
6009-2RSR	45	75	16	20000	14300	730	6000	–	0.257
6009-2Z	45	75	16	20000	14300	730	9000	10200	0.253
6209	45	85	19	31000	20400	1150	19000	8700	0.429
6209-2RSR	45	85	19	31000	20400	1150	5300	–	0.441
6209-2Z	45	85	19	31000	20400	1150	8000	8700	0.441
62209-2RSR	45	85	23	31000	20400	1150	5300	–	0.522
6309	45	100	25	53000	31500	2180	16000	8300	0.849
6309-2RSR	45	100	25	53000	31500	2180	4500	–	0.867
6309-2Z	45	100	25	53000	31500	2180	6700	8300	0.869
62309-2RSR	45	100	36	53000	31500	2180	4500	–	1.2
6409	45	120	29	76500	47500	3050	13000	7600	1.98

Rillenkugellager einreihig





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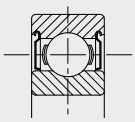

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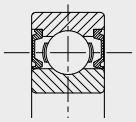
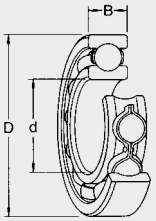
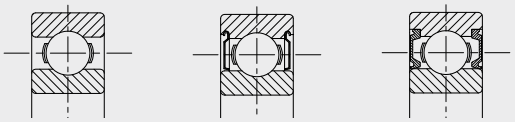


2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
61810	50	65	7	6800	6300	265	13000	8000	0.052
61810-2RSR	50	65	7	6800	6300	265	6700	–	0.052
61810-2Z	50	65	7	6800	6300	265	9300	8000	0.052
61910	50	72	12	14600	11800	600	22000	8100	0.13
61910-2RSR	50	72	12	14600	11800	600	6000	–	0.13
16010	50	80	10	16000	13200	610	20000	6700	0.181
6010	50	80	16	20800	15600	770	20000	9300	0.272
6010-2RSR	50	80	16	20800	15600	770	5600	–	0.283
6010-2Z	50	80	16	20800	15600	770	8500	9300	0.282
6210	50	90	20	36500	24000	1420	18000	8200	0.466
6210-2RSR	50	90	20	36500	24000	1420	4800	–	0.48
6210-2Z	50	90	20	36500	24000	1420	7500	8200	0.478
62210-2RSR	50	90	23	36500	24000	1420	4800	–	0.543
6310	50	110	27	62000	38000	2600	14000	7700	1.1
6310-2RSR	50	110	27	62000	38000	2600	4000	–	1.12
6310-2Z	50	110	27	62000	38000	2600	6000	7700	1.12
62310-2RSR	50	110	40	62000	38000	2600	4000	–	1.55
6410	50	130	31	81500	52000	3400	12000	7200	1.96
61811	55	72	9	9000	8500	375	11000	8000	0.084
61811-2RSR	55	72	9	9000	8500	375	6000	–	0.084
61811-2Z	55	72	9	9000	8500	375	9000	8000	0.084
61911	55	80	13	16600	14000	700	19000	7500	0.18
61911-2RSR	55	80	13	16600	14000	700	5600	–	0.18
16011	55	90	11	19300	16300	780	18000	6200	0.266
6011	55	90	18	28500	21200	1120	18000	8700	0.397
6011-2RSR	55	90	18	28500	21200	1120	5000	–	0.41
6011-2Z	55	90	18	28500	21200	1120	7500	8300	0.409
6211	55	100	21	43000	29000	1720	16000	7500	0.618
6211-2RSR	55	100	21	43000	29000	1720	4300	–	0.632
6211-2Z	55	100	21	43000	29000	1720	6700	7500	0.632
6311	55	120	29	76500	47500	3050	13000	7100	1.39

Rillenkugellager einreihig





offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6311-2RSR	55	120	29	76500	47500	3050	3600	–	1.43
6311-2Z	55	120	29	76500	47500	3050	5300	7100	1.43
6411	55	140	33	93000	60000	3950	11000	6700	1.38
61812	60	78	10	11800	11000	485	9500	8000	0.105
61812-2RSR	60	78	10	11800	11000	485	5600	–	0.105
61812-2Z	60	78	10	11800	11000	485	8000	8000	0.105
61912	60	85	13	16300	14300	700	18000	6900	0.19
61912-2RSR	60	85	13	16300	14300	700	5000	–	0.19
16012	60	95	11	20000	17600	820	17000	5700	0.283
6012	60	95	18	29000	23200	1190	17000	8000	0.419
6012-2RSR	60	95	18	29000	23200	1190	4500	–	0.432
6012-2Z	60	95	18	29000	23200	1190	7000	8000	0.431
6212	60	110	22	52000	36000	2240	14000	6800	0.791
6212-2RSR	60	110	22	52000	36000	2240	4000	–	0.809
6212-2Z	60	110	22	52000	36000	2240	6000	6800	0.807
6312	60	130	31	81500	52000	3400	12000	6700	1.75
6312-2RSR	60	130	31	81500	52000	3400	3400	–	1.79
6312-2Z	60	130	31	81500	52000	3400	5000	6700	1.79
6412	60	150	35	104000	68000	4450	10000	6400	2.83
61813	65	85	10	12200	12000	520	9000	7000	0.13
61813-2RSR	65	85	10	12200	12000	520	5000	–	0.13
61813-2Z	65	85	10	12200	12000	520	7500	7000	0.13
61913	65	90	13	20000	17600	860	17000	6400	0.2
61913-2RSR	65	90	13	20000	17600	860	4800	–	0.2
16013	65	100	11	21200	19600	910	16000	5300	0.302
6013	65	100	18	30500	25000	1270	15000	7500	0.448
6013-2RSR	65	100	18	30500	25000	1270	4300	–	0.463
6013-2Z	65	100	18	30500	25000	1270	6300	7500	0.464
6213	65	120	23	60000	41500	2550	13000	6300	1
6213-2RSR	65	120	23	60000	41500	2550	3600	–	1.03
6213-2Z	65	120	23	60000	41500	2550	5300	6300	1.03

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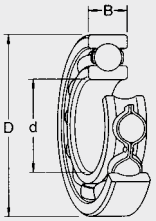

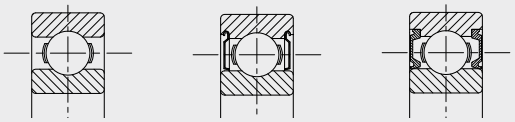

offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6313	65	140	33	93000	60000	3950	11000	6400	2.14
6313-2RSR	65	140	33	93000	60000	3950	3000	–	2.18
6313-2Z	65	140	33	93000	60000	3950	4500	6400	2.18
6413	65	160	37	114000	76500	4650	9500	6100	3.49
61814	70	90	10	12500	12500	540	8500	6700	0.14
61814-2RSR	70	90	10	12500	12500	540	4800	–	0.14
61814-2Z	70	90	10	12500	12500	540	7000	6700	0.14
61914	70	100	16	27000	23200	1160	15000	6400	0.34
61914-2RSR	70	100	16	27000	23200	1160	4300	–	0.34
16014	70	110	13	28000	25000	1230	14000	5300	0.438
6014	70	110	20	38000	31000	1850	14000	7200	0.622
6014-2Z	70	110	20	38000	31000	1850	6000	7200	0.642
6214	70	125	24	62000	44000	2900	12000	6100	1.09
6214-2RSR	70	125	24	62000	44000	2900	3400	–	1.11
6214-2Z	70	125	24	62000	44000	2900	5000	6100	1.11
6314	70	150	35	104000	68000	4450	10000	6100	2.55
6314-2RSR	70	150	35	104000	68000	4450	2800	–	2.6
6314-2Z	70	150	35	104000	68000	4450	4300	6100	2.6
6414	70	180	42	132000	96500	5800	8500	5700	5.06
61815	75	95	10	12900	13400	690	8000	6000	0.15
61815-2RSR	75	95	10	12900	13400	690	4500	–	0.15
61815-2Z	75	95	10	12900	13400	690	6700	6000	0.15
61915	75	105	16	28000	25000	1230	14000	6700	0.356
61915-2RSR	75	105	16	28000	25000	1230	4000	–	0.356
16015	75	115	13	28500	27000	1290	13000	4900	0.463
6015	75	115	20	39000	33500	1960	13000	6700	0.654
6015-2RSR	75	115	20	39000	33500	1960	3800	–	0.678
6015-2Z	75	115	20	39000	33500	1960	5600	6700	0.676
6215	75	130	25	65500	49000	3350	11000	5900	1.19
6215-2RSR	75	130	25	65500	49000	3350	3200	–	1.22
6215-2Z	75	130	25	65500	49000	3350	4800	5900	1.21

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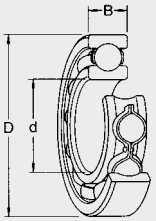

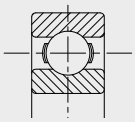

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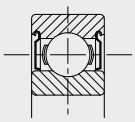
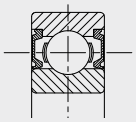


2Z



2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6315	75	160	37	114000	76500	4650	9500	5800	3.18
6315-2RSR	75	160	37	114000	76500	4650	7000	–	3.18
6315-2Z	75	160	37	114000	76500	4650	4000	5800	3.23
6415	75	190	45	132000	96500	5800	8500	5600	7
61816	80	100	10	12900	13700	600	7500	5600	0.155
61816-2RSR	80	100	10	12900	13700	600	4300	–	0.155
61816-2Z	80	100	10	12900	13700	600	6300	5600	0.155
61916	80	110	16	28500	27000	1290	13000	6300	0.379
16016	80	125	14	32000	31000	1510	13000	4700	0.609
6016	80	125	22	47500	40000	2340	12000	6500	0.845
6016-2Z	80	125	22	47500	40000	2340	5000	6500	0.893
6216	80	140	26	72000	54000	3450	11000	5500	1.46
6216-2Z	80	140	26	72000	54000	3450	4500	5500	1.49
6316	80	170	39	122000	86500	5200	9000	5500	3.75
6316-2RSR	80	170	39	122000	86500	5200	6700	–	3.75
6316-2Z	80	170	39	122000	86500	5200	3800	5500	3.82
6416	80	200	48	163000	125000	6900	7500	5400	8.29
61817	85	110	13	19300	20000	960	6700	6000	0.27
61817-2RSR	85	110	13	19300	20000	960	3800	–	0.27
61817-2Z	85	110	13	19300	20000	960	5600	6000	0.27
16017	85	130	14	34000	33500	1570	12000	4400	0.666
6017	85	130	22	49000	43000	2430	11000	6100	0.917
6017-2RSR	85	130	22	49000	43000	2430	3200	–	0.917
6017-2Z	85	130	22	49000	43000	2430	4800	6100	0.94
6217	85	150	28	83000	64000	4050	10000	5300	1.87
6217-2RSR	85	150	28	64000	83000	4050	2800	–	1.87
6217-2Z	85	150	28	83000	64000	4050	4300	5300	1.91
6317	85	180	41	132000	96500	5800	8000	5300	4.25
6317-2RSR	85	180	41	132000	96500	5800	6300	–	4.25
6317-2Z	85	180	41	132000	96500	5800	3400	5300	4.33
6417	85	210	52	173000	137000	7500	7000	5300	9.6

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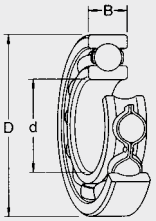

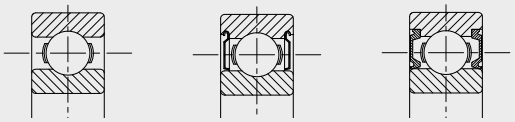

offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
61818	90	115	13	19600	20400	990	6300	5600	0.28
61818-2RSR	90	115	13	19600	20400	990	3600	–	0.28
61818-2Z	90	115	13	19600	20400	990	5300	5600	0.28
16018	90	140	16	41500	39000	1870	11000	4400	0.866
6018	90	140	24	58500	50000	2650	11000	6000	1.21
6018-2RSR	90	140	24	58500	50000	2650	3000	–	1.21
6018-2Z	90	140	24	58500	50000	2650	4500	6000	1.23
6218	90	160	30	96500	72000	4200	9000	5100	2.21
6218-2RSR	90	160	30	96500	72000	4200	2600	–	2.21
6218-2Z	90	160	30	96500	72000	4200	3800	5100	2.26
6318	90	190	43	134000	102000	5800	8000	5100	5.43
6318-2RSR	90	190	43	134000	102000	5800	6000	–	5.43
6318-2Z	90	190	43	134000	102000	5800	3400	5100	5.53
6418	90	225	54	196000	163000	8900	6700	4900	11.7
61819	95	120	13	20000	21200	1100	6300	5300	0.295
61819-2RSR	95	120	13	20000	21200	1100	3400	–	0.295
61819-2Z	95	120	13	20000	21200	1100	5300	5300	0.295
16019	95	145	16	40000	40500	1990	11000	4200	0.922
6019	95	145	24	60000	54000	2800	10000	5800	1.27
6019-2RSR	95	145	24	60000	54000	2800	2800	–	1.27
6219	95	170	32	108000	81500	4700	8500	4950	2.73
6219-2RSR	95	170	32	108000	81500	4700	2400	–	2.73
6219-2Z	95	170	32	108000	81500	4700	3600	4950	2.79
6319	95	200	45	146000	114000	6400	7500	4950	6.23
6319-2Z	95	200	45	146000	114000	6400	3200	4950	7.14
61820	100	125	13	20000	22000	1010	6000	5000	0.31
61820-2RSR	100	125	13	20000	22000	1010	3400	–	0.31
61820-2Z	100	125	13	20000	22000	1010	5000	5000	0.31
16020	100	150	16	44000	44000	1990	10000	4000	0.956
6020	100	150	24	60000	54000	2700	9500	5400	1.32
6020-2RSR	100	150	24	60000	54000	2700	2800	–	1.32

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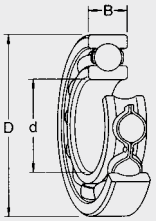
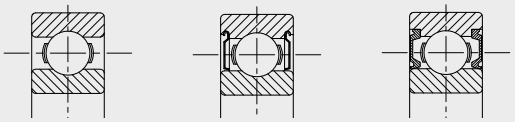
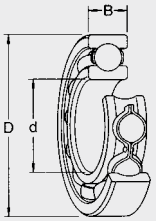


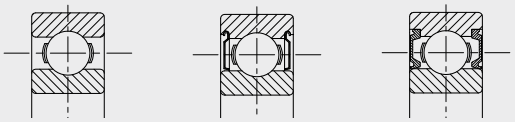


offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6020-2Z	100	150	24	60000	54000	2700	4000	5400	1.35
6220	100	180	34	122000	93000	5400	8000	4800	3.3
6220-2RSR	100	180	34	122000	93000	5400	2400	–	3.3
6220-2Z	100	180	34	122000	93000	5400	3400	4800	3.36
6320	100	215	47	163000	134000	7400	7000	4650	7.67
6320-2Z	100	215	47	163000	134000	7400	3000	4650	7.78
61821	105	130	13	20800	23600	1060	5600	4800	0.33
61821-2RSR	105	130	13	20800	23600	1060	3200	–	0.33
61821-2Z	105	130	13	20800	23600	1060	4800	4800	0.33
16021	105	160	18	54000	54000	2390	9500	3950	1.24
6021	105	160	26	71000	64000	3100	9000	5300	1.67
6021-2Z	105	160	26	71000	64000	3100	3800	5300	1.7
6221	105	190	36	132000	104000	5700	7500	4650	3.88
6221-2Z	105	190	36	132000	104000	5700	3200	4650	3.99
6321	105	225	49	173000	146000	7500	6700	4500	8.7
61822	110	140	16	28000	30500	1320	5000	5000	0.5
61822-2RSR	110	140	16	28000	30500	1320	3000	–	0.5
61822-2Z	110	140	16	28000	30500	1320	4300	5000	0.5
16022	110	170	19	57000	57000	2800	9000	3850	1.52
6022	110	170	28	80000	71000	3450	8500	5200	2.06
6022-2RSR	110	170	28	80000	71000	3450	2400	–	2.06
6022-2Z	110	170	28	80000	71000	3450	3600	5200	2.11
6222	110	200	38	143000	116000	6300	7000	4550	4.64
6222-2Z	110	200	38	143000	116000	6300	3000	4550	4.8
6322	110	240	50	190000	166000	8600	6300	4150	10.3
6322-2RSR	110	240	50	190000	166000	8600	4500	–	10.3
6322-2Z	110	240	50	190000	166000	8600	2600	4150	10.5
61824	120	150	16	29000	32500	1370	4800	4500	0.55
61824-2Z	120	150	16	29000	32500	1370	4000	4500	0.55
16024	120	180	19	61000	64000	3000	8000	3550	1.62
6024	120	180	28	83000	78000	3550	8000	4750	2.18

Rillenkugellager einreihig

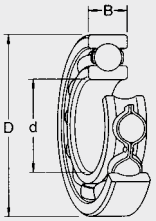


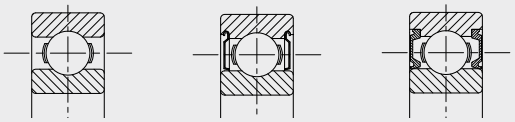


offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6024-2RSR	120	180	28	83000	78000	3550	2200	–	2.18
6024-2Z	120	180	28	83000	78000	3550	3400	4750	2.23
6224	120	215	40	146000	122000	6200	6700	4300	5.62
6224-2Z	120	215	40	146000	122000	6200	2800	4300	5.62
6324	120	260	55	212000	190000	9000	6000	3850	12.8
61826	130	165	18	38000	43000	1690	8500	4500	0.803
16026	130	200	22	78000	81500	3650	7500	3450	2.41
6026	130	200	33	106000	100000	4850	7000	4650	3.42
6026-2RSR	130	200	33	106000	100000	4850	2000	–	3.42
6026-2Z	130	200	33	106000	100000	4850	3000	4650	3.4
6226	130	230	40	166000	146000	7500	6300	3900	6.24
6226-2Z	130	230	40	166000	146000	7500	2600	3900	6.24
6326	130	280	58	228000	216000	9800	5600	3500	18.3
61828	140	175	18	39000	46500	1750	4000	4000	0.86
16028	140	210	22	80000	86500	3700	7000	3200	2.55
6028	140	210	33	108000	108000	4950	6700	4350	3.57
6028-2Z	140	210	33	108000	108000	4950	2800	4350	3.65
6228	140	250	42	176000	166000	8100	6000	3600	8.07
6328	140	300	62	255000	245000	11100	5300	3250	22.3
61830	150	190	20	51000	60000	2420	7500	4000	1.16
16030	150	225	24	91500	98000	3650	6700	3100	3.17
6030	150	225	35	122000	125000	5400	6300	3850	4.32
6230	150	270	45	176000	170000	7800	5600	3350	10.3
6330	150	320	65	280000	290000	13100	4800	3000	26.5
61832	160	200	20	52000	62000	2430	7000	3800	1.26
16032	160	240	25	102000	114000	4600	6300	2950	3.8
6032	160	240	38	134000	137000	5800	6300	3750	6.16
6032-2RSR	160	240	38	134000	137000	5800	1700	–	6.16
6232	160	290	48	200000	204000	8900	5600	3100	14.7
6332	160	340	68	300000	325000	14000	4300	2800	31.8
61834	170	215	22	61000	73500	2850	6700	3600	1.64

Rillenkugellager einreihig

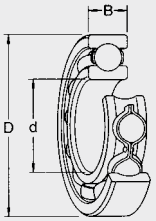


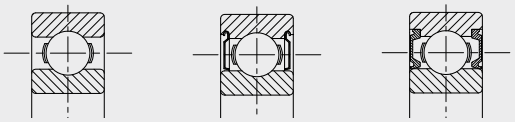


offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
16034	170	260	28	122000	137000	5400	6000	2850	5.15
6034	170	260	42	170000	173000	7400	5600	3550	7.13
6234	170	310	52	212000	224000	9400	5300	2950	18.3
6334	170	360	72	325000	365000	14700	4000	2600	37.3
61836	180	225	22	62000	76500	2850	6300	3400	1.77
16036	180	280	31	132000	146000	5200	5600	2800	6.92
6036	180	280	46	190000	200000	8200	5600	3300	10.6
6236	180	320	52	224000	245000	10300	4800	2750	19
6336	180	380	75	355000	405000	16300	3800	2440	43
61838	190	240	24	69500	85000	3300	6000	3200	2.24
16038	190	290	31	150000	166000	6300	5300	2650	7.04
6038	190	290	46	196000	212000	8500	5300	3150	11.3
6238	190	340	55	255000	280000	11600	4300	2600	22.6
6338	190	400	78	375000	440000	17500	3600	2300	50.4
61840	200	250	24	69500	88000	3350	6000	3000	2.31
16040	200	310	34	176000	204000	7300	4800	2550	9
6040	200	310	51	216000	245000	9600	4800	3000	14.4
6240	200	360	58	270000	310000	12400	4000	2430	27
6340	200	420	80	380000	465000	18000	3400	2170	56.6
61844	220	270	24	73500	96500	3550	5600	2600	2.6
16044	220	340	37	200000	240000	8400	4300	2310	11.8
6044	220	340	56	245000	290000	11100	4000	2700	18.8
6244	220	400	65	300000	355000	13500	3600	2200	37.9
6344	220	460	88	440000	560000	20000	3200	1960	73.7
61848	240	300	28	91500	120000	4200	4800	2400	3.93
16048	240	360	37	204000	255000	8500	3800	2100	12.7
6048	240	360	56	255000	315000	11400	3800	2450	20.5
6248	240	440	72	360000	475000	16700	3400	1980	51.3
6348	240	500	95	465000	620000	21800	3000	1800	96.4
61852	260	320	28	96500	132000	4550	4300	2200	4.23
16052	260	400	44	236000	310000	9900	3600	1960	19.1

Rillenkugellager einreihig

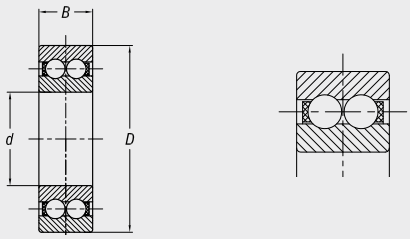




offen 2Z 2RSR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
6052	260	400	65	300000	390000	13300	3400	2260	29.8
6252	260	480	80	405000	560000	19200	3000	1820	68.4
61856	280	350	33	129000	176000	5800	3800	2000	6.34
16056	280	420	44	240000	325000	10100	3400	1800	23.2
6056	280	420	65	320000	440000	14400	3400	2060	31.7
6256	280	500	80	425000	600000	20300	3000	1690	72.9
61860	300	380	38	153000	204000	6300	3600	2000	8.97
16060	300	460	50	300000	430000	12700	3200	1670	32.6
6060	300	460	74	365000	510000	16700	3000	1930	44.5
61864	320	400	38	156000	220000	6500	3400	1710	11.3
16064	320	480	50	305000	455000	13000	3000	1550	34.9
6064	320	480	74	380000	560000	17400	3000	1790	47.4
61868	340	420	38	156000	220000	6600	3200	1590	12
16068	340	520	57	355000	550000	17800	2800	1460	47.5
6068	340	520	82	440000	695000	20800	2800	1660	63.2
61872	360	440	38	160000	236000	6900	3200	1480	12.8
16072	360	540	57	365000	585000	15700	2800	1370	49.4
6072	360	540	82	455000	735000	21500	2600	1560	66.2
61876	380	480	46	220000	320000	8900	3000	1430	20.6
16076	380	560	57	375000	620000	16100	2600	1290	51.7
61880	400	500	46	220000	335000	8900	2800	1300	21.5
61884	420	520	46	224000	345000	9200	2800	1260	22.8
61888	440	540	46	228000	355000	9400	2600	1190	23.8
61892	460	580	56	290000	480000	12000	2400	1170	35.8
61896	480	600	56	290000	500000	12100	2200	1110	37.3
618/500	500	620	56	300000	510000	12300	2000	1060	38.7
618/530	530	650	56	305000	550000	12800	2000	980	41.3
618/560	560	680	56	310000	560000	13500	1900	930	35.1
618/600	600	730	60	355000	670000	15000	1800	850	54.2
618/630	630	780	69	400000	780000	17500	1600	830	75.9
618/670	670	820	69	405000	815000	17700	1500	760	80.4

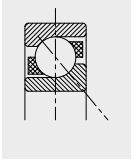
Rillenkugellager zweireihig



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m
4200-B-TVH	10	30	14	9150	5200	315	24000	0.054
4201-B-TVH	12	32	14	9300	5500	330	20000	0.057
4202-B-TVH	15	35	14	10400	6700	370	18000	0.065
4302-B-TVH	15	42	17	14600	9150	550	17000	0.116
4203-B-TVH	17	40	16	14600	9500	550	17000	0.098
4303-B-TVH	17	47	19	19600	13200	770	15000	0.16
4204-B-TVH	20	47	18	18000	12700	690	14000	0.143
4304-B-TVH	20	52	21	23200	16000	940	13000	0.211
4205-B-TVH	25	52	18	19300	14600	740	12000	0.166
4305-B-TVH	25	62	24	31500	22400	1330	10000	0.336
4206-B-TVH	30	62	20	26000	20800	1170	9500	0.467
4306-B-TVH	30	72	27	40000	30500	1840	8500	0.51
4207-B-TVH	35	72	23	32000	26000	1460	8500	0.407
4307-B-TVH	35	80	31	51000	38000	2260	8000	0.758
4208-B-TVH	40	80	23	34000	30000	1570	7500	0.545
4308-B-TVH	40	90	33	63000	48000	2900	7000	1.03
4209-B-TVH	45	85	23	36000	33500	1690	7000	0.592
4309-B-TVH	45	100	36	72000	60000	3600	6000	1.23
4210-B-TVH	50	90	23	37500	36500	1810	6300	0.587
4310-B-TVH	50	110	40	90000	75000	4450	5300	1.62
4211-B-TVH	55	100	25	36500	43000	2260	5600	0.86
4311-B-TVH	55	120	43	104000	90000	5400	5000	2.06
4212-B-TVH	60	110	28	57000	58500	2850	5000	1.09
4312-B-TVH	60	130	46	120000	106000	6200	4500	2.51
4213-B-TVH	65	120	31	67000	67000	3350	4800	1.6
4214-B-TVH	70	125	31	69500	73500	3600	4500	1.7
4215-B-TVH	75	130	31	73500	80000	3750	4300	1.72
4216-B-TVH	80	140	33	80000	90000	4350	4000	2.14
4217-B-TVH	85	150	36	93000	106000	5100	3800	2.7
4218-B-TVH	90	160	40	112000	122000	5900	3600	3.7

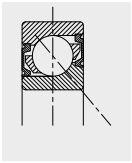
Schrägkugellager Allgemeines

Typen



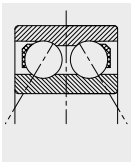
einreihig:

718..-B 70..-B 72..-B 73..-B
719..-B



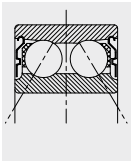
mit Lippendichtungen:

70..-B-2RS 72..-B-2RS 73..-B-2RS



zweireihig

38..-B 30..-B 32..-B 33..-B



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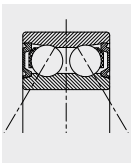
32..-B-2Z 33..-B-2Z



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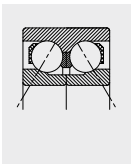
32..-B-2RSR 33..-B-2RSR



geteilter Innenring

32..DA 33..DA

Nachsetzzeichen

- B	geänderte Innenkonstruktion
- JP	Blechkäfig aus Stahl
- MP / MA	Massivkäfig aus Messing
- TVP	Käfig aus glasfaserverst. Polyamid
- TVH	Schnappkäfig aus Polyamid, kugelgeführt
- DB	2 Schrägkugellager in O-Anordnung spielfrei zusammengepasst
- DF	2 Schrägkugellager in X-Anordnung spielfrei zusammengepasst
- DT	2 Schrägkugellager in Tandem-Anordnung, spielfrei zusammengepasst
- UA	Universalausführung für paarweisen Einbau, Lagerpaar hat bei O- und X-Ausführung geringe Axialluft
- UL	Universalausführung für paarweisen Einbau, Lagerpaar hat bei O- und X-Ausführung leichte Vorspannung
- UO	Universalausführung für paarwiesen Einbau, Lagerpaar ist bei O- und X-Ausführung spielfrei
- P5	Lager in der Toleranzklasse P5
- 2RS	beidseitig Lippendichtung
- 2RSR	beidseitig Lippendichtung
- 2Z	beidseitig Spaltdichtung

Lagerluft

Axiale Lagerluft für 2-reihige Schrägkugellager mit ungeteiltem Innenring nach DIN 628-3:

Bohrung d mm über	bis	axiale Lagerluft C2 µm min.	C2 µm max.	CN µm min.	CN µm max.	C3 µm min.	C3 µm max.
–	10	1	11	5	21	12	28
10	18	1	12	6	23	13	31
18	24	2	14	7	25	16	34
24	30	2	15	8	27	18	37
30	40	2	16	9	29	21	40
40	50	2	18	11	33	23	44
50	65	3	22	13	36	26	48
65	80	3	24	15	40	30	54
80	100	3	26	18	46	35	63
100	120	4	30	22	53	42	73

Schrägkugellager Allgemeines

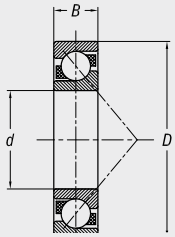
Axiale Lagerluft für 2-reihige Schrägkugelager mit geteiltem Innenring:

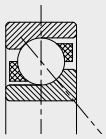
Bohrung d mm über	bis	axiale Lagerluft C2 µm min.	max.	CN µm min.	max.	C3 µm min.	max.
24	30	8	27	16	35	27	46
30	40	9	29	18	38	30	50
40	50	11	33	22	44	36	58
50	65	13	36	25	48	40	63
65	80	15	40	29	54	46	71

Axiale Lagerluft / Vorspannkraft für einreihige Schrägkugellager:

Bohrungs-kennzahl	Axialluft bzw. Vorspannung des Lagerpaares Nennmaß (*µm*) UA	UO	UL			Vorspannkraft Fvmax (*N*) UL		
	70B, 72B, 73B		70B	72B	73B	70B	72B	73B
	Toleranzklasse: PN, P6, P5		P5	P5	P5	P5	P5	P5
00	22	0	–	–3	–	–	38	–
01	24	0	–	–4	–5	–	53	82
02	24	0	–	–4	–5	–	62	99
03	24	0	–	–4	–6	–	77	123
04	28	0	–4	–5	–6	103	103	146
05	34	0	–4	–4	–6	115	112	200
06	34	0	–5	–5	–7	141	157	250
07	40	0	–5	–6	–7	172	208	300
08	40	0	–5	–6	–8	200	246	385
09	44	0	–	–6	–9	–	277	462
10	44	0	–	–6	–10	–	288	535
11	46	0	–	–7	–10	–	358	600
12	46	0	–	–7	–10	–	431	692
13	46	0	–	–8	–11	–	492	785
14	50	0	–	–8	–11	–	535	877
15	50	0	–	–8	–12	–	523	977
16	50	0	–	–8	–12	–	615	1077
17	54	0	–	–8	–13	–	692	1154
18	54	0	–	–9	–13	–	815	1231
19	54	0	–	–10	–14	–	892	1331
20	54	0	–	–11	–14	–	992	1485
21	58	0	–	–11	–14	–	1100	1538
22	58	0	–	–12	–15	–	1177	1723
24	58	0	–	–12	–16	–	1277	1923
26	60	0	–	–12	–17	–	1431	2115
28	60	0	–	–12	–17	–	1508	2308
30	60	0	–	–13	–18	–	1723	2500
32	60	0	–	–13	–18	–	1815	2769
34	70	0	–	–14	–19	–	2038	3115

Schrägkugellager einreihig





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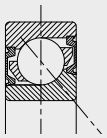
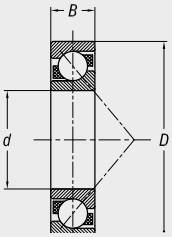
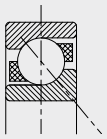


2RS

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
7200-B	10	30	9	5300	2600	174	32000	22600	0.32
7200-B-2RS	10	30	9	5300	2600	174	15000	-	0.32
7201-B	12	32	10	6950	3550	241	28000	21200	0.035
7201-B-2RS	12	32	10	6950	3550	241	14000	–	0.037
7301-B	12	37	12	10600	5300	355	24000	16400	0.06
7202-B	15	35	11	8000	4450	300	24000	19200	0.044
7202-B-2RS	15	35	11	8000	4450	300	12000	–	0.044
7302-B	15	42	13	13200	7200	485	20000	14300	0.082
7302-B-2RS	15	42	13	13200	7200	485	11000	–	0.082
7203-B	17	40	12	10000	5700	380	20000	17200	0.065
7203-B-2RS	17	40	12	10000	5700	380	11000	–	0.065
7303-B	17	47	14	16300	9000	610	18000	12900	0.109
7303-B-2RS	17	47	14	16300	9000	610	9500	–	0.109
7004-B	20	42	12	13400	7500	470	18000	–	0.06
7004-B-2RS	20	42	12	13400	7500	470	9500	–	0.061
7204-B	20	47	14	13400	7800	520	18000	15400	0.104
7204-B-2RS	20	47	14	13400	7800	520	9000	–	0.104
7304-B	20	52	15	19000	11000	750	17000	11600	0.143
7304-B-2RS	20	52	15	19000	11000	750	8500	–	0.143
7005-B	25	47	12	15000	9300	580	16000	–	0.071
7005-B-2RS	25	47	12	15000	9300	580	8000	–	0.071
7205-B	25	52	15	14600	9300	600	16000	13600	0.127
7205-B-2RS	25	52	15	14600	9300	600	8000	–	0.127
7305-B	25	62	17	26000	15800	1070	14000	9900	0.223
7305-B-2RS	25	62	17	26000	15800	1070	7000	–	0.231
71806-B	30	42	7	5600	4550	295	17000	–	0.025
7006-B	30	55	13	18300	12500	770	14000	–	0.109
7006-B-2RS	30	55	13	18300	12500	770	6700	–	0.109
7206-B	30	62	16	20400	14100	950	13000	11300	0.196
7206-B-2RS	30	62	16	20400	14100	950	6300	–	0.203
7306-B	30	72	19	33000	22100	1490	11000	8700	0.341

Schrägkugellager einreihig





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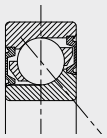
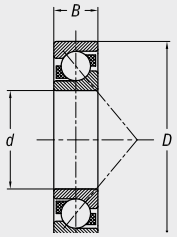
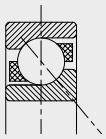


2RS

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
7306-B-2RS	30	72	19	33000	22100	1490	6000	–	0.341
71807-B	35	47	7	6000	5300	350	15000	–	0.027
7007-B	35	62	14	22400	16000	1000	12000	–	0.14
7007-B-2RS	35	62	14	22400	16000	1000	6000	–	0.14
7207-B	35	72	17	27000	19000	1280	11000	9600	0.282
7207-B-2RS	35	72	17	27000	19000	1280	5600	–	0.282
7307-B	35	80	21	40000	27500	1860	9500	7900	0.447
7307-B-2RS	35	80	21	40000	27500	1860	5000	–	0.447
71808-B	40	52	7	6300	5850	395	13000	–	0.029
7008-B	40	68	15	26000	18600	1180	10000	–	0.17
7008-B-2RS	40	68	15	26000	18600	1180	5300	–	0.17
7208-B	40	80	18	32000	23500	1580	9500	8600	0.367
7208-B-2RS	40	80	18	32000	23500	1580	5000	–	0.367
7308-B	40	90	23	50000	34500	2320	8500	7200	0.61
7308-B-2RS	40	90	23	50000	34500	2320	4500	–	0.61
71809-B	45	58	7	6550	6550	450	13000	–	0.033
7209-B	45	85	19	36000	27000	1810	8500	8000	0.405
7309-B	45	100	25	61000	43000	2900	7500	6600	0.813
71810-B	50	65	7	6950	7350	520	9500	–	0.043
7210-B	50	90	20	37500	28500	1920	8000	7600	0.458
7310-B	50	110	27	70000	50000	3400	7000	6100	1.05
71811-B	55	72	9	11800	11800	760	9000	–	0.058
7211-B	55	100	21	46500	38500	2600	7000	6900	0.604
7311-B	55	120	29	80000	61000	4100	6300	5700	1.38
71812-B	60	78	10	12200	12900	840	8000	–	0.07
7212-B	60	110	22	56000	45000	3050	6300	6200	0.78
7312-B	60	130	31	90000	66900	4650	5600	5400	1.72
71813-B	65	85	10	15300	16000	970	7500	–	0.085
7213-B	65	120	23	64000	55000	3700	6000	5700	1
7313-B	65	140	33	103000	82000	5400	5300	5100	2.12
71814-B	70	90	10	16000	17300	1070	7000	–	0.091

Schrägkugellager einreihig





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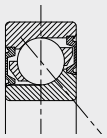
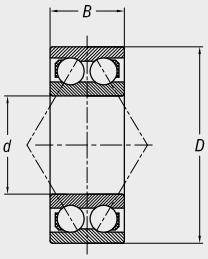
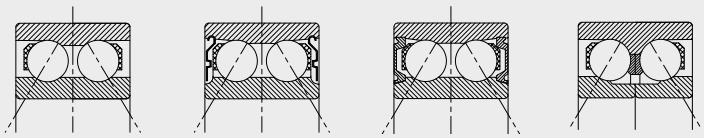


2RS

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
7214-B	70	125	24	69500	62000	4200	5600	5500	1.08
7314-B	70	150	35	117000	93000	6000	5000	4800	2.58
71815-B	75	95	10	16300	18000	1140	6300	–	0.096
7215-B	75	130	25	68000	62000	4100	5300	5400	1.16
7315-B	75	160	37	130000	107000	6700	4500	4550	3.1
71816-B	80	100	10	16600	19000	1200	6000	–	0.101
7216-B	80	140	26	80000	72000	4650	5000	5000	1.42
7316-B	80	170	39	144000	124000	7500	4300	4350	3.66
7217-B	85	150	28	97000	86000	5300	4500	4750	1.82
7317-B	85	180	41	167000	138000	8100	4000	4100	4.26
7218-B	90	160	30	114000	98000	5900	4300	4550	2.21
7318-B	90	190	43	180000	155000	8800	3800	3900	5
7219-B	95	170	32	123000	106000	6200	4000	4450	2.64
7319-B	95	200	45	189000	167000	9300	3800	3800	5.78
7220-B	100	180	34	142000	124000	7100	3800	4250	3.17
7320-B	100	215	47	214000	197000	10600	3600	3550	7.16
7221-B	105	190	36	155000	142000	7900	6000	4100	4.18
7321-B	105	225	49	225000	214000	11200	5300	3400	9
7222-B	110	200	38	167000	154000	8300	3600	3950	4.44
7322-B	110	240	50	250000	245000	12500	3400	3150	9.74
7224-B	120	215	40	182000	178000	9300	3400	3700	5.31
7324-B	120	260	55	275000	285000	13900	3200	2850	12.5
7226-B	130	230	40	200000	204000	10300	3200	3350	6.12
7326-B	130	280	58	305000	325000	15400	3000	3600	15.1
7228-B	140	250	42	214000	231000	11100	4800	3100	8.55
7328-B	140	300	62	300000	345000	12700	4300	2400	20.5
7230-B	150	270	45	245000	275000	12800	4500	2850	10.9
7330-B	150	320	65	325000	390000	14200	3800	2200	24.8
7232-B	160	290	48	236000	280000	10400	4300	2650	13.5
7332-B	160	340	68	360000	450000	15100	3600	2040	29
7234-B	170	310	52	265000	325000	11600	3800	2440	16.7

Schrägkugellager zweireihig

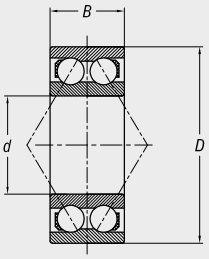


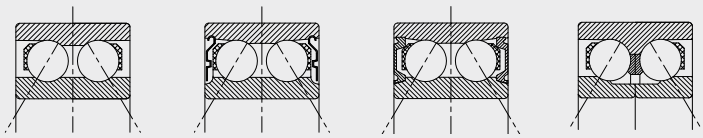


offen 2Z 2RSR geteilter IR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
30/5-B	5	14	7	1810	950	48.5	30000	32000	0.008
30/5-B-2Z	5	14	7	1810	950	48.6	24000	32000	0.008
30/5-B-2RSR	5	14	7	1810	950	48.7	15000	-	0.008
30/6-B	6	17	9	3100	1420	72	28000	32000	0.01
30/6-B-2Z	6	17	9	3100	1420	72	22000	32000	0.01
30/6-B-2RSR	6	17	9	3100	1420	72	15000	-	0.01
30/7-B	7	19	10	3650	1700	86	26000	31500	0.012
30/7-B-2Z	7	19	10	3650	1700	86	20000	31500	0.012
30/7-B-2RSR	7	19	10	3650	1700	86	15000	-	0.012
30/8-B	8	22	11	5200	2650	133	26000	26000	0.02
30/8-B-2Z	8	22	11	5200	2650	133	19000	26000	0.02
30/8-B-2RSR	8	22	11	5200	2650	133	14000	-	0.02
3800-B	10	19	7	2120	1400	71	26000	21100	0.008
3800-B-2Z	10	19	7	2120	1400	71	18000	21100	0.008
3800-B-2RSR	10	19	7	2120	1400	71	16000	–	0.008
3000-B	10	26	12	5700	3250	164	24000	17500	0.022
3000-B-2Z	10	26	12	5700	3250	164	17000	17500	0.022
3000-B-2RSR	10	26	12	5700	3250	164	14000	–	0.022
3200-B	10	30	14	7800	4550	223	22000	20900	0.05
3200-B-2Z	10	30	14	7800	4550	223	16000	20900	0.051
3801-B	12	21	7	2190	1550	79	24000	18100	0.008
3801-B-2Z	12	21	7	2190	1550	79	17000	18100	0.008
3801-B-2RSR	12	21	7	2190	1550	79	15000	–	0.008
3001-B	12	28	12	6200	3750	191	22000	15500	0.025
3001-B-2Z	12	28	12	6200	3750	191	16000	15500	0.025
3001-B-2RSR	12	28	12	6200	3750	191	13000	–	0.025
3201-B	12	32	15.9	10600	5850	295	20000	20000	0.051
3201-B-2Z	12	32	15.9	10600	5850	295	15000	20000	0.053
3802-B	15	24	7	2430	1960	99	22000	14800	0.009
3802-B-2Z	15	24	7	2430	1960	99	16000	14800	0.009
3802-B-2RSR	15	24	7	2430	1960	99	14000	–	0.009

Schrägkugellager zweireihig

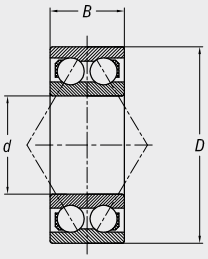


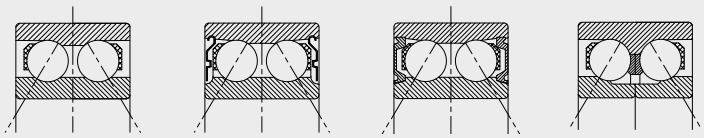


offen 2Z 2RSR geteilter IR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
3002-B	15	32	13	8600	5400	275	20000	13200	0.036
3002-B-2Z	15	32	13	8600	5400	275	15000	13200	0.036
3002-B-2RSR	15	32	13	8600	5400	275	12000	–	0.036
3202-B	15	35	15.9	11800	7100	360	19000	17100	0.065
3202-B-2Z	15	35	15.9	11800	7100	360	14000	17100	0.067
3202-B-2RSR	15	35	15.9	11800	7100	360	12000	–	0.067
3302-B	15	42	19	16300	10000	460	16000	12000	0.124
3803-B	17	26	7	2480	2080	107	19000	13200	0.015
3803-B-2Z	17	26	7	2480	2080	107	14000	13200	0.015
3803-B-2RSR	17	26	7	2480	2080	107	12000	–	0.015
3003-B	17	35	14	9200	6200	315	18000	12200	0.042
3003-B-2Z	17	35	14	9200	6200	315	13000	12200	0.042
3003-B-2RSR	17	35	14	9200	6200	315	11000	–	0.042
3203-B	17	40	17.5	14600	9000	420	17000	15400	0.093
3203-B-2Z	17	40	17.5	14600	9000	420	12000	15400	0.095
3203-B-2RSR	17	40	17.5	14600	9000	420	10000	–	0.095
3303-B	17	47	22.2	20800	12500	570	15000	11400	0.177
3804-B	20	32	10	5800	4850	245	17000	12700	0.02
3804-B-2Z	20	32	10	5800	4850	245	12000	12700	0.02
3804-B-2RSR	20	32	10	5800	4850	245	10000	–	0.02
3004-B	20	42	16	14500	9600	485	16000	10600	0.08
3004-B-2Z	20	42	16	14500	9600	485	11000	10600	0.08
3004-B-2RSR	20	42	16	14500	9600	485	9000	–	0.08
3204-B	20	47	20.6	19600	12500	610	15000	13900	0.154
3204-B-2Z	20	47	20.6	19600	12500	610	10000	13900	0.16
3204-B-2RSR	20	47	20.6	19600	12500	610	8500	–	0.158
3304-B	20	52	22.2	23200	15000	690	13000	9900	0.217
3304-B-2Z	20	52	22.2	23200	15000	690	9000	9900	0.222
3304-B-2RSR	20	52	22.2	23200	15000	690	8000	–	0.221
3805-B	25	37	10	6000	5600	280	14000	10300	0.025
3805-B-2Z	25	37	10	6000	5600	280	9500	10300	0.025

Schrägkugellager zweireihig

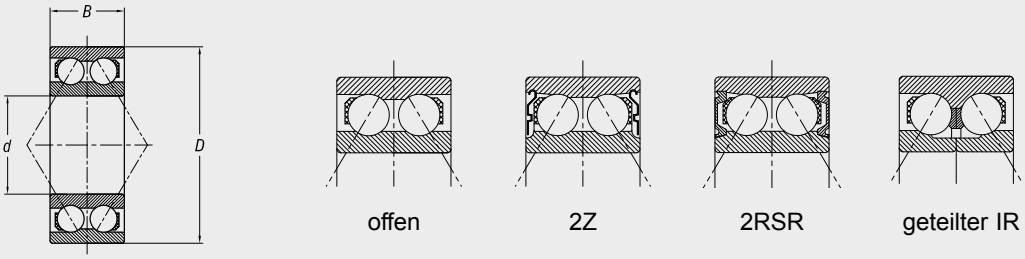




offen 2Z 2RSR geteilter IR

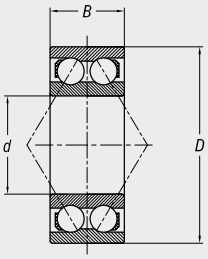
Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
3805-B-2RSR	25	37	10	6000	5600	280	8500	–	0.025
3005-B	25	47	16	15500	11100	560	13000	8900	0.1
3005-B-2Z	25	47	16	15500	11100	560	9000	8900	0.1
3005-B-2RSR	25	47	16	15500	11100	560	8000	–	0.1
3205-B	25	52	20.6	21200	14600	710	12000	11800	0.178
3205-B-2Z	25	52	20.6	21200	14600	710	8500	11800	0.182
3205-B-2RSR	25	52	20.6	21200	14600	710	7500	–	0.182
3305-B	25	62	25.4	30000	20000	900	10000	8500	0.353
3305-B-2Z	25	62	25.4	30000	20000	900	7500	8500	0.359
3305-B-2RSR	25	62	25.4	30000	20000	900	6700	–	0.359
3305-DA-TVP	25	62	25.4	30000	23200	1270	10000	8400	0.341
3806-B	30	42	10	6300	6100	320	11000	8700	0.03
3806-B-2Z	30	42	10	6300	6100	320	8000	8700	0.03
3806-B-2RSR	30	42	10	6300	6100	320	7000	–	0.03
3006-B	30	55	19	20300	15600	790	10000	18000	0.16
3006-B-2Z	30	55	19	20300	15600	790	7500	18000	0.16
3006-B-2RSR	30	55	19	20300	15600	790	6700	–	0.16
3206-B	30	62	23.8	30000	21200	980	9500	10300	0.289
3206-B-2Z	30	62	23.8	30000	21200	980	7000	10300	0.295
3206-B-2RSR	30	62	23.8	30000	21200	980	6300	–	0.296
3306-B	30	72	30.2	41500	28500	1310	8500	7800	0.548
3306-B-2Z	30	72	30.2	41500	28500	1310	6300	7800	0.558
3306-B-2RSR	30	72	30.2	41500	28500	1310	5600	–	0.558
3306-DA	30	72	30.2	41500	34500	2070	8500	7600	0.657
3807-B	35	47	10	6700	7000	370	9500	7400	0.035
3807-B-2Z	35	47	10	6700	7000	370	7000	7400	0.035
3807-B-2RSR	35	47	10	6700	7000	370	6000	–	0.035
3007-B	35	62	20	24500	19400	980	9000	6600	0.2
3007-B-2Z	35	62	20	24500	19400	980	6700	6600	0.2
3007-B-2RSR	35	62	20	24500	19400	980	5600	–	0.2
3207-B	35	72	27	39000	28500	1370	8500	9200	0.446

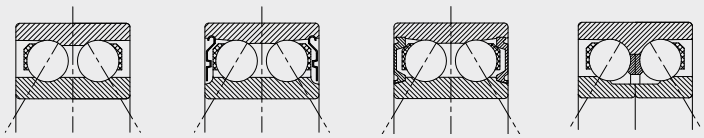
Schrägkugellager zweireihig



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
3207-B-2Z	35	72	27	39000	28500	1370	6300	9200	0.454
3207-B-2RSR	35	72	27	39000	28500	1370	5300	–	0.454
3307-B	35	80	34.9	51000	34500	1650	7500	7300	0.657
3307-B-2Z	35	80	34.9	51000	34500	1650	5600	7300	0.667
3307-B-2RSR	35	80	34.9	51000	34500	1650	5000	–	0.739
3307-DA	35	80	34.9	50000	41500	2480	7500	7200	0.889
3808-B	40	52	10	7000	7800	425	8500	6500	0.04
3808-B-2Z	40	52	10	7000	7800	425	6300	6500	0.04
3808-B-2RSR	40	52	10	7000	7800	425	5300	–	0.04
3008-B	40	68	21	25500	21700	1100	8000	6300	0.25
3008-B-2Z	40	68	21	25500	21700	1100	6000	6300	0.25
3008-B-2RSR	40	68	21	25500	21700	1100	5000	–	0.25
3208-B	40	80	30.2	48000	36500	1840	7500	8500	0.594
3208-B-2Z	40	80	30.2	48000	36500	1840	5600	8500	0.604
3208-B-2RSR	40	80	30.2	48000	36500	1840	4800	–	0.605
3308-B	40	90	36.5	62000	45000	2500	6700	6400	0.984
3308-B-2Z	40	90	36.5	62000	45000	2500	5000	6400	0.998
3308-B-2RSR	40	90	36.5	62000	45000	2500	4500	–	0.998
3308-DA-MA	40	90	36.5	62000	53000	3150	6300	6300	1.19
3809-B	45	58	10	7200	8300	465	7500	5700	0.053
3809-B-2Z	45	58	10	7200	8300	465	5600	5700	0.053
3809-B-2RSR	45	58	10	7200	8300	465	5000	–	0.053
3209-B	45	85	30.2	48000	37500	1800	6700	7800	0.628
3209-B-2Z	45	85	30.2	48000	37500	1800	5000	7800	0.64
3209-B-2RSR	45	85	30.2	48000	37500	1800	4500	–	0.64
3309-B	45	100	39.7	68000	51000	2750	6000	6000	1.34
3309-B-2RSR	45	100	39.7	68000	51000	2950	4000	–	1.36
3309-DA	45	100	39.7	75000	64000	3400	6000	5800	1.55
3810-B	50	65	12	8700	10400	580	7000	5600	0.07
3810-B-2Z	50	65	12	8700	10400	580	5300	5600	0.07
3810-B-2RSR	50	65	12	8700	10400	580	4500	–	0.07

Schrägkugellager zweireihig

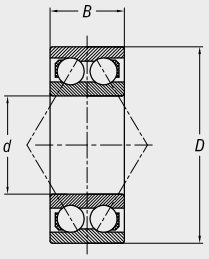


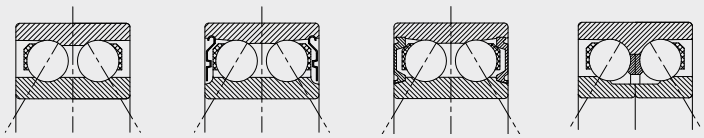


offen 2Z 2RSR geteilter IR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
3210-B	50	90	30.2	51000	42500	2120	6300	7100	0.68
3210-B-2Z	50	90	30.2	51000	42500	2120	4800	7100	0.692
3210-B-2RSR	50	90	30.2	51000	42500	2120	4000	–	0.693
3310-B	50	110	44.4	81500	62000	3450	5300	5700	1.8
3310-DA-MA	50	110	44.4	90000	85000	5200	5300	5500	2.24
3811-B	55	72	13	12100	15700	880	6300	5100	0.09
3811-B-2Z	55	72	13	12100	15700	880	4500	5100	0.09
3811-B-2RSR	55	72	13	12100	15700	880	4300	–	0.09
3211-B	55	100	33.3	58500	49000	2390	5600	6600	0.954
3211-B-2RSR	55	100	33.3	58500	49000	2390	3800	–	0.969
3311-B	55	120	49.2	102000	78000	4250	5000	5400	2.32
3311-B-2Z	55	120	49.2	102000	78000	4250	3800	5400	2.36
3311-B-2RSR	55	120	49.2	102000	78000	4250	3400	–	2.35
3311-DA-MA	55	120	49.2	110000	100000	5400	5000	5200	2.85
3812-B	60	78	14	14500	17500	960	5600	4800	0.14
3812-B-2Z	60	78	14	14500	17500	960	4300	4800	0.14
3812-B-2RSR	60	78	14	14500	17500	960	3800	–	0.14
3212-B	60	110	36.5	72000	61000	3450	5000	6200	1.27
3212-B-2Z	60	110	36.5	72000	61000	3450	3800	6200	1.29
3212-B-2RSR	60	110	36.5	72000	61000	3450	3400	–	1.29
3312-B	60	130	54	125000	98000	5200	4500	5100	2.92
3312-B-2RSR	60	130	54	125000	98000	5200	3000	–	2.92
3312-DA	60	130	54	127000	118000	6500	4500	4950	3.39
3813-B	65	85	15	17700	21400	1120	5000	4500	0.16
3813-B-2Z	65	85	15	17700	21400	1120	4000	4500	0.16
3813-B-2RSR	65	85	15	17700	21400	1120	3600	–	0.16
3213-B	65	120	38.1	80000	73500	3700	4500	5700	1.64
3213-B-2RSR	65	120	38.1	80000	73500	3700	3000	–	1.66
3313-B	65	140	58.7	143000	112000	6100	4300	4850	3.63
3313-DA	65	140	58.7	143000	137000	7200	4300	4750	4.38
3814-B	70	90	15	19200	23800	1300	5000	4200	0.19

Schrägkugellager zweireihig



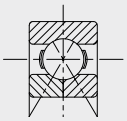


offen 2Z 2RSR geteilter IR

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
3814-B-2Z	70	90	15	19200	23800	1300	3800	4200	0.19
3814-B-2RSR	70	90	15	19200	23800	1300	3400	–	0.19
3214-B	70	125	39.7	83000	76500	4000	4500	5500	1.8
3314	70	150	63.5	163000	167000	8800	4000	4500	5.03
3314-DA	70	150	63.5	163000	156000	8200	4000	4550	5.36
3815-B	75	95	15	19400	24400	1370	4800	3950	0.21
3815-B-2Z	75	95	15	19400	24400	1370	3600	3950	0.21
3815-B-2RSR	75	95	15	19400	24400	1370	3200	–	0.21
3215-B	75	130	41.3	91500	85000	4250	4300	5300	1.91
3315	75	160	68.3	185000	192000	9700	3800	4350	6.07
3816-B	80	100	15	19600	25500	1420	4500	3650	0.23
3816-B-2Z	80	100	15	19600	25500	1420	3400	3650	0.23
3816-B-2RSR	80	100	15	19600	25500	1420	3000	–	0.23
3216-B	80	140	44.4	98000	93000	4950	4000	5100	2.45
3216-B-2Z	80	140	44.4	98000	93000	4950	3000	5100	2.48
3316	80	170	68.3	209000	213000	11500	3600	3950	7.26
3217	85	150	49.2	126000	151000	7300	3800	4750	3.44
3317-M	85	180	73	223000	229000	10900	3400	3750	8.78
3218	90	160	52.4	140000	169000	7900	3600	4550	4.22
3318	90	190	73	245000	275000	12800	3200	3400	9.23
3219-M	95	170	55.6	156000	186000	8600	3400	4400	5.31
3319-M	95	200	77.8	260000	285000	12900	3200	3250	11.4
3220	100	180	60.3	181000	224000	10000	3200	4200	6.19
3320-M	100	215	82.6	270000	320000	13900	3000	3000	14.6
3221-M	105	190	65.1	213000	247000	11100	3200	4000	7.78
3222-M	110	200	69.8	229000	280000	12100	3000	3800	9.23
3322-M	110	240	92.1	320000	385000	16000	2600	2700	20

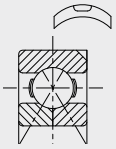
Vierpunktlager Allgemeines

Typen



ohne Haltenuten:

QJ2.. QJ3....



mit 2 Haltenuten:

QJ2..-N2 QJ3..-N2

Nachsetzzeichen

- C3	Axialluft größer als normal
- MPA	Massivkäfig aus Messing
-TVP	Fensterkäfig aus glasfaser-verstärktem Polyamid 66
- N2	2 Haltenuten im Außenring

Lagerluft

Axiale Lagerluft für Vierpunktlager:
Lagerluftgruppe CN (DIN 628-4)

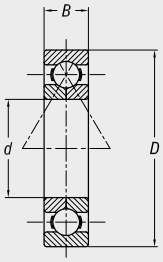
Bohrung d mm über	bis	radiale Lagerluft C2 µm min.	max.	CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.
18	40	30	70	60	110	100	150	140	190
40	60	40	90	80	130	120	170	160	210
60	80	50	100	90	140	130	180	170	220
80	100	60	120	100	160	140	200	180	240
100	140	70	140	120	180	160	220	200	260
140	180	80	160	140	200	180	240	220	280
180	220	100	180	160	220	200	260	240	300
220	260	120	200	180	240	220	300	280	260

Nachsetzzeichen

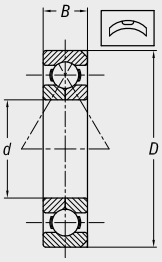
- C3	Radialluft größer als normal
- MPA	Massivkäfig aus Messing
-TVP	Fensterkäfig aus glasfaser-verstärktem Polyamid 66
- N2	2 Haltenuten

Vierpunktlager

OHNE HALTENUTEN
(WINKEL 35°)



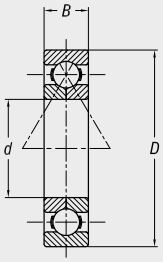
MIT 2 HALTENUTEN
(WINKEL 35°)



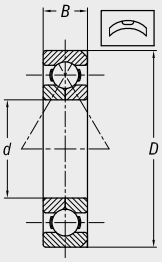
Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m
QJ304-MPA	20	52	15	30000	19600	990	28000	0.184
QJ205-MPA	25	52	15	25500	18600	950	26000	0.171
QJ305-TVP	25	62	17	44000	31500	1590	14000	0.256
QJ206-MPA	30	62	16	36500	27500	1410	20000	0.254
QJ306-TVP	30	72	19	58500	43000	2170	11000	0.379
QJ207-MPA	35	72	17	44000	35500	1800	18000	0.359
QJ307-TVP	35	80	21	62000	51000	2550	9500	0.516
QJ208-TVP	40	80	18	56000	46500	2380	9500	0.399
QJ308-TVP	40	90	23	86500	68000	3500	8500	0.695
QJ209-TVP	45	85	19	64000	57000	2900	8500	0.467
QJ309-TVP	45	100	25	102000	83000	4550	7500	0.934
QJ210-MPA	50	90	20	61000	56000	2900	13000	0.609
QJ310-MPA	50	110	27	110000	91500	4950	11000	1.39
QJ211-TVP	55	100	21	80000	76500	3900	7000	0.697
QJ311-MPA	55	120	29	127000	108000	5900	10000	1.76
QJ212-TVP	60	110	22	96500	93000	4800	6300	0.889
QJ312-MPA	60	130	31	146000	127000	6700	9000	2.2
QJ213-MPA	65	120	23	104000	104000	3950	9500	1.27
QJ313-MPA	65	140	33	163000	146000	7900	8500	2.71
QJ214-TVP	70	125	24	118000	122000	6800	5600	1.22
QJ314-MPA	70	150	35	183000	166000	8600	8000	3.29
QJ215-TVP	75	130	25	125000	129000	6800	5300	1.34
QJ315-N2-MPA	75	160	37	212000	204000	10500	7000	3.95
QJ216-MPA	80	140	26	132000	137000	7100	8000	1.84
QJ316-N2-MPA	80	170	39	224000	220000	10800	7000	4.65
QJ217-MPA	85	150	28	153000	160000	8100	7000	2.3
QJ317-N2-MPA	85	180	41	245000	255000	11700	6300	5.54
QJ218-N2-MPA	90	160	30	176000	186000	8800	7000	2.8
QJ318-N2-MPA	90	190	43	265000	285000	12900	6000	6.44
QJ219-N2-MPA	95	170	32	200000	212000	10100	6300	3.41
QJ319-N2-MPA	95	200	45	285000	310000	14100	6000	7.45

Vierpunktlager

OHNE HALTENUTEN
(WINKEL 35°)



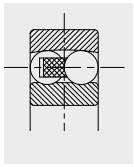
MIT 2 HALTENUTEN
(WINKEL 35°)



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m
QJ220-N2-MPA	100	180	34	224000	240000	11200	6000	4.1
QJ320-N2-MPA	100	215	47	325000	365000	16300	5600	9.04
QJ221-N2-MPA	105	190	36	232000	260000	11600	6000	4.81
QJ222-N2-MPA	110	200	38	250000	285000	12300	5600	5.66
QJ322-N2-MPA	110	240	50	345000	415000	17400	5300	12.2
QJ224-N2-MPA	120	215	40	280000	340000	13800	5300	6.74
QJ324-N2-MPA	120	260	55	380000	480000	19300	5000	15.6
QJ226-N2-MPA	130	230	40	290000	365000	14500	5000	7.66
QJ326-N2-MPA	130	280	58	425000	570000	21600	4800	19.2
QJ228-N2-MPA	140	250	42	315000	415000	16500	4800	9.69
QJ328-N2-MPA	140	300	62	475000	655000	19700	4300	23.2
QJ230-N2-MPA	150	270	45	345000	480000	18400	4500	12.2
QJ330-N2-MPA	150	320	65	510000	735000	25500	3800	28
QJ232-N2-MPA	160	290	48	375000	530000	16800	4300	15.3
QJ332-N2-MPA	160	340	68	585000	865000	29500	3600	32.8
QJ234-N2-MPA	170	310	52	425000	630000	22800	3800	18.9
QJ334-N2-MPA	170	360	72	585000	915000	24900	3200	38.4
QJ236-N2-MPA	180	320	52	430000	670000	18900	3600	19.6
QJ336-N2-MPA	180	380	75	680000	1080000	33000	3000	44.9
QJ238-N2-MPA	190	340	55	455000	735000	24400	3200	23.8
QJ338-N2-MPA	190	400	78	735000	1250000	37000	2800	52.1
QJ240-N2-MPA	200	360	58	510000	850000	22600	3000	28
QJ244-N2-MPA	220	400	65	630000	1120000	31000	2800	38.6
QJ344-N2-MPA	220	460	88	900000	1660000	44500	2800	77.1
QJ248-N2-MPA	240	440	72	680000	1270000	30500	2800	53.1
QJ348-N2-MPA	240	500	95	1020000	1960000	52000	2600	98.2

Pendelkugellager Allgemeines

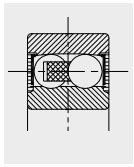
Typen



zylindrisch:

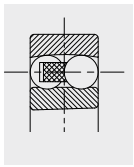
1.. 12.. 13..

22.. 23..



zylindrisch mit Lippendichtung:

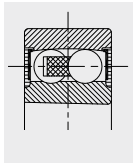
22..-2RS 23..-2RS



konisch:

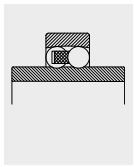
12..-K 13..-K

22..-K 23..-K



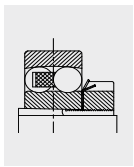
konisch mit Lippendichtung:

22..-K-2RS



mit verlängertem Innenring

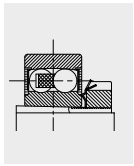
112..



mit Spannhülse

12..-K+H 13..-K+H

22..-K+H 13..-K+H



mit Spannhülse mit Lippendichtungen:

22..-K-2RS+H

Lagerluft

Radiale Lagerluft für Lager mit zylindrischer Bohrung:
Lagerluftgruppe CN (DIN 620-4).

Bohrung d mm über	bis	radiale Lagerluft CN µm min.	max.	C3 µm min.	max.
–	6	5	15	10	20
6	10	6	17	12	25
10	14	6	19	13	26
14	18	8	21	15	28
18	24	10	23	17	30
24	30	11	24	19	35
30	40	13	29	23	40
40	50	14	31	25	44
50	65	16	36	30	50
65	80	18	40	35	60
80	100	22	48	42	70
100	120	25	56	50	83
120	140	30	68	60	100
140	160	35	80	70	120

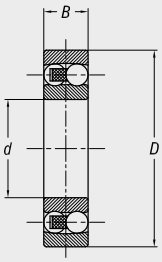
Radiale Lagerluft für Lager mit kegeliger Bohrung:
Lagerluftgruppe C3 (DIN 620-4)

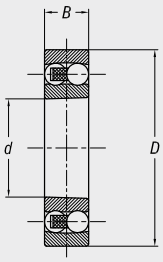
Bohrung d mm über	bis	radiale Lagerluft CN µm min.	max.	C3 µm min.	max.
18	24	13	26	20	33
24	30	15	28	33	39
30	40	19	35	29	46
40	50	22	39	33	52
50	65	27	47	41	61
65	80	35	57	50	75
80	100	42	68	62	90
100	120	50	81	75	108
120	140	60	98	90	130
140	160	65	110	100	150

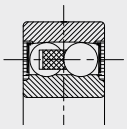
Nachsetzzeichen

- K	kegelige Bohrung
- M	Massivkäfig aus Messing
- TVH	Massivkäfig aus glasfaserverstärktem Polyamid 66
- 2RS	beidseitig schleifende Dichtung
- C3	Radialluft größer als normal

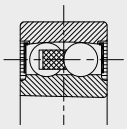
Pendelkugellager zylindrisch | konisch







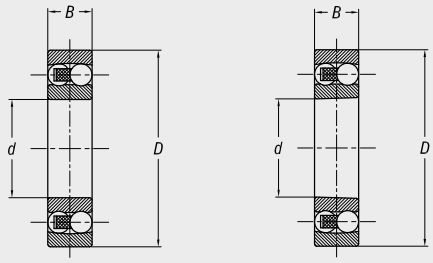
2RS

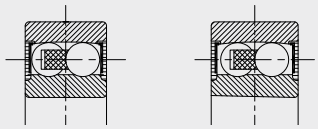


2RS

Type	**Abmessungen** *(mm)*			**Tragzahlen** *(N)*		**Ermüdungs-grenzbelastung** *(N)*	**Grenz-drehzahl** *min–1*	**Bezugs-drehzahl** *min–1*	**Masse** *(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
135	5	19	6	2600	475	29.5	36000	35000	0.01
126	6	19	6	2600	475	29.5	36000	39500	0.009
127	7	22	7	2750	560	34.5	36000	36500	0.014
108	8	22	7	2750	560	34.5	36000	–	0.014
129	9	26	8	3950	800	50	32000	31500	0.022
1200	10	30	9	5700	1180	73	30000	28500	0.034
2200-2RS	10	30	14	5700	1180	73	18000	-	0.053
2200	10	30	14	8800	1730	107	28000	27500	0.045
1201	12	32	10	5700	1260	78	30000	27500	0.041
2201-2RS	12	32	14	5700	1260	78	17000	-	0.058
2201	12	32	14	9400	1920	120	26000	24600	0.05
1202	15	35	11	7700	1730	108	26000	24800	0.048
2202-2RS	15	35	14	7700	1730	108	15000	–	0.061
2202	15	35	14	9600	2080	130	24000	21100	0.057
2302	15	42	17	17000	3700	232	18000	18200	0.111
1203	17	40	12	8100	2000	124	22000	22300	0.073
2203-2RS	17	40	16	8100	2000	124	14000	–	0.098
2203	17	40	16	11800	2750	171	19000	19600	0.054
1303	17	47	14	12900	3150	197	18000	17900	0.065
2303-2RS	17	47	19	12900	3150	197	11000	–	0.175
2303	17	47	19	13900	3150	197	17000	16900	0.155
1204-K-C3	20	47	14	10100	2600	161	18000	20200	0.116
1204	20	47	14	10100	2600	161	18000	20200	0.118
2204-2RS	20	47	18	10100	2600	161	11000	–	0.151
2204	20	47	18	14700	3500	219	17000	17300	0.134
1304	20	52	15	12700	3300	206	16000	16200	0.163
2304-2RS	20	52	21	12700	3300	206	10000	–	0.23
2304	20	52	21	17600	4250	265	16000	15600	0.206
1205-K-C3	25	52	15	12300	3250	203	16000	17800	0.135
1205	25	52	15	12300	3250	203	16000	17800	0.138
2205-2RS	25	52	18	12300	3250	203	9500	–	0.161

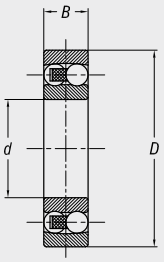
Pendelkugellager zylindrisch | konisch

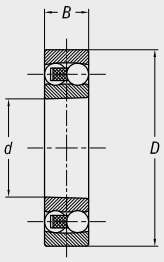


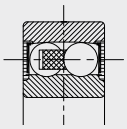


Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
2205-K-2RS-C3	25	52	18	12300	3250	203	9500	–	0.157
2205-K-C3	25	52	18	17300	4400	275	15000	14600	0.152
2205	25	52	18	17300	4400	275	15000	14600	0.156
1305-K-C3	25	62	17	18300	4950	310	14000	13900	0.254
1305	25	62	17	18300	4950	310	14000	13900	0.258
2305-2RS	25	62	24	18300	4950	310	8000	–	0.367
2305-K-C3	25	62	24	25000	6500	405	13000	13500	0.328
2305	25	62	24	25000	6500	405	13000	13500	0.335
1206-K-C3	30	62	16	15900	4600	285	14000	14900	0.217
1206	30	62	16	15900	4600	285	14000	14900	0.221
2206-2RS	30	62	20	15900	4600	285	8000	–	0.274
2206-K-2RS-C3	30	62	20	15900	4600	285	8000	–	0.268
2206-K-C3	30	62	20	26000	6900	430	12000	12600	0.246
2206	30	62	20	26000	6900	430	12000	12600	0.252
1306-K-C3	30	72	19	21700	6300	390	11000	12300	0.379
1306	30	72	19	21700	6300	390	11000	12300	0.384
2306-2RS	30	72	27	21700	6300	390	6700	–	0.554
2306-K-C3	30	72	27	32500	8700	540	10000	11900	0.476
2306	30	72	27	32500	8700	540	10000	11900	0.488
1207-K-C3	35	72	17	16000	5100	315	12000	12900	0.319
1207	35	72	17	16000	5100	315	12000	12900	0.324
2207-2RS	35	72	23	16000	5100	315	7000	–	0.442
2207-K-2RS-C3	35	72	23	16000	5100	315	7000	–	0.432
2207-K-C3	35	72	23	33000	8900	560	9500	11400	0.38
2207	35	72	23	33000	8900	560	9500	11400	0.389
1307-K-C3	35	80	21	25500	7800	485	9500	11300	0.5
1307	35	80	21	25500	7800	485	9500	11300	0.507
2307-2RS	35	80	31	25500	7800	485	6000	–	0.744
2307-K-C3	35	80	31	40500	11100	690	9000	11200	0.96
2307	35	80	31	40500	11100	690	9000	11200	0.975
1208-K-C3	40	80	18	19400	6500	400	10000	11600	0.408

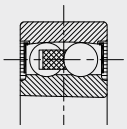
Pendelkugellager zylindrisch | konisch







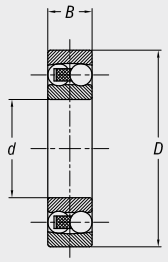
2RS

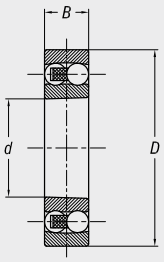


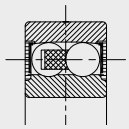
2RS

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
1208	40	80	18	19400	6500	400	10000	11600	0.414
2208-2RS	40	80	23	19400	6500	400	6300	–	0.528
2208-K-2RS-C3	40	80	23	19400	6500	400	6300	–	0.517
2208-K-C3	40	80	23	32500	9400	580	9000	9900	0.465
2208	40	80	23	32500	9400	580	9000	9900	0.476
1308-K-C3	40	90	23	30000	9600	600	8500	10300	0.698
1308	40	90	23	30000	9600	600	8500	10300	0.708
2308-2RS	40	90	33	30000	9600	600	5300	–	1.01
2308-K-C3	40	90	33	46000	13400	830	8000	10000	0.899
2308	40	90	33	46000	13400	830	8000	10000	0.922
1209-K-C3	45	85	19	22000	7300	455	9000	10900	0.454
1209	45	85	19	22000	7300	455	9000	10900	0.462
2209-2RS	45	85	23	22000	7300	455	5600	–	0.548
2209-K-2RS-C3	45	85	23	22000	7300	455	5600	–	0.535
2209-K-C3	45	85	23	28500	8900	550	8500	9000	0.505
2209	45	85	23	28500	8900	550	8500	9000	0.517
1309-K-C3	45	100	25	38500	12600	780	7500	9500	0.939
1309	45	100	25	38500	12600	780	7500	9500	0.953
2309-2RS	45	100	36	38500	12600	780	4800	–	1.34
2309-K-C3	45	100	36	55000	16500	1030	7000	9300	1.19
2309	45	100	36	55000	16500	1030	7000	9300	1.22
1210-K-C3	50	90	20	22900	8000	500	8500	10300	0.516
1210	50	90	20	22900	8000	500	8500	10300	0.526
2210-2RS	50	90	23	22900	8000	500	5300	–	0.606
2210-K-2RS-C3	50	90	23	22900	8000	500	5300	–	0.593
2210-K-C3	50	90	23	28500	9400	580	8000	8300	0.543
2210	50	90	23	28500	9400	580	8000	8300	0.556
1310-K-C3	50	110	27	42000	14100	880	6700	8800	1.52
1310	50	110	27	42000	14100	880	6700	8800	1.54
2310-2RS	50	110	40	42000	14100	880	4300	–	1.82
2310	50	110	40	66000	19900	1240	6300	8800	1.64

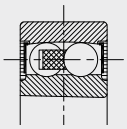
Pendelkugellager zylindrisch | konisch







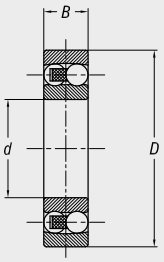
2RS

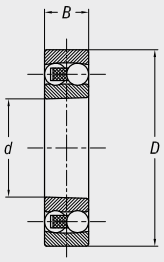


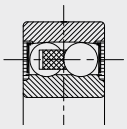
2RS

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
1211-K-C3	55	100	21	27000	9900	620	7500	9400	0.682
1211	55	100	21	27000	9900	620	7500	9400	0.693
2211-2RS	55	100	25	27000	9900	620	4800	–	0.825
2211-K-2RS-C3	55	100	25	27000	9900	620	4800	–	0.808
2211-K-C3	55	100	25	39000	12400	770	6700	7700	0.73
2211	55	100	25	39000	12400	770	6700	7700	0.746
1311-K-C3	55	120	29	52000	17700	1100	6000	8300	1.55
1311	55	120	29	52000	17700	1100	6000	8300	1.57
2311-2RS	55	120	43	52000	17700	1100	3800	–	2.28
2311-K-C3	55	120	43	77000	23800	1480	5600	8200	2.02
2311	55	120	43	77000	23800	1480	5600	8200	2.07
1212-K-C3	60	110	22	30500	11400	710	6700	8600	0.88
1212	60	110	22	30500	11400	710	6700	8600	0.894
2212-2RS	60	110	28	30500	11400	710	4300	–	1.13
2212-K-2RS-C3	60	110	28	30500	11400	710	4300	–	1.13
2212-K-C3	60	110	28	48000	16300	1020	6300	7400	1.03
2212	60	110	28	48000	16300	1020	6300	7400	1.06
1312-K-C3	60	130	31	58000	20600	1280	5300	7800	1.94
1312	60	130	31	58000	20600	1280	5300	7800	1.97
2312-K-C3	60	130	46	89000	28000	1740	5000	7800	2.52
2312	60	130	46	89000	28000	1740	5000	7800	2.58
1213-K-C3	65	120	23	31000	12400	770	6300	8000	1.13
1213	65	120	23	31000	12400	770	6300	8000	1.14
2213-2RS	65	120	31	31000	12400	770	4000	–	1.53
2213-K-2RS-C3	65	120	31	31000	12400	770	4000	–	1.5
2213-K-C3	65	120	31	58000	19000	1190	5300	7100	1.33
2213	65	120	31	58000	19000	1190	5300	7100	1.36
1313-K-C3	65	140	33	63000	22700	1380	5000	7400	2.41
1313	65	140	33	63000	22700	1380	5000	7400	2.44
2313-K-C3	65	140	48	98000	32000	1980	4800	7300	3.16
2313	65	140	48	98000	32000	1980	4800	7300	3.23

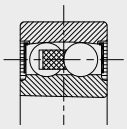
Pendelkugellager zylindrisch | konisch







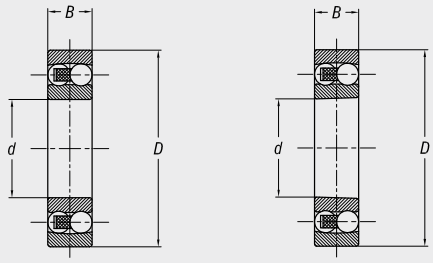
2RS

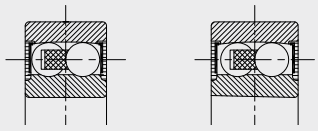


2RS

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
1214-K-C3	70	125	24	35000	13700	850	6000	7700	1.23
1214	70	125	24	35000	13700	850	6000	7700	1.25
2214-2RS	70	125	31	35000	13700	850	3800	–	1.59
2214	70	125	31	44000	16900	1050	8500	6600	1.69
1314	70	150	35	75000	27500	1620	7000	7000	3.22
2314	70	150	51	112000	37000	2210	6300	6900	4.38
1215-K-C3	75	130	25	39000	15500	950	5600	7500	1.32
1215	75	130	25	39000	15500	950	5600	7500	1.34
2215-K-C3	75	130	31	44500	17600	1080	5300	6300	1.6
2215	75	130	31	44500	17600	1080	5300	6300	1.6
1315-K-C3	75	160	37	80000	29500	1690	6300	6700	3.81
1315	75	160	37	80000	29500	1690	6300	6700	3.86
2315-K-C3	75	160	55	124000	42000	2420	6000	6700	5.21
2315	75	160	55	124000	42000	2420	6000	6700	5.33
1216-K-C3	80	140	26	40000	16800	990	5000	7000	1.62
1216	80	140	26	40000	16800	990	5000	7000	1.65
2216-K-C3	80	140	33	49500	19800	1180	5000	6000	1.97
2216	80	140	33	49500	19800	1180	5000	6000	2.01
1316-K-C3	80	170	39	89000	33000	1810	6000	6400	4.5
1316	80	170	39	89000	33000	1810	6000	6400	4.56
2316-K-C3	80	170	58	139000	48500	2700	5600	6400	6.18
2316	80	170	58	139000	48500	2700	5600	6400	6.31
1217-K-C3	85	150	28	49500	20600	1180	4800	6800	2.03
1217	85	150	28	49500	20600	1180	4800	6800	2.07
2217-K-C3	85	150	36	59000	23400	1340	7000	5800	2.73
2217	85	150	36	59000	23400	1340	7000	5800	2.79
1317-K-C3	85	180	41	99000	37500	2010	5600	6200	5.32
1317	85	180	41	99000	37500	2010	5600	6200	5.39
2317-K-C3	85	180	60	143000	51000	2750	5300	6100	7.36
2317	85	180	60	143000	51000	2750	5300	6100	7.35
1218-K-C3	90	160	30	57000	23300	1300	4500	6500	2.48

Pendelkugellager zylindrisch | konisch

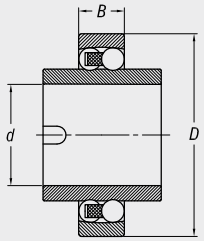




Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
1218	90	160	30	57000	23300	1300	4500	6500	2.52
2218-K-C3	90	160	40	71000	28500	1580	4300	5700	3.18
2218	90	160	40	71000	28500	1580	4300	5700	3.18
1318-K-C3	90	190	43	109000	42500	2230	5300	5900	6.27
1318	90	190	43	109000	42500	2230	5300	5900	6.35
2318-K-C3	90	190	64	156000	57000	3000	5000	5800	8.6
2318	90	190	64	156000	57000	3000	5000	5800	8.78
1219-K-C3	95	170	32	64000	27000	1450	6000	6300	3.28
1219	95	170	32	64000	27000	1450	6000	6300	3.32
2219-K-C3	95	170	43	84000	34000	1840	6000	5600	4.24
2219	95	170	43	84000	34000	1840	6000	5600	4.33
1319-K-C3	95	200	45	134000	50000	2550	5000	5700	7.2
1319	95	200	45	134000	50000	2550	5000	5700	7.29
2319-K-C3	95	200	67	167000	63000	3250	4800	5500	9.97
2319	95	200	67	167000	63000	3250	4800	5500	10.2
1220-K-C3	100	180	34	70000	29500	1550	5600	6200	3.94
1220	100	180	34	70000	29500	1550	5600	6200	3.99
2220-K-C3	100	180	46	98000	40000	2120	5600	5600	5.1
2220	100	180	46	98000	40000	2120	5600	5600	5.21
1320-K-C3	100	215	47	145000	57000	2800	4800	5400	8.95
1320	100	215	47	145000	57000	2800	4800	5400	9.06
2320-K-C3	100	215	73	196000	78000	3900	4500	5200	12.7
2320	100	215	73	196000	78000	3900	4500	5200	12.9
1221	105	190	36	75000	32000	1640	5300	6600	4.75
1321	105	225	49	158000	64000	3100	4500	5200	10.3
1222-K-C3	110	200	38	89000	38000	1900	5000	5800	5.49
1222	110	200	38	89000	38000	1900	5000	5800	5.57
2222-K-C3	110	200	53	126000	51000	2550	5000	5300	7.27
2222	110	200	53	126000	51000	2550	5000	5300	7.45
1322-K-C3	110	240	50	165000	71000	3300	4500	4850	12.2
1322	110	240	50	165000	71000	3300	4500	4850	12.3

Größere Dimensionen bitte anfragen.

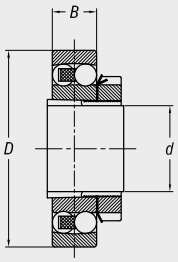
Pendelkugellager mit breitem Innenring

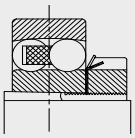


2RS 2RS

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
11204	20	47	14	10100	2600	161	13000		0.085
11205	25	52	15	12300	3250	203	10000		0.226
11206	30	62	16	15900	4600	285	8500		0.364
11207	35	72	17	16000	5100	315	7500		0.554
11208	40	80	18	19400	6500	400	6700		0.722
11209	45	85	19	22000	7300	455	6000		0.78
11210	50	90	20	22900	8000	500	5600		0.866
11211	55	100	21	27000	9900	620	5000		1.13
11212	60	110	22	30500	11400	710	4500		1.51

Pendelkugellager mit Spannhülse





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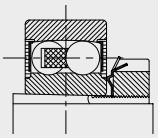
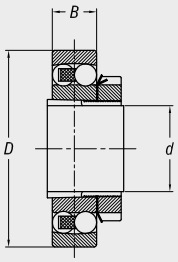
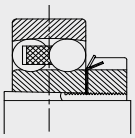


2RS

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
1204-K-C3	H204	17	47	14	10100	2600	161	18000	20200	0.116	0.041
1205-K-C3	H205	20	52	15	12300	3250	203	16000	17800	0.135	0.069
2205-K-2RS-C3	H305	20	52	18	12300	3250	203	9500	–	0.157	0.075
2205-K-C3	H305	20	52	18	17300	4400	275	15000	14600	0.152	0.075
1305-K-C3	H305	20	62	17	18300	4950	310	14000	13900	0.254	0.075
2305-K-C3	H2305	20	62	24	25000	6500	405	13000	13500	0.328	0.085
1206-K-C3	H206	25	62	16	15900	4600	285	14000	14900	0.217	0.091
2206-K-2RS-C3	H306	25	62	20	15900	4600	285	8000	–	0.268	0.099
2206-K-C3	H306	25	62	20	26000	6900	430	12000	12600	0.246	0.099
1306-K-C3	H306	25	72	19	21700	6300	390	11000	12300	0.379	0.099
2306-K-C3	H2306	25	72	27	32500	8700	540	10000	11900	0.476	0.116
1207-K-C3	H207	30	72	17	16000	5100	315	12000	12900	0.319	0.129
2207-K-2RS-C3	H307	30	72	23	16000	5100	315	7000	–	0.432	0.147
2207-K-C3	H307	30	72	23	33000	8900	560	9500	11400	0.38	0.147
1307-K-C3	H307	30	80	21	25500	7800	485	9500	11300	0.5	0.147
2307-K-C3	H2307	30	80	31	40500	11100	690	9000	11200	0.96	0.171
1208-K-C3	H208	35	80	18	19400	6500	400	10000	11600	0.408	0.17
2208-K-2RS-C3	H308	35	80	23	19400	6500	400	6300	–	0.517	0.185
2208-K-C3	H308	35	80	23	32500	9400	580	9000	9900	0.465	0.185
1308-K-C3	H308	35	90	23	30000	9600	600	8500	10300	0.698	0.185
2308-K-C3	H2308	35	90	33	46000	13400	830	8000	10000	0.899	0.222
1209-K-C3	H209	40	85	19	22000	7300	455	9000	10900	0.454	0.216
2209-K-2RS-C3	H309	40	85	23	22000	7300	455	5600	–	0.535	0.246
2209-K-C3	H309	40	85	23	28500	8900	550	8500	9000	0.505	0.246
1309-K-C3	H309	40	100	25	38500	12600	780	7500	9500	0.939	0.246
2309-K-C3	H2309	40	100	36	55000	16500	1030	7000	9300	1.19	0.283
1210-K-C3	H210	45	90	20	22900	8000	500	8500	10300	0.516	0.264
2210-K-2RS-C3	H310	45	90	23	22900	8000	500	5300	–	0.593	0.301
2210-K-C3	H310	45	90	23	28500	9400	580	8000	8300	0.543	0.301
1310-K-C3	H310	45	110	27	42000	14100	880	6700	8800	1.52	0.301
1211-K-C3	H211	50	100	21	27000	9900	620	7500	9400	0.682	0.292

Pendelkugellager mit Spannhülse





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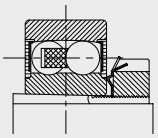


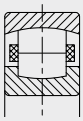
2RS

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
2211-K-2RS-C3	H311	50	100	25	27000	9900	620	4800	–	0.808	0.35
2211-K-C3	H311	50	100	25	39000	12400	770	6700	7700	0.73	0.35
1311-K-C3	H311	50	120	29	52000	17700	1100	6000	8300	1.55	0.35
2311-K-C3	H2311	50	120	43	77000	23800	1480	5600	8200	2.02	0.426
1212-K-C3	H212	55	110	22	30500	11400	710	6700	8600	0.88	0.325
2212-K-2RS-C3	H312	55	110	28	30500	11400	710	4300	–	1.13	0.373
2212-K-C3	H312	55	110	28	48000	16300	1020	6300	7400	1.03	0.373
1312-K-C3	H312	55	130	31	58000	20600	1280	5300	7800	1.94	0.373
2312-K-C3	H2312	55	130	46	89000	28000	1740	5000	7800	2.52	0.464
1213-K-C3	H213	60	120	23	31000	12400	770	6300	8000	1.13	0.393
2213-K-2RS-C3	H313	60	120	31	31000	12400	770	4000	–	1.5	0.452
2213-K-C3	H313	60	120	31	58000	19000	1190	5300	7100	1.33	0.452
1313-K-C3	H313	60	140	33	63000	22700	1380	5000	7400	2.41	0.452
2313-K-C3	H2313	60	140	48	98000	32000	1980	4800	7300	3.16	0.553
1214-K-C3	H214	60	125	24	35000	13700	850	6000	7700	1.23	0.603
1215-K-C3	H215	65	130	25	39000	15500	950	5600	7500	1.32	0.693
2215-K-C3	H315	65	130	31	44500	17600	1080	5300	6300	1.6	0.826
1315-K-M-C3	H315	65	160	37	80000	29500	1690	6300	6700	3.81	0.826
2315-K-M-C3	H2315	65	160	55	124000	42000	2420	6000	6700	5.21	1.05
1216-K-C3	H216	70	140	26	40000	16800	990	5000	7000	1.62	0.876
2216-K-C3	H316	70	140	33	49500	19800	1180	5000	6000	1.97	1.01
1316-K-M-C3	H316	70	170	39	89000	33000	1810	6000	6400	4.5	1.01
2316-K-M-C3	H2316	70	170	58	139000	48500	2700	5600	6400	6.18	1.27
1217-K-C3	H217	75	150	28	49500	20600	1180	4800	6800	2.03	0.995
2217-K-M-C3	H317	75	150	36	59000	23400	1340	7000	5800	2.73	1.16
1317-K-M-C3	H317	75	180	41	99000	37500	2010	5600	6200	5.32	1.16
2317-K-M-C3	H2317	75	180	60	143000	51000	2750	5300	6100	7.36	1.44
1218-K-C3	H218	80	160	30	57000	23300	1300	4500	6500	2.48	1.17
2218-K-C3	H318	80	160	40	71000	28500	1580	4300	5700	3.18	1.36
1318-K-M-C3	H318	80	190	43	109000	42500	2230	5300	5900	6.27	1.36
2318-K-M-C3	H2318	80	190	64	156000	57000	3000	5000	5800	8.6	1.68

Größere Dimensionen bitte anfragen.

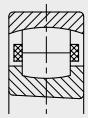
Tonnenlager Allgemeines

Typen



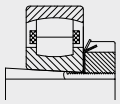
zylindrische Bohrung:

202.. 203....



konische Bohrung:

202..-K 203..-K



konische Bohrung mit Spannhülse:

202..-K+H 203..-K+H

Nachsetzzeichen

- C3	Radialluft größer als normal
- K	kegelige Bohrung
- MB	Massivkäfig aus Messing
-TVP	Massiv-Fensterkäfig aus glasfaser-verstärktem Polyamid

Lagerluft

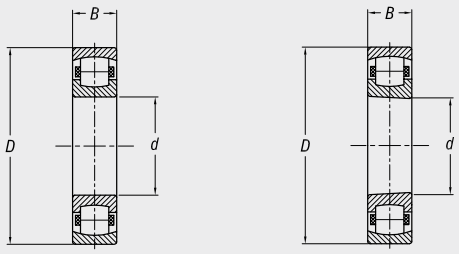
Radiale Lagerluft für Lager mit zylindrischer Bohrung:
Lagerluftgruppe CN (DIN 620-4)

Bohrung d mm über	bis	radiale Lagerluft C2 µm min.	max.	CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.
–	30	2	9	9	17	17	28	28	40
30	40	3	10	10	20	20	30	30	45
40	50	3	13	13	23	23	35	35	50
50	65	4	15	15	27	27	40	40	55
65	80	5	20	20	35	35	55	55	75
80	100	7	25	25	45	45	65	65	90
100	120	10	30	30	50	50	70	70	95
120	140	15	35	35	55	55	80	80	110
140	160	20	40	40	65	65	95	95	125
160	180	25	45	45	70	70	100	100	130
180	225	30	50	50	75	75	105	105	135
225	250	35	55	55	80	80	110	110	140
250	280	40	60	60	85	85	115	115	145

Radiale Lagerluft für Lager mit kegeliger Bohrung:
Lagerluftgruppe C3 (DIN 620-4)

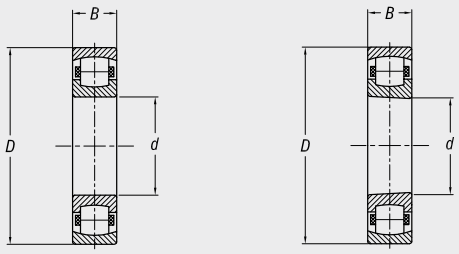
Bohrung d mm über	bis	radiale Lagerluft C2 µm min.	max.	CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.
–	30	9	17	17	28	28	40	40	55
30	40	10	20	20	30	30	45	45	60
40	50	13	23	23	35	35	50	50	65
50	65	15	27	27	40	40	55	55	75
65	80	20	35	35	55	55	75	75	95
80	100	25	45	45	65	65	90	90	120
100	120	30	50	50	70	70	95	95	125
120	140	35	55	55	80	80	110	110	140
140	160	40	65	65	95	95	125	125	155
160	180	45	70	70	100	100	130	130	160
180	225	50	75	75	105	105	135	135	165
225	250	55	80	80	110	110	140	140	170
250	280	60	85	85	115	115	145	145	175

Tonnenlager zylindrisch | konisch



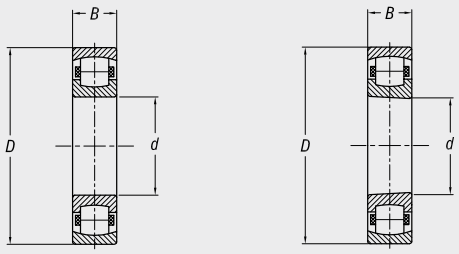
Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m
20204-TVP	20	47	14	20400	19300	1700	7500	0.114
20304-TVP	20	52	15	27000	24500	2300	7000	0.152
20205-K-TVP-C3	25	52	15	24000	25000	2190	6700	0.132
20205-TVP	25	52	15	24000	25000	2190	6700	0.134
20305-TVP	25	62	17	36000	34500	3000	6000	0.243
20206-K-TVP-C3	30	62	16	27500	28500	2850	5600	0.203
20206-TVP	30	62	16	27500	28500	2850	5600	0.207
20306-TVP	30	72	19	49000	49000	4250	5000	0.37
20207-K-TVP-C3	35	72	17	40500	43000	4900	4800	0.296
20207-TVP	35	72	17	40500	43000	4900	4800	0.301
20307-TVP	35	80	21	58500	61000	5400	4500	0.493
20208-K-TVP-C3	40	80	18	49000	53000	5400	4300	0.38
20208-TVP	40	80	18	49000	53000	5400	4300	0.386
20308-TVP	40	90	23	76500	81500	7200	4000	0.671
20209-K-TVP-C3	45	85	19	52000	57000	5900	4000	0.433
20209-TVP	45	85	19	52000	57000	5900	4000	0.441
20309-TVP	45	100	25	86500	95000	8500	3600	0.914
20210-K-TVP-C3	50	90	20	58500	68000	7000	3600	0.489
20210-TVP	50	90	20	58500	68000	7000	3600	0.499
20310-TVP	50	110	27	108000	118000	10600	3400	1.17
20211-K-TVP-C3	55	100	21	73500	85000	9300	3400	0.642
20211-TVP	55	100	21	73500	85000	9300	3400	0.653
20311-K-TVP-C3	55	120	29	120000	137000	12400	3000	1.49
20311-TVP	55	120	29	120000	137000	12400	3000	1.53
20212-K-TVP-C3	60	110	22	85000	100000	10900	3200	0.822
20212-TVP	60	110	22	85000	100000	10900	3200	0.836
20312-K-TVP-C3	60	130	31	146000	170000	15200	2800	1.89
20312-TVP	60	130	31	146000	170000	15200	2800	1.92
20213-K-TVP-C3	65	120	23	95000	116000	12700	3000	1.07
20213-TVP	65	120	23	95000	116000	12700	3000	1.08
20313-K-MB-C3	65	140	33	170000	196000	17900	2800	2.14

Tonnenlager zylindrisch | konisch



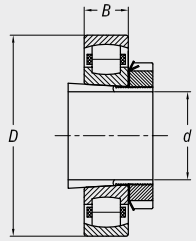
Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m
20313-MB	65	140	33	170000	196000	17900	2800	2.18
20214-TVP	70	125	24	106000	134000	14100	2800	1.17
20314-MB	70	150	35	183000	216000	19600	2600	3.15
20215-K-TVP-C3	75	130	25	112000	143000	16100	2800	1.25
20215-TVP	75	130	25	112000	143000	16100	2800	1.28
20315-MB	75	160	37	216000	255000	22400	2200	3.76
20216-K-TVP-C3	80	140	26	125000	163000	17100	2600	1.56
20216-TVP	80	140	26	125000	163000	17100	2600	1.58
20316-MB	80	170	39	245000	285000	25500	2000	4.58
20217-K-MB-C3	85	150	28	156000	200000	20400	2400	2.19
20217-MB	85	150	28	156000	200000	20400	2400	2.22
20317-MB	85	180	41	270000	320000	28500	1900	5.25
20218-K-MB-C3	90	160	30	173000	220000	22000	2000	2.68
20218-MB	90	160	30	173000	220000	22000	2000	2.72
20318-K-MB-C3	90	190	43	300000	360000	30500	1900	6.17
20318-MB	90	190	43	300000	360000	30500	1900	6.25
20219-MB	95	170	32	208000	265000	26000	1900	3.19
20319-MB	95	200	45	335000	400000	34000	1800	7.29
20220-K-MB-C3	100	180	34	224000	290000	28000	1900	3.9
20220-MB	100	180	34	224000	290000	28000	1900	3.96
20320-K-MB-C3	100	215	47	365000	440000	38000	1700	8.58
20320-MB	100	215	47	365000	440000	38000	1700	8.69
20221-MB	105	190	36	245000	315000	30500	1800	4.74
20222-K-MB-C3	110	200	38	285000	375000	34500	1700	5.45
20222-MB	110	200	38	285000	375000	34500	1700	5.53
20322-MB	110	240	50	430000	520000	45500	1500	11.6
20224-K-MB-C3	120	215	40	305000	415000	38000	1600	6.51
20224-MB	120	215	40	305000	415000	38000	1600	6.6
20324-MB	120	260	55	490000	630000	52000	1400	15.2
20226-K-MB-C3	130	230	40	335000	450000	42500	1500	7.21
20226-MB	130	230	40	335000	450000	42500	1500	7.31

Tonnenlager zylindrisch | konisch



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m
20326-MB	130	280	58	550000	720000	59000	1400	18.4
20228-K-MB-C3	140	250	42	390000	530000	50000	1400	8.98
20228-MB	140	250	42	390000	530000	50000	1400	9.09
20328-MB	140	300	62	640000	850000	66000	1300	22.5
20230-K-MB-C3	150	270	45	430000	610000	55000	1300	11.6
20230-MB	150	270	45	430000	610000	55000	1300	11.7
20330-MB	150	320	65	720000	950000	74000	1200	26.9
20232-K-MB-C3	160	290	48	500000	720000	64000	1200	14.4
20232-MB	160	290	48	500000	720000	64000	1200	14.5
20234-MB	170	310	52	570000	830000	70000	1100	17.9
20236-MB	180	320	52	585000	850000	74000	1000	18.4
20238-MB	190	340	55	640000	950000	81000	950	22.5
20240-MB	200	360	58	735000	1080000	91000	950	26.7
20244-MB	220	400	65	880000	1320000	109000	850	37.4
20248-MB	240	440	72	1060000	1600000	129000	750	50.5
20252-MB	260	480	80	1270000	1930000	148000	700	68.2

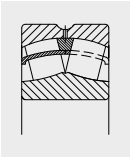
Tonnenlager konisch mit Spannhülse



Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m	m (H)
20205-K-TVP-C3	H205	20	52	15	24000	25000	2190	6700	0.132	0.069
20206-K-TVP-C3	H206	25	62	16	27500	28500	2850	5600	0.203	0.091
20207-K-TVP-C3	H207	30	72	17	40500	43000	4900	4800	0.296	0.129
20208-K-TVP-C3	H208	35	80	18	49000	53000	5400	4300	0.38	0.17
20209-K-TVP-C3	H209	40	85	19	52000	57000	5900	4000	0.433	0.216
20210-K-TVP-C3	H210	45	90	20	58500	68000	7000	3600	0.489	0.264
20211-K-TVP-C3	H211	50	100	21	73500	85000	9300	3400	0.642	0.292
20311-K-TVP-C3	H311	50	120	29	120000	137000	12400	3000	1.49	0.35
20212-K-TVP-C3	H212	55	110	22	85000	100000	10900	3200	0.822	0.325
20312-K-TVP-C3	H312	55	130	31	146000	170000	15200	2800	1.89	0.373
20213-K-TVP-C3	H213	60	120	23	95000	116000	12700	3000	1.07	0.393
20313-K-MB-C3	H313	60	140	33	170000	196000	17900	2800	2.14	0.452
20215-K-TVP-C3	H215	65	130	25	112000	143000	16100	2800	1.25	0.693
20216-K-TVP-C3	H216	70	140	26	125000	163000	17100	2600	1.56	0.876
20217-K-MB-C3	H217	75	150	28	156000	200000	20400	2400	2.19	0.995
20218-K-MB-C3	H218	80	160	30	173000	220000	22000	2000	2.68	1.17
20318-K-MB-C3	H318	80	190	43	300000	360000	30500	1900	6.17	1.36
20220-K-MB-C3	H220	90	180	34	224000	290000	28000	1900	3.9	1.48
20320-K-MB-C3	H320	90	215	47	365000	440000	38000	1700	8.58	1.69
20222-K-MB-C3	H222	100	200	38	285000	375000	34500	1700	5.45	1.9
20224-K-MB-C3	H3024	110	215	40	305000	415000	38000	1600	6.51	1.95
20226-K-MB-C3	H3026	115	230	40	335000	450000	42500	1500	7.21	2.9
20228-K-MB-C3	H3028	125	250	42	390000	530000	50000	1400	8.98	3.25
20230-K-MB-C3	H3030	135	270	45	430000	610000	55000	1300	11.6	3.98
20232-K-MB-C3	H3032	140	290	48	500000	720000	64000	1200	14.4	5.33

Pendelrollenlager Allgemeines

Typen

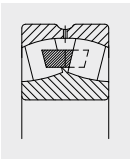


zylindrisch:

213..-E1 222..-E1 223..-E1

230..-E1(A) 231..-E1(A) 232..-E1(A)

240..-E1 241..-E1

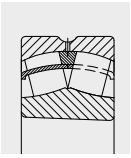


zylindrisch (fester Mittelbord)

222.. 223.. 230..

231.. 232.. 233..-A

239.. 240.. 241..

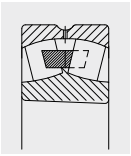


konisch:

213..-E1-K 222..-E1-K 223..-E1-K

230..-E1(A)-K 231..-E1(A)-K 232..-E1(A)-K

240..-E1(A)-K 241..-E1(A)-K

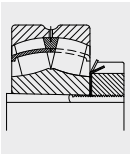


konisch (fester Mittelbord)

222..-K 223..-K 230..-K

231..-K 232..-K 239..-K

240..-K30 241..-K30

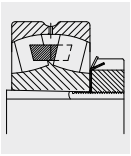


mit Spannhülse:

213..-E1-K+H 222..-E1-K+H

223..-E1-K+H 230..-E1-K+H

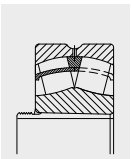
231..-E1(A)-K+H 232..-E1(A)-K+H



mit Spannhülse (fester Mittelbord)

222..-K+H 223..-K+H 230..-K+H

231..-K+H 232..-K+H 239..-K+H



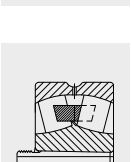
mit Abziehhülse:

213..-E1-K+AH 222..-E1-K+AH

223..-E1-K+AH 230..-E1-K+AH

231..-E1(A)-K+AH 232..-E1(A)-K+AH

240..-E1-K30+AH 241..-E1-K30+AH



mit Abziehhülse (fester Mittelbord)

222..-K+AH 223..-K+AH 230..-K+AH

231..-K+AH 232..-K+AH 239..-K+AH

240..-E1-K30+AH 241..-E1-K30+AH

Nachsetzzeichen

- A	geänderte Innenkonstruktion
- B	geänderte Innenkonstruktion
- E1	verstärkte Ausführung
- K	kegelige Bohrung, Kegel 1:12
- K30	kegelige Bohrung, Kegel 1:30
- M	Massivkäfig aus Messing, rollengeführt
- MA	Massivkäfig aus Messing, Führung am Außenring
- MB	Massivkäfig aus Messing, Führung am Innenring
- S	Schmiernut und Schmierbohrung im Außenring
- T41A	für schwingende Beanspruchung mit eingeengten Durchmessertoleranzen, Radialluft C4
- T41D	für schwingende Beanspruchung mit eingeengten Durchmessertoleranzen, Radialluft C4, dünnschicht verchromte Bohrung
- TVPB	Massiv-Fensterkäfig aus glasfaserverstärktem Polyamid, Führung am Innenring

Pendelrollenlager Allgemeines

Lagerluft

Radiale Lagerluft für Lager mit zylindrischer Bohrung:
Lagerluftgruppe CN (DIN 620-4)

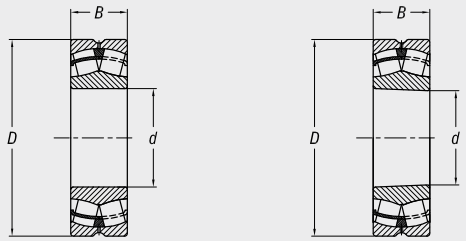
Bohrung d mm über	bis	radiale Lagerluft C2 µm min.	max.	CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.
18	24	10	20	20	35	35	45	45	60
24	30	15	25	25	40	40	55	55	75
30	40	15	30	30	45	45	60	60	80
40	50	20	35	35	55	55	75	75	100
50	65	20	40	40	65	65	90	90	120
65	80	30	50	50	80	80	110	110	145
80	100	35	60	60	100	100	135	135	180
100	120	40	75	75	120	120	160	160	210
120	140	50	95	95	145	145	190	190	240
140	160	60	110	110	170	170	220	220	280
160	180	65	120	120	180	180	240	240	310
180	200	70	130	130	200	200	260	260	340
200	225	80	140	140	220	220	290	290	380
225	250	90	150	150	240	240	320	320	420
250	280	100	170	170	260	260	350	350	460
280	315	110	190	190	280	280	370	370	500
315	355	120	200	200	310	310	410	410	550
355	400	130	220	220	340	340	450	450	600
400	450	140	240	240	370	370	500	500	660
450	500	140	260	260	410	410	550	550	720
500	560	150	280	280	440	440	600	600	780
560	630	170	310	310	480	480	650	650	850
630	710	190	350	350	530	530	700	700	920
710	800	210	390	390	580	580	770	770	1010
800	900	230	430	430	650	650	860	860	1120

Radiale Lagerluft für Lager mit kegeliger Bohrung:
Lagerluftgruppe CN (DIN 620-4)

Bohrung d mm über	bis	radiale Lagerluft C2 µm min.	max.	CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.
18	24	15	25	25	35	35	45	45	60
24	30	20	30	30	40	40	55	55	75
30	40	25	35	35	50	50	65	65	85
40	50	30	45	45	60	60	80	80	100
50	65	40	55	55	75	75	95	95	120
65	80	50	70	70	95	95	120	120	150
80	100	55	80	80	110	110	140	140	180
100	120	65	100	100	135	135	170	170	220
120	140	80	120	120	160	160	200	200	260
140	160	90	130	130	180	180	230	230	300
160	180	100	140	140	200	200	260	260	340
180	200	110	160	160	220	220	290	290	370
200	225	120	180	180	250	250	230	230	410
225	250	140	200	200	270	270	350	350	450
250	280	150	220	220	300	300	390	390	490
280	315	170	240	240	330	330	430	430	540

Bohrung d mm über	bis	radiale Lagerluft C2 µm min.	max.	CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.
315	355	190	270	270	360	360	470	470	590
355	400	210	300	300	400	400	520	520	650
400	450	230	330	330	440	440	570	570	720
450	500	260	370	370	490	490	630	630	790
500	560	290	410	410	540	540	680	680	870
560	630	320	460	460	600	600	760	760	980
630	710	350	510	510	670	670	850	850	1090
710	800	390	570	570	750	750	960	960	1220
800	900	440	640	640	840	840	1070	1070	1370

Pendelrollenlager zylindrisch | konisch



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
21304-E1	20	52	15	41000	33000	3700	15000	10100	0.16
22205-E1-K	25	52	18	48000	42500	4800	17000	9500	0.175
22205-E1	25	52	18	48000	42500	4800	17000	9500	0.18
21305-E1	25	62	17	52000	43500	4750	13000	9500	0.254
22206-E1-K	30	62	20	64000	57000	6900	13000	8700	0.269
22206-E1	30	62	20	64000	57000	6900	13000	8100	0.175
21306-E1	30	72	19	72000	63000	7000	11000	8100	0.386
22207-E1-K	35	72	23	88000	81500	9400	11000	7500	0.425
22207-E1	35	72	23	88000	81500	9400	11000	7300	0.434
21307-E1-K	35	80	21	83000	73500	8100	9500	7000	0.496
21307-E1	35	80	21	83000	73500	8100	9500	7000	0.503
22208-E1-K	40	80	23	102000	90000	11800	10000	6400	0.517
22208-E1	40	80	23	102000	90000	11800	10000	6400	0.528
21308-E1	40	90	23	108000	106000	14300	9500	6100	0.701
21308-E1-K	40	90	23	108000	106000	14300	9500	6100	0.702
22308-E1-K	40	90	33	156000	150000	13100	7500	5800	1.03
22308-E1	40	90	33	156000	150000	13100	7500	5800	1.05
22308-E1-T41A	40	90	33	156000	150000	13100	7500	5800	1.05
22209-E1-K	45	85	23	104000	98000	12700	10000	5800	0.577
22209-E1	45	85	23	104000	98000	12700	10000	5800	0.589
21309-E1-K	45	100	25	129000	129000	17300	8500	5500	0.845
21309-E1	45	100	25	129000	129000	17300	8500	5500	0.845
22309-E1-K	45	100	36	186000	183000	16100	6700	5300	1.36
22309-E1	45	100	36	186000	183000	16100	6700	5300	1.39
22309-E1-T41A	45	100	36	186000	183000	16100	6700	5300	1.39
22210-E1-K	50	90	23	108000	106000	14300	9500	5300	0.608
22210-E1	50	90	23	108000	106000	14300	9500	5300	0.622
21310-E1-K	50	110	27	129000	129000	17300	8500	5300	1.28
21310-E1	50	110	27	129000	129000	17300	8500	5300	1.28
22310-E1-K	50	110	40	228000	224000	20300	6000	4950	1.86
22310-E1	50	110	40	228000	224000	20300	6000	4950	1.95

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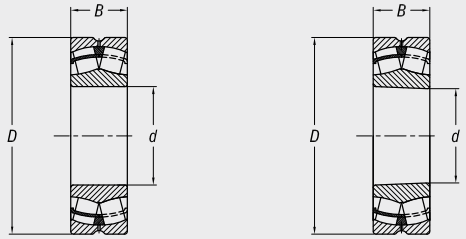

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
22310-E1-T41A	50	110	40	228000	224000	20300	6000	4950	1.95
22211-E1-K	55	100	25	129000	129000	17300	8500	4850	0.825
22211-E1	55	100	25	129000	129000	17300	8500	4850	0.851
21311-E1-K	55	120	29	170000	166000	21200	6300	4950	1.19
21311-E1	55	120	29	170000	166000	21200	6300	4950	1.19
22311-E1-K	55	120	43	265000	260000	23900	5600	4650	2.22
22311-E1-K-T41A	55	120	43	265000	260000	23900	5600	4650	2.22
22311-E1	55	120	43	265000	260000	23900	5600	4650	2.27
22311-E1-T41A	55	120	43	265000	260000	23900	5600	4650	2.27
22212-E1-K	60	110	28	170000	166000	21200	7500	4650	1.09
22212-E1	60	110	28	170000	166000	21200	7500	4650	1.12
21312-E1-K	60	130	31	212000	228000	28000	6300	4500	1.78
21312-E1	60	130	31	212000	228000	28000	6300	4500	1.78
22312-E1-K	60	130	46	310000	310000	28000	5000	4300	2.83
22312-E1-K-T41A	60	130	46	310000	310000	28000	5000	4300	2.83
22312-E1	60	130	46	310000	310000	28000	5000	4300	2.89
22312-E1-T41A	60	130	46	310000	310000	28000	5000	4300	2.89
22213-E1-K	65	120	31	200000	208000	25500	6700	4400	1.52
22213-E1	65	120	31	200000	208000	25500	6700	4400	1.55
21313-E1-K	65	140	33	250000	270000	34000	5000	4200	2.42
21313-E1	65	140	33	250000	270000	34000	5000	4200	2.42
22313-E1-K	65	140	48	355000	365000	32500	4800	3950	3.49
22313-E1-K-T41A	65	140	48	355000	365000	32500	4800	3950	3.49
22313-E1	65	140	48	355000	365000	32500	4800	3950	3.57
22313-E1-T41A	65	140	48	355000	365000	32500	4800	3950	3.57
22214-E1-K	70	125	31	212000	228000	28000	6300	4100	1.61
22214-E1	70	125	31	212000	228000	28000	6300	4100	1.65
21314-E1-K	70	150	35	250000	270000	34000	5000	4100	3
21314-E1	70	150	35	250000	270000	34000	5000	4100	3
22314-E1-K	70	150	51	390000	390000	36500	4500	3850	4.12
22314-E1-K-T41A	70	150	51	390000	390000	36500	4500	3850	4.12

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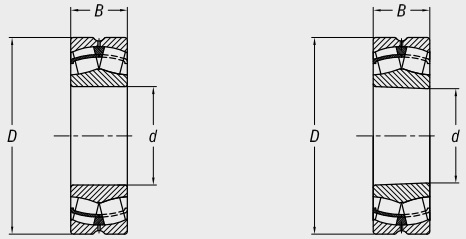

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
22314-E1	70	150	51	390000	390000	36500	4500	3850	4.21
22314-E1-T41A	70	150	51	390000	390000	36500	4500	3850	4.21
22215-E1-K	75	130	31	216000	236000	29500	6300	3900	1.68
22215-E1	75	130	31	216000	236000	29500	6300	3900	1.72
21315-E1-K	75	160	37	305000	325000	38500	4800	3850	2.86
21315-E1	75	160	37	305000	325000	38500	4800	3850	2.86
22315-E1-K	75	160	55	440000	450000	40500	4300	3650	5.06
22315-E1-K-T41A	75	160	55	440000	450000	40500	4300	3650	5.06
22315-E1	75	160	55	440000	450000	40500	4300	3650	5.18
22315-E1-T41A	75	160	55	440000	450000	40500	4300	3650	5.18
22216-E1-K	80	140	33	250000	270000	34000	5600	3700	2.08
22216-E1	80	140	33	250000	270000	34000	5600	3700	2.13
21316-E1-K	80	170	39	305000	325000	38500	4800	3750	2.65
21316-E1	80	170	39	305000	325000	38500	4800	3750	2.65
22316-E1-K	80	170	58	500000	510000	45000	4300	3450	6.05
22316-E1-K-T41A	80	170	58	500000	510000	45000	4300	3450	6.05
22316-E1	80	170	58	500000	510000	45000	4300	3450	6.27
22316-E1-T41A	80	170	58	500000	510000	45000	4300	3450	6.27
22217-E1-K	85	150	36	305000	325000	38500	5300	3550	2.59
22217-E1	85	150	36	305000	325000	38500	5300	3550	2.65
21317-E1-K	85	180	41	345000	375000	42500	4800	3550	5.37
21317-E1	85	180	41	345000	375000	42500	4800	3550	5.37
22317-E1	85	180	60	540000	560000	50000	4000	3300	7.06
22317-E1-T41A	85	180	60	540000	560000	50000	4000	3300	7.06
22317-E1-K	85	180	60	540000	560000	50000	4000	3300	7.06
22317-E1-K-T41A	85	180	60	540000	560000	50000	4000	3300	7.06
22218-E1-K	90	160	40	345000	375000	42500	4800	3500	3.35
22218-E1	90	160	40	345000	375000	42500	4800	3500	3.43
23218-E1-K	90	160	52.4	440000	520000	48500	4300	2700	4.08
23218-E1	90	160	52.4	440000	520000	48500	4300	2700	4.27
23218-E1A-K-M	90	160	52.4	440000	520000	48500	4300	2700	4.34

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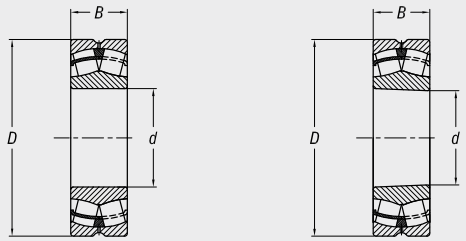

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
21318-E1-K	90	190	43	380000	415000	47000	4500	3450	6.26
21318-E1	90	190	43	380000	415000	47000	4500	3450	6.26
22318-E1-K	90	190	64	610000	630000	55000	3600	3100	8.33
22318-E1-K-T41A	90	190	64	610000	630000	55000	3600	3100	8.33
22318-E1	90	190	64	610000	630000	55000	3600	3100	8.51
22318-E1-T41A	90	190	64	610000	630000	55000	3600	3100	8.51
22219-E1-K	95	170	43	380000	415000	47000	4500	3400	4.04
22219-E1	95	170	43	380000	415000	47000	4500	3400	4.13
21319-E1-K	95	200	45	430000	455000	47500	4000	3300	6.53
21319-E1	95	200	45	430000	455000	47500	4000	3300	6.63
22319-E1-K	95	200	67	670000	695000	60000	3000	2900	9.46
22319-E1-K-T41A	95	200	67	670000	695000	60000	3000	2900	9.46
22319-E1	95	200	67	670000	695000	60000	3000	2900	9.69
22319-E1-T41A	95	200	67	670000	695000	60000	3000	2900	9.69
23120-E1-K	100	165	52	450000	570000	52000	4300	2800	4.06
23120-E1	100	165	52	450000	570000	52000	4300	2800	4.22
23120-E1A-K-M	100	165	52	450000	570000	52000	4300	2800	4.23
23120-E1A-M	100	165	52	450000	570000	52000	4300	2800	4.37
22220-E1-K	100	180	46	430000	475000	52000	4300	3300	4.91
22220-E1	100	180	46	430000	475000	52000	4300	3300	4.96
23220-E1-K	100	180	60.3	550000	655000	60000	3600	2470	6.13
23220-E1	100	180	60.3	550000	655000	60000	3600	2470	6.32
23220-E1A-K-M	100	180	60.3	550000	655000	60000	3600	2470	6.33
23220-E1A-M	100	180	60.3	550000	655000	60000	3600	2470	6.45
21320-E1-K	100	215	47	490000	530000	61000	3600	3100	8.08
21320-E1	100	215	47	490000	530000	61000	3600	3100	8.19
22320-E1	100	215	73	815000	915000	75000	3000	2550	13.1
22320-E1-T41A	100	215	73	815000	915000	75000	3000	2550	13.1
22320-E1-K	100	215	73	815000	915000	75000	3000	2550	13.1
22320-E1-K-T41A	100	215	73	815000	915000	75000	3000	2550	13.1
23320-AS-MA-T41A	100	215	82.6	680000	900000	69000	2800	–	15.5

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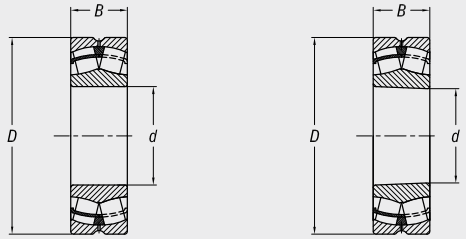

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23022-E1	110	170	45	400000	530000	52000	4300	3050	3.55
23022-E1A-M	110	170	45	400000	530000	52000	4300	3050	3.67
23122-E1-K	110	180	56	530000	680000	61000	4000	2600	4.95
23122-E1A-K-M	110	180	56	530000	680000	61000	4000	2600	5.11
23122-E1	110	180	56	530000	680000	61000	4000	2600	5.31
23122-E1A-M	110	180	56	530000	680000	61000	4000	2600	5.51
24122-E1-K30	110	180	69	620000	900000	67000	2600	1820	6.69
24122-E1	110	180	69	620000	900000	67000	2600	1820	6.85
22222-E1-K	110	200	53	550000	600000	62000	4000	3100	6.82
22222-E1	110	200	53	550000	600000	62000	4000	3100	6.99
23222-E1-K	110	200	69.8	710000	865000	72000	3000	2150	8.82
23222-E1	110	200	69.8	710000	865000	72000	3000	2150	9.18
23222-E1A-K-M	110	200	69.8	710000	865000	72000	3000	2150	9.32
23222-E1A-M	110	200	69.8	710000	865000	72000	3000	2150	9.54
21322-E1-K	110	240	50	600000	640000	69000	3000	2750	10.9
21322-E1	110	240	50	600000	640000	69000	3000	2750	11.1
22322-E1-K	110	240	80	950000	1060000	91000	2600	2250	17.4
22322-E1-K-T41A	110	240	80	950000	1060000	91000	2600	2250	17.4
22322-E1	110	240	80	950000	1060000	91000	2600	2250	17.7
22322-E1-T41A	110	240	80	950000	1060000	91000	2600	2250	17.7
23322-AS-MA-T41A	110	240	92.1	830000	1080000	86000	2600	–	21.3
23024-E1-K	120	180	46	430000	585000	58000	4300	2850	3.67
23024-E1	120	180	46	430000	585000	58000	4300	2850	3.86
23024-E1A-K-M	120	180	46	430000	585000	58000	4300	2850	4.09
23024-E1A-M	120	180	46	430000	585000	58000	4300	2850	4.17
24024-S-K30-MB	120	180	60	405000	710000	40000	2600	2380	5.35
24024-S-MB	120	180	60	405000	710000	40000	2600	2380	5.46
24024-E1	120	180	60	540000	800000	72000	3000	2290	5.65
24024-E1-K30	120	180	60	540000	800000	72000	3000	2290	6.11
23124-E1-K	120	200	62	630000	800000	73000	3400	2330	7.06
23124-E1	120	200	62	630000	800000	73000	3400	2330	7.39

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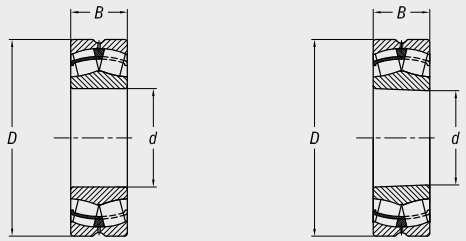

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23124-E1A-K-M	120	200	62	630000	800000	73000	3400	2330	7.57
23124-E1A-M	120	200	62	630000	800000	73000	3400	2330	7.71
24124-E1-K30	120	200	80	780000	1120000	85000	2200	1610	11.5
24124-E1	120	200	80	780000	1120000	85000	2200	1610	11.6
22224-E1	120	215	58	640000	735000	71000	3400	2800	8.84
22224-E1-K	120	215	58	640000	735000	71000	3400	2800	8.84
23224-E1-K	120	215	76	815000	1020000	80000	2800	1940	11.1
23224-E1A-K-M	120	215	76	815000	1020000	80000	2800	1940	11.4
23224-E1	120	215	76	815000	1020000	80000	2800	1940	11.5
23224-E1A-M	120	215	76	815000	1020000	80000	2800	1940	12.1
22324-E1-K	120	260	86	1080000	1160000	103000	2600	2080	22.1
22324-E1-K-T41A	120	260	86	1080000	1160000	103000	2600	2080	22.1
22324-E1	120	260	86	1080000	1160000	103000	2600	2080	22.5
22324-E1-T41A	120	260	86	1080000	1160000	103000	2600	2080	22.5
23324-AS-MA-T41A	120	260	106	1020000	1430000	103000	2400	–	29.1
23026-E1-K	130	200	52	540000	735000	70000	3600	2650	5.42
23026-E1	130	200	52	540000	735000	70000	3600	2650	5.61
23026-E1A-K-M	130	200	52	540000	735000	70000	3600	2650	5.71
23026-E1A-M	130	200	52	540000	735000	70000	3600	2650	5.96
24026-S-MB	130	200	69	500000	900000	53000	2600	2140	7.97
24026-E1-K30	130	200	69	680000	1020000	85000	2600	2050	7.57
24026-E1	130	200	69	680000	1020000	85000	2600	2050	7.72
23126-E1-K	130	210	64	680000	900000	79000	3000	2130	7.82
23126-E1A-K-M	130	210	64	680000	900000	79000	3000	2130	8.11
23126-E1	130	210	64	680000	900000	79000	3000	2130	8.11
23126-E1A-M	130	210	64	680000	900000	79000	3000	2130	8.45
24126-E1-K30	130	210	80	815000	1200000	93000	2200	1480	10.1
24126-E1	130	210	80	815000	1200000	93000	2200	1480	10.6
22226-E1-K	130	230	64	750000	900000	79000	3000	2550	10.9
22226-E1	130	230	64	750000	900000	79000	3000	2550	11.3
23226-E1-K	130	230	80	900000	1140000	89000	2600	1780	12.6

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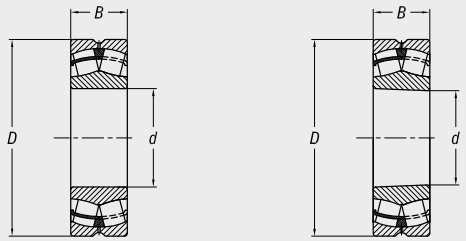

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23226-E1	130	230	80	900000	1140000	89000	2600	1780	13.4
23226-E1A-K-M	130	230	80	900000	1140000	89000	2600	1780	13.6
23226-E1A-M	130	230	80	900000	1140000	89000	2600	1780	14
22326-E1-K	130	280	93	1250000	1370000	117000	2400	1870	27.4
22326-E1-K-T41A	130	280	93	1250000	1370000	117000	2400	1870	27.4
22326-E1	130	280	93	1250000	1370000	117000	2400	1870	28
22326-E1-T41A	130	280	93	1250000	1370000	117000	2400	1870	28
23326-AS-MA-T41A	130	280	112	1160000	1600000	108000	2200	–	35
23028-E1-K	140	210	53	570000	800000	76000	3600	2440	5.81
23028-E1A-K-M	140	210	53	570000	800000	76000	3600	2440	6
23028-E1	140	210	53	570000	800000	76000	3600	2440	6.04
23028-E1A-M	140	210	53	570000	800000	76000	3600	2440	6.45
24028-S-K30-MB	140	210	69	510000	915000	56000	2400	2000	8.29
24028-S-MB	140	210	69	510000	915000	56000	2400	2000	8.48
24028-E1-K30	140	210	69	720000	1100000	93000	2600	1880	7.96
24028-E1	140	210	69	720000	1100000	93000	2600	1880	8.15
23128-E1A-K-M	140	225	68	765000	1020000	88000	2800	1960	7.78
23128-E1-K	140	225	68	765000	1020000	88000	2800	1960	9.46
23128-E1	140	225	68	765000	1020000	88000	2800	1960	9.81
23128-E1A-M	140	225	68	765000	1020000	88000	2800	1960	10.4
24128-E1-K30	140	225	85	930000	1370000	104000	2000	1340	11.8
24128-E1	140	225	85	930000	1370000	104000	2000	1340	12.8
22228-E1-K	140	250	68	880000	1040000	97000	2400	2320	13.7
22228-E1	140	250	68	880000	1040000	97000	2400	2320	14.2
23228-E1-K	140	250	88	1080000	1400000	112000	2400	1580	17.1
23228-E1A-K-M	140	250	88	1080000	1400000	112000	2400	1580	17.6
23228-E1	140	250	88	1080000	1400000	112000	2400	1580	17.7
23228-E1A-M	140	250	88	1080000	1400000	112000	2400	1580	18.3
22328-E1-K	140	300	102	1460000	1630000	132000	2200	1700	34.4
22328-E1-K-T41A	140	300	102	1460000	1630000	132000	2200	1700	34.4
22328-E1	140	300	102	1460000	1630000	132000	2200	1700	35.1

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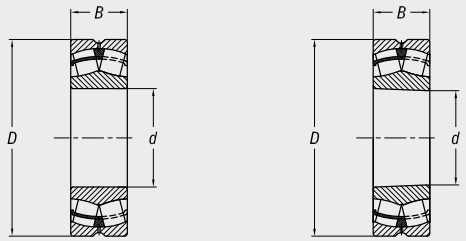

Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
22328-E1-T41A	140	300	102	1460000	1630000	132000	2200	1700	35.1
23328-AS-MA-T41A	140	300	118	1270000	1800000	123000	2000	–	40.9
23030-E1-K	150	225	56	630000	880000	85000	3400	2260	7.29
23030-E1A-K-M	150	225	56	630000	880000	85000	3400	2260	7.33
23030-E1	150	225	56	630000	880000	85000	3400	2260	7.63
23030-E1A-M	150	225	56	630000	880000	85000	3400	2260	7.83
24030-S-MB	150	225	75	620000	1140000	67000	2200	1800	10.4
24030-S-K30-MB	150	225	75	620000	1140000	67000	2200	1800	10.7
24030-E1-K30	150	225	75	815000	1250000	105000	2400	1740	10
24030-E1	150	225	75	815000	1250000	105000	2400	1740	10.2
23130-E1-K	150	250	80	1000000	1320000	143000	2600	1760	14.5
23130-E1	150	250	80	1000000	1320000	143000	2600	1760	15
23130-E1A-K-M	150	250	80	1000000	1320000	143000	2600	1760	15.8
23130-E1A-M	150	250	80	1000000	1320000	143000	2600	1760	16.2
24130-BS-K30	150	250	100	915000	1560000	100000	2000	1260	19
24130-BS	150	250	100	915000	1560000	100000	2000	1260	20
22230-E1-K	150	270	73	1000000	1220000	111000	2600	2110	17.8
22230-E1	150	270	73	1000000	1220000	111000	2600	2110	18.2
23230-E1-K	150	270	96	1270000	1660000	129000	2200	1420	22.3
23230-E1A-K-M	150	270	96	1270000	1660000	129000	2200	1420	22.9
23230-E1	150	270	96	1270000	1660000	129000	2200	1420	22.9
23230-E1A-M	150	270	96	1270000	1660000	129000	2200	1420	23.7
22330-E1-K	150	320	108	1630000	1860000	147000	2000	1550	41.2
22330-E1-K-T41A	150	320	108	1630000	1860000	147000	2000	1550	41.2
22330-E1	150	320	108	1630000	1860000	147000	2000	1550	42.2
22330-E1-T41A	150	320	108	1630000	1860000	147000	2000	1550	42.2
23330-A-MA-T41A	150	320	128	1500000	2120000	135000	2000	–	49.8
23032-E1-K	160	240	60	720000	1020000	94000	2800	2090	8.67
23032-E1	160	240	60	720000	1020000	94000	2800	2090	8.97
23032-E1A-K-M	160	240	60	720000	1020000	94000	2800	2090	9.42
23032-E1A-M	160	240	60	720000	1020000	94000	2800	2090	9.71

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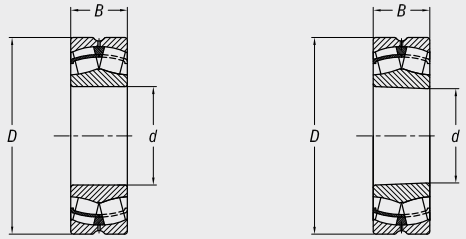

Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
24032-S-K30-MB	160	240	80	670000	1250000	71000	2000	1680	12.8
24032-S-MB	160	240	80	670000	1250000	71000	2000	1680	131
24032-E1-K30	160	240	80	915000	1430000	117000	2200	1600	11.8
24032-E1	160	240	80	915000	1430000	117000	2200	1600	12.3
23132-E1-K	160	270	86	1160000	1560000	164000	2400	1590	18.4
23132-E1A-K-M	160	270	86	1160000	1560000	164000	2400	1590	18.6
23132-E1	160	270	86	1160000	1560000	164000	2400	1590	19.1
23132-E1A-M	160	270	86	1160000	1560000	164000	2400	1590	20
24132-BS	160	270	109	1060000	1800000	106000	2000	1150	23
24132-BS-K30	160	270	109	1060000	1800000	106000	2000	1150	25
22232-E1-K	160	290	80	1140000	1400000	125000	2600	1960	22.4
22232-E1	160	290	80	1140000	1400000	125000	2600	1960	23.3
23232-E1-K	160	290	104	1460000	1900000	146000	2200	1310	27.7
23232-E1A-K-M	160	290	104	1460000	1900000	146000	2200	1310	28.5
23232-E1	160	290	104	1460000	1900000	146000	2200	1310	28.6
23232-E1A-M	160	290	104	1460000	1900000	146000	2200	1310	29.8
22332-K-MB	160	340	114	1430000	1900000	121000	2000	1490	50.1
22332-MB	160	340	114	1430000	1900000	121000	2000	1490	51.1
22332-A-MA-T41A	160	340	114	1430000	1900000	136000	2000	1490	52.4
23332-A-MA-T41A	160	340	136	1660000	2320000	152000	2000		61.3
23034-E1-K	170	260	67	880000	1220000	146000	2600	1940	11.9
23034-E1A-K-M	170	260	67	880000	1220000	146000	2600	1940	12
23034-E1	170	260	67	880000	1220000	146000	2600	1940	12.3
23034-E1A-M	170	260	67	880000	1220000	146000	2600	1940	13
24034-BS-K30-MB	170	260	90	850000	1560000	96000	2000	1530	16.8
24034-BS-MB	170	260	90	850000	1560000	96000	2000	1530	17.6
23134-E1A-K-M	170	280	88	1220000	1700000	174000	2400	1480	19.5
23134-E1-K	170	280	88	1220000	1700000	174000	2400	1480	19.9
23134-E1	170	280	88	1220000	1700000	174000	2400	1480	20.7
23134-E1A-M	170	280	88	1220000	1700000	174000	2400	1480	22.1
24134-BS-K30	170	280	109	1060000	1830000	98000	1800	1100	25

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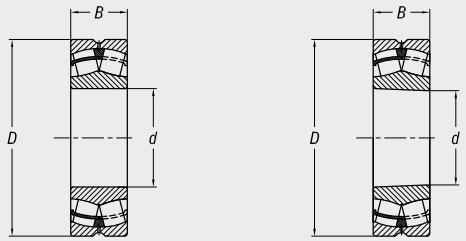

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
24134-BS	170	280	109	1060000	1830000	98000	1800	1100	25.8
22234-E1-K	170	310	86	1320000	1560000	139000	2400	1830	27.1
22234-E1	170	310	86	1320000	1560000	139000	2400	1830	27.8
23234-E1-K	170	310	110	1630000	2160000	163000	2000	1190	33.1
23234-E1A-K-M	170	310	110	1630000	2160000	163000	2000	1190	34.6
23234-E1	170	310	110	1630000	2160000	163000	2000	1190	34.9
23234-E1A-M	170	310	110	1630000	2160000	163000	2000	1190	36.5
22334-K-MB	170	360	120	1600000	2120000	134000	1800	1380	56.9
22334-A-MA-T41A	170	360	120	1600000	2120000	144000	1800	1380	59.5
22334-MB	170	360	120	1600000	2120000	134000	1800	1380	59.5
23936-S-K-MB	180	250	52	440000	8500000	57000	2200	2320	7.76
23936-S-MB	180	250	52	440000	8500000	57000	2200	2320	7.96
23036-E1-K	180	280	74	1040000	1460000	170000	2600	1790	15.6
23036-E1	180	280	74	1040000	1460000	170000	2600	1790	15.9
23036-E1A-K-M	180	280	74	1040000	1460000	170000	2600	1790	16.8
23036-E1A-M	180	280	74	1040000	1460000	170000	2600	1790	16.8
24036-BS-K30-MB	180	280	100	1000000	1830000	106000	1800	1420	22.3
24036-BS-MB	180	280	100	1000000	1830000	106000	1800	1420	22.6
23136-E1A-K-M	180	300	96	1430000	1960000	196000	2200	1370	25.5
23136-E1-K	180	300	96	1430000	1960000	196000	2200	1370	25.9
23136-E1A-M	180	300	96	1430000	1960000	196000	2200	1370	26.1
23136-E1	180	300	96	1430000	1960000	196000	2200	1370	27.3
24136-BS-K30	180	300	118	1250000	2200000	136000	1700	980	31.8
24136-BS	180	300	118	1250000	2200000	136000	1700	980	32.2
22236-E1-K	180	320	86	1370000	1660000	148000	2400	1720	28.5
22236-E1	180	320	86	1370000	1660000	148000	2400	1720	29.2
23236-E1-K	180	320	112	1700000	2360000	173000	2000	1110	36
23236-E1A-K-M	180	320	112	1700000	2360000	173000	2000	1110	37
23236-E1	180	320	112	1700000	2360000	173000	2000	1110	37.2
23236-E1A-M	180	320	112	1700000	2360000	173000	2000	1110	38.5
22336-A-MA-T41A	180	380	126	1700000	2240000	229000	1500	1280	71.7

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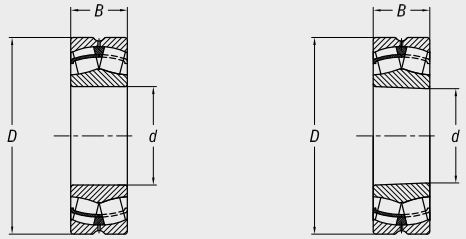

Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
22336-K-MB	180	380	126	1760000	2360000	209000	1500	1280	66.7
22336-MB	180	380	126	1760000	2360000	209000	1500	1280	69
23938-S-MB	190	260	52	465000	9000000	65000	2000	2180	8.43
23038-E1-K	190	290	75	1080000	1560000	180000	2400	1690	16.3
23038-E1	190	290	75	1080000	1560000	180000	2400	1690	17.2
23038-E1A-K-M	190	290	75	1080000	1560000	180000	2400	1690	17.7
23038-E1A-M	190	290	75	1080000	1560000	180000	2400	1690	18.3
24038-BS-K30-MB	190	290	100	1040000	1960000	110000	1700	1320	24.2
24038-BS-MB	190	290	100	1040000	1960000	110000	1700	1320	24.5
23138-E1-K	190	320	104	1600000	2240000	218000	2000	1270	30.3
23138-E1	190	320	104	1600000	2240000	218000	2000	1270	32
23138-E1A-K-M	190	320	104	1600000	2240000	218000	2000	1270	32.4
23138-E1A-M	190	320	104	1600000	2240000	218000	2000	1270	33.9
24138-B-K30	190	320	128	1400000	2500000	145000	1500	910	41.5
24138-B	190	320	128	1400000	2500000	145000	1500	910	42.2
22238-K-MB	190	340	92	1200000	1830000	122000	1800	1620	36.2
22238-MB	190	340	92	1200000	1830000	122000	1800	1620	371
23238-B-K-MB	190	340	120	1560000	2600000	156000	1700	1040	461
23238-B-MB	190	340	120	1560000	2600000	156000	1700	1040	48.4
22338-K-MB	190	400	132	1860000	2500000	213000	1500	1220	77.3
22338-A-MA-T41A	190	400	132	1860000	2500000	173000	1500	1220	80.5
22338-MB	190	400	132	1860000	2500000	213000	1500	1220	80.5
23338-A-MA-T41A	190	400	155	2200000	3200000	223000	1400	–	97.1
23940-S-K-MB	200	280	60	550000	1080000	71000	2000	2110	11.5
23940-S-MB	200	280	60	550000	1080000	71000	2000	2110	11.8
23040-E1-K	200	310	82	1270000	1800000	203000	2400	1580	20.8
23040-E1A-K-M	200	310	82	1270000	1800000	203000	2400	1580	21.4
23040-E1	200	310	82	1270000	1800000	203000	2400	1580	21.5
23040-E1A-M	200	310	82	1270000	1800000	203000	2400	1580	22.8
24040-BS-K30-MB	200	310	109	1200000	2280000	122000	1500	1220	30
24040-BS-MB	200	310	109	1200000	2280000	122000	1500	1220	30.4

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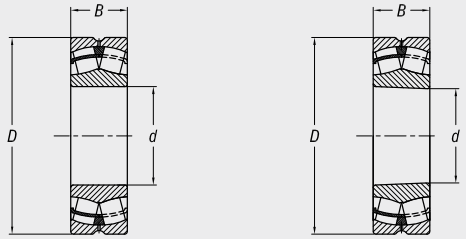

Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23140-B-K-MB	200	340	112	1320000	2280000	131000	1700	1240	41.7
23140-B-MB	200	340	112	1320000	2280000	131000	1700	1240	432
24140-B-K30	200	340	140	1700000	3000000	190000	1400	810	51.6
24140-B	200	340	140	1700000	3000000	190000	1400	810	52.4
22240-B-K-MB	200	360	98	1320000	2000000	123000	1700	1530	42.3
22240-B-MB	200	360	98	1320000	2000000	123000	1700	1530	44.2
23240-B-K-MB	200	360	128	1660000	2750000	163000	1500	1000	55.8
23240-B-MB	200	360	128	1660000	2750000	163000	1500	1000	60.5
22340-K-MB	200	420	138	2080000	2800000	189000	1400	1130	89.5
22340-MB	200	420	138	2080000	2800000	189000	1400	1130	91
22340-A-MA-T41A	200	420	138	2080000	2800000	189000	1400	1130	92.4
23340-A-MA-T41A	200	420	165	2450000	3600000	238000	1300	–	108
23944-S-MB	220	300	60	600000	1250000	72000	1800	1880	12.3
23944-S-K-MB	220	300	60	600000	1250000	72000	1800	1880	12.3
23044-K-MB	220	340	90	1060000	1900000	132000	1700	1470	29.9
23044-MB	220	340	90	1060000	1900000	132000	1700	1470	31.7
24044-B-K30-MB	220	340	118	1400000	2700000	139000	1300	1080	38.9
24044-B-MB	220	340	118	1400000	2700000	139000	1300	1080	39.5
23144-B-K-MB	220	370	120	1630000	2900000	165000	1400	1070	52
23144-B-MB	220	370	120	1630000	2900000	165000	1400	107	54.5
24144-B-K30	220	370	150	1900000	3450000	197000	1300	730	64.4
24144-B	220	370	150	1900000	3450000	197000	1300	730	65.6
22244-B-K-MB	220	400	108	1630000	2450000	153000	1400	1340	59.6
22244-B-MB	220	400	108	1630000	2450000	153000	1400	1340	61.5
23244-K-MB	220	400	144	2040000	3450000	181000	140	860	79
23244-MB	220	400	144	2040000	3450000	181000	140	860	81.1
22344-K-MB	220	460	145	2320000	3350000	217000	1300	980	114
22344-A-MA-T41A	220	460	145	2320000	3350000	217000	1300	980	119
22344-MB	220	460	145	2320000	3350000	217000	1300	980	119
23948-K-MB	240	320	60	640000	1370000	93000	1500	1700	13.4
23948-MB	240	320	60	640000	1370000	93000	1500	1700	13.9

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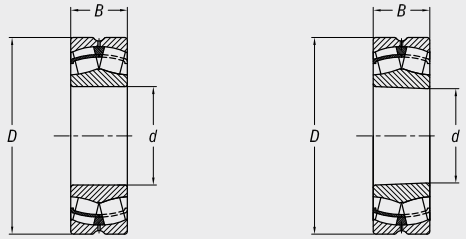

Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23048-K-MB	240	360	92	1160000	2200000	130000	1400	1320	31.9
23048-MB	240	360	92	1160000	2200000	130000	140	1320	34.8
24048-B-K30-MB	240	360	118	1500000	2900000	150000	1300	980	43.2
24048-B-MB	240	360	118	1500000	2900000	150000	1300	980	43.6
23148-B-K-MB	240	400	128	1860000	3250000	177000	1300	970	65.3
23148-B-MB	240	400	128	1860000	3250000	177000	1300	970	67.3
24148-B-K30	240	400	160	2120000	3900000	231000	1200	660	78.7
24148-B	240	400	160	2120000	3900000	231000	1200	660	80.7
22248-B-K-MB	240	440	120	1960000	3050000	184000	1300	1190	81.2
22248-B-MB	240	440	120	1960000	3050000	184000	1300	1190	83.4
23248-B-K-MB	240	440	160	2450000	4250000	231000	1300	750	105
23248-B-MB	240	440	160	2450000	4250000	231000	1300	750	111
22348-K-MB	240	500	155	2650000	3900000	249000	1500	870	145
22348-MB	240	500	155	2650000	3900000	249000	1500	870	151
23952-K-MB	260	360	75	930000	1930000	108000	1400	1610	22.4
23952-MB	260	360	75	930000	1930000	108000	1400	1610	24.1
23052-K-MB	260	400	104	1500000	2800000	154000	1300	1170	46.2
23052-MB	260	400	104	1500000	2800000	154000	1300	1170	49.3
24052-B-K30-MB	260	400	140	1900000	3800000	204000	1100	870	64.5
24052-B-MB	260	400	140	1900000	3800000	204000	1100	870	67.2
23152-K-MB	260	440	144	2200000	4000000	213000	1200	860	89.6
23152-MB	260	440	144	2200000	4000000	213000	1200	860	92.5
24152-B-K30	260	440	180	2700000	5100000	315000	1100	550	112
24152-B	260	440	180	2700000	5100000	315000	1100	550	114
22252-B-K-MB	260	480	130	2240000	3450000	217000	1100	1080	106
22252-B-MB	260	480	130	2240000	3450000	217000	1100	1080	110
23252-B-K-MB	260	480	174	2900000	4900000	270000	1100	680	136
23252-B-MB	260	480	174	2900000	4900000	270000	1100	680	144
22352-K-MB	260	540	165	3000000	4400000	290000	1100	790	177
22352-MB	260	540	165	3000000	4400000	290000	1100	790	181
23956-K-MB	280	380	75	965000	2040000	129000	1300	1470	24.7

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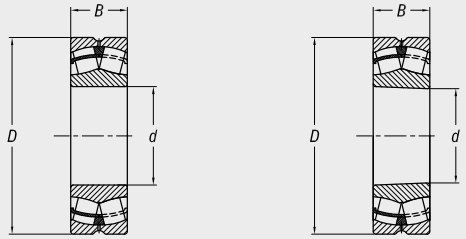
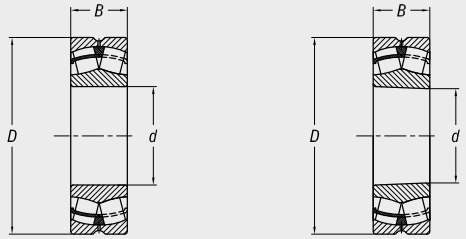


Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23956-MB	280	380	75	965000	2040000	129000	130	1470	25.5
23056-B-K-MB	280	420	106	1560000	3000000	156000	1300	1080	50.3
23056-B-MB	280	420	106	1560000	3000000	156000	1300	1080	52.9
24056-B-K30-MB	280	420	140	2000000	4000000	225000	1100	810	69.7
24056-B-MB	280	420	140	2000000	4000000	225000	1100	810	70.8
23156-B-K-MB	280	460	146	2360000	4400000	241000	1100	790	96.4
23156-B-MB	280	460	146	2360000	4400000	241000	1100	790	99.5
24156-B-K30	280	460	180	2700000	5200000	365000	1000	520	118
24156-B	280	460	180	2700000	5200000	365000	1000	520	119
22256-B-K-MB	280	500	130	2360000	3650000	238000	1100	1010	110
22256-B-MB	280	500	130	2360000	3650000	238000	1100	1010	113
23256-K-MB	280	500	176	3000000	5300000	260000	1100	630	153
23256-MB	280	500	176	3000000	5300000	260000	1100	630	157
22356-K-MB	280	580	175	3550000	5400000	335000	950	680	224
22356-MB	280	580	175	3550000	5400000	335000	950	680	233
23960-B-K-MB	300	420	90	1270000	2650000	166000	1200	1400	39.1
23960-B-MB	300	420	90	1270000	2650000	166000	1200	1400	40.6
23060-K-MB	300	460	118	1960000	3650000	223000	1100	980	72.2
23060-MB	300	460	118	1960000	3650000	223000	1100	980	73.8
24060-B-K30-MB	300	460	160	2500000	5200000	300000	1000	710	97.7
24060-B-MB	300	460	160	2500000	5200000	300000	1000	710	102
23160-B-K-MB	300	500	160	2650000	4900000	270000	1100	730	123
23160-B-MB	300	500	160	2650000	4900000	270000	1100	730	134
24160-B-K30	300	500	200	3250000	6300000	540000	900	460	158
24160-B	300	500	200	3250000	6300000	540000	900	460	159
22260-K-MB	300	540	140	2750000	4400000	300000	1000	900	136
22260-MB	300	540	140	2750000	4400000	300000	1000	900	142
23260-K-MB	300	540	192	3450000	6200000	300000	1000	560	192
23260-MB	300	540	192	3450000	6200000	300000	1000	560	198
23964-K-MB	320	440	90	1320000	2750000	202000	1100	1300	41
23964-MB	320	440	90	1320000	2750000	202000	1100	1300	41.8

Pendelrollenlager zylindrisch | konisch



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23064-K-MB	320	480	121	2040000	4000000	243000	1100	910	77.1
23064-MB	320	480	121	2040000	4000000	243000	1100	910	79.9
24064-B-K30-MB	320	480	160	2600000	5400000	360000	950	660	103
24064-B-MB	320	480	160	2600000	5400000	360000	950	660	107
23164-K-MB	320	540	176	3200000	6000000	305000	950	650	159
23164-MB	320	540	176	3200000	6000000	305000	950	650	170
24164-B-K30	320	540	218	3800000	7350000	530000	850	415	197
24164-B	320	540	218	3800000	7350000	530000	850	415	204
22264-K-MB	320	580	150	3050000	4900000	345000	950	840	166
22264-MB	320	580	150	3050000	4900000	345000	950	840	177
23264-K-MB	320	580	208	3900000	6950000	330000	950	520	229
23264-MB	320	580	208	3900000	6950000	330000	950	520	242
23968-MB	340	460	90	1370000	3000000	199000	1100	1210	47.8
23068-K-MB	340	520	133	2360000	4550000	285000	1000	850	101
23068-MB	340	520	133	2360000	4550000	285000	1000	850	105
24068-B-K30-MB	340	520	180	3100000	6550000	530000	850	600	143
24068-B-MB	340	520	180	3100000	6550000	530000	850	600	146
23168-B-K-MB	340	580	190	3650000	6950000	570000	900	590	203
23168-B-MB	340	580	190	3650000	6950000	570000	900	590	215
24168-B-K30	340	580	243	4400000	8500000	680000	800	380	260
24168-B	340	580	243	4400000	8500000	680000	800	380	266
23268-B-K-MB	340	620	224	4500000	8150000	650000	850	470	291
23268-B-MB	340	620	224	4500000	8150000	650000	850	470	309
23972-K-MB	360	480	90	1430000	3200000	209000	100	1130	45
23972-MB	360	480	90	1430000	3200000	209000	100	1130	46.5
23072-K-MB	360	540	134	2450000	4800000	295000	950	800	107
23072-MB	360	540	134	2450000	4800000	295000	950	800	112
24072-B-MB	360	540	180	3250000	6800000	530000	800	570	138
23172-K-MB	360	600	192	3800000	7350000	360000	850	560	217
23172-MB	360	600	192	3800000	7350000	360000	850	560	230
24172-B-K30	360	600	243	4500000	9000000	550000	750	355	275

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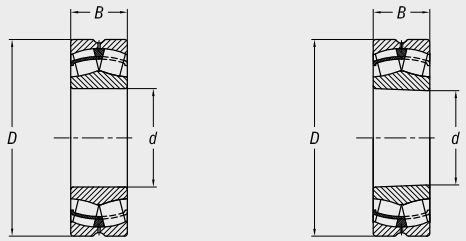

Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
24172-B	360	600	243	4500000	9000000	550000	750	355	279
23272-B-K-MB	360	650	232	4900000	9150000	720000	800	425	328
23272-B-MB	360	650	232	4900000	9150000	720000	800	425	347
23976-K-MB	380	520	106	1760000	4000000	265000	950	1090	66.3
23976-MB	380	520	106	1760000	4000000	265000	950	1090	68.5
23076-B-K-MB	380	560	135	2550000	5300000	430000	900	740	113
23076-B-MB	380	560	135	2550000	5300000	430000	900	740	117
24076-B-K30-MB	380	560	180	3350000	7200000	580000	750	530	155
24076-B-MB	380	560	180	3350000	7200000	580000	750	530	158
23176-K-MB	380	620	194	4050000	8150000	385000	800	510	226
23176-MB	380	620	194	4050000	8150000	385000	800	510	241
24176-B-K30	380	620	243	4650000	9500000	770000	700	330	277
24176-B	380	620	243	4650000	9500000	770000	700	330	279
23276-B-K-MB	380	680	240	5300000	9800000	780000	750	400	367
23276-B-MB	380	680	240	5300000	9800000	780000	750	400	390
23980-B-K-MB	400	540	106	1830000	4150000	275000	900	1030	68.2
23980-B-MB	400	540	106	1830000	4150000	275000	900	1030	72.9
23080-K-MB	400	600	148	3050000	6200000	365000	800	680	143
23080-MB	400	600	148	3050000	6200000	365000	800	680	151
24080-B-K30-MB	400	600	200	3900000	8500000	670000	700	485	196
24080-B-MB	400	600	200	3900000	8500000	670000	700	485	198
23180-B-K-MB	400	650	200	4250000	8500000	670000	750	490	261
23180-B-MB	400	650	200	4250000	8500000	670000	750	490	270
24180-B-K30	400	650	250	5100000	10400000	790000	670	305	312
24180-B	400	650	250	5100000	10400000	790000	670	305	326
23280-B-K-MB	400	720	256	5700000	10800000	820000	700	375	442
23280-B-MB	400	720	256	5700000	10800000	820000	700	375	469
23984-K-MB	420	560	106	1900000	4500000	300000	850	970	78
23984-MB	420	560	106	1900000	4500000	300000	850	970	80.5
23084-B-K-MB	420	620	150	3150000	6550000	395000	800	650	155
23084-B-MB	420	620	150	3150000	6550000	395000	800	650	162

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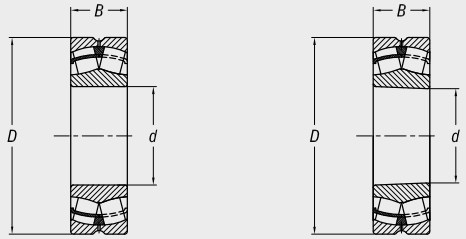
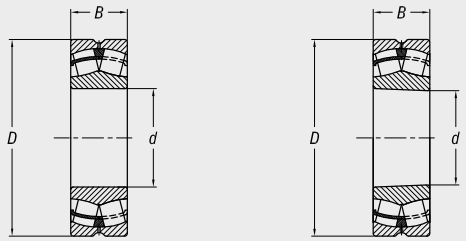


Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
24084-B-K30-MB	420	620	200	4000000	8800000	710000	670	460	214
24084-B-MB	420	620	200	4000000	8800000	710000	670	460	217
23184-K-MB	420	700	224	5000000	9650000	465000	700	460	339
23184-MB	420	700	224	5000000	9650000	465000	700	460	360
24184-B-K30	420	700	280	6200000	12700000	980000	630	270	407
24184-B	420	700	280	6200000	12700000	980000	630	270	442
23284-B-K-MB	420	760	272	6550000	12200000	930000	670	345	537
23284-B-MB	420	760	272	6550000	12200000	930000	670	345	558
23988-K-MB	440	600	118	2240000	5200000	295000	800	930	98.3
23988-MB	440	600	118	2240000	5200000	295000	800	930	101
23088-K-MB	440	650	157	3400000	7100000	405000	750	610	177
23088-MB	440	650	157	3400000	7100000	405000	750	610	190
24088-B-K30-MB	440	650	212	4300000	9650000	750000	630	435	247
24088-B-MB	440	650	212	4300000	9650000	750000	630	435	250
23188-K-MB	440	720	226	5200000	10400000	485000	700	430	378
23188-MB	440	720	226	5200000	10400000	485000	700	430	381
24188-B-K30	440	720	280	6400000	13200000	1020000	600	255	451
24188-B	440	720	280	6400000	13200000	1020000	600	255	453
23288-B-K-MB	440	790	280	7100000	13400000	990000	630	320	586
23288-B-MB	440	790	280	7100000	13400000	990000	630	320	615
23992-B-K-MB	460	620	118	2280000	5400000	370000	750	880	103
23992-B-MB	460	620	118	2280000	5400000	370000	750	880	111
23092-K-MB	460	680	163	3650000	7650000	440000	700	580	204
23092-MB	460	680	163	3650000	7650000	440000	700	580	208
24092-B-MB	460	680	218	4750000	10600000	710000	630	405	282
23192-K-MB	460	760	240	5850000	11600000	530000	630	400	420
23192-MB	460	760	240	5850000	11600000	530000	630	400	447
24192-B-K30-MB	460	760	300	7500000	15600000	1160000	560	228	578
24192-B-MB	460	760	300	7500000	15600000	1160000	560	228	582
23292-K-MB	460	830	296	7800000	15000000	620000	600	295	699
23292-MB	460	830	296	7800000	15000000	620000	600	295	700

Pendelrollenlager zylindrisch | konisch



Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
23996-B-K-MB	480	650	128	2550000	6000000	460000	700	860	121
23996-B-MB	480	650	128	2550000	6000000	460000	700	860	126
23096-K-MB	480	700	165	3800000	8150000	455000	670	550	208
23096-MB	480	700	165	3800000	8150000	455000	670	550	222
24096-B-K30-MB	480	700	218	4900000	11200000	830000	600	380	289
24096-B-MB	480	700	218	4900000	11200000	830000	600	380	291
23196-K-MB	480	790	248	6300000	12700000	570000	480	375	470
23196-MB	480	790	248	6300000	12700000	570000	630	375	508
24196-B-K30-MB	480	790	308	8000000	16600000	1190000	560	215	700
23296-K-MB	480	870	310	8800000	17000000	700000	480	270	806
23296-MB	480	870	310	8800000	17000000	700000	600	270	830
239/500-K-MB	500	670	128	2600000	6300000	400000	670	810	124
239/500-MB	500	670	128	2600000	6300000	400000	670	810	132
230/500-B-K-MB	500	720	167	3900000	8500000	510000	670	520	219
230/500-B-MB	500	720	167	3900000	8500000	510000	670	520	233
240/500-B-MB	500	720	218	4900000	11200000	850000	560	370	297
231/500-B-K-MB	500	830	264	7100000	14300000	990000	600	345	556
231/500-B-MB	500	830	264	7100000	14300000	990000	600	345	588
241/500-B-K30-MB	500	830	325	8650000	18300000	1340000	530	200	717
241/500-B-MB	500	830	325	8650000	18300000	1340000	530	200	725
239/530-K-MB	530	710	136	2850000	6800000	385000	630	770	146
239/530-MB	530	710	136	2850000	6800000	385000	530	770	160
230/530-K-MB	530	780	185	4400000	9500000	540000	600	490	291
230/530-MB	530	780	185	4400000	9500000	540000	530	490	321
240/530-B-MB	530	780	250	6000000	13700000	910000	530	335	415
231/530-K-MB	530	870	272	7350000	15300000	670000	560	325	643
241/530-B-K30-MB	530	870	335	9500000	20000000	1450000	500	184	845
239/560-B-K-MB	560	750	140	3100000	7650000	570000	600	720	169
239/560-B-MB	560	750	140	3100000	7650000	570000	600	720	181
230/560-B-K-MB	560	820	195	5100000	11000000	740000	560	450	339
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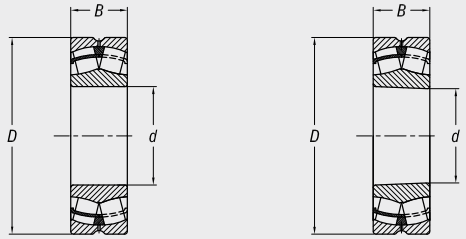
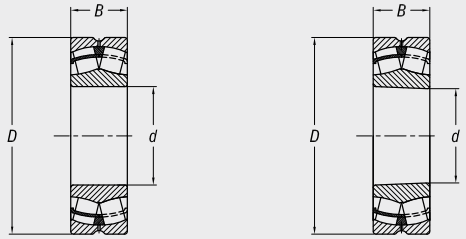
Pendelrollenlager zylindrisch | konisch



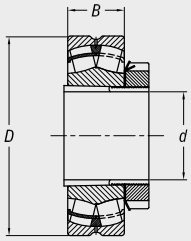
Type	Abmessungen			Tragzahlen		Ermüdungs-grenzbelastung	Grenz-drehzahl	Bezugs-drehzahl	Masse
	(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*(kg)*
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
240/560-B-MB	560	820	258	6400000	14600000	1050000	500	315	468
231/560-K-MB	560	920	280	8150000	16600000	750000	530	300	737
231/560-MB	560	920	280	8150000	16600000	750000	560	300	760
241/560-B-K30-MB	560	920	355	1060000	22400000	1600000	480	169	974
239/600-B-K-MB	600	800	150	3450000	8650000	630000	560	670	210
239/600-B-MB	600	800	150	3450000	8650000	630000	560	670	224
230/600-B-K-MB	600	870	200	5700000	12500000	890000	405	405	388
230/600-B-MB	600	870	200	5700000	12500000	890000	530	405	409
240/600-B-MB	600	870	272	7100000	16600000	1200000	630	290	540
231/600-K-MB	600	980	300	9000000	19300000	810000	500	270	901
231/600-MB	600	980	300	9000000	19300000	810000	600	270	929
241/600-B-K30-MB	600	980	375	1160000	26000000	1780000	450	149	1170
241/600-B-MB	600	980	375	1160000	26000000	1780000	450	149	180
239/630-B-K-MB	630	850	165	4050000	9800000	710000	530	650	283
239/630-B-MB	630	850	165	4050000	9800000	710000	530	650	292
230/630-B-MB	630	920	212	6300000	13700000	890000	500	385	496
230/630-B-K-MB	630	920	212	6300000	13700000	890000	500	385	502
240/630-B-K30-MB	630	920	290	8000000	19000000	1350000	480	265	649
240/630-B-MB	630	920	290	8000000	19000000	1350000	480	265	660
241/630-B-K30-MB	630	1030	400	12900000	29000000	1960000	450	138	1360
239/670-B-K-MB	670	900	170	4300000	10600000	750000	500	600	310
239/670-B-MB	670	900	170	4300000	10600000	750000	500	600	320
230/670-B-K-MB	670	980	230	7200000	16000000	1100000	480	350	590
230/670-B-MB	670	980	230	7200000	16000000	1100000	480	350	600
241/670-B-K30-MB	670	1090	412	14000000	31500000	2120000	430	127	1540
239/710-K-MB	710	950	180	4800000	12000000	720000	480	570	336
239/710-MB	710	950	180	4800000	12000000	720000	480	570	355
230/710-B-K-MB	710	1030	236	7650000	17000000	1140000	480	330	650
230/710-B-MB	710	1030	236	7650000	17000000	1140000	480	330	674
240/710-B-K30-MB	710	1030	315	9500000	22800000	1550000	430	226	873
241/710-B-K30-MB	710	1150	438	15600000	35500000	2340000	400	116	1820

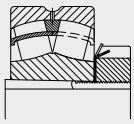
Pendelrollenlager zylindrisch | konisch



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
241/710-B-MB	710	1150	438	15600000	35500000	2340000	400	116	1830
239/750-K-MB	750	1000	185	5200000	12900000	790000	480	540	394
239/750-MB	750	1000	185	5200000	12900000	790000	480	540	426
230/750-K-MB	750	1090	250	8500000	19000000	1010000	450	305	792
230/750-MB	750	1090	250	8500000	19000000	1010000	450	305	806
240/750-B-K30-MB	750	1090	335	10800000	26000000	1730000	400	206	1070
239/800-B-K-MB	800	1060	195	5850000	15000000	1010000	450	500	490
239/800-B-MB	800	1060	195	5850000	15000000	1010000	450	500	506
230/800-K-MB	800	1150	258	9300000	21200000	1430000	430	280	861
230/800-MB	800	1150	258	9300000	21200000	1430000	430	280	899
240/800-B-MB	800	1150	345	11600000	28500000	1810000	360	189	1200
239/850-K-MB	850	1120	200	6300000	16300000	960000	430	465	554
239/850-MB	520	1120	200	6300000	16300000	960000	430	465	579
240/850-B-K30-MB	850	1220	365	12900000	32000000	2060000	480	173	1420
239/900-K-MB	900	1180	206	6550000	17300000	1010000	400	440	641
239/900-MB	900	1180	206	6550000	17300000	1010000	400	440	653

Pendelrollenlager mir Spannhülse

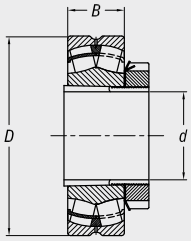


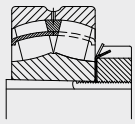


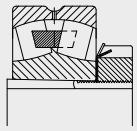
fester Mittelbord

Type		**Abmessungen**			**Tragzahlen**		**Ermüdungs-grenzbelast.**	**Grenz-drehz.**	**Bezugs-drehzahl**	**Masse** *(kg)*	
		(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*Lager*	*Hülse*
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
22205-E1-K	H305	20	52	18	48000	42500	4800	17000	9500	0.175	0.075
22206-E1-K	H306	25	62	20	64000	57000	6900	13000	8100	0.269	0.099
22207-E1-K	H307	30	72	23	88000	81500	9400	11000	7300	0.425	0.147
21307-E1-K	H308	30	80	21	83000	73500	8100	9500	7000	0.496	0.147
22208-E1-K	H308	35	80	23	102000	90000	11800	10000	6400	0.517	0.185
21308-E1-K	H309	35	90	23	108000	106000	14300	9500	6100	0.702	0.185
22308-E1-K	H2310	35	90	23	156000	150000	13100	7500	5800	1.03	0.222
22209-E1-K	H309	40	85	23	104000	98000	12700	10000	5800	0.577	0.246
21309-E1-K	H310	40	100	25	129000	129000	17300	8500	5500	0.845	0.246
22309-E1-K	H2311	40	100	36	186000	183000	16100	6700	5300	1.36	0.283
22210-E1-K	H310	45	90	23	108000	106000	14300	9500	5300	0.608	0.301
21310-E1-K	H310	45	110	27	129000	129000	17300	8500	5300	1.28	0.301
22310-E1-K	H2310	45	110	40	228000	224000	20300	6000	4950	1.86	0.353
22211-E1-K	H311	50	100	25	129000	129000	17300	8500	4850	0.825	0.35
21311-E1-K	H311	50	120	49	170000	166000	21200	6300	4950	1.19	0.35
22311-E1-K	H311	50	120	43	265000	260000	23900	5600	4650	2.22	0.426
22311-E1-K-T41A	H2311	50	120	43	265000	260000	23900	5600	4650	2.22	0.426
22212-E1-K	H312	55	100	28	170000	166000	21200	7500	4650	1.09	0.373
21312-E1-K	H312	55	130	31	212000	228000	28000	6300	4500	1.78	0.373
22312-E1-K	H312	55	130	46	310000	310000	28000	5000	4300	2.83	0.464
22312-E1-K-T41A	H2312	55	130	46	310000	310000	28000	5000	4300	2.83	0.464
22213-E1-K	H313	60	120	31	200000	208000	25500	6700	4400	1.52	0.452
21313-E1-K	H313	60	140	33	250000	270000	34000	5000	4200	2.42	0.452
22313-E1-K	H2313	60	140	48	355000	365000	32500	4800	3950	3.49	0.553
22313-E1-K-T41A	H2313	60	140	48	355000	365000	32500	4800	3950	3.49	0.553
22214-E1-K	H314	60	125	31	212000	228000	28000	6300	4100	1.61	0.715
21314-E1-K	H314	60	150	35	250000	270000	34000	5000	4100	3	0.715
22314-E1-K	H2314	60	150	51	390000	390000	36500	4500	3850	4.12	0.895
22314-E1-K-T41A	H2314	60	150	51	390000	390000	36500	4500	3850	4.12	0.895
22215-E1-K	H315	65	130	31	216000	236000	29500	6300	3900	1.68	0.826
21315-E1-K	H315	65	160	37	305000	325000	38500	4800	3850	2.86	0.826

Pendelrollenlager mir Spannhülse



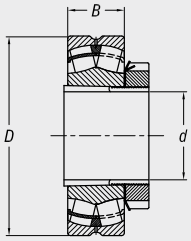


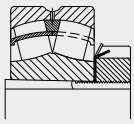


fester Mittelbord

Type		**Abmessungen**			**Tragzahlen**		**Ermüdungs-grenzbelast.**	**Grenz-drehz.**	**Bezugs-drehzahl**	**Masse** *(kg)*	
		(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*Lager*	*Hülse*
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
22315-E1-K	H2315	65	160	55	440000	450000	40500	4300	3650	5.06	1.05
22315-E1-K-T41A	H2315	65	160	55	440000	450000	40500	4300	3650	5.06	1.05
22216-E1-K	H316	70	140	33	250000	270000	34000	5600	3700	2.08	1.01
21316-E1-K	H316	70	170	39	305000	325000	38500	4800	3750	2.65	1.01
22316-E1-K	H2316	70	170	58	500000	510000	45000	4300	3450	6.05	1.27
22316-E1-K-T41A	H2316	70	170	58	500000	510000	45000	4300	3450	6.05	1.27
22217-E1-K	H317	75	150	36	305000	325000	38500	5300	3550	2.59	1.16
21317-E1-K	H317	75	180	41	345000	375000	42500	4800	3550	5.37	1.16
22317-E1-K	H2317	75	180	60	540000	560000	50000	4000	3300	7.06	1.44
22317-E1-K-T41A	H2317	75	180	60	540000	560000	50000	4000	3300	7.06	1.44
22218-E1-K	H318	80	160	40	345000	375000	42500	4800	3500	3.35	1.36
23218-E1A-K-M	H2318	80	160	52.4	440000	520000	48500	4300	2700	4.34	1.68
23218-E1-K	H2318	80	160	52.4	440000	520000	48500	4300	2700	4.08	1.68
21318-E1-K	H318	80	190	43	380000	415000	47000	4500	3450	6.26	1.36
22318-E1-K	H2318	80	190	64	610000	630000	55000	3600	3100	8.33	1.68
22318-E1-K-T41A	H2318	80	190	64	610000	630000	55000	3600	3100	8.33	1.68
22219-E1-K	H319	85	170	43	380000	415000	47000	4500	3400	4.04	1.51
21319-E1-K	H319	85	200	45	430000	455000	47500	4000	3300	6.53	1.51
22319-E1-K	H2319	85	200	67	670000	695000	60000	3000	2900	9.46	1.89
22319-E1-K-T41A	H2319	85	200	67	670000	695000	60000	3000	2900	9.46	1.89
23120-E1A-K-M	H3120	90	165	52	450000	570000	52000	4300	2800	4.23	1.78
23120-E1-K	H3120	90	165	52	450000	570000	52000	4300	2800	4.06	1.78
22220-E1-K	H320	90	180	46	430000	475000	52000	4300	3300	4.91	1.69
23220-E1A-K-M	H2320	90	180	60.3	550000	655000	60000	3600	2470	6.33	2.17
23220-E1-K	H2320	90	180	60.3	550000	655000	60000	3600	2470	6.13	2.17
21320-E1-K	H320	90	215	47	490000	530000	61000	3600	3100	8.08	1.69
22320-E1-K	H2320	90	215	73	815000	915000	75000	3000	2550	13.1	2.17
22320-E1-K-T41A	H2320	90	215	73	815000	915000	75000	3000	2550	13.1	2.17
23122-E1A-K-M	H3122	100	180	56	530000	680000	61000	4000	2600	5.1	2.23
23122-E1-K	H3122	100	180	56	530000	680000	61000	4000	2600	4.95	2.23
22222-E1-K	H322	100	200	53	550000	600000	62000	4000	3100	6.82	2.15

Pendelrollenlager mir Spannhülse

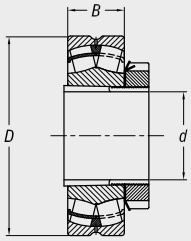


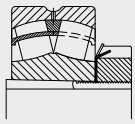


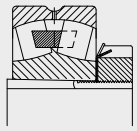
fester Mittelbord

Type		**Abmessungen**			**Tragzahlen**		**Ermüdungs-grenzbelast.**	**Grenz-drehz.**	**Bezugs-drehzahl**	**Masse** *(kg)*	
		(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*Lager*	*Hülse*
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23222-E1A-K-M	H2322	100	200	69.8	710000	865000	72000	3000	2150	9.32	2.74
23222-E1-K	H2322	100	200	69.8	710000	865000	72000	3000	2150	8.82	2.74
21322-E1-K	H322	100	240	50	600000	640000	69000	3000	2750	10.9	2.15
22322-E1-K	H2322	100	240	80	950000	1060000	91000	2600	2250	17.4	2.74
22322-E1-K-T41A	H2322	100	240	80	950000	1060000	91000	2600	2250	17.4	2.74
23024-E1A-K-M	H3024	110	180	46	430000	585000	58000	4300	2850	4.09	1.95
23024-E1-K	H3024	110	180	46	430000	585000	58000	4300	2850	3.67	1.95
23124-E1A-K-M	H3124	110	200	62	630000	800000	73000	3400	2330	7.57	2.61
23124-E1-K	H3124	110	200	62	630000	800000	73000	3400	2330	7.06	2.61
22224-E1-K	H3124	110	215	58	640000	735000	71000	3400	2800	8.84	2.61
23224-E1A-K-M	H2324	110	215	76	815000	1020000	80000	2800	1940	11.4	3.18
23224-E1-K	H2324	110	215	76	815000	1020000	80000	2800	1940	11.1	3.18
22324-E1-K	H2324	110	260	86	1080000	1160000	103000	2600	2080	22.1	3.18
22324-E1-K-T41A	H2324	110	260	86	1080000	1160000	103000	2600	2080	22.1	3.18
23026-E1A-K-M	H3026	115	200	52	540000	735000	70000	3600	2650	5.7	2.9
23026-E1-K	H3026	115	200	52	540000	735000	70000	3600	2650	5.42	2.9
23126-E1A-K-M	H3126	115	210	64	680000	900000	79000	3000	2130	8.1	3.63
23126-E1-K	H3126	115	210	64	680000	900000	79000	3000	2130	7.82	3.63
22226-E1-K	H3126	115	230	64	750000	900000	79000	3000	2550	10.9	3.63
23226-E1A-K-M	H2326	115	230	80	900000	1140000	89000	2600	1780	13.6	4.61
23226-E1-K	H2326	115	230	80	900000	1140000	89000	2600	1780	12.6	4.61
22326-E1-K	H2326	115	280	93	125000	1370000	117000	2400	1870	27.4	4.61
22326-E1-K-T41A	H2326	115	280	93	125000	1370000	117000	2400	1870	27.4	4.61
23028-E1A-K-M	H3028	125	210	53	570000	800000	76000	3600	2440	6	3.25
23028-E1-K	H3028	125	210	53	570000	800000	76000	3600	2440	5.81	3.25
23128-E1A-K-M	H3128	125	225	68	765000	1020000	88000	2800	1960	7.78	4.33
23128-E1-K	H3128	125	225	68	765000	1020000	88000	2800	1960	9.46	4.33
22228-E1-K	H3128	125	250	68	880000	1040000	97000	2400	2320	13.7	4.33
23228-E1A-K-M	H2328	125	250	88	1080000	1400000	112000	2400	1580	17.6	5.6
23228-E1-K	H2328	125	250	88	1080000	1400000	112000	2400	1580	17.1	5.6
22328-E1-K	H2328	125	300	102	1460000	1630000	132000	2200	1700	34.4	5.6

Pendelrollenlager mir Spannhülse







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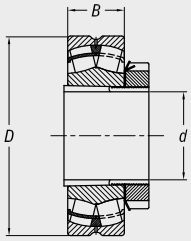
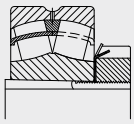
Type		**Abmessungen**			**Tragzahlen**		**Ermüdungs-grenzbelast.**	**Grenz-drehz.**	**Bezugs-drehzahl**	**Masse** *(kg)*	
		(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*Lager*	*Hülse*
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
22328-E1-K-T41A	H2328	125	300	102	1460000	1630000	132000	2200	1700	34.4	5.6
23030-E1A-K-M	H3030	135	225	56	630000	880000	85000	3400	2260	7.33	3.98
23030-E1-K	H3030	135	225	56	630000	880000	85000	3400	2260	7.29	3.98
23130-E1A-K-M	H3130	135	250	80	1000000	1320000	143000	2600	1760	15.8	5.49
23130-E1-K	H3130	135	250	80	1000000	1320000	143000	2600	1760	14.5	5.49
22230-E1-K	H3130	135	270	73	1000000	1220000	111000	2600	2110	17.8	5.49
23230-E1A-K-M	H2330	135	270	96	1270000	1660000	129000	2200	1420	22.9	6.71
23230-E1-K	H2330	135	270	96	1270000	1660000	129000	2200	1420	22.3	6.71
22330-E1-K	H2330	135	320	108	1630000	1860000	147000	2000	1550	41.2	6.71
22330-E1-K-T41A	H2330	135	320	108	1630000	1860000	147000	2000	1550	41.2	6.71
23032-E1A-K-M	H3032	140	240	60	720000	1020000	94000	2800	2090	9.42	5.33
23032-E1-K	H3032	140	240	60	720000	1020000	94000	2800	2090	8.67	5.33
23132-E1A-K-M	H3132	140	270	86	1160000	1560000	164000	2400	1590	18.6	7.57
23132-E1-K	H3132	140	270	86	1160000	1560000	164000	2400	1590	18.4	7.57
22232-E1-K	H3132	140	290	80	1140000	1400000	125000	2600	1960	22.4	7.57
23232-E1A-K-M	H2332	140	290	104	1460000	1900000	146000	2200	1310	28.5	9.1
23232-E1-K	H2332	140	290	104	1460000	1900000	146000	2200	1310	27.7	9.1
22332-K-MB	H2332	140	340	114	1430000	1900000	121000	2000	1490	50.1	9.1
23034-E1A-K-M	H3034	150	260	67	880000	1220000	146000	2600	1940	12	6.13
23034-E1-K	H3034	150	260	67	880000	1220000	146000	2600	1940	11.9	6.13
23134-E1A-K-M	H3134	150	280	88	1220000	1700000	174000	2400	1480	19.5	8.35
23134-E1-K	H3134	150	280	88	1220000	1700000	174000	2400	1480	19.9	8.35
22234-E1-K	H3134	150	310	86	1320000	1560000	139000	2400	1830	27.1	8.35
23234-E1A-K-M	H2334	150	310	110	1630000	2160000	163000	2000	1190	34.6	10.2
23234-E1-K	H2334	150	310	110	1630000	2160000	163000	2000	1190	33.1	10.2
22334-K-MB	H2334	150	360	120	1600000	2120000	134000	1800	1380	56.9	10.2
23936-S-K-MB	H3936	160	250	52	440000	850000	57000	2200	2320	7.76	6.25
23036-E1A-K-M	H3036	160	280	74	1040000	1460000	170000	2600	1790	16	7.01
23036-E1-K	H3036	160	280	74	1040000	1460000	170000	2600	1790	15.6	7.01
23136-E1A-K-M	H3136	160	300	96	1430000	1960000	196000	2200	1370	25.5	9.46
23136-E1-K	H3136	160	300	96	1430000	1960000	196000	2200	1370	25.9	9.46

Pendelrollenlager mir Spannhülse





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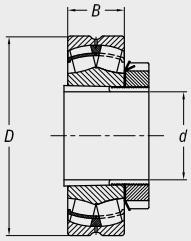
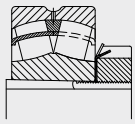
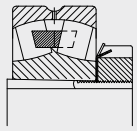
Type		**Abmessungen** *(mm)*			**Tragzahlen** *(N)*		**Ermüdungs-grenzbelast.** *(N)*	**Grenz-drehz.** *min–1*	**Bezugs-drehzahl** *min–1*	**Masse** *(kg)* *Lager*	*Hülse*
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
22236-E1-K	H3136	160	320	86	1370000	1660000	148000	2400	1720	28.5	9.46
23236-E1A-K-M	H2336	160	320	112	1700000	2360000	173000	2000	1110	37	11.4
23236-E1-K	H2336	160	320	112	1700000	2360000	173000	2000	1110	36	11.4
22336-K-MB	H2336	160	380	126	1760000	2360000	209000	1500	1280	66.7	11.4
23038-E1A-K-M	H3038	170	290	75	1080000	1560000	180000	2400	1690	17.7	7.66
23038-E1-K	H3038	170	290	75	1080000	1560000	180000	2400	1690	16.3	7.66
23138-E1A-K-M	H3138	170	320	104	1600000	2240000	218000	2000	1270	32.4	10.8
23138-E1-K	H3138	170	320	104	1600000	2240000	218000	2000	1270	30.3	10.8
22238-K-MB	H3138	170	340	92	1200000	1830000	122000	1800	1620	36.2	10.8
23238-B-K-MB	H2338	170	340	120	1560000	2600000	156000	1700	1040	46	12.7
22338-K-MB	H2338	170	400	132	1860000	2500000	213000	1500	1220	77.3	12.7
23940-S-K-MB	H3940	180	280	60	550000	1080000	71000	2000	2110	11.5	7.82
23040-E1A-K-M	H3040	180	310	82	1270000	1800000	203000	2400	1580	21.4	9.22
23040-E1-K	H3040	180	310	82	1270000	1800000	203000	2400	1580	20.8	9.22
23140-B-K-MB	H3140	180	340	112	1320000	2280000	131000	1700	1240	41.7	12.1
22240-B-K-MB	H3140	180	360	98	1320000	2000000	123000	1700	1530	42.3	12.1
23240-B-K-MB	H2340	180	360	128	1660000	2750000	163000	1500	1000	55.8	14
22340-K-MB	H2340	180	420	138	2080000	2800000	189000	1400	1130	89.5	14
23944-S-K-MB	H3944	200	300	60	600000	1250000	72000	1800	1880	12.3	8.27
23044-K-MB	H3044X	200	340	90	1060000	1900000	132000	1700	1470	29.9	10.4
23144-B-K-MB	H3144X	200	370	120	1630000	2900000	165000	1400	1070	52	15.4
22244-B-K-MB	H3144X	200	400	108	1630000	2450000	153000	1400	1340	59.6	15.4
23244-K-MB	H2344X	200	400	144	2040000	3450000	181000	1400	860	79	17.5
22344-K-MB	H2344X	200	460	145	2320000	3350000	217000	1300	980	114	17.5
23948-K-MB	H3948	220	320	60	1640000	1370000	93000	1500	1700	13.4	10.9
23048-K-MB	H3048	220	360	92	1160000	2200000	130000	1400	1320	31.9	13.4
23148-B-K-MB	H3148X	220	400	128	1860000	3250000	177000	1300	970	65.3	18.1
22248-B-K-MB	H3148X	220	440	120	1960000	3050000	184000	1300	1190	81.2	18.1
23248-B-K-MB	H2348X	220	440	160	2450000	4250000	231000	1300	750	105	20.6
22348-K-MB	H2348X	220	500	155	2650000	3900000	249000	1500	870	145	20.6
23952-K-MB	H3952	240	360	75	1930000	1930000	108000	1400	1610	22.4	13.1

Pendelrollenlager mir Spannhülse



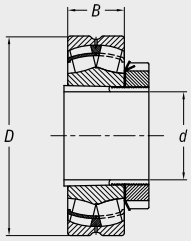


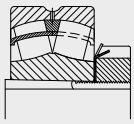


fester Mittelbord

Type		**Abmessungen**			**Tragzahlen**		**Ermüdungs-grenzbelast.**	**Grenz-drehz.**	**Bezugs-drehzahl**	**Masse** *(kg)*	
		(mm)			*(N)*		*(N)*	*min–1*	*min–1*	*Lager*	*Hülse*
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23052-K-MB	H3052X	240	400	104	500000	2800000	154000	130	1170	46.2	15.6
23152-K-MB	H3152X	240	440	144	2200000	4000000	213000	1200	860	89.6	22.9
22252-B-K-MB	H3152X	240	480	130	2240000	3450000	217000	1100	1080	106	22.9
23252-B-K-MB	H2352X	240	480	174	2900000	4900000	270000	1100	680	136	25.1
22352-K-MB	H2352X	240	540	165	3000000	4400000	290000	1100	790	177	25.1
23956-K-MB	H3956	260	380	75	965000	2040000	129000	1300	1470	24.7	15
23056-B-K-MB	H3056	260	420	106	1560000	3000000	156000	1300	1080	50.3	18
23156-B-K-MB	H3156X	260	460	146	2360000	4400000	241000	1100	790	96.4	25.4
22256-B-K-MB	H3156X	260	500	130	2360000	3650000	238000	1100	1010	110	25.4
23256-K-MB	H2356X	260	500	176	3000000	5300000	260000	1100	630	153	28.8
22356-K-MB	H2356X	260	580	175	3550000	5400000	335000	950	680	224	28.8
23960-B-K-MB	H3960	280	420	90	1270000	2650000	166000	1200	1400	39.1	20.3
23060-K-MB	H3060	280	460	118	1960000	3650000	223000	1100	980	72.2	23.2
23160-B-K-MB	H3160	280	500	160	2650000	4900000	270000	1100	730	123	29.9
22260-K-MB	H3160	280	540	140	2750000	4400000	300000	1000	900	136	29.9
23260-K-MB	H3260	280	540	192	3450000	6200000	300000	1000	560	192	34.1
23964-K-MB	H3964	300	440	90	1320000	2750000	202000	1100	1300	41	21.5
23064-K-MB	H3064	300	480	121	2040000	4000000	243000	1100	910	77.1	25.1
23164-K-MB	H3164	300	540	176	3200000	6000000	305000	950	650	159	34.8
22264-K-MB	H3164	300	580	150	3050000	4900000	345000	950	840	166	34.8
23264-K-MB	H3264	300	580	208	3900000	6950000	330000	950	520	229	39.3
23068-K-MB	H3068	320	520	133	2360000	4550000	285000	1000	850	101	29.3
23168-B-K-MB	H3168	320	580	190	3650000	6950000	570000	900	590	203	49.5
23268-B-K-MB	H3268	320	620	224	4500000	8150000	650000	850	470	291	54.9
23972-K-MB	H3972	340	480	90	1430000	3200000	209000	1000	1130	45	27.1
23072-K-MB	H3072	340	540	134	450000	4800000	295000	950	800	107	30.9
23172-K-MB	H3172	340	600	192	3800000	7350000	360000	850	560	217	54.3
23272-B-K-MB	H3272	340	650	232	4900000	9150000	720000	800	425	328	61.1
23976-K-MB	H3976	360	520	106	1760000	4000000	265000	950	1090	66.3	32.4
23076-B-K-MB	H3076	360	560	135	2550000	5300000	430000	900	740	113	36.5
23176-K-MB	H3176	360	620	194	4050000	8150000	385000	800	510	226	60.9

Pendelrollenlager mir Spannhülse



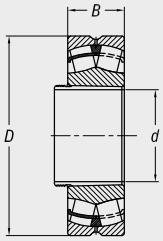


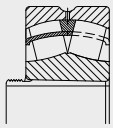
fester Mittelbord

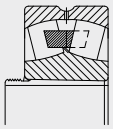
Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23276-B-K-MB	H3276	360	680	240	5300000	9800000	780000	750	400	367	69.3
23980-B-K-MB	H3980	380	540	106	1830000	4150000	275000	900	1030	68.2	38.5
23080-K-MB	H3080	380	600	148	3050000	6200000	365000	800	680	143	42.3
23180-K-MB	H3180	380	650	200	4250000	8500000	670000	750	490	261	69.6
23280-B-K-MB	H3280	380	720	256	5700000	10800000	820000	700	375	442	80.5
23984-K-MB	H3984	400	560	106	1900000	4500000	300000	850	970	78	37.5
23084-B-K-MB	H3084X	400	620	150	3150000	6550000	395000	800	650	155	44.6
23184-K-MB	H3184	400	700	224	5000000	9650000	465000	700	460	339	84.5
23284-B-K-MB	H3284	400	760	272	6550000	12200000	930000	670	345	537	94.8
23988-K-MB	H3988	410	600	118	2240000	5200000	295000	800	930	98.3	58.3
23088-K-MB	H3088	410	650	157	3400000	7100000	405000	750	610	177	67
23188-K-MB	H3188	410	720	226	5200000	10400000	485000	700	430	378	103
23288-B-K-MB	H3288	410	790	280	7100000	13400000	990000	630	320	586	125
23992-B-K-MB	H3992	430	620	118	2280000	5400000	370000	750	880	103	64.7
23092-K-MB	H3092	430	680	163	3650000	7650000	440000	700	580	204	71.6
23192-K-MB	H3192	430	760	240	5850000	11600000	530000	630	400	420	120
23292-K-MB	H3292	430	830	296	7800000	15000000	620000	600	295	699	137
23996-B-K-MB	H3996	450	650	128	2550000	6000000	460000	700	860	121	70.2
23096-K-MB	H3096	450	700	165	3800000	8150000	455000	670	550	208	75.3
23196-K-MB	H3196	450	790	248	6300000	12700000	570000	630	375	470	135
23296-K-MB	H3296	450	870	310	8800000	17000000	700000	600	270	806	154
239/500-K-MB	H39/500	470	670	128	2600000	6300000	400000	670	810	124	74.3
230/500-B-K-MB	H30/500	470	720	167	3900000	8500000	510000	670	520	219	84.5
231/500-B-K-MB	H31/500	470	830	264	7100000	14300000	990000	600	345	556	143
239/530-K-MB	H39/530	500	710	136	2850000	6800000	385000	630	770	146	89.3
230/530-K-MB	H30/530	500	780	185	4400000	9500000	540000	600	490	291	103
231/530-K-MB	H31/530	500	870	272	7350000	15300000	670000	560	325	643	160
239/560-B-K-MB	H39/560	530	750	140	3100000	7650000	570000	600	720	169	95.8
230/560-B-K-MB	H30/560	530	820	195	5100000	11000000	740000	560	450	339	113
231/560-K-MB	H31/560	530	920	280	8150000	16600000	750000	530	300	737	183
239/600-B-K-MB	H39/600	560	800	150	3450000	8650000	630000	560	670	210	129

Größere Dimensionen bitte anfragen.

Pendelrollenlager mit Abziehhülse



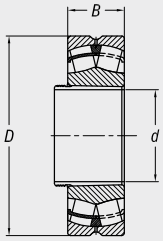


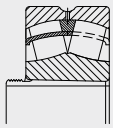


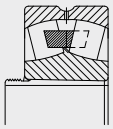
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
22208-E1-K	AH308	35	80	23	102000	90000	11800	10000	6400	0.517	0.089
21308-E1-K	AH308	35	90	23	108000	106000	14300	9500	6100	0.702	0.089
22308-E1-K	AH2308	35	90	23	156000	150000	13100	7500	5800	1.03	0.128
22209-E1-K	AH309	40	85	23	104000	980000	12700	10000	5800	0.577	0.108
21309-E1-K	AH309	40	100	25	129000	129000	17300	8500	5500	0.845	0.108
22309-E1-K	AH2309	40	100	36	186000	18300	16100	6700	5300	1.36	0.163
22210-E1-K	AHX310	45	90	23	108000	106000	14300	9500	5300	0.608	0.138
21310-E1-K	AHX310	45	110	27	129000	129000	17300	8500	5300	1.28	0.138
22310-E1-K	AHX2310	45	110	40	228000	224000	20300	6000	4950	1.86	0.213
22211-E1-K	AHX311	50	100	25	129000	129000	17300	8500	4850	0.825	0.164
21311-E1-K	AHX311	50	120	29	170000	166000	21200	6300	4950	1.19	0.164
22311-E1-K	AHX2311	50	120	43	265000	260000	23900	5600	4650	2.22	0.255
22311-E1-K-T41A	AHX2311	50	120	43	265000	260000	23900	5600	4650	2.22	0.255
22212-E1-K	AHX312	55	110	28	170000	166000	21200	7500	4650	1.09	0.195
21312-E1-K	AHX312	55	130	31	212000	228000	28000	6300	4500	1.78	0.195
22312-E1-K	AHX2312	55	130	46	310000	310000	28000	5000	4300	2.83	0.3
22312-E1-K-T41A	AHX2312	55	130	46	310000	310000	28000	5000	4300	2.83	0.3
22213-E1-K	AH313G	60	120	31	200000	208000	25500	6700	4400	1.52	0.224
21313-E1-K	AH313G	60	140	33	250000	270000	34000	5000	4200	2.42	0.224
22313-E1-K	AH2313G	60	140	48	355000	365000	32500	4800	3950	3.49	0.4
22313-E1-K-T41A	AH2313G	60	140	48	355000	365000	32500	4800	3950	3.49	0.4
22214-E1-K	AH314G	65	125	31	212000	228000	28000	6300	4100	1.61	0.25
21314-E1-K	AH314G	65	150	35	250000	270000	34000	5000	4100	3	0.25
22314-E1-K	AHX2314G	65	150	51	390000	390000	36500	4500	3850	4.12	0.407
22314-E1-K-T41A	AHX2314G	65	150	51	390000	390000	36500	4500	3850	4.12	0.407
22215-E1-K	AH315G	70	130	31	216000	236000	29500	6300	3900	1.68	0.284
21315-E1-K	AH315G	70	160	37	305000	325000	38500	4800	3850	2.86	0.284
22315-E1-K	AHX2315G	70	160	55	440000	450000	40500	4300	3650	5.06	0.5
22315-E1-K-T41A	AHX2315G	70	160	55	440000	450000	40500	4300	3650	5.06	0.5
22216-E1-K	AH316	75	140	33	250000	270000	34000	5600	3700	2.08	0.366
21316-E1-K	AH316	75	170	39	305000	325000	38500	4800	3750	2.65	0.366

Pendelrollenlager mit Abziehhülse



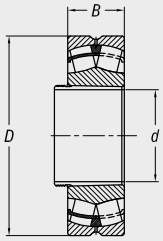


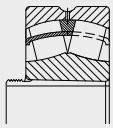


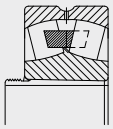
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
22316-E1-K	AHX2316	75	170	58	500000	510000	45000	4300	3450	6.05	0.6
22316-E1-K-T41A	AHX2316	75	170	58	500000	510000	45000	4300	3450	6.05	0.6
22217-E1-K	AHX317	80	150	36	305000	325000	38500	5300	3550	2.59	0.43
21317-E1-K	AHX317	80	180	41	345000	375000	42500	4800	3550	5.37	0.43
22317-E1-K	AHX2317	80	180	60	540000	560000	50000	4000	3300	7.06	0.7
22317-E1-K-T41A	AHX2317	80	180	60	540000	560000	50000	4000	3300	7.06	0.7
22218-E1-K	AHX318	85	160	40	345000	375000	42500	4800	3500	3.35	0.466
23218-E1A-K-M	AHX3218	85	160	52.4	440000	520000	48500	4300	2700	4.34	0.6
23218-E1-K	AHX3218	85	160	52.4	440000	520000	48500	4300	2700	4.08	0.6
21318-E1-K	AHX318	85	190	43	380000	415000	47000	4500	3450	6.26	0.466
22318-E1-K	AHX2318	85	190	64	610000	630000	55000	3600	3100	8.33	0.8
22318-E1-K-T41A	AHX2318	85	190	64	610000	630000	55000	3600	3100	8.33	0.8
22219-E1-K	AHX319	90	170	43	380000	415000	47000	4500	3400	4.04	0.54
21319-E1-K	AHX319	90	200	45	430000	455000	47500	4000	3300	6.53	0.54
22319-E1-K	AHX2319	90	200	67	670000	695000	60000	3000	2900	9.46	0.894
22319-E1-K-T41A	AHX2319	90	200	67	670000	695000	60000	3000	2900	9.46	0.894
23120-E1A-K-M	AHX3120	95	165	52	450000	570000	52000	4300	2800	4.23	0.654
23120-E1-K	AHX3120	95	165	52	450000	570000	52000	4300	2800	4.06	0.654
22220-E1-K	AHX320	95	180	46	430000	475000	52000	4300	3300	4.91	0.595
23220-E1A-K-M	AHX3220	95	180	60.3	550000	655000	60000	3600	2470	6.33	0.765
23220-E1-K	AHX3220	95	180	60.3	550000	655000	60000	3600	2470	6.13	0.765
21320-E1-K	AHX320	95	215	47	490000	530000	61000	3600	3100	8.08	0.595
22320-E1-K	AHX2320	95	215	73	815000	915000	75000	3000	2550	13.1	1.01
22320-E1-K-T41A	AHX2320	95	215	73	815000	915000	75000	3000	2550	13.1	1.01
23122-E1A-K-M	AHX3122	105	180	56	530000	680000	61000	4000	2600	5.1	0.774
23122-E1-K	AHX3122	105	180	56	530000	680000	61000	4000	2600	4.95	0.774
24122-E1-K30	AH24122	105	180	69	620000	900000	67000	2600	1820	6.69	0.725
22222-E1-K	AHX3122	105	200	53	550000	600000	62000	4000	3100	6.82	0.774
23222-E1A-K-M	AHX3222A	105	200	69.8	710000	865000	72000	3000	2150	9.32	0.974
23222-E1-K	AHX3222A	105	200	69.8	710000	865000	72000	3000	2150	8.82	0.974
21322-E1-K	AHX322	105	240	50	600000	640000	69000	3000	2750	10.9	0.663

Pendelrollenlager mit Abziehhülse



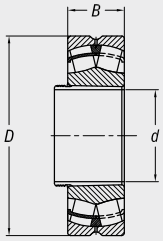


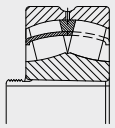


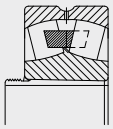
fester Mittelbord

Type		**Abmessungen** *(mm)*			**Tragzahlen** *(N)*		**Ermüdungs-grenzbelast.** *(N)*	**Grenz-drehz.** *min–1*	**Bezugs-drehzahl** *min–1*	**Masse** *(kg)* *Lager*	*Hülse*
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
22322-E1-K	AHX2322G	105	240	80	950000	1060000	91000	2600	2250	17.4	1.24
22322-E1-K-T41A	AHX2322G	105	240	80	950000	1060000	91000	2600	2250	17.4	1.24
23024-E1A-K-M	AHX3024	115	180	46	2430000	5850000	58000	4300	2850	4.09	0.741
23024-E1-K	AHX3024	115	180	46	2430000	5850000	58000	4300	2850	3.67	0.741
24024-E1-K30	AH24024	115	180	60	2540000	8000000	72000	3000	2290	6.11	0.694
23124-E1A-K-M	AHX3124	115	200	62	2630000	8000000	73000	3400	2330	7.57	0.954
23124-E1-K	AHX3124	115	200	62	2630000	8000000	73000	3400	2330	7.06	0.954
24124-E1-K30	AH24124	115	200	80	2780000	11200000	85000	2200	1610	11.5	1
22224-E1-K	AHX3124	115	215	58	21640000	7350000	71000	3400	2800	8.84	0.954
23224-E1A-K-M	AHX3224A	115	215	76	21815000	10200000	80000	2800	1940	11.4	1.2
23224-E1-K	AHX3224A	115	215	76	21815000	10200000	80000	2800	1940	11.1	1.2
22324-E1-K	AHX2324G	115	260	86	251080000	11600000	103000	2600	2080	22.1	1.5
22324-E1-K-T41A	AHX2324G	115	260	86	251080000	11600000	103000	2600	2080	22.1	1.5
23026-E1A-K-M	AHX3026	125	200	52	2540000	7350000	70000	3600	2650	5.7	0.916
23026-E1-K	AHX3026	125	200	52	2540000	7350000	70000	3600	2650	5.42	0.916
24026-E1-K30	AH24026	125	200	69	2680000	10200000	85000	2600	2050	7.57	0.875
23126-E1A-K-M	AHX3126	125	210	64	2680000	9000000	79000	3000	2130	8.1	1.11
23126-E1-K	AHX3126	125	210	64	2680000	9000000	79000	3000	2130	7.82	1.11
24126-E1-K30	AH24126	125	210	80	2815000	12000000	93000	2200	1480	10.1	1.12
22226-E1-K	AHX3126	125	230	64	25760000	9000000	79000	3000	2550	10.9	1.11
23226-E1A-K-M	AHX3226G	125	230	80	25900000	11400000	89000	2600	1780	13.6	1.51
23226-E1-K	AHX3226G	125	230	80	25900000	11400000	89000	2600	1780	12.6	1.51
22326-E1-K	AHX2326G	125	280	93	31250000	13700000	117000	2400	1870	27.4	1.81
22326-E1-K-T41A	AHX2326G	125	280	93	31250000	13700000	117000	2400	1870	27.4	1.81
23028-E1A-K-M	AHX3028	135	210	53	2570000	8000000	76000	3600	2440	6	1.01
23028-E1-K	AHX3028G	135	210	53	2570000	8000000	76000	3600	2440	5.81	1.01
24028-E1-K30	AH24028	135	210	69	2720000	11000000	93000	2600	1880	7.96	0.944
23128-E1A-K-M	AHX3128	135	225	68	21765000	10200000	88000	2800	1960	7.78	1.28
23128-E1-K	AHX3128	135	225	68	21765000	10200000	88000	2800	1960	9.46	1.28
24128-E1-K30	AH24128	135	225	85	21930000	13700000	104000	2000	1340	11.8	1.28
22228-E1-K	AHX3128	135	250	68	25880000	10400000	97000	2400	2320	13.7	1.28

Pendelrollenlager mit Abziehhülse



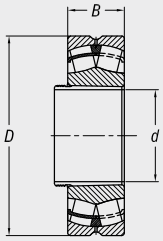


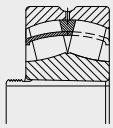


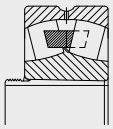
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23228-E1A-K-M	AHX3228G	135	250	88	251080000	14000000	112000	2400	1580	17.6	1.72
23228-E1-K	AHX3228G	135	250	88	251080000	14000000	112000	2400	1580	17.1	1.72
22328-E1-K	AHX2328G	135	300	102	31460000	16300000	132000	2200	1700	34.4	2.21
22328-E1-K-T41A	AHX2328G	135	300	102	31460000	16300000	132000	2200	1700	34.4	2.21
23030-E1A-K-M	AHX3030	145	225	56	630000	880000	85000	3400	2260	7.33	1.15
23030-E1-K	AHX3030	145	225	56	630000	880000	85000	3400	2260	7.29	1.15
24030-E1-K30	AH24030	145	225	75	815000	1250000	105000	2400	1740	10	1.1
23130-E1A-K-M	AHX3130G	145	250	80	1000000	1320000	143000	2600	1760	15.8	1.64
23130-E1-K	AHX3130G	145	250	80	1000000	1320000	143000	2600	1760	14.5	1.64
22230-E1-K	AHX3130G	145	270	73	1000000	1220000	111000	2600	2110	17.8	1.64
23230-E1A-K-M	AHX3230G	145	270	96	1270000	1660000	129000	2200	1420	22.9	2.07
23230-E1-K	AHX3230G	145	270	96	1270000	1660000	129000	2200	1420	22.3	2.07
22330-E1-K	AHX2330G	145	320	108	1630000	1860000	147000	2000	1550	41.2	2.6
22330-E1-K-T41A	AHX2330G	145	320	108	1630000	1860000	147000	2000	1550	41.2	2.6
23032-E1A-K-M	AH3032	150	240	60	720000	1020000	94000	2800	2090	9.42	2.04
23032-E1-K	AH3032	150	240	60	720000	1020000	94000	2800	2090	8.67	2.04
24032-E1-K30	AH24032	150	240	80	915000	1430000	117000	2200	1600	11.8	2.27
23132-E1A-K-M	AH3132A	150	270	86	1160000	1560000	164000	2400	1590	18.6	2.87
23132-E1-K	AH3132A	150	270	86	1160000	1560000	164000	2400	1590	18.4	2.87
22232-E1-K	AH3132A	150	290	80	1140000	1400000	125000	2600	1960	22.4	2.87
23232-E1A-K-M	AH3232G	150	290	104	1460000	1900000	146000	2200	1310	28.5	3.6
23232-E1-K	AH3232G	150	290	104	1460000	1900000	146000	2200	1310	27.7	3.6
22332-K-MB	AH2332G	150	340	114	1430000	1900000	121000	2000	1490	50.1	4.24
23034-E1A-K-M	AH3034	160	260	67	880000	1220000	146000	2600	1940	12	2.43
23034-E1-K	AH3034	160	260	67	880000	1220000	146000	2600	1940	11.9	2.43
23134-E1A-K-M	AH3134A	160	280	88	1220000	1700000	174000	2400	1480	19.5	3.09
23134-E1-K	AH3134A	160	280	88	1220000	1700000	174000	2400	1480	19.9	3.09
22234-E1-K	AH3134A	160	310	86	1320000	1560000	139000	2400	1830	27.1	3.09
23234-E1A-K-M	AH3234G	160	310	110	1630000	2160000	163000	2000	1190	34.6	4.25
23234-E1-K	AH3234G	160	310	110	1630000	2160000	163000	2000	1190	33.1	4.25
22334-K-MB	AH2334G	160	360	120	1600000	2120000	134000	1800	1380	56.9	4.76

Pendelrollenlager mit Abziehhülse



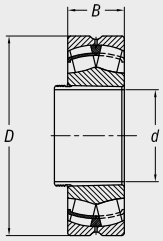


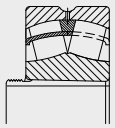


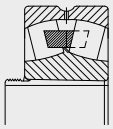
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23036-E1A-K-M	AH3036	170	280	74	1040000	1460000	170000	2600	1790	16	2.84
23036-E1-K	AH3036	170	280	74	1040000	1460000	170000	2600	1790	15.6	2.84
23136-E1A-K-M	AH3136A	170	300	96	1430000	1960000	196000	2200	1370	25.5	3.77
23136-E1-K	AH3136A	170	300	96	1430000	1960000	196000	2200	1370	25.9	3.77
22236-E1-K	AH2236G	170	320	86	1370000	1660000	148000	2400	1720	28.5	3.3
23236-E1A-K-M	AH3236G	170	320	112	1700000	2360000	173000	2000	1110	37	4.8
23236-E1-K	AH3236G	170	320	112	1700000	2360000	173000	2000	1110	36	4.8
22336-K-MB	AH2336G	170	380	126	1760000	2360000	209000	1500	1280	66.7	5.4
23038-E1A-K-M	AH3038G	180	290	75	1080000	1560000	180000	2400	1690	17.7	3.16
23038-E1-K	AH3038G	180	290	75	1080000	1560000	180000	2400	1690	16.3	3.16
23138-E1A-K-M	AH3138G	180	320	104	1600000	2240000	218000	2000	1270	32.4	4.4
23138-E1-K	AH3138G	180	320	104	1600000	2240000	218000	2000	1270	30.3	4.4
24138-B-K30	AH24138	180	320	128	1400000	2500000	145000	1500	910	41.5	4.37
22238-K-MB	AH2238G	180	340	92	1200000	1830000	122000	1800	1620	36.2	3.8
23238-B-K-MB	AH3238G	180	340	120	1560000	2600000	156000	1700	1040	46	5.3
22338-K-MB	AH2338G	180	400	132	1860000	2500000	213000	1500	1220	77.3	6.04
23040-E1A-K-M	AH3040G	190	310	82	1270000	1800000	203000	2400	1580	21.4	3.57
23040-E1-K	AH3040G	190	310	82	1270000	1800000	203000	2400	1580	20.8	3.57
23140-B-K-MB	AH3140	190	340	112	1320000	2280000	131000	1700	1240	41.7	5.5
24140-B-K30	AH24140	190	340	140	1700000	3000000	190000	1400	810	51.6	5
22240-B-K-MB	AH2240	190	360	98	1320000	2000000	123000	1700	1530	42.3	4.73
23240-B-K-MB	AH3240	190	360	128	1660000	2750000	163000	1500	1000	55.8	6.59
22340-K-MB	AH2340	190	420	138	2080000	2800000	189000	1400	1130	89.5	7.6
23044-K-MB	AH3044G	200	340	90	1060000	1900000	132000	1700	1470	29.9	7.13
24044-B-K30-MB	AH24044	200	340	118	1400000	2700000	139000	1300	1080	38.9	8.11
23144-B-K-MB	AH3144	200	370	120	1630000	2900000	165000	1400	1070	52	10.4
24144-B-K30	AH24144	200	370	150	1900000	3450000	197000	1300	730	64.4	3.61
22244-B-K-MB	AH2244	200	400	108	1630000	2450000	153000	1400	1340	59.6	9.1
23244-K-MB	AH2344	200	400	144	2040000	3450000	181000	1400	860	79	13.6
22344-K-MB	AH2344	200	460	145	2320000	3350000	217000	1300	980	114	13.6
23948-K-MB	AH3948	220	320	60	640000	1370000	93000	1500	1700	13.4	5.29

Pendelrollenlager mit Abziehhülse



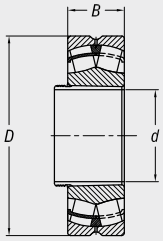


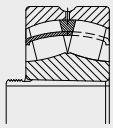


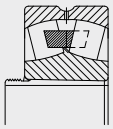
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23048-K-MB	AH3048	220	360	92	1160000	2200000	130000	1400	1320	31.9	8.8
24048-B-K30-MB	AH24048	220	360	118	1500000	2900000	150000	1300	980	43.2	8.87
23148-B-K-MB	AH3148	220	400	128	1860000	3250000	177000	1300	970	65.3	12.2
24148-B-K30	AH24148	220	400	160	2120000	3900000	231000	1200	660	78.7	12.4
22248-B-K-MB	AH2248	220	440	120	1960000	3050000	184000	1300	1190	81.2	11.2
23248-B-K-MB	AH2348	220	440	160	2450000	4250000	231000	1300	750	105	15.6
22348-K-MB	AH2348	220	500	155	2650000	3900000	249000	1500	870	145	15.6
23952-K-MB	AH3952G	240	360	75	930000	1930000	108000	1400	1610	22.4	7.58
23052-K-MB	AH3052	240	400	104	1500000	2800000	154000	1300	1170	46.2	10.7
24052-B-K30-MB	AH24052	240	400	140	1900000	3800000	204000	1100	870	64.5	11.8
23152-K-MB	AH3152G	240	440	144	2200000	4000000	213000	1200	860	89.6	15.1
24152-B-K30	AH24152	240	440	180	2700000	5100000	315000	1100	550	112	15.4
22252-B-K-MB	AH2252G	240	480	130	2240000	3450000	217000	1100	1080	106	13.3
23252-B-K-MB	AH2352G	240	480	174	2900000	4900000	270000	1100	680	136	18.7
22352-K-MB	AH2352G	240	540	165	3000000	4400000	290000	1100	790	177	18.7
23956-K-MB	AH3956G	260	380	75	965000	2040000	129000	1300	1470	24.7	8.19
23056-B-K-MB	AH3056	260	420	106	1560000	3000000	156000	1300	1080	50.3	11.9
24056-B-K30-MB	AH24056	260	420	140	2000000	4000000	225000	1100	810	69.7	12.4
23156-B-K-MB	AH3156G	260	460	146	2360000	4400000	241000	1100	790	96.4	17.6
24156-B-K30	AH24156	260	460	180	2700000	5200000	365000	1000	520	118	16.6
22256-B-K-MB	AH2256G	260	500	130	2360000	3650000	238000	1100	1010	110	14.4
23256-K-MB	AH2356G	260	500	176	3000000	5300000	260000	1100	630	153	21
22356-K-MB	AH2356G	260	580	175	3550000	5400000	335000	950	680	224	21
23960-B-K-MB	AH3960G	280	420	90	1270000	2650000	166000	1200	1400	39.1	10.7
23060-K-MB	AH3060	280	460	118	1960000	3650000	223000	1100	980	72.2	14.3
24060-B-K30-MB	AH24060	280	460	160	2500000	5200000	300000	1000	710	97.7	15.3
23160-B-K-MB	AH3160G	280	500	160	2650000	4900000	270000	1100	730	123	19.9
24160-B-K30	AH24160	280	500	200	3250000	6300000	540000	900	460	158	20
22260-K-MB	AH2260G	280	540	140	2750000	4400000	300000	1000	900	136	17.2
23260-K-MB	AH3260G	280	540	192	3450000	6200000	300000	1000	560	192	24.6
23964-K-MB	AH3964G	300	440	90	1320000	2750000	202000	1100	1300	41	11.4

Pendelrollenlager mit Abziehhülse



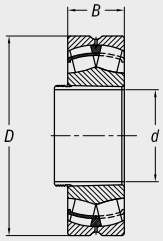


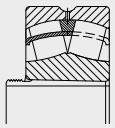


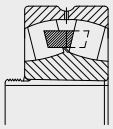
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23064-K-MB	AH3064G	300	480	121	2040000	4000000	243000	1100	910	77.1	15.8
24064-B-K30-MB	AH24064	300	480	160	2600000	5400000	360000	950	660	103	16.6
23164-K-MB	AH3164G	300	540	176	3200000	6000000	305000	950	650	159	23.6
24164-B-K30	AH24164	300	540	218	3800000	7350000	530000	850	415	197	23.4
22264-K-MB	AH2264G	300	580	150	3050000	4900000	345000	950	840	166	19.8
23264-K-MB	AH3264G	300	580	208	3900000	6950000	330000	950	520	229	28.9
23068-K-MB	AH3068G	320	520	133	2360000	4550000	285000	1000	850	101	18.6
24068-B-K30-MB	AH24068	320	520	180	3100000	6550000	530000	850	600	143	21.7
23168-B-K-MB	AH3168G	320	580	190	3650000	6950000	570000	900	590	203	27.6
24168-B-K30	AH24168	320	580	243	4400000	8500000	680000	800	380	260	27.9
23268-B-K-MB	AH3268G	320	620	224	4500000	8150000	650000	850	470	291	33.7
23972-K-MB	AH3972G	340	480	90	1430000	3200000	209000	1000	1130	45	12.8
23072-K-MB	AH3072G	340	540	134	2450000	4800000	295000	950	800	107	20.4
23172-K-MB	AH3172G	340	600	192	3800000	7350000	360000	850	560	217	29.9
24172-B-K30	AH24172	340	600	243	4500000	9000000	550000	750	355	275	29.6
23272-B-K-MB	AH3272G	340	650	232	4900000	9150000	720000	800	425	328	37.5
23976-K-MB	AH3976G	360	520	106	1760000	4000000	265000	950	1090	66.3	16
23076-B-K-MB	AH3076G	360	560	135	2550000	5300000	430000	900	740	113	22.1
24076-B-K30-MB	AH24076	360	560	180	3350000	7200000	580000	750	530	155	23.7
23176-K-MB	AH3176G	360	620	194	4050000	8150000	385000	800	510	226	32.2
24176-B-K30	AH24176	360	620	243	4650000	9500000	770000	700	330	277	31.3
23276-B-K-MB	AH3276G	360	680	240	5300000	9800000	780000	750	400	367	41.5
23980-B-K-MB	AH3980G	380	540	106	1830000	4150000	275000	900	1030	68.2	16.9
23080-K-MB	AH3080G	380	600	148	3050000	6200000	365000	800	680	143	25.4
24080-B-K30-MB	AH24080	380	600	200	3900000	8500000	670000	700	485	196	27.1
23180-B-K-MB	AH3180G	380	650	200	4250000	8500000	670000	750	490	261	35.3
24180-B-K30	AH24180	380	650	250	5100000	10400000	790000	670	305	312	34.3
23280-B-K-MB	AH3280G	380	720	256	5700000	10800000	820000	700	375	442	47.4
23984-K-MB	AH3984G	400	560	106	1900000	4500000	300000	850	970	78	17.8
23084-B-K-MB	AH3084G	400	620	150	3150000	6550000	395000	800	650	155	27.2
24084-B-K30-MB	AH24084	400	620	200	4000000	8800000	710000	670	460	214	29

Pendelrollenlager mit Abziehhülse



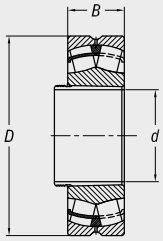


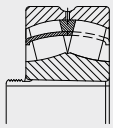


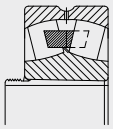
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
23184-K-MB	AH3184G	400	700	224	5000000	9650000	465000	700	460	339	42.3
24184-B-K30	AH24184	400	700	280	6200000	12700000	980000	630	270	407	40.3
23284-B-K-MB	AH3284G	400	760	272	6550000	12200000	930000	670	345	537	54
23988-K-MB	AH3988	420	600	118	2240000	5200000	295000	800	930	98.3	21.2
23088-K-MB	AHX3088G	420	650	157	3400000	7100000	405000	750	610	177	30.1
24088-B-K30-MB	AH24088	420	650	212	4300000	9650000	750000	630	435	247	31.9
23188-K-MB	AHX3188G	420	720	226	5200000	10400000	485000	700	430	378	45.3
24188-B-K30	AH24188	420	720	280	6400000	13200000	1020000	600	255	451	42.3
23288-B-K-MB	AHX3288G	420	790	280	7100000	13400000	990000	630	320	586	58.8
23992-B-K-MB	AH3992	440	620	118	2280000	5400000	370000	750	880	103	22.5
23092-K-MB	AHX3092G	440	680	163	3650000	7650000	440000	700	580	204	33.1
23192-K-MB	AHX3192G	440	760	240	5850000	11600000	530000	630	400	420	50.8
24192-B-K30-MB	AH24192	440	760	300	7500000	15600000	1160000	560	228	578	47.4
23292-K-MB	AHX3292G	440	830	296	7800000	15000000	620000	600	295	699	66.2
23996-B-K-MB	AH3996	460	650	128	2550000	6000000	460000	700	860	121	25.7
23096-K-MB	AHX3096G	460	700	165	3800000	8150000	455000	670	550	208	35.2
24096-B-K30-MB	AH24096	460	700	218	4900000	11200000	830000	600	380	289	36.6
23196-K-MB	AHX3196G	460	790	248	6300000	12700000	570000	630	375	470	55.5
24196-B-K30-MB	AH24196	460	790	308	8000000	16600000	1190000	560	215	700	53.1
23296-K-MB	AHX3296G	460	870	310	8800000	17000000	700000	600	270	806	73.3
239/500-K-MB	AH39/500	480	670	128	2600000	6300000	400000	670	810	124	27.7
230/500-B-K-MB	AHX30/500	480	720	167	3900000	8500000	510000	670	520	219	42.5
231/500-B-K-MB	AHX31/500	480	830	264	7100000	14300000	990000	600	345	556	71.3
241/500-B-K30-MB	AH241/500	480	830	325	8650000	18300000	1340000	530	200	717	60.5
239/530-K-MB	AH39/530	500	710	136	2850000	6800000	385000	630	770	146	43.4
230/530-K-MB	AH30/530A	500	780	185	4400000	9500000	540000	600	490	291	61.8
231/530-K-MB	AH31/530A	500	870	272	7350000	15300000	670000	560	325	643	93.4
241/530-B-K30-MB	AH241/530	500	870	335	9500000	20000000	1450000	500	184	845	89
239/560-B-K-MB	AH39/560	530	750	140	3100000	7650000	570000	600	720	169	47
230/560-B-K-MB	AH30/560A	530	820	195	5100000	11000000	740000	560	450	339	68.6
231/560-K-MB	AH31/560A	530	920	280	8150000	16600000	750000	530	300	737	102

Pendelrollenlager mit Abziehhülse







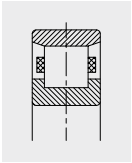
fester Mittelbord

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Hülse
	Hülse	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m (H)
241/560-B-K30-MB	AH241/560	530	920	355	10600000	22400000	1600000	480	169	974	101
239/600-B-K-MB	AH39/600	570	800	150	3450000	8650000	630000	560	670	210	55.6
230/600-B-K-MB	AH30/600A	570	870	200	5700000	12500000	890000	530	405	388	75.6
231/600-K-MB	AH31/600A	570	980	300	9000000	19300000	810000	500	270	901	118
241/600-B-K30-MB	AH241/600	570	980	375	11600000	26000000	1780000	450	149	1170	118
239/630-B-K-MB	AH39/630	600	850	165	4050000	9800000	710000	530	650	283	64.7
230/630-B-K-MB	AH30/630A	600	920	212	6300000	13700000	890000	500	385	502	87.8
240/630-B-K30-MB	AH240/630	600	920	290	8000000	19000000	1350000	480	265	649	95.1
241/630-B-K30-MB	AH241/630	600	1030	400	12900000	29000000	1960000	450	138	1360	133
239/670-B-K-MB	AH39/670	63	900	170	4300000	10600000	750000	500	600	310	88
230/670-B-K-MB	AH30/670A	63	980	230	7200000	16000000	1100000	480	350	590	125
241/670-B-K30-MB	AH241/670	63	1090	412	14000000	31500000	2120000	430	127	1540	184
239/710-K-MB	AH39/710	670	950	180	4800000	12000000	720000	480	570	336	102
230/710-B-K-MB	AH30/710A	670	1030	236	7650000	17000000	1140000	480	330	650	136
240/710-B-K30-MB	AH240/710	670	1030	315	9500000	22800000	1550000	430	226	873	153
241/710-B-K30-MB	AH241/710	670	1150	438	15600000	35500000	2340000	400	116	1820	209
239/750-K-MB	AH39/750	710	1000	185	5200000	12900000	790000	480	540	394	110
230/750-K-MB	AH30/750A	710	1090	250	8500000	19000000	1010000	450	305	792	156
240/750-B-K30-MB	AH240/750	710	1090	335	10800000	26000000	1730000	400	206	1070	170
239/800-B-K-MB	AH39/800	750	1060	195	5850000	15000000	1010000	450	500	490	146
230/800-K-MB	AH30/800A	750	1150	258	9300000	21200000	1430000	430	280	861	200
239/850-K-MB	AH39/850	800	1120	200	6300000	16300000	960000	430	465	554	165
240/850-B-K30-MB	AH240/850	800	1220	365	12900000	32000000	2060000	480	173	1420	252
239/900-K-MB	AH39/900	850	1180	206	6550000	17300000	1010000	400	440	641	180

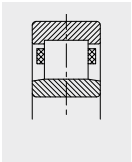
Größere Dimensionen bitte anfragen.

Zylinderrollenlager Allgemeines

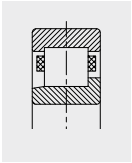
Typen



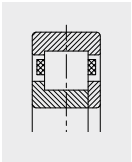
mit Käfig:
Loslager: N
N2.. N3..-E



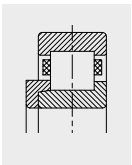
Loslager: NU
NU10.. NU19.. NU2..-E
NU3..-E NU4.. NU22..-E NU23..-E



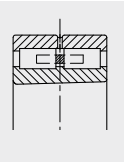
Stützlager: NJ
NJ2..E NJ3..-E NJ4..
NJ22..-E NJ23..-E



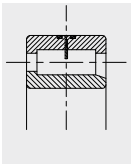
Festlager mit Bordscheibe: NUP
NUP2..-E NUP3..-E
NUP22..-E NUP23..-E



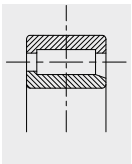
Festlager mit Winkelring: NJ + HJ
NJ2..-E+HJ NJ3..-E+HJ NJ4..+HJ
NJ22..-E+HJ NJ23..-E+HJ



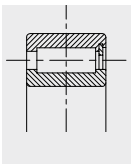
Hochgenauigkeitszylinderrollenlager:
NN30..AS-K-M-SP



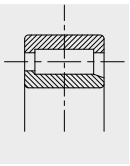
mit Scheibenkäfig:
LSL 1923



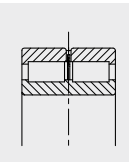
mit Zwischenstücken:
ZSL 1923



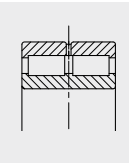
vollrollig, 1-reihig:
SL1818 SL1829 SL1830 SL1822



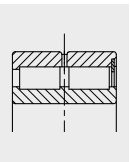
vollrollig, 1-reihig:
SL1923



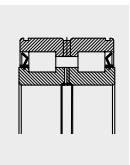
vollrollig, 2-reihig:
Loslager
SL0248 SL0249



Festlager:
SL0148 SL0149



Stützlager
SL1850



mit Ringnuten:
vollrollig, abgedichtet (Seilscheibenlager)
SL0450..-PP SL04..-PP

Nachsetzzeichen

- J30B	brüniert
- E	verstärkte Lagerausführung
- EX	verstärkte Lagerausführung, Konstruktion geändert entsprechend Norm (Teile von diesen Lagern dürfen nicht gegen Teile gleich großer Lager der bisherigen Ausführung E ausgetauscht werden)
- M1	Massivkäfig aus Messing, zweigeteilt, rollengeführt
- TVP2	Massiv-Fensterkäfig aus glasfaserver stärktem Polyamid PA66
- JP3	Stahlblechfensterkäfig, einteilig, rollengeführt
- MP1A	Massivkäfig aus Messing, einteilig, bordgeführt am Außenring

Zylinderrollenlager Allgemeines

Nachsetzzeichen

- MP1B	Massivkäfig aus Messing, einteilig, bordgeführt am Innenring
- M1A	Massivkäfig aus Messing, zweiteilig, bordgeführt am Außenring
- M1B	Massivkäfig aus Messing, zweiteilig, bordgeführt am Innenring
- BIR	Laufbahn des Innenringes, leicht ballig geschliffen
- BR	brüniert
- TB	Lager mit erhöhter axialer Belastbarkeit
- A	geänderte Innenkonstruktion
- K	kegelige Bohrung, Kegel 1:12
- M	Massivkäfig aus Messing, rollengeführt
- S	Schmiernut und Schmierbohrung im Außenring
- SP	Toleranzklasse SP
- C3	Radialluft größer als normal
- C4	Radialluft größer als C3

Lagerluft

Radiale Lagerluft für Zylinderrollenlager:
Lagerluftgruppe CN (DIN 620-4)

Bohrung d mm über	bis	radiale Lagerluft CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.	C5 µm min.	max.
–	24	20	45	35	60	50	75	65	90
24	30	20	45	35	60	50	75	70	95
30	40	25	50	45	70	60	85	80	105
40	50	30	60	50	80	70	100	95	125
50	65	40	70	60	90	80	110	110	140
65	80	40	75	65	100	90	125	130	165
80	100	50	85	75	110	105	140	155	190
100	120	50	90	85	125	125	165	180	220
120	140	60	105	100	145	145	190	200	245
140	160	70	120	115	165	165	215	225	275
160	180	75	125	120	170	170	220	250	300
180	200	90	145	140	195	195	250	275	330
200	225	105	165	160	220	220	280	305	365
225	250	110	175	170	235	235	300	330	395
250	280	125	195	190	260	260	330	370	440
280	315	130	205	200	275	275	350	410	485

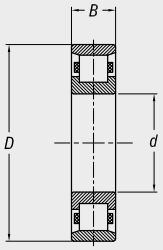
Radiale Lagerluft für Zylinderrollenlager mit Käfig:
Lagerluftgruppe CN (DIN 620-4)

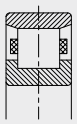
Bohrung d mm über	bis	radiale Lagerluft CN µm min.	max.	C3 µm min.	max.	C4 µm min.	max.
–	24	20	45	35	60	50	75
24	30	20	45	35	60	50	75
30	40	25	50	45	70	60	85
40	50	30	60	50	80	70	100
50	65	40	70	60	90	80	110
65	80	40	75	65	100	90	125
80	100	50	85	75	110	105	140
100	120	50	90	85	125	125	165
120	140	60	105	100	145	145	190
140	160	70	120	115	165	165	215
160	180	75	125	120	170	170	220
180	200	90	145	140	195	195	250
200	225	105	165	160	220	220	280
225	250	110	175	170	235	235	300
250	280	125	195	190	260	260	330
280	315	130	205	200	275	275	350
315	355	145	225	225	305	305	385
355	400	190	280	280	370	370	460
400	450	210	310	310	410	410	510
450	500	220	330	330	440	440	550
500	560	240	360	360	480	480	600
560	630	260	380	380	500	500	620
630	710	285	425	425	565	565	705

Radiale Lagerluft für Hochgenauigkeits-Zylinderrollenlager.
(kegelige Bohrung)
Lagerluftgruppe C1NA.

Bohrung d mm über	bis	radiale Lagerluft C1NA µm min.	max.
24	30	15	25
30	40	15	25
40	50	17	30
50	65	20	35
65	80	25	40
80	100	35	55
100	120	40	60
120	140	45	70
140	160	50	75
160	180	55	85
180	200	60	90
200	225	60	95
225	250	65	100
250	280	75	110
280	315	80	120
315	355	90	135
355	400	100	150
400	450	110	170
450	500	120	190

Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU





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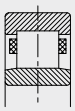
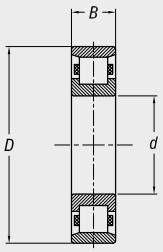
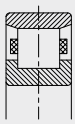


NU

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
N202-E	15	35	11	15100	10400	1470	22000	17600	0.047
NU202-E	15	35	11	15100	10400	1290	22000	17600	0.048
N203-E	17	40	12	20800	14600	2110	18000	15400	0.068
NU203-E	17	40	12	20800	14600	1820	18000	15400	0.069
NU2203-E	17	40	16	28500	21900	3500	18000	13300	0.051
NU303-E	17	47	14	30000	21200	2650	16000	13700	0.121
N204-E	20	47	14	32500	24700	3850	16000	13100	0.112
NU204-E	20	47	14	32500	24700	3100	16000	13100	0.114
NU2204-E	20	47	18	38500	31000	5000	16000	11400	0.146
NU304-E	20	52	15	36500	26000	3250	14000	12100	0.153
NU2304-E	20	52	21	48500	38000	6300	14000	9900	0.215
NU1005-M1	25	47	12	16700	12900	1520	28000	13100	0.092
N205-E	25	52	15	34500	27500	4350	15000	11800	0.135
NU205-E	25	52	15	34500	27500	3500	15000	11800	0.137
NU2205-E	25	52	18	41500	34500	5700	15000	9800	0.165
N305-E	25	62	17	48000	36500	5800	12000	10200	0.242
NU305-E	25	62	17	48000	36500	4700	12000	10200	0.245
NU2305-E	25	62	24	66000	55000	9400	12000	8400	0.349
NU1006-M1	30	55	13	22900	19300	2400	24000	11000	0.134
N206-E	30	62	16	45000	36000	5700	12000	9800	0.205
NU206-E	30	62	16	45000	36000	4650	12000	9800	0.207
NU2206-E	30	62	20	57000	48500	8100	12000	8200	0.255
N306-E	30	72	19	61000	48000	8000	10000	9000	0.366
NU306-E	30	72	19	61000	48000	6400	10000	9000	0.368
NU2306-E	30	72	27	86000	75000	13200	10000	7300	0.529
NU1007-M1	35	62	14	29000	26000	3150	20000	9700	0.177
N207-E	35	72	17	58000	48500	7900	10000	8300	0.301
NU207-E	35	72	17	58000	48500	6400	10000	8300	0.303
NU2207-E	35	72	23	72000	64000	10800	10000	7300	0.406
N307-E	35	80	21	76000	63000	10700	9000	8100	0.486
NU307-E	35	80	21	76000	63000	8600	9000	8100	0.486

Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU





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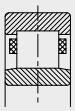
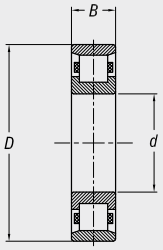
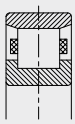


NU

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
NU2307-E	35	80	31	108000	98000	17400	9000	6700	0.723
NU1008-M1	40	68	15	33500	30500	3350	19000	8900	0.216
N208-E	40	80	18	63000	53000	8700	9000	7600	0.358
NU208-E	40	80	18	63000	53000	7000	9000	7600	0.379
NU2208-E	40	80	23	83000	75000	12900	9000	6400	0.492
N308-E	40	90	23	95000	78000	12900	7500	7300	0.656
NU308-E	40	90	23	95000	78000	10400	7500	7300	0.659
NU2308-E	40	90	33	132000	119000	20700	7500	6000	0.958
NU1009-M1	45	75	16	40000	37500	4800	16000	8100	0.277
N209-E	45	85	19	72000	63000	10600	8500	7100	0.434
NU209-E	45	85	19	72000	63000	8600	8500	7100	0.434
NU2209-E	45	85	23	87000	82000	14100	8500	5800	0.532
N309-E	45	100	25	115000	98000	16400	6700	6500	0.891
NU309-E	45	100	25	115000	98000	13300	6700	6500	0.893
NU2309-E	45	100	36	162000	153000	27000	6700	5400	1.3
NU1010-M1	50	80	16	42500	41500	5300	15000	7400	0.305
N210-E	50	90	20	75000	69000	11500	8000	6700	0.488
NU210-E	50	90	20	75000	69000	9300	8000	6700	0.49
NU2210-E	50	90	23	92000	88000	15300	8000	5400	0.573
N310-E	50	110	27	130000	113000	19100	6300	6100	1.16
NU310-E	50	110	27	130000	113000	15500	6300	6100	1.16
NU2310-E	50	110	40	192000	187000	33000	6300	5000	1.75
NU1011-E-M1	55	90	18	53000	62000	6600	13000	6900	0.451
N211-E	55	100	21	99000	95000	16300	7000	5800	0.668
NU211-E	55	100	21	99000	95000	13200	7000	5800	0.665
NU2211-E	55	100	25	117000	118000	20700	7000	4750	0.796
N311-E	55	120	29	159000	139000	23600	5600	5600	1.48
NU311-E	55	120	29	159000	139000	19100	5600	5600	1.48
NU2311-E	55	120	43	235000	230000	41000	5600	4600	2.23
NU1012-M1	60	95	18	52000	55000	7100	13000	6400	0.48
N212-E	60	110	22	111000	102000	16800	6300	5400	0.827

Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU





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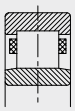
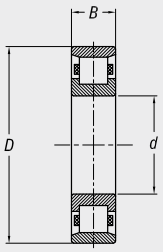
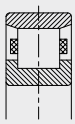


NU

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
NU212-E	60	110	22	111000	102000	13900	6300	5400	0.824
NU2212-E	60	110	28	151000	152000	26500	6300	4400	1.08
N312-E	60	130	31	177000	157000	26500	5000	5300	1.84
NU312-E	60	130	31	177000	157000	21700	5000	5300	1.85
NU2312-E	60	130	46	265000	260000	47000	5000	4300	2.78
NU1013-M1	65	100	18	53000	58000	7500	12000	5900	0.507
N213-E	65	120	23	127000	119000	19800	6000	5000	1.05
NU213-E	65	120	23	127000	119000	16300	6000	5000	1.04
NU2213-E	65	120	31	176000	181000	32000	5600	4150	1.43
N313-E	65	140	33	214000	191000	32000	4800	4900	2.28
NU313-E	65	140	33	214000	191000	26000	4800	4900	2.28
NU2313-E	65	140	48	295000	285000	50000	4800	4050	3.32
NU1014-M1	70	110	20	75000	78000	10600	11000	5500	0.706
N214-E	70	125	24	140000	137000	23100	5300	4750	1.16
NU214-E	70	125	24	140000	137000	19000	5300	4750	1.15
NU2214-E	70	125	31	184000	194000	34000	5300	3900	1.52
N314-E	70	150	35	242000	222000	37000	4500	4550	2.79
NU314-E	70	150	35	242000	222000	30000	4500	4550	2.79
NU2314-E	70	150	51	325000	325000	56000	4500	3850	4.02
NU1015-M1	75	115	20	76000	82000	11100	10000	5200	0.737
N215-E	75	130	25	154000	156000	26500	5300	4500	1.29
NU215-E	75	130	25	154000	156000	21700	5300	4500	1.27
NU2215-E	75	130	31	191000	207000	36000	5300	3700	1.6
N315-E	75	160	37	285000	265000	43000	4000	4200	3.34
NU315-E	75	160	37	285000	265000	34500	4000	4200	3.33
NU2315-E	75	160	55	390000	395000	67000	4000	3600	4.95
NU1016-M1	80	125	22	91000	99000	13600	9500	5000	0.99
N216-E	80	140	26	165000	167000	27500	4800	4250	1.55
NU216-E	80	140	26	165000	167000	22600	4800	4250	1.55
NU2216-E	80	140	33	220000	243000	42000	4800	3450	2.01
N316-E	80	170	39	300000	275000	46000	3800	4150	4.12

Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU





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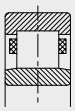
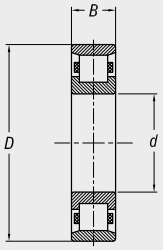
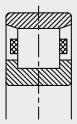


NU

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
NU316-E	80	170	39	300000	275000	37000	3800	4150	3.96
NU2316-E	80	170	58	420000	425000	73000	3800	3500	5.89
NU1017-M1	85	130	22	93000	103000	14000	9000	4750	1.04
N217-E	85	150	28	194000	194000	31500	4500	4100	1.92
NU217-E	85	150	28	194000	194000	26000	4500	4100	1.91
NU2217-E	85	150	36	255000	275000	46500	4500	3350	2.5
N317-E-M1	85	180	41	340000	325000	53000	5600	3850	5.3
NU317-E	85	180	41	320000	300000	40000	3600	4000	4.62
NU2317-E	85	180	60	435000	445000	75000	3600	3350	6.72
NU1018-M1	90	140	24	111000	124000	16800	8500	4550	1.31
N218-E	90	160	30	215000	217000	35000	4300	3950	2.37
NU218-E	90	160	30	215000	217000	28500	4300	3950	2.36
NU2218-E	90	160	40	285000	315000	52000	4300	3300	3.17
N318-E-M1	90	190	43	370000	350000	55000	5300	3750	6.19
NU318-E	90	190	43	370000	350000	44000	3400	3750	5.39
NU2318-E	90	190	64	510000	530000	86000	3400	3050	8.04
NU1019-M1	95	145	24	113000	130000	17300	8000	4350	1.41
N219-E	95	170	32	260000	265000	41500	3800	3700	2.89
NU219-E	95	170	32	260000	265000	34000	3800	3700	2.88
NU2219-E	95	170	43	340000	370000	60000	3800	3100	3.9
N319-E-M1	95	200	45	390000	380000	59000	5300	3600	7.05
NU319-E	95	200	45	390000	380000	48000	3400	3600	6.32
NU2319-E	95	200	67	540000	580000	93000	3400	2850	9.4
NU1020-M1	100	150	24	116000	135000	17900	7500	4150	1.46
N220-E	100	180	34	295000	305000	47500	3800	3500	3.5
NU220-E	100	180	34	295000	305000	38500	3800	3500	3.49
NU2220-E	100	180	46	395000	445000	72000	3800	2900	4.77
N320-E-M1	100	215	47	450000	425000	65000	5000	3400	8.75
NU320-E	100	215	47	450000	425000	53000	3200	3400	7.67
NU2320-E	100	215	73	680000	720000	114000	3200	2550	12.1
NU1021-M1	105	160	26	131000	153000	19400	7000	4050	1.84

Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU





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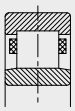
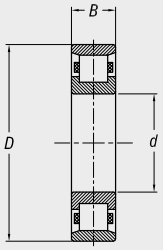
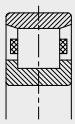


NU

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
N221-E-M1	105	190	36	310000	320000	49000	5600	3450	4.63
NU221-E	105	190	36	310000	320000	40000	3600	3450	4.08
NU1022-M1	110	170	28	166000	190000	24200	7000	3850	2.31
N222-E	110	200	38	345000	365000	56000	3400	3300	4.85
NU222-E	110	200	38	345000	365000	56000	3400	3300	4.84
NU2222-E	110	200	53	455000	520000	81000	3400	2800	6.76
N322-E-M1	110	240	50	520000	510000	78000	4800	3000	11.7
NU322-E	110	240	50	495000	475000	59000	3000	3100	10.3
NU2322-E	110	240	80	750000	800000	126000	2800	2320	16.6
NU1024-M1	120	180	28	174000	207000	26000	6300	3550	2.47
N224-E	120	215	40	390000	415000	64000	3200	3100	5.67
NU224-E	120	215	40	390000	415000	52000	3200	3100	5.8
NU2224-E	120	215	58	530000	610000	97000	3200	2550	8.38
N324-E-M1	120	260	55	610000	600000	87000	4500	2700	15.1
NU324-E	120	260	55	610000	600000	70000	2800	2700	13.3
NU2324-E-M1	120	260	86	930000	1010000	153000	4300	2000	23.2
NU1026-M1	130	200	33	212000	250000	31000	5600	3500	3.81
N226-E	130	230	40	425000	445000	65000	3000	2850	6.51
NU226-E	130	230	40	425000	445000	54000	3000	2850	6.5
NU2226-E	130	230	64	620000	730000	111000	3000	2300	10.4
N326-E-M1	130	280	58	720000	720000	103000	4300	2460	18.4
NU326-E	130	280	58	680000	670000	79000	2600	2460	16.2
NU2326-E-M1	130	280	93	1080000	1220000	180000	3800	1780	28.8
NU1028-M1	140	210	33	216000	265000	32000	5300	3250	3.94
N228-E-M1	140	250	42	460000	510000	72000	4800	2600	9.3
NU228-E-M1	140	250	42	460000	510000	59000	4800	2600	9.31
NU2228-E-M1	140	250	68	670000	830000	123000	4500	2080	14.5
N328-E-M1	140	300	62	790000	800000	113000	3800	2200	22.5
NU328-E	140	300	62	790000	800000	92000	2400	2200	20.1
NU2328-E-M1	140	300	102	1210000	1390000	202000	3600	1640	36
NU1030-M1	150	225	35	248000	310000	37000	5000	3100	4.93

Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU





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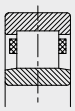
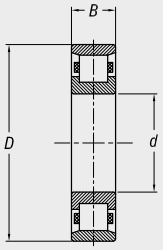
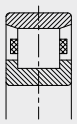


NU

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
N230-E-M1	150	270	45	520000	590000	82000	4500	2390	11.7
NU230-E-M1	150	270	45	520000	590000	68000	4500	2390	11.8
NU2230-E-M1	150	270	73	780000	970000	142000	4300	1860	18.4
N330-E-M1	150	320	65	900000	930000	126000	3600	1970	26.8
NU330-E-M1	150	320	65	900000	930000	103000	3600	1970	26.8
NU2330-E-M1	150	320	108	1380000	1600000	226000	3200	1480	43.2
NU1032-M1	160	240	38	290000	355000	42500	4800	3000	5.92
N232-E-M1	160	290	48	590000	670000	93000	4300	2190	14.6
NU232-E-M1	160	290	48	590000	670000	76000	4300	2190	14.6
NU2232-E-M1	160	290	80	940000	1170000	172000	3800	1670	23.5
N332-E-M1	160	340	68	865000	1060000	114000	3000	1790	32.6
NU332-E-M1	160	340	68	865000	1060000	96000	3000	1790	31.89
NU2332-E-M1	160	340	114	1320000	1830000	204000	3000	1350	51.5
NU1034-M1	170	260	42	350000	435000	49500	4500	2800	8.03
N234-E-M1	170	310	52	700000	780000	107000	3600	2010	18
NU234-E-M1	170	310	52	700000	780000	88000	3600	2010	18.1
NU2234-E-M1	170	310	86	1130000	1400000	198000	3200	1500	29.4
N334-E-M1	170	360	72	965000	1220000	132000	3000	1630	37.9
NU334-E-M1	170	360	72	965000	1220000	105000	3000	1630	38
NU2334-EX-M1	170	360	120	1500000	2080000	231000	2800	1230	61.4
NU1036-M1	180	280	46	425000	520000	61000	4500	2550	10.5
NU236-E-M1	180	320	52	730000	830000	93000	3600	1880	18.9
NU2236-E-M1	180	320	86	1180000	1490000	209000	3200	1390	30.5
NU336-E-M1	180	380	75	1040000	1320000	112000	2800	1520	43.9
NU2336-EX-M1	180	380	126	1660000	2320000	260000	2800	1130	71.8
NU1038-M1	190	290	46	435000	550000	63000	4300	2410	10.9
N238-E-M1	190	340	55	680000	930000	100000	3200	1750	22.8
NU238-E-M1	190	340	55	680000	930000	85000	3200	1750	22.8
NU2238-E-M1	190	340	92	1100000	1660000	184000	3000	1300	37.1
NU338-E-M1	190	400	78	1120000	1430000	120000	2800	1430	50.6
NU2338-EX-M1	190	400	132	1900000	2650000	285000	2600	1030	83.1

Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU





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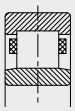
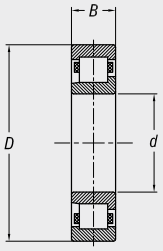


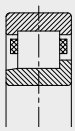
NU

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
NU1040-M1	200	310	51	470000	600000	68000	3800	2310	14.1
N240-E-M1	200	360	58	750000	1040000	110000	3000	1620	27.2
NU240-E-M1	200	360	58	750000	1040000	94000	3000	1620	27.2
NU2240-E-M1	200	360	98	1220000	1860000	206000	2800	1210	44.7
NU340-E-M1	200	420	80	1180000	1530000	128000	2600	1340	57.3
NU2340-EX-M1	200	420	138	2040000	2900000	310000	2400	960	95.6
NU1044-M1	220	340	56	510000	765000	69000	3200	2040	20.5
NU244-E-M1	220	400	65	950000	1320000	109000	2800	1400	38.5
NU2244-EX-M1	220	400	108	1630000	2360000	250000	2600	1020	61.6
NU344-E-M1	220	460	88	1430000	1900000	152000	2400	1160	75.5
NU2344-EX-M1	220	460	145	2360000	3350000	340000	2200	840	121
NU1048-M1	240	360	56	540000	850000	74000	3000	1840	19.8
N248-E-M1	240	440	72	31140000	1600000	163000	2600	1240	51.5
NU248-E-M1	240	440	72	31140000	1600000	132000	2600	1240	51.8
NU2248-EX-M1	240	440	120	31830000	2800000	295000	2400	910	82.8
NU348-E-M1	240	500	95	41730000	2280000	176000	2200	1010	95.7
NU2348-EX-M1	240	500	155	42600000	3750000	375000	2000	770	151
NU1052-M1	260	400	65	3655000	1020000	90000	2800	1690	29.7
NU252-E-M1	260	480	80	41340000	1900000	154000	2400	1120	68.4
NU2252-E-M1	260	480	130	42160000	3350000	345000	2200	790	109
NU352-E-M1	260	540	102	51900000	2600000	198000	2000	920	121
NU2352-EX-M1	260	540	165	53100000	4500000	435000	1800	670	189
NU1056-M1	280	420	65	3680000	1100000	96000	2800	1550	31.3
NU256-E-M1	280	500	80	41400000	2000000	163000	2200	1040	72.1
NU2256-E-M1	280	500	130	42280000	3600000	360000	2000	730	114
NU356-E-M1	280	580	108	52160000	3050000	224000	1900	810	147
NU2356-EX-M1	280	580	175	53550000	5200000	495000	1600	600	234
NU1060-M1	300	460	74	3900000	1430000	120000	2400	1390	44.6
NU260-E-M1	300	540	85	41600000	2320000	182000	2000	930	90.4
NU2260-EX-M1	300	540	140	42700000	4150000	395000	1900	660	143
NU1064-M1	320	480	74	3915000	1500000	124000	2400	1300	46.9

Größere Dimensionen bitte anfragen.

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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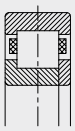
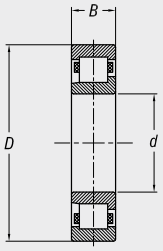
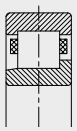


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NJ202-E		15	35	11	15100	10400	1460	22000	17600	0.049	
NJ202-E	HJ202-E	15	35	11	15100	10400	1460	22000	17600	0.049	0.005
NJ203-E		17	40	12	20800	14600	2100	18000	15400	0.07	
NJ203-E	HJ203-E	17	40	12	20800	14600	2100	18000	15400	0.07	0.008
NUP203-E		17	40	12	20800	14600	2100	18000	15400	0.073	
NJ2203-E		17	40	16	28500	21900	3500	18000	13300	0.053	
NJ2203-E	HJ2203-E	17	40	16	28500	21900	3500	18000	13300	0.053	0.008
NUP2203-E		17	40	16	28500	21900	3500	18000	13300	0.055	
NJ303-E		17	47	14	30000	21200	3300	16000	13700	0.124	
NJ303-E	HJ303-E	17	47	14	30000	21200	3300	16000	13700	0.124	0.014
NUP303-E		17	47	14	30000	21200	3300	16000	13700	0.142	
NJ204-E		20	47	14	32500	24700	3850	16000	13100	0.117	
NJ204-E	HJ204-E	20	47	14	32500	24700	3850	16000	13100	0.117	0.011
NUP204-E		20	47	14	32500	24700	3850	16000	13100	0.119	
NJ2204-E		20	47	18	38500	31000	5000	16000	11400	0.15	
NJ2204-E	HJ2204-E	20	47	18	38500	31000	5000	16000	11400	0.15	0.012
NUP2204-E		20	47	18	38500	31000	5000	16000	11400	0.154	
NJ304-E		20	52	15	36500	26000	4050	14000	12100	0.156	
NJ304-E	HJ304-E	20	52	15	36500	26000	4050	14000	12100	0.156	0.017
NUP304-E		20	52	15	36500	26000	4050	14000	12100	0.16	
NJ2304-E		20	52	21	48500	38000	6300	14000	9900	0.219	
NJ2304-E	HJ2304-E	20	52	21	48500	38000	6300	14000	9900	0.219	0.019
NUP2304-E		20	52	21	48500	38000	6300	14000	9900	0.224	
NJ205-E		25	52	15	34500	27500	4350	15000	11800	0.14	
NJ205-E	HJ205-E	25	52	15	34500	27500	4350	15000	11800	0.14	0.014
NUP205-E		25	52	15	34500	27500	4350	15000	11800	0.145	
NJ2205-E		25	52	18	41500	34500	5700	15000	9800	0.17	
NJ2205-E	HJ2205-E	25	52	18	41500	34500	5700	15000	9800	0.17	0.015
NUP2205-E		25	52	18	41500	34500	5700	15000	9800	0.174	
NJ305-E		25	62	17	48000	36500	5800	12000	10200	0.25	
NJ305-E	HJ305-E	25	62	17	48000	36500	5800	12000	10200	0.25	0.025

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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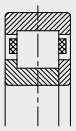
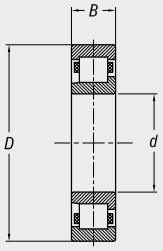
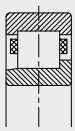


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NUP305-E		25	62	17	48000	36500	5800	12000	10200	0.256	
NJ2305-E		25	62	24	66000	55000	9400	12000	8400	0.356	
NJ2305-E	HJ2305-E	25	62	24	66000	55000	9400	12000	8400	0.356	0.027
NUP2305-E		25	62	24	66000	55000	9400	12000	8400	0.364	
NJ206-E		30	62	16	45000	36000	5700	12000	9800	0.213	
NJ206-E	HJ206-E	30	62	16	45000	36000	5700	12000	9800	0.213	0.024
NUP206-E		30	62	16	45000	36000	5700	12000	9800	0.219	
NJ2206-E		30	62	20	57000	48500	8100	12000	8200	0.261	
NJ2206-E	HJ2206-E	30	62	20	57000	48500	8100	12000	8200	0.261	0.025
NUP2206-E		30	62	20	57000	48500	8100	12000	8200	0.268	
NJ306-E		30	72	19	61000	48000	8000	10000	9000	0.376	
NJ306-E	HJ306-E	30	72	19	61000	48000	8000	10000	9000	0.376	0.042
NUP306-E		30	72	19	61000	48000	8000	10000	9000	0.385	
NJ2306-E		30	72	27	86000	75000	13200	10000	7300	0.54	
NJ2306-E	HJ2306-E	30	72	27	86000	75000	13200	10000	7300	0.54	0.044
NUP2306-E		30	72	27	86000	75000	13200	10000	7300	0.551	
NJ207-E		35	72	17	58000	48500	7900	10000	8300	0.309	
NJ207-E	HJ207-E	35	72	17	58000	48500	7900	10000	8300	0.309	0.032
NUP207-E		35	72	17	58000	48500	7900	10000	8300	0.317	
NJ2207-E		35	72	23	72000	64000	10800	10000	7300	0.416	
NJ2207-E	HJ2207-E	35	72	23	72000	64000	10800	10000	7300	0.416	0.035
NUP2207-E		35	72	23	72000	64000	10800	9000	7300	0.427	
NJ307-E		35	80	21	76000	63000	10700	9000	8100	0.496	
NJ307-E	HJ307-E	35	80	21	76000	63000	10700	9000	8100	0.496	0.06
NUP307-E		35	80	21	76000	63000	10700	9000	8100	0.506	
NJ2307-E		35	80	31	108000	98000	17400	9000	6700	0.736	
NJ2307-E	HJ2307-E	35	80	31	108000	98000	17400	9000	6700	0.736	0.063
NUP2307-E		35	80	31	108000	98000	17400	9000	6700	0.751	
NJ208-E		40	80	18	63000	53000	8700	9000	7600	0.389	
NJ208-E	HJ208-E	40	80	18	63000	53000	8700	9000	7600	0.389	0.049
NUP208-E		40	80	18	63000	53000	8700	9000	7600	0.399	

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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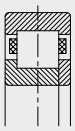
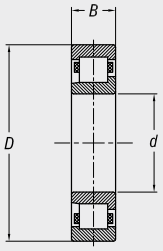
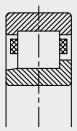


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NJ2208-E		40	80	23	83000	75000	12900	9000	6400	0.504	
NJ2208-E	HJ2208-E	40	80	23	83000	75000	12900	9000	6400	0.504	0.05
NUP2208-E		40	80	23	83000	75000	12900	9000	6400	0.518	
NJ308-E		40	90	23	95000	78000	12900	7500	7300	0.674	
NJ308-E	HJ308-E	40	90	23	95000	78000	12900	7500	7300	0.674	0.087
NUP308-E		40	90	23	95000	78000	12900	7500	7300	0.688	
NJ2308-E		40	90	33	132000	119000	20700	7500	6000	0.978	
NJ2308-E	HJ2308-E	40	90	33	132000	119000	20700	7500	6000	0.978	0.091
NUP2308-E		40	90	33	132000	119000	20700	7500	6000	0.999	
NJ209-E		45	85	19	72000	63000	10600	8500	7100	0.445	
NJ209-E	HJ209-E	45	85	19	72000	63000	10600	8500	7100	0.445	0.054
NUP209-E		45	85	19	72000	63000	10600	8500	7100	0.457	
NJ2209-E		45	85	23	87000	82000	14100	8500	5800	0.544	
NJ2209-E	HJ2209-E	45	85	23	87000	82000	14100	8500	5800	0.544	0.055
NUP2209-E		45	85	23	87000	82000	14100	8500	5800	0.559	
NJ309-E		45	100	25	108000	91000	15200	6700	6500	0.913	
NJ309-E	HJ309-E	45	100	25	108000	91000	15200	6700	6500	0.913	0.109
NUP309-E		45	100	25	115000	98000	16400	6700	6500	0.937	
NJ2309-E		45	100	36	162000	153000	27000	6700	5400	1.33	
NJ2309-E	HJ2309-E	45	100	36	162000	153000	27000	6700	5400	1.33	0.115
NUP2309-E		45	100	36	162000	153000	27000	6700	5400	1.36	
NJ210-E		50	90	20	75000	69000	11500	8000	6700	0.503	
NJ210-E	HJ210-E	50	90	20	75000	69000	11500	8000	6700	0.503	0.06
NUP210-E		50	90	20	75000	69000	11500	8000	6700	0.517	
NJ2210-E		50	90	23	92000	88000	15300	8000	5400	0.586	
NJ2210-E	HJ210-E	50	90	23	92000	88000	15300	8000	5400	0.586	0.06
NUP2210-E		50	90	23	92000	88000	15300	8000	5400	0.597	
NJ310-E		50	110	27	130000	113000	19100	6300	6100	1.19	
NJ310-E	HJ310-E	50	110	27	130000	113000	19100	6300	6100	1.19	0.149
NUP310-E		50	110	27	130000	113000	19100	6300	6100	1.21	
NJ2310-E		50	110	40	192000	187000	33000	6300	5000	1.77	

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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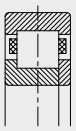
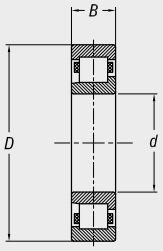
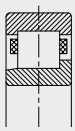


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NJ2310-E	HJ2310-E	50	110	40	192000	187000	33000	6300	5000	1.77	0.156
NUP2310-E		50	110	40	192000	187000	33000	6300	5000	1.82	
NJ211-E		55	100	21	99000	95000	16300	7000	5800	0.679	
NJ211-E	HJ211-E	55	100	21	99000	95000	16300	7000	5800	0.679	0.087
NUP211-E		55	100	21	99000	95000	16300	7000	5800	0.693	
NJ2211-E		55	100	25	117000	118000	20700	7000	4750	0.812	
NJ2211-E	HJ2211-E	55	100	25	117000	118000	20700	7000	4750	0.812	0.087
NUP2211-E		55	100	25	117000	118000	20700	7000	4750	0.828	
NJ311-E		55	120	29	159000	139000	23600	5600	6000	1.51	
NJ311-E	HJ311-E	55	120	29	159000	139000	23600	5600	6000	1.51	0.192
NUP311-E		55	120	29	159000	139000	23600	5600	5600	1.54	
NJ2311-E		55	120	43	235000	230000	41000	5600	4600	2.27	
NJ2311-E	HJ2311-E	55	120	43	235000	230000	41000	5600	4600	2.27	0.2
NUP2311-E		55	120	43	235000	230000	41000	5600	4600	2.31	
NJ212-E		60	110	22	111000	102000	16800	6300	5400	0.845	
NJ212-E	HJ212-E	60	110	22	111000	102000	16800	6300	5400	0.845	0.106
NUP212-E		60	110	22	111000	102000	16800	6300	5400	0.865	
NJ2212-E		60	110	28	151000	152000	26500	6300	4400	1.1	
NJ2212-E	HJ212-E	60	110	28	151000	152000	26500	6300	4400	1.1	0.106
NUP2212-E		60	110	28	151000	152000	26500	6300	4400	1.12	
NJ312-E		60	130	31	177000	157000	26500	5000	5300	1.89	
NJ312-E	HJ312-E	60	130	31	177000	157000	26500	5000	5300	1.89	0.229
NUP312-E		60	130	31	177000	157000	26500	5000	5300	1.93	
NJ2312-E		60	130	46	265000	260000	47000	5000	4300	2.83	
NJ2312-E	HJ2312-E	60	130	46	265000	260000	47000	5000	4300	2.83	0.238
NUP2312-E		60	130	46	265000	260000	47000	5000	4300	2.88	
NJ213-E		65	120	23	127000	119000	19800	6000	5000	1.06	
NJ213-E	HJ213-E	65	120	23	127000	119000	19800	6000	5000	1.06	0.127
NUP213-E		65	120	23	127000	119000	19800	6000	5000	1.09	
NJ2213-E		65	120	31	176000	181000	32000	5600	4150	1.46	
NJ2213-E	HJ2213-E	65	120	31	176000	181000	32000	5600	4150	1.46	0.13

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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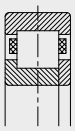
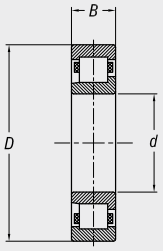
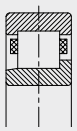


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NUP2213-E		65	120	31	176000	181000	32000	5600	4150	1.54	
NJ313-E		65	140	33	214000	191000	32000	4800	4900	2.32	
NJ313-E	HJ313-E	65	140	33	214000	191000	32000	4800	4900	2.32	0.285
NUP313-E		65	140	33	214000	191000	32000	4800	4900	2.37	
NJ2313-E		65	140	48	295000	285000	50000	4800	4050	3.38	
NJ2313-E	HJ2313-E	65	140	48	295000	285000	50000	4800	4050	3.38	0.303
NUP2313-E		65	140	48	295000	285000	50000	4800	4050	3.45	
NJ214-E		70	125	24	140000	137000	23100	5300	4750	1.18	
NJ214-E	HJ214-E	70	125	24	140000	137000	23100	5300	4750	1.18	0.155
NUP214-E		70	125	24	140000	137000	23100	5300	4750	1.2	
NJ2214-E		70	125	31	184000	194000	34000	5300	3900	1.54	
NJ2214-E	HJ2214-E	70	125	31	184000	194000	34000	5300	3900	1.54	0.157
NUP2214-E		70	125	31	184000	194000	34000	5300	3900	1.58	
NJ314-E		70	150	35	242000	222000	37000	4500	4550	2.84	
NJ314-E	HJ314-E	70	150	35	242000	222000	37000	4500	4550	2.84	0.328
NUP314-E		70	150	35	242000	222000	37000	4500	4550	2.89	
NJ2314-E		70	150	51	325000	325000	56000	4500	3850	4.1	
NJ2314-E	HJ2314-E	70	150	51	325000	325000	56000	4500	3850	4.1	0.352
NUP2314-E		70	150	51	325000	325000	56000	4500	3850	4.18	
NJ215-E		75	130	25	154000	156000	26500	5300	4500	1.3	
NJ215-E	HJ215-E	75	130	25	154000	156000	26500	5300	4500	1.3	0.164
NUP215-E		75	130	25	154000	156000	26500	5300	4500	1.33	
NJ2215-E		75	130	31	191000	207000	36000	5300	3700	1.64	
NJ2215-E	HJ2215-E	75	130	31	191000	207000	36000	5300	3700	1.64	0.165
NUP2215-E		75	130	31	191000	207000	36000	5300	3700	1.67	
NJ315-E		75	160	37	285000	265000	43000	4000	4200	3.39	
NJ315-E	HJ315-E	75	160	37	285000	265000	43000	4000	4200	3.39	0.407
NUP315-E		75	160	37	285000	265000	43000	4000	4200	3.45	
NJ2315-E		75	160	55	390000	395000	67000	4000	3600	5.04	
NJ2315-E	HJ2315-E	75	160	55	390000	395000	67000	4000	3600	5.04	0.436
NUP2315-E		75	160	55	390000	395000	67000	4000	3600	5.14	

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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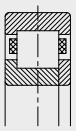
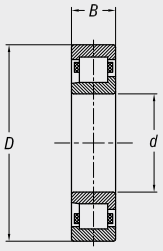
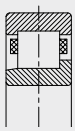


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NJ216-E		80	140	26	165000	167000	27500	4800	4250	1.58	
NJ216-E	HJ216-E	80	140	26	165000	167000	27500	4800	4250	1.58	0.22
NUP216-E		80	140	26	165000	167000	27500	4800	4250	1.62	
NJ2216-E		80	140	33	220000	243000	42000	4800	3450	2.04	
NJ2216-E	HJ216-E	80	140	33	220000	243000	42000	4800	3450	2.04	0.22
NUP2216-E		80	140	33	220000	243000	42000	4800	3450	2.08	
NJ316-E		80	170	39	300000	275000	46000	3800	4150	4.03	
NJ316-E	HJ316-E	80	170	39	300000	275000	46000	3800	4150	4.03	0.456
NUP316-E		80	170	39	300000	275000	46000	3800	4150	4.11	
NJ2316-E		80	170	58	420000	425000	73000	3800	3500	6	
NJ2316-E	HJ2316-E	80	170	58	420000	425000	73000	3800	3500	6	0.488
NUP2316-E		80	170	58	420000	425000	73000	3800	3500	6.11	
NJ217-E		85	150	28	194000	194000	31500	4500	4100	1.95	
NJ217-E	HJ217-E	85	150	28	194000	194000	31500	4500	4100	1.95	0.247
NUP217-E		85	150	28	194000	194000	31500	4500	4100	2.08	
NJ2217-E		85	150	36	255000	275000	46000	4500	3350	2.55	
NJ2217-E	HJ2217-E	85	150	36	255000	275000	46000	4500	3350	2.55	0.249
NUP2217-E		85	150	36	255000	275000	46000	4500	3350	2.6	
NJ317-E		85	180	41	320000	300000	49500	3600	4000	4.71	
NJ317-E	HJ317-E	85	180	41	320000	300000	49500	3600	4000	4.71	0.566
NUP317-E		85	180	41	320000	300000	49500	3600	4000	4.8	
NJ2317-E		85	180	60	435000	445000	75000	3600	3350	6.85	
NJ2317-E	HJ2317-E	85	180	60	435000	445000	75000	3600	3350	6.85	0.606
NUP2317-E		85	180	60	435000	445000	75000	3600	3350	6.99	
NJ218-E		90	160	30	215000	217000	35000	4300	3950	2.41	
NJ218-E	HJ218-E	90	160	30	215000	217000	35000	4300	3950	2.41	0.317
NUP218-E		90	160	30	215000	217000	35000	4300	3950	2.46	
NJ2218-E		90	160	40	285000	315000	52000	4300	3300	3.23	
NJ2218-E	HJ2218-E	90	160	40	285000	315000	52000	4300	3300	3.23	0.323
NUP2218-E		90	160	40	285000	315000	52000	4300	3300	3.29	
NJ318-E		90	190	43	370000	350000	55000	3400	3750	5.49	

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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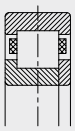
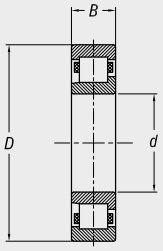
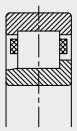


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NJ318-E	HJ318-E	90	190	43	370000	350000	55000	3400	3750	5.49	0.623
NUP318-E		90	190	43	370000	350000	55000	3400	3750	5.59	
NJ2318-E		90	190	64	510000	530000	86000	3400	3050	8.19	
NJ2318-E	HJ2318-E	90	190	64	510000	530000	86000	3400	3050	8.19	0.669
NUP2318-E		90	190	64	510000	530000	86000	3400	3050	8.35	
NJ219-E		95	170	32	260000	265000	41500	3800	3700	2.94	
NJ219-E	HJ219-E	95	170	32	260000	265000	41500	3800	3700	2.94	0.352
NUP219-E		95	170	32	260000	265000	41500	3800	3700	2.99	
NJ2219-E		95	170	43	340000	370000	60000	3800	3100	3.98	
NJ2219-E	HJ2219-E	95	170	43	340000	370000	60000	3800	3100	3.98	0.366
NUP2219-E		95	170	43	340000	370000	60000	3800	3100	4.05	
NJ319-E		95	200	45	390000	380000	59000	3400	3600	6.44	
NJ319-E	HJ319-E	95	200	45	390000	380000	59000	3400	3600	6.44	0.777
NUP319-E		95	200	45	390000	380000	59000	3400	3600	6.56	
NJ2319-E		95	200	67	540000	580000	92000	3400	2850	9.58	
NJ2319-E	HJ2319-E	95	200	67	540000	580000	92000	3400	2850	9.58	0.83
NUP2319-E		95	200	67	540000	580000	92000	3400	2850	9.77	
NJ220-E		100	180	34	295000	305000	47500	3800	3500	3.55	
NJ220-E	HJ220-E	100	180	34	295000	305000	47500	3800	3500	3.55	0.436
NUP220-E		100	180	34	295000	305000	47500	3800	3500	3.61	
NJ2220-E		100	180	46	395000	445000	72000	3800	2900	4.85	
NJ2220-E	HJ2220-E	100	180	46	395000	445000	72000	3800	2900	4.85	0.446
NUP2220-E		100	180	46	395000	445000	72000	3800	2900	4.92	
NJ320-E		100	215	47	450000	425000	65000	3200	3400	7.82	
NJ320-E	HJ320-E	100	215	47	450000	425000	65000	3200	3400	7.82	0.883
NUP320-E		100	215	47	450000	425000	65000	3200	3400	7.96	
NJ2320-E		100	215	73	680000	720000	114000	3200	2550	12.3	
NJ2320-E	HJ2320-E	100	215	73	680000	720000	114000	3200	2550	12.3	0.934
NUP2320-E		100	215	73	680000	720000	114000	3200	2550	12.5	
NJ221-E	HJ221-E	105	190	36	310000	320000	49000	3600	3450	4.17	
NJ221-E		105	190	36	310000	320000	49000	3600	3450	4.17	0.51

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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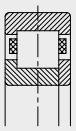
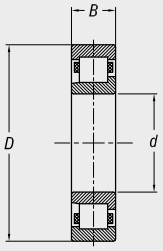
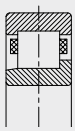


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NUP221-E		105	190	36	310000	320000	49000	3600	3450	4.26	
NJ222-E		110	200	38	345000	365000	55000	3400	3300	4.93	
NJ222-E	HJ222-E	110	200	38	345000	365000	55000	3400	3300	4.93	0.616
NUP222-E		110	200	38	345000	365000	55000	3400	3300	5.02	
NJ2222-E		110	200	53	455000	520000	81000	3400	2800	6.89	
NJ2222-E	HJ2222-E	110	200	53	455000	520000	81000	3400	2800	6.89	0.647
NUP2222-E		110	200	53	455000	520000	81000	3400	2800	7.02	
NJ322-E		110	240	50	495000	475000	73000	3000	3100	10.3	
NJ322-E	HJ322-E	110	240	50	495000	475000	73000	3000	3100	10.3	1.21
NUP322-E		110	240	50	495000	475000	73000	3000	3100	10.7	
NJ2322-E		110	240	80	750000	800000	126000	2800	2320	16.9	
NJ2322-E	HJ2322-E	110	240	80	750000	800000	126000	2800	2320	16.9	1.3
NUP2322-E		110	240	80	750000	800000	126000	2800	2320	17.2	
NJ224-E		120	215	40	390000	415000	64000	3200	3100	5.91	
NJ224-E	HJ224-E	120	215	40	390000	415000	64000	3200	3100	5.91	0.707
NUP224-E		120	215	40	390000	415000	64000	3200	3100	6.02	
NJ2224-E		120	215	58	530000	610000	96000	3200	2550	8.54	
NJ2224-E	HJ2224-E	120	215	58	530000	610000	96000	3200	2550	8.54	0.75
NUP2224-E		120	215	58	530000	610000	96000	3200	2550	8.7	
NJ324-E		120	260	55	610000	600000	87000	2800	2700	13.5	
NJ324-E	HJ324-E	120	260	55	610000	600000	87000	2800	2700	13.5	1.41
NUP324-E		120	260	55	610000	600000	87000	2800	2700	13.8	
NJ2324-E-M1		120	260	86	930000	1010000	153000	4300	2000	23.5	
NJ2324-E-M1	HJ2324-E	120	260	86	930000	1010000	153000	4300	2000	23.5	1.49
NUP2324-E-M1		120	260	86	930000	1010000	153000	4300	2000	23.8	
NJ226-E		130	230	40	425000	445000	65000	3000	2850	6.63	
NJ226-E	HJ226-E	130	230	40	425000	445000	65000	3000	2850	6.63	0.78
NUP226-E		130	230	40	425000	445000	65000	3000	2850	6.74	
NJ2226-E		130	230	64	620000	730000	111000	3000	2300	10.6	
NJ2226-E	HJ2226-E	130	230	64	620000	730000	111000	3000	2300	10.6	0.849
NUP2226-E		130	230	64	620000	730000	111000	3000	2300	10.8	

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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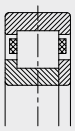
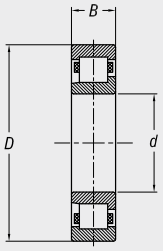
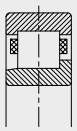


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NJ326-E		130	280	58	680000	670000	96000	2600	2460	16.5	
NJ326-E	HJ326-E	130	280	58	680000	670000	96000	2600	2460	16.5	1.64
NUP326-E		130	280	58	680000	670000	96000	2600	2460	16.7	
NJ2326-E-M1		130	280	93	1080000	1220000	180000	3800	1780	29.2	
NJ2326-E-M1	HJ2326-E	130	280	93	1080000	1220000	180000	3800	1780	29.2	1.77
NUP2326-E-M1		130	280	93	1080000	1220000	180000	3800	1780	29.7	
NJ228-E-M1		140	250	42	460000	510000	72000	4800	2600	9.46	
NJ228-E-M1	HJ228-E	140	250	42	460000	510000	72000	4800	2600	9.46	0.986
NUP228-E-M1		140	250	42	460000	510000	72000	4800	2600	9.61	
NJ2228-E-M1		140	250	68	670000	830000	123000	4500	2080	14.7	
NJ2228-E-M1	HJ2228-E	140	250	68	670000	830000	123000	4500	2080	14.7	1.08
NUP2228-E-M1		140	250	68	670000	830000	123000	4500	2080	16.8	
NJ328-E		140	300	62	790000	800000	113000	2400	2200	20.5	
NJ328-E	HJ328-E	140	300	62	790000	800000	113000	2400	2200	20.5	2.03
NUP328-E		140	300	62	790000	800000	113000	2400	2200	20.8	
NJ2328-E-M1		140	300	102	1210000	1390000	202000	3600	1640	36.6	
NJ2328-E-M1	HJ2328-E	140	300	102	1210000	1390000	202000	3600	1640	36.6	2.2
NUP2328-E-M1		140	300	102	1210000	1390000	202000	3600	1640	37.1	
NJ230-E-M1		150	270	45	520000	590000	82000	4500	2390	11.9	
NJ230-E-M1	HJ230-E	150	270	45	520000	590000	82000	4500	2390	11.9	1.26
NUP230-E-M1		150	270	45	520000	590000	82000	4500	2390	12.1	
NJ2230-E-M1		150	270	73	780000	970000	142000	4300	1860	18.7	
NJ2230-E-M1	HJ2230-E	150	270	73	780000	970000	142000	4300	1860	18.7	1.36
NUP2230-E-M1		150	270	73	780000	970000	142000	4300	1860	19.1	
NJ330-E-M1		150	320	65	900000	930000	126000	3600	1970	27.2	
NJ330-E-M1	HJ330-E	150	320	65	900000	930000	126000	3600	1970	27.2	2.33
NUP330-E-M1		150	320	65	900000	930000	126000	3600	1970	27.7	
NJ2330-E-M1		150	320	108	1380000	1600000	226000	3200	1480	43.8	
NJ2330-E-M1	HJ2330-E	150	320	108	1380000	1600000	226000	3200	1480	43.8	2.55
NUP2330-E-M1		150	320	108	1380000	1600000	226000	3200	1480	44.6	
NJ232-E-M1		160	290	48	590000	670000	93000	4300	2190	14.8	

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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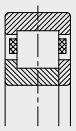
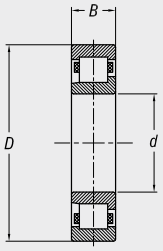
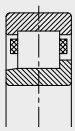


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NJ232-E-M1	HJ232-E	160	290	48	590000	670000	93000	4300	2190	14.8	1.47
NUP232-E-M1		160	290	48	590000	670000	93000	4300	2190	15.1	
NJ2232-E-M1		160	290	80	940000	1170000	171000	3800	1670	23.9	
NJ2232-E-M1	HJ2232-E	160	290	80	940000	1170000	171000	3800	1670	23.9	1.56
NUP2232-E-M1		160	290	80	940000	1170000	171000	3800	1670	24.3	
NJ332-E-M1		160	340	68	865000	1060000	114000	3000	1790	32.3	
NJ332-E-M1	HJ332-E	160	340	68	865000	1060000	114000	3000	1790	32.3	2.58
NJ2332-E-M1		160	340	114	1320000	1830000	204000	3000	1350	52.3	
NJ2332-E-M1	HJ2332-E	160	340	114	1320000	1830000	204000	3000	1350	52.3	2.85
NJ234-E-M1		170	310	52	700000	780000	107000	3600	2010	18.4	
NJ234-E-M1	HJ234-E	170	310	52	700000	780000	107000	3600	2010	18.4	1.58
NUP234-E-M1		170	310	52	700000	780000	107000	3600	2010	18.6	
NJ2234-E-M1		170	310	86	1130000	1400000	198000	3200	1500	29.8	
NJ2234-E-M1	HJ2234-E	170	310	86	1130000	1400000	198000	3200	1500	29.8	1.78
NUP2234-E-M1		170	310	86	1130000	1400000	198000	3200	1500	30.2	
NJ334-E-M1		170	360	72	965000	1220000	132000	3000	1630	38.6	
NJ334-E-M1	HJ334-E	170	360	72	965000	1220000	132000	3000	1630	38.6	3.21
NJ2334-EX-M1		170	360	120	1500000	2080000	230000	2800	1230	62.3	
NJ2334-EX-M1	HJ2334-EX	170	360	120	1500000	2080000	230000	2800	1230	62.3	3.53
NJ236-E-M1		180	320	52	730000	830000	112000	3600	1880	19.2	
NJ236-E-M1	HJ236-E	180	320	52	730000	830000	112000	3600	1880	19.2	1.76
NUP236-E-M1		180	320	52	730000	830000	112000	3600	1880	17.3	
NJ2236-E-M1		180	320	86	1180000	1490000	208000	3200	1390	30.9	
NJ2236-E-M1	HJ2236-E	180	320	86	1180000	1490000	208000	3200	1390	30.9	1.87
NUP2236-E-M1		180	320	86	1180000	1490000	208000	3200	1390	31.4	
NJ336-E-M1		180	380	75	1040000	1320000	141000	2800	1520	44.6	
NJ336-E-M1	HJ336E	180	380	75	1040000	1320000	141000	2800	1520	44.6	3.77
NJ2336-EX-M1		180	380	126	1660000	2320000	260000	2800	1130	72.9	
NJ2336-EX-M1	HJ2336-EX	180	380	126	1660000	2320000	260000	2800	1130	72.9	4.05
NJ238-E-M1		190	340	55	680000	930000	100000	3200	1750	23.2	
NJ238-E-M1	HJ238-E	190	340	55	680000	930000	100000	3200	1750	23.2	2.17

Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP





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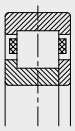
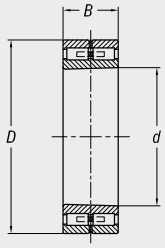
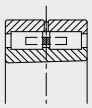


NUP

Type		Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Grenz-drehz. min–1	Bezugs-drehzahl min–1	Masse (kg) Lager	Winkelring
	Winkelring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m	m(WR)
NUP238-E-M1		190	340	55	680000	930000	100000	3200	1750	23.5	
NJ2238-E-M1		190	340	92	1100000	1660000	184000	3000	1300	37.7	
NJ2238-E-M1	HJ2238-E	190	340	92	1100000	1660000	184000	3000	1300	37.7	2.31
NJ2338-EX-M1		190	400	132	1900000	2650000	285000	2600	1030	84.4	
NJ2338-EX-M1	HJ2338-EX	190	400	132	1900000	2650000	285000	2600	1030	84.4	4.8
NJ240-E-M1		200	360	58	750000	1040000	110000	3000	1620	27.5	
NJ240-E-M1	HJ240-E	200	360	58	750000	1040000	110000	3000	1620	27.5	2.62
NUP240-E-M1		200	360	58	750000	1040000	110000	3000	1620	28	
NJ2240-E-M1		200	360	98	1220000	1860000	206000	2800	1210	45.3	
NJ2240-E-M1	HJ2240-E	200	360	98	1220000	1860000	206000	2800	1210	45.3	2.78
NJ340-E-M1		200	420	80	1180000	1530000	161000	2600	1340	58.1	
NJ340-E-M1	HJ340-E	200	420	80	1180000	1530000	161000	2600	1340	58.1	4.94
NJ2340-EX-M1		200	420	138	2040000	2900000	310000	2400	960	97.2	
NJ2340-EX-M1	HJ2340-EX	200	420	138	2040000	2900000	310000	2400	960	97.2	5.28
NJ244-E-M1		220	400	65	950000	1320000	134000	2800	1400	38.7	
NJ244-E-M1	HJ244-E	220	400	65	950000	1320000	134000	2800	1400	38.7	3.55
NUP244-E-M1		220	400	65	950000	1320000	134000	2800	1400	39.3	
NUP2244-EX-M1		220	400	108	1630000	2360000	250000	2600	1020	63.4	
NUP2344-EX-M1		220	460	145	2360000	3350000	340000	2200	840	124	
NJ248-E-M1		240	440	72	1140000	1600000	163000	2600	1240	52.5	
NJ248-E-M1	HJ248-E	240	440	72	1140000	1600000	163000	2600	1240	52.5	4.6
NJ348-E-M1		240	500	95	1730000	2280000	221000	2200	1010	97	
NJ348-E-M1	HJ348-E	240	500	95	1730000	2280000	221000	2200	1010	97	8.3
NJ252-E-M1		260	480	80	1340000	1900000	191000	2400	1120	69.4	5.92
NJ252-E-M1	HJ252-E	260	480	80	1340000	1900000	191000	2400	1120	69.4	
NJ356-E-M1		280	580	108	2160000	3050000	285000	1900	810	149	13.7
NJ356-E-M1	HJ356-E	280	580	108	2160000	3050000	285000	1900	810	149	

Hochgenauigkeitslager | 2-reihig | Reihe NN



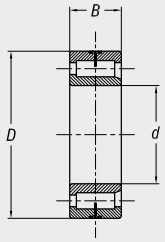


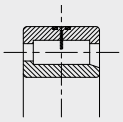
NN30..

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
NN3006-AS-K-M-SP	30	55	19	29000	34000	4800	16000	19000	0.191
NN3007-AS-K-M-SP	35	62	20	35500	44000	6500	14000	17000	0.249
NN3008-AS-K-M-SP	40	68	21	45000	58500	8400	12000	15000	0.303
NN3009-AS-K-M-SP	45	75	23	54000	72000	10700	11000	14000	0.393
NN3010-AS-K-M-SP	50	80	23	57000	80000	11800	10000	13000	0.426
NN3011-AS-K-M-SP	55	90	26	72000	100000	15600	9000	11000	0.63
NN3012-AS-K-M-SP	60	95	26	75000	110000	17200	8500	10000	0.674
NN3013-AS-K-M-SP	65	100	26	76500	116000	18000	8000	9500	0.715
NN3014-AS-K-M-SP	70	110	30	98000	150000	22400	7000	8500	1.04
NN3015-AS-K-M-SP	75	115	30	100000	156000	23400	6700	8000	1.09
NN3016-AS-K-M-SP	80	125	34	120000	186000	28500	6300	7500	1.51
NN3017-AS-K-M-SP	85	130	34	125000	200000	30500	6000	7000	1.58
NN3018-AS-K-M-SP	90	140	37	140000	224000	36000	5600	6700	2.05
NN3019-AS-K-M-SP	95	145	37	143000	236000	37000	5300	6300	2.14
NN3020-AS-K-M-SP	100	150	37	146000	245000	38000	5300	6300	2.23
NN3021-AS-K-M-SP	105	160	41	190000	310000	46000	4800	5600	2.84
NN3022-AS-K-M-SP	110	170	45	220000	360000	54000	4500	5300	3.61
NN3024-AS-K-M-SP	120	180	46	232000	390000	57000	4300	5000	3.94
NN3026-AS-K-M-SP	130	200	52	290000	500000	72000	3800	4500	5.79
NN3028-AS-K-M-SP	140	210	53	300000	520000	74000	3600	4300	6.22
NN3030-AS-K-M-SP	150	225	56	335000	585000	83000	3400	4000	7.58
NN3032-AS-K-M-SP	160	240	60	375000	670000	93000	3200	3800	9.23
NN3034-AS-K-M-SP	170	260	67	450000	800000	111000	3000	3600	12.5
NN3036-AS-K-M-SP	180	280	74	570000	1000000	134000	2800	3400	16.4
NN3038-AS-K-M-SP	190	290	75	585000	1040000	138000	2600	3200	17.3
NN3040-AS-K-M-SP	200	310	82	655000	1200000	161000	2400	3000	22.2
NN3044-AS-K-M-SP	220	340	90	800000	1460000	187000	2200	2800	29.1
NN3048-AS-K-M-SP	240	360	92	850000	1560000	199000	2000	2600	31.6
NN3052-AS-K-M-SP	260	400	104	1060000	2000000	249000	1900	2400	46.2
NN3056-AS-K-M-SP	280	420	106	1080000	2080000	255000	1800	2200	49.7
NN3060-AS-K-M-SP	300	460	118	1270000	2400000	290000	1600	1900	68.8

Größere Dimensionen bitte anfragen.

Zylinderrollenlager mit Scheibenkäfig | Reihe LSL

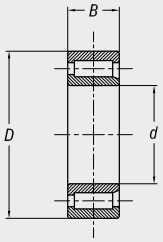


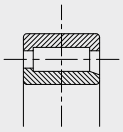


LSL

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
LSL192316	80	170	58	475000	495000	89000	5700	8800	6.1
LSL192317	85	180	60	500000	520000	90000	5400	8300	7.3
LSL192318	90	190	64	590000	610000	104000	5000	7900	8.6
LSL192319	95	200	67	610000	660000	112000	4750	7500	10
LSL192320	100	215	73	750000	790000	133000	6300	3300	12.8
LSL192322	110	240	80	880000	940000	151000	5700	2950	17.3
LSL192324	120	260	86	1060000	1150000	181000	5300	2600	22
LSL192326	130	280	93	1190000	1300000	200000	4900	2400	27.2
LSL192328	140	300	102	1340000	1470000	224000	4550	2240	34
LSL192330	150	320	108	1420000	1780000	199000	4250	2010	40.7
LSL192332	160	340	114	1600000	2020000	224000	4000	1850	48.1
LSL192334	170	360	120	1750000	2230000	241000	3750	1720	57.5
LSL192336	180	380	126	1850000	2440000	260000	3550	1610	67.4
LSL192338	190	400	132	2110000	2750000	295000	3400	1490	78.1
LSL192340	200	420	138	2350000	3050000	315000	3250	1390	89.3
LSL192344	220	460	145	2500000	3200000	320000	2950	1280	108
LSL192348	240	500	155	2750000	3550000	350000	2700	1170	138.6
LSL192352	260	540	165	3400000	4400000	425000	2500	1020	168
LSL192356	280	580	175	3700000	4850000	460000	2330	950	206.6
LSL192360	300	620	185	4150000	5600000	510000	2170	850	253

Zylinderrollenlager mit Zwischenstücken | Reihe ZSL

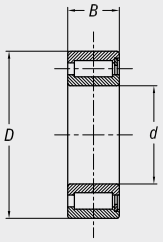


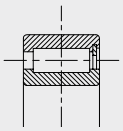


ZSL

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
ZSL192305	25	62	24	68000	55000	8700	16100	9600	0.36
ZSL192306	30	72	27	94000	81000	13400	13700	8300	0.55
ZSL192307	35	80	31	118000	104000	17500	12200	7700	0.72
ZSL192308	40	90	33	160000	144000	25000	10800	6600	1
ZSL192309	45	100	36	171000	160000	27500	9700	6200	1.34
ZSL192310	50	110	40	219000	202000	35500	8800	5800	1.76
ZSL192311	55	120	43	255000	236000	42000	8000	5400	2.22
ZSL192312	60	130	46	270000	260000	46500	7400	5100	2.82
ZSL192313	65	140	48	335000	330000	59000	6800	4650	3.44
ZSL192314	70	150	51	365000	365000	64000	6400	4450	4.27
ZSL192315	75	160	55	435000	440000	78000	6000	4200	5.2
ZSL192316	80	170	58	510000	520000	90000	5600	3900	6.2
ZSL192317	85	180	60	540000	570000	96000	5300	3700	7.23
ZSL192318	90	190	64	590000	610000	104000	5000	3550	8.7
ZSL192319	95	200	67	620000	670000	112000	4750	3300	10
ZSL192320	100	215	73	750000	800000	133000	4450	3050	12.7
ZSL192322	110	240	80	890000	910000	144000	4000	2700	16.5
ZSL192324	120	260	86	1060000	1150000	181000	3700	2380	21.9

Zylinderrollenlager vollrollig | 1 -reihig | Reihe SL 18..

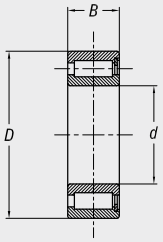


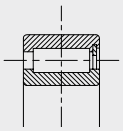


SL 18..

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
SL183004	20	42	16	30500	26500	4450	10500	7400	0.11
SL182204	20	47	18	45500	37500	6100	9700	6500	0.16
SL183005	25	47	16	35000	32500	5500	9000	6200	0.12
SL182205	25	52	18	51000	45000	7400	8400	5500	0.18
SL192305	25	62	24	73000	60000	9400	7400	4650	0.37
SL183006	30	55	19	45000	43000	7500	7600	5600	0.2
SL182206	30	62	20	70000	65000	10200	7000	4550	0.3
SL192306	30	72	27	100000	88000	14500	6400	3950	0.56
SL183007	35	62	20	55000	55000	9400	6700	4850	0.26
SL182207	35	72	23	88000	79000	12700	6100	4200	0.44
SL192307	35	80	31	126000	112000	19000	5600	3700	0.74
SL183008	40	68	21	66000	68000	11200	6000	4300	0.31
SL182208	40	80	23	97000	93000	14900	5400	3600	0.55
SL192308	40	90	33	170000	156000	27000	5000	3150	1.01
SL183009	45	75	23	70000	76000	12500	5400	4050	0.4
SL182209	45	85	23	101000	99000	16000	5000	3300	0.59
SL192309	45	100	36	181000	169000	30000	4450	3000	1.37
SL183010	50	80	23	88000	96000	15100	5000	3550	0.43
SL182210	50	90	23	109000	113000	18100	4650	3000	0.64
SL192310	50	110	40	232000	219000	38500	4050	2750	1.81
SL183011	55	90	26	120000	136000	22600	4450	3150	0.64
SL182211	55	100	25	140000	150000	25000	4200	2650	0.87
SL192311	55	120	43	270000	255000	45500	3700	2550	2.28
SL182912	60	85	16	63000	78000	13700	4450	2800	0.29
SL183012	60	95	26	123000	145000	23700	4200	2950	0.69
SL182212	60	110	28	169000	180000	31000	3800	2550	1.18
SL192312	60	130	46	285000	280000	50000	3400	2450	2.88
SL182913	65	90	16	67000	86000	15100	4200	2600	0.31
SL183013	65	100	26	130000	159000	26000	3950	2700	0.73
SL182213	65	120	31	198000	214000	37000	3500	2410	1.57
SL192313	65	140	48	350000	355000	63000	3150	3200	3.52

Zylinderrollenlager vollrollig | 1 -reihig | Reihe SL 18..

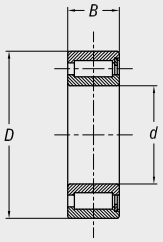


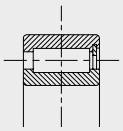


SL 18..

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
SL182914	70	100	19	88000	114000	18800	3800	2490	0.49
SL183014	70	110	30	153000	176000	29500	3600	2700	1.02
SL182214	70	125	31	184000	227000	32000	3300	2270	1.66
SL192314	70	150	51	385000	390000	69000	2950	2110	4.33
SL182915	75	105	19	91000	121000	20100	3600	2340	0.52
SL183015	75	115	30	162000	194000	32500	3400	2500	1.06
SL182215	75	130	31	190000	241000	33500	3150	2140	1.75
SL192315	75	160	55	460000	465000	83000	2750	1980	5.3
SL182916	80	110	19	94000	129000	21400	3400	2190	0.55
SL183016	80	125	34	173000	225000	31000	3150	2470	1.43
SL182216	80	140	33	226000	285000	38500	2950	2000	2.15
SL192316	80	170	58	540000	560000	96000	2600	1840	6.32
SL182917	85	120	22	118000	162000	25500	3150	2130	0.81
SL183017	85	130	34	178000	237000	32000	3000	2330	1.51
SL182217	85	150	36	255000	325000	44500	2750	1930	2.74
SL192317	85	180	60	570000	620000	103000	2450	1740	7.34
SL182918	90	125	22	122000	172000	26500	3000	2010	0.84
SL183018	90	140	37	208000	280000	38000	2800	2220	1.97
SL182218	90	160	40	290000	370000	51000	2600	1900	3.48
SL192318	90	190	64	620000	660000	112000	2310	1660	8.83
SL182919	95	130	22	132000	179000	27500	2900	1910	0.86
SL182219	95	170	43	340000	435000	58000	2450	1800	4.17
SL192319	95	200	67	650000	720000	120000	2200	1560	10.2
SL182920	100	140	24	152000	206000	31500	2700	1850	1.14
SL183020	100	150	37	219000	310000	40500	2600	2010	2.15
SL182220	100	180	46	395000	520000	70000	2310	1700	5.13
SL192320	100	215	73	790000	860000	143000	2060	1420	13
SL182922	110	150	24	155000	220000	34000	2490	1690	1.23
SL183022	110	170	45	285000	395000	52000	2310	1950	3.5
SL182222	110	200	53	455000	590000	78000	2090	1660	7.24
SL192322	110	240	80	950000	980000	156000	1850	1280	17

Zylinderrollenlager vollrollig | 1 -reihig | Reihe SL 18..

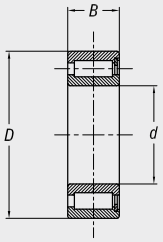


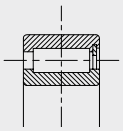


SL 18..

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
SL182924	120	165	27	199000	295000	45500	2270	1550	1.73
SL183024	120	180	46	300000	435000	56000	2160	1820	3.8
SL182224	120	215	58	540000	730000	95000	1930	1470	9.08
SL192324	120	260	86	1130000	1240000	195000	1710	1110	22.3
SL182926	130	180	30	238000	355000	54000	2090	1470	2.33
SL183026	130	200	52	435000	620000	79000	1960	1590	5.65
SL182226	130	230	64	630000	860000	110000	1800	1350	11.25
SL182928	140	190	30	260000	385000	57000	1960	1360	2.42
SL183028	140	210	53	455000	680000	85000	1850	1460	6.04
SL182228	140	250	68	720000	1020000	127000	1660	1190	14.47
SL182930	150	210	36	340000	490000	73000	1800	1340	3.77
SL183030	150	225	56	480000	710000	88000	1730	1380	7.33
SL182230	150	270	73	830000	1180000	146000	1540	1080	18.43
SL182932	160	220	36	350000	520000	77000	1710	1260	4
SL183032	160	240	60	550000	820000	99000	1620	1260	8.8
SL182232	160	290	80	1030000	1490000	178000	1440	950	23
SL182934	170	230	36	365000	560000	80000	1620	1180	4.3
SL183034	170	260	67	710000	1070000	129000	1510	1110	12.2
SL182234	170	310	86	1150000	1680000	199000	1350	870	28.65
SL182936	180	250	42	455000	690000	100000	1510	1120	6.2
SL183036	180	280	74	820000	1260000	149000	1410	1010	16.1
SL182236	180	320	86	1190000	1780000	204000	1300	820	29.8
SL182938	190	260	42	510000	790000	112000	1440	1010	6.5
SL183038	190	290	75	840000	1320000	155000	1350	960	17
SL182238	190	340	92	1310000	1920000	223000	1220	780	35.65
SL181840	200	250	24	183000	330000	33500	1440	1020	2.57
SL182940	200	280	48	610000	960000	134000	1350	930	9.1
SL183040	200	310	82	960000	1530000	178000	1270	880	21.8
SL182240	200	360	98	1420000	2040000	235000	1160	740	43.12
SL181844	220	270	24	192000	365000	36000	1320	920	2.8
SL182944	220	300	48	650000	1050000	144000	1250	830	9.9

Zylinderrollenlager vollrollig | 1 -reihig | Reihe SL 18..



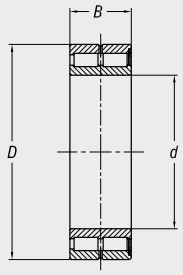


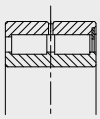
SL 18..

Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
SL183044	220	340	90	1160000	1840000	209000	1160	780	28.4
SL181848-E	240	300	28	265000	490000	51000	1200	900	4.29
SL182948	240	320	48	610000	1140000	124000	1160	750	10.6
SL183048	240	360	92	1220000	2010000	224000	1080	710	30.9
SL181852-E	260	320	28	275000	530000	54000	1120	820	4.61
SL182952	260	360	60	790000	1470000	160000	1050	680	18.5
SL183052	260	400	104	1620000	2550000	280000	980	610	44.5
SL181856-E	280	350	33	355000	670000	69000	1030	750	6.89
SL182956	280	380	60	920000	1740000	184000	980	590	19.7
SL183056	280	420	106	1670000	2700000	290000	930	570	48
SL181860-E	300	380	38	455000	840000	86000	950	700	9.79
SL182960	300	420	72	1180000	2230000	235000	900	530	31.2
SL183060	300	460	118	2040000	3350000	325000	850	500	66.6
SL181864-E	320	400	38	470000	900000	90000	900	640	10.36
SL182964	320	440	72	1220000	2370000	246000	850	485	32.9
SL183064	320	480	121	2100000	3500000	340000	810	475	71.7
SL181868-E	340	420	38	485000	960000	94000	850	600	10.93
SL182968	340	460	72	1260000	2500000	255000	810	455	34.7
SL183068	340	520	133	2500000	4150000	400000	750	430	95.8
SL181872-E	360	440	38	500000	1010000	98000	810	550	11.49
SL182972	360	480	72	1290000	2650000	265000	770	420	36.4
SL183072	360	540	134	2550000	4350000	410000	720	405	101
SL181876-E	380	480	46	650000	1290000	126000	750	510	18.87
SL182976	380	520	82	1670000	3350000	335000	720	375	52.1
SL183076	380	560	135	2600000	4500000	425000	690	385	106
SL181880-E	400	500	46	660000	1340000	130000	720	475	19.81
SL182980	400	540	82	1730000	3560000	350000	690	350	54.3
SL183080	400	600	148	3100000	5400000	500000	650	345	140
SL181884-E	420	520	46	680000	1420000	135000	690	450	20.6
SL182984	420	560	82	1750000	3600000	355000	660	335	56.9
SL181888-E	440	540	46	700000	1470000	139000	660	420	21.54

Größere Dimensionen bitte anfragen.

Zylinderrollenlager vollrollig | 2 -reihig | Reihe SL 18..

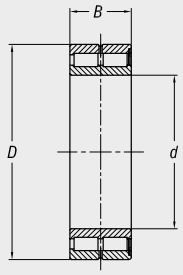


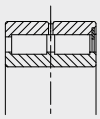


SL 18..

Stützlager	Festlager	Loslager	DIN 5412	Abmessungen (mm)			Tragzahlen (N)		Ermüd.-grenzbelastg (N)	Grenzdrehzahl min–1	Bezugsdrehz. min–1	Masse (kg)
				d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
SL185004*	–	–	–	20	42	30	53000	53000	8900	10500	7300	0.2
SL185005*	–	–	–	25	47	30	60000	65000	11100	9000	6100	0.23
SL185006*	–	–	–	30	55	34	78000	84000	15000	7600	5300	0.35
SL185007*	–	–	–	35	62	36	94000	109000	18800	6700	4650	0.46
SL185008*	–	–	–	40	68	38	113000	136000	22400	6000	4100	0.56
SL185009*	–	–	–	45	75	40	120000	151000	24900	5400	3800	0.71
SL185010*	–	–	–	50	80	40	151000	191000	30000	5000	3300	0.76
SL185011*	–	–	–	55	90	46	206000	275000	45000	4450	2950	1.16
–	SL014912	–	NNC4912V	60	85	25	71000	125000	17300	4450	2600	0.49
–	–	SL024912	NNCL4912V	60	85	25	71000	125000	17300	4450	2600	0.47
SL185012*	–	–	–	60	95	46	212000	290000	47500	4200	2750	1.24
SL185013*	–	–	–	65	100	46	223000	320000	52000	3550	2550	1.32
–	SL014914	–	NNC4914V	70	100	30	108000	189000	27000	3800	2310	0.78
–	–	SL024914	NNCL4914V	70	100	30	108000	189000	27000	3800	2310	0.75
SL185014*	–	–	–	70	110	54	265000	355000	59000	3600	2600	1.85
SL185015*	–	–	–	75	115	54	275000	390000	65000	3400	2390	1.93
–	SL014916	–	NNC4916V	80	110	30	115000	211000	30000	3400	2030	0.88
–	–	SL024916	NNCL4916V	80	110	30	115000	211000	30000	3400	2030	0.85
SL185016	–	–	–	80	125	60	295000	450000	62000	3150	2310	2.59
SL185017	–	–	–	85	130	60	305000	475000	64000	3000	2190	2.72
–	SL014918	–	NNC4918V	90	125	35	155000	295000	39000	3000	1850	1.35
	–	SL024918	NNCL4918V	90	125	35	155000	295000	39000	3000	1850	1.3
SL185018	–	–	–	90	140	67	355000	560000	76000	2800	2120	3.62
–	SL014920	–	NNC4920V	100	140	40	196000	380000	47500	2700	1720	1.95
–	–	SL024920	NNCL4920V	100	140	40	196000	380000	47500	2700	1720	1.9
SL185020	–	–	–	100	150	67	375000	620000	81000	2600	1900	3.94
–	SL014922	–	NNC4922V	110	150	40	204000	410000	50000	2490	1570	2.15
–	–	SL024922	NNCL4922V	110	150	40	204000	410000	50000	2490	1570	2.1
SL185022	–	–	–	110	170	80	490000	790000	104000	2310	1680	6.32
–	SL014924	–	NNC4924V	120	165	45	228000	455000	55000	2270	1540	2.95
–	–	SL024924	NNCL4924V	120	165	45	228000	455000	55000	2270	1540	2.85

Zylinderrollenlager vollrollig | 2 -reihig | Reihe SL 18..

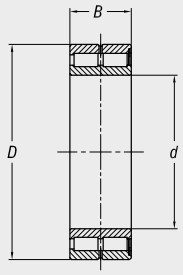


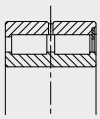


SL 18..

Stützlager	Festlager	Loslager	DIN 5412	Abmessungen (mm)			Tragzahlen (N)		Ermüd.-grenz-belastg (N)	Grenz-dreh-zahl min–1	Be-zugs-drehz. min–1	Masse (kg)
				d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
SL185024	–	–	–	120	180	80	520000	870000	111000	2160	1510	6.77
–	SL014926	–	NNC4926V	130	180	50	265000	530000	63000	2090	1480	3.95
–	–	SL024926	NNCL4926V	130	180	50	265000	530000	63000	2090	1480	3.8
SL185026	–	–	–	130	200	95	740000	1230000	185000	1960	1300	10.2
–	SL014928	–	NNC4928V	140	190	50	275000	570000	66000	1960	1360	4.2
–	–	SL024928	NNCL4928V	140	190	50	275000	570000	66000	1960	1360	4.1
SL185028	–	–	–	140	210	95	780000	1360000	169000	1850	1170	11.1
–	SL014830	–	NNC4830V	150	190	40	237000	550000	62000	1910	1240	2.9
–	–	SL024830	NNCL4830V	150	190	40	237000	550000	62000	1910	1240	2.8
–	SL014930	–	NNC4930V	150	210	60	415000	840000	98000	1800	1180	6.65
–	–	SL024930	NNCL4930V	150	210	60	415000	840000	98000	1800	1180	6.45
SL185030	–	–	–	150	225	100	810000	1390000	175000	1730	1110	13.3
–	SL014832	–	NNC4832V	160	200	40	243000	580000	64000	1800	1170	3.1
–	–	SL024832	NNCL4832V	160	200	40	243000	580000	64000	1800	1170	3
–	SL014932	–	NNC4932V	160	220	60	435000	900000	104000	1710	1090	7
–	–	SL024932	NNCL4932V	160	220	60	435000	900000	104000	1710	1090	6.8
–	SL014834	–	NNC4834V	170	215	45	265000	620000	68000	1680	1160	4.1
–	–	SL024834	NNCL4834V	170	215	45	265000	620000	68000	1680	1160	3.95
–	SL014934	–	NNC4934V	170	230	60	445000	950000	108000	1620	1110	7.35
–	–	SL024934	NNCL4934V	170	230	60	445000	950000	108000	1620	1010	7.1
–	SL014836	–	NNC4836V	180	225	45	275000	660000	72000	1600	1070	4.3
–	–	SL024836	NNCL4836V	180	225	45	275000	660000	72000	1600	1070	4.15
–	SL014936	–	NNC4936V	180	250	69	580000	1230000	140000	1510	910	10.8
–	–	SL024936	NNCL4936V	180	250	69	580000	1230000	140000	1510	910	10.5
–	SL014838	–	NNC4838V	190	240	50	315000	750000	81000	1510	1020	5.65
–	–	SL024838	NNCL4838V	190	240	50	315000	750000	81000	1510	1020	5.45
–	SL014938	–	NNC4938V	190	260	69	590000	1290000	145000	1440	850	11.2
–	–	SL024938	NNCL4938V	190	260	69	590000	1290000	145000	1440	850	10.9
–	SL014840	–	NNC4840V	200	250	50	325000	790000	84000	1440	950	5.9
–	–	SL024840	NNCL4840V	200	250	50	325000	790000	84000	1440	950	5.7
–	SL014940	–	NNC4940V	200	280	80	690000	1480000	165000	1350	820	15.8

Zylinderrollenlager vollrollig | 2 -reihig | Reihe SL 18..



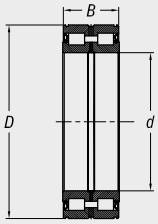


SL 18..

Stützlager	Festlager	Loslager	DIN 5412	Abmessungen (mm)			Tragzahlen (N)		Ermüd.-grenz-belastg (N)	Grenz-dreh-zahl min–1	Be-zugs-drehz. min–1	Masse (kg)
				d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
–	–	SL024940	NNCL4940V	200	280	80	690000	1480000	165000	1350	820	15.3
–	SL014844	–	NNC4844V	220	270	50	340000	870000	90000	1320	840	6.4
–	–	SL024844	NNCL4844V	220	270	50	340000	870000	90000	1320	840	6.2
–	SL014944	–	NNC4944V	220	300	80	720000	1590000	174000	1250	730	17.2
–	–	SL024944	NNCL4944V	220	300	80	720000	1590000	174000	1250	730	16.7
–	SL014848	–	NNC4848V	240	300	60	520000	1290000	134000	1200	720	10
–	–	SL024848	NNCL4848V	240	300	60	520000	1290000	134000	1200	720	9.9
–	SL014948	–	NNC4948V	240	320	80	750000	1740000	186000	1160	660	18.5
–	–	SL024948	NNCL4948V	240	320	80	750000	1740000	186000	1160	660	17.9
–	SL014852	–	NNC4852V	260	320	60	540000	1400000	143000	1120	650	11
–	–	SL024852	NNCL4852V	260	320	60	540000	1400000	143000	1120	650	10.6
–	SL014952	–	NNC4952V	260	360	100	1120000	2500000	270000	1050	570	32
–	–	SL024952	NNCL4952V	260	360	100	1120000	2500000	270000	1050	570	31.2
–	SL014856	–	NNC4856V	280	350	69	710000	1860000	189000	1030	570	16
–	–	SL024856	NNCL4856V	280	350	69	710000	1860000	189000	1030	570	15.6
–	SL014956	–	NNC4956V	280	380	100	1170000	2700000	285000	980	520	34
–	–	SL024956	NNCL4956V	280	380	100	1170000	2700000	285000	980	520	33.1
–	SL014860	–	NNC4860V	300	380	80	830000	2120000	214000	950	540	23
–	–	SL024860	NNCL4860V	300	380	80	830000	2120000	214000	950	540	22
–	SL014960	–	NNC4960V	300	420	118	1650000	3800000	390000	900	435	53
–	–	SL024960	NNCL4960V	300	420	118	1650000	3800000	390000	900	435	51.9
–	SL014864	–	NNC4864V	320	400	80	860000	2280000	225000	900	490	24
–	–	SL024864	NNCL4864V	320	400	80	860000	2280000	225000	900	490	23.5
–	SL014964	–	NNC4964V	320	440	118	1720000	4100000	415000	850	400	56
–	–	SL024964	NNCL4964V	320	440	118	1720000	4100000	415000	850	400	54.9
–	SL014868	–	NNC4868V	340	420	80	880000	2390000	233000	850	460	25.5
–	–	SL024868	NNCL4868V	340	420	80	880000	2390000	233000	850	460	25
–	SL014968	–	NNC4968V	340	460	118	1770000	4300000	430000	810	375	59
–	–	SL024968	NNCL4968V	340	460	118	1770000	4300000	430000	810	375	57.8
–	SL014872	–	NNC4872V	360	440	80	910000	2550000	244000	810	425	27
–	–	SL024872	NNCL4872V	360	440	80	910000	2550000	244000	810	425	26

Größere Dimensionen bitte anfragen.

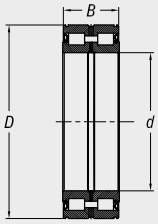
Zylinderrollenlager mit Ringnuten | vollrollig, abgedichtet | Reihe SL 04..PP



SL 04..PP

Type			Abmessungen			Tragzahlen		Ermüdungs-grenzbelastg	Grenz-drehzahl	Masse
	Sprengring	*Sicherungsring*	*(mm)*			*(N)*		*(N)*	*min–1*	*(kg)*
	WRE	Si-ring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG (Fett)	m
SL045004-PP	WRE42	42X1.75	20	42	30	40500	49000	6900	4000	0.2
SL045005-PP	WRE47	47X1.75	25	47	30	44500	58000	8100	3600	0.24
SL045006-PP	WRE55	55X2	30	55	34	50000	67000	9500	3000	0.37
SL045007-PP	WRE62	62X2	35	62	36	63000	88000	12400	2600	0.48
SL045008-PP	WRE68	68X2.5	40	68	38	76000	103000	16000	2400	0.56
SL045009-PP	WRE75	75X2.5	45	75	40	92000	130000	19900	2200	0.7
SL045010-PP	WRE80	80X2.5	50	80	40	97000	142000	21700	2000	0.76
SL045011-PP	WRE90	90X3	55	90	46	115000	175000	25500	1800	1.18
SL045012-PP	WRE95	95X3	60	95	46	120000	189000	27500	1700	1.26
SL045013-PP	WRE100	100X3	65	100	46	125000	203000	29500	1600	1.33
SL045014-PP	WRE110	110X4	70	110	54	168000	265000	36000	1400	1.87
SL045015-PP	WRE115	115X4	75	115	54	194000	300000	42000	1400	1.96
SL045016-PP	WRE125	125X4	80	125	60	203000	325000	45000	1300	2.71
SL045017-PP	WRE130	130X4	85	130	60	211000	350000	47500	1200	2.83
SL045018-PP	WRE140	140X4	90	140	67	305000	510000	69000	1100	3.71
SL045019-PP	WRE145	145X4	95	145	67	315000	530000	71000	1100	3.88
SL045020-PP	WRE150	150X4	100	150	67	330000	550000	73000	1000	3.95
SL045022-PP	WRE170	170X4	110	170	80	395000	680000	89000	900	6.57
SL045024-PP	WRE180	180X4	120	180	80	410000	740000	94000	900	7.04
SL045026-PP	WRE200	200X4	130	200	95	540000	960000	122000	800	10.5
SL04130-PP	WRE190	190X4	130	190	80	430000	790000	99000	800	7.5
SL045028-PP	WRE210	210X5	140	210	95	610000	1100000	139000	750	11.1
SL04140-PP	WRE200	200X4	140	200	80	445000	840000	104000	750	8
SL045030-PP	WRE225	225X5	150	225	100	710000	1260000	156000	700	13.3
SL04150-PP	WRE210	210X5	150	210	80	465000	920000	111000	700	8.4
SL045032-PP	WRE240	240X5	160	240	109	740000	1360000	165000	650	16.6
SL04160-PP	WRE220	220X5	160	220	80	480000	970000	116000	700	8.8
SL045034-PP	WRE260	260X5	170	260	122	960000	1750000	212000	600	22.6
SL04170-PP	WRE230	230X5	170	230	80	490000	1030000	120000	650	9.3
SL045036-PP	WRE280	280X5	180	280	136	1140000	2130000	255000	550	30.1
SL04180-PP	WRE240	240X5	180	240	80	500000	1080000	125000	600	9.8

Zylinderrollenlager mit Ringnuten | vollrollig, abgedichtet | Reihe SL 04..PP

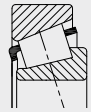


SL 04..PP

Type			Abmessungen			Tragzahlen		Ermüdungs-grenzbelastg	Grenz-drehzahl	Masse
	Sprengring	*Sicherungsring*	*(mm)*			*(N)*		*(N)*	*min–1*	*(kg)*
	WRE	Si-ring	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG (Fett)	m
SL045038-PP	WRE290	290X5	190	290	136	1160000	2210000	260000	550	31.5
SL04190-PP	WRE260	260X5	190	260	80	520000	1130000	131000	550	12.7
SL045040-PP	WRE310	310X6	200	310	150	1350000	2600000	300000	500	40.8
SL04200-PP	WRE270	270X5	200	270	80	540000	1210000	136000	550	13.2
SL045044-PP	WRE340	340X6	220	340	160	1570000	3050000	350000	480	52.5
SL04220-PP	WRE300	300X5	220	300	95	700000	1550000	174000	480	19.5
SL045048-PP	WRE360	360X6	240	360	160	1630000	3300000	370000	440	56
SL04240-PP	WRE320	320X6	240	320	95	740000	1700000	186000	480	21
SL045052-PP	WRE400	400X6	260	400	190	2380000	4700000	520000	400	84.5
SL04260-PP	WRE340	340X6	260	340	95	840000	1990000	215000	440	22.5
SL045056-PP	WRE420	420X7	280	420	190	2600000	5200000	570000	380	90
SL045060-PP	WRE460	460X7	300	460	218	3000000	5800000	620000	340	126
SL04300-PP	WRE380	380X6	300	380	95	900000	2250000	234000	380	25.5

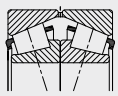
Kegelrollenlager Allgemeines

Typen



einreihig:

302..	303..	313..	320..	322..
323..	329..	330..	331..	332..
323..-A	232..-B	T	K	



zusammengepasst:

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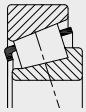
322..-N11CA 329..-N11CA



Zollabmessungen:

KLM

Integral Kegelrollenlager

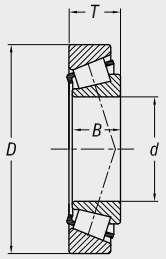
einseitig abgedichtet

IKOS

Nachsetzzeichen

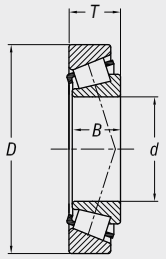
- A	geänderte Innenkonstruktion
- N11CA-A..	2 Kegelrollenlager in X-Anordnung zusammengepasst, mit Zwischenring zwischen den Außenringen.
- B	vergrößerter Druckwinkel
- X	Außenmaße int. Normen angepasst
- P5	höhere Genauigkeit

Kegelrollenlager einreihig



Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
30202-A	–	15	35	11	14200	13500	1320	24000	13500	0.054
30302-A	T2FB015	15	42	13	22900	20300	2110	20000	12500	0.096
30203-A	T2DB017	17	40	12	18500	17800	1890	20000	12100	0.056
32203-A	T2DD017	17	40	16	28500	29000	3250	20000	10800	0.105
30303-A	T2FB017	17	47	14	27500	24500	2600	18000	11200	0.129
32303-A	T2FD017	17	47	19	36000	35000	4050	18000	10400	0.181
32004-X	T3CC020	20	42	15	23500	27500	3000	18000	9200	0.108
30204-A	T2DB020	20	47	14	26500	26500	2900	17000	10500	0.092
31304	–	20	52	15	30000	29500	3300	14000	10100	0.174
30304-A	T2FB020	20	52	15	34000	32000	3600	15000	9800	0.188
32304-A	T2FD020	20	52	21	45500	47500	5600	15000	9300	0.241
32005-X	T4CC025	25	47	15	26000	33000	3550	15000	7700	0.122
30205-A	T3CC025	25	52	15	32000	34500	3900	14000	9100	0.155
32205-A	T2CD025	25	52	18	39500	43500	5100	14000	8100	0.186
33205	T2DE02	25	52	22	48500	58000	6900	14000	7200	0.214
31305-A	T7FB025	25	62	17	37000	38000	4400	12000	8700	0.297
30305-A	T2FB025	25	62	17	47000	45000	5100	13000	8200	0.289
32305-A	T2FD025	25	62	24	62000	65000	7800	13000	7900	0.362
320/28-X	T4CC028	56	52	16	33500	40000	4550	13000	7000	0.156
32006-X	T4CC030	30	55	17	37500	45500	5300	13000	6700	0.195
30206-A	T3DB030	30	62	16	43500	47500	5500	12000	7400	0.237
32206-A	T3DC030	30	62	20	53000	62000	7400	12000	6700	0.274
33206	T2DE03	30	62	25	65000	77000	9400	11000	6300	0.394
31306-A	T7FB030	30	72	19	45000	46500	5300	10000	7800	0.441
30306-A	T2FB030	30	72	19	60000	61000	6900	10000	7200	0.445
32306-A	T2FD030	30	72	27	81000	90000	10800	10000	6900	0.587
320/32-X	T4CC03	32	58	17	38500	47500	5600	12000	6300	0.188
32007-X	T4CC035	35	62	18	45500	57000	6700	11000	5900	0.257
30207-A	T3DB035	35	72	17	53000	58000	6800	10000	6400	0.334
32207-A	T3DC035	35	72	23	70000	83000	10200	10000	5900	0.482
33207	T2DE03	35	72	28	86000	105000	12800	10000	5500	0.585

Kegelrollenlager einreihig



Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
31307-A	T7FB035	35	80	21	60000	64000	7400	9000	6900	0.582
30307-A	T2FB035	35	80	21	75000	78000	8600	9500	6600	0.573
32307-B	T5FE035	35	80	31	96000	117000	14300	9000	6300	0.802
32307-A	T2FE035	35	80	31	101000	114000	13600	9500	6400	0.741
32008-X-A	T3CD040	40	68	19	52000	68000	8300	10000	5200	0.312
33108	T2CE040	40	75	26	78000	103000	12800	9000	4900	0.541
30208-A	T3DB040	40	80	18	61000	66000	7600	9000	5900	0.435
32208-A	T3DC040	40	80	23	79000	93000	11200	9000	5300	0.551
33208	T2DE040	40	80	32	105000	134000	16600	8500	5100	0.741
31308-A	T7FB040	40	90	23	76000	83000	9400	7500	6200	0.727
30308-A	T2FB040	40	90	23	92000	103000	11900	8000	5800	0.812
32308-A	T2FD040	40	90	33	121000	148000	17900	8000	5600	1.06
32308-B	T5FD040	40	90	33	121000	151000	18200	7500	5500	1.18
32009-X-A	T3CC045	45	75	20	60000	84000	10200	9000	4700	0.329
33009	T2CE045	45	75	24	70000	101000	12600	9000	4450	0.432
33109	T3CE045	45	80	26	83000	114000	14300	8500	4450	0.597
30209-A	T3DB045	45	85	19	70000	82000	9600	8000	5400	0.47
32209-A	T3DC045	45	85	23	82000	99000	12000	8000	4900	0.57
33209	T3DE045	45	85	32	107000	146000	18200	8000	4650	0.895
T7FC045	–	45	95	26.5	88000	107000	12900	7000	5600	0.933
31309-A	T7FB045	45	100	25	95000	107000	12600	6700	5500	0.998
30309-A	T2FB045	45	100	25	112000	127000	14800	7000	5200	1
32309-B-A	T5FD045	45	100	36	147000	192000	23500	7000	5000	1.48
32309-A	T2FD045	45	100	36	155000	194000	23900	7000	4950	1.43
32010-X	T3CC050	50	80	20	62000	91000	11100	8000	4300	0.384
33010	T2CE050	50	80	24	74000	111000	13900	8000	4100	0.47
33110	T3CE050	50	85	26	85000	120000	15100	7500	4100	0.604
30210-A	T3DB050	50	90	20	79000	95000	11300	7500	5000	0.603
32210-A	T3DC050	50	90	23	87000	109000	13200	7500	4700	0.602
33210	T3DE050	50	90	32	114000	162000	20400	7000	4200	0.971
T7FC050	–	50	105	29	106000	132000	16000	6300	5300	1.38

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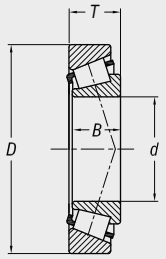

Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
31310-A	T7FB050	50	110	27	109000	123000	14600	6300	5100	1.23
30310-A	T2FB050	50	110	27	130000	148000	17600	6300	4800	1.27
32310-B	T5FD050	50	110	40	165000	223000	28000	6300	4650	1.9
32310-A	T2FD050	50	110	40	187000	237000	29500	6300	4550	1.9
32011-X	T3CC055	55	90	23	79000	116000	14500	7000	4000	0.64
33011	T2CE055	55	90	27	93000	141000	17900	7000	3750	0.673
33111	T3CE055	55	95	30	113000	163000	20400	6700	3800	0.894
30211-A	T3DB055	55	100	21	91000	107000	12400	6700	4600	0.92
32211-A	T3DC055	55	100	25	110000	137000	16200	6700	4100	0.87
33211	T3DE055	55	100	35	138000	193000	24300	6700	3950	1.17
T7FC055	–	55	115	31	128000	164000	20000	5600	4800	1.8
31311-A	T7FB055	55	120	29	122000	137000	16300	5600	4850	1.57
30311-A	T2FB055	55	120	29	151000	174000	20600	6000	4500	1.8
32311-B	T5FD055	55	120	43	193000	265000	33000	5600	4350	2.47
32311-A	T2FD055	55	120	43	211000	270000	33500	6000	4300	2.4
32012-X	T4CC060	60	95	23	80000	120000	15100	6700	3750	0.614
33012	T2CE060	60	95	27	95000	147000	18700	6700	3500	0.714
33112	T3CE060	60	100	30	116000	171000	21500	6300	3550	1.01
30212-A	T3EB060	60	110	22	102000	121000	14000	6300	4200	0.919
32212-A	T3EC060	60	110	28	133000	170000	20600	6000	3800	1.18
33212	T3EE060	60	110	38	169000	237000	29500	6000	3600	1.55
T2EE060	–	60	115	39	189000	250000	31500	6000	3800	1.85
T7FC060	–	60	125	33.5	150000	195000	24300	5300	4500	2.05
31312-A	T7FB060	60	130	31	147000	169000	20100	5300	4450	1.94
30312-A	T2FB060	60	130	31	176000	204000	24200	5300	4350	2.02
32312-B-A	T5FD060	60	130	46	224000	310000	38500	5300	4050	3.15
32312-A	T2FD060	60	130	46	242000	310000	38500	5300	4000	3.19
32013-X	T4CC065	65	100	23	81000	124000	15800	6300	3550	0.62
33013	T2CE065	65	100	27	98000	158000	20300	6300	3250	0.766
33113	T3DE065	65	110	34	148000	222000	28500	6000	3300	1.31
30213-A	T3EB065	65	120	23	119000	142000	16600	5600	3850	1.27

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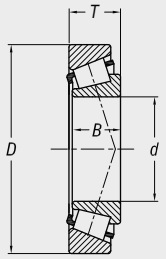

Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
32213-A	T3EC065	65	120	31	156000	200000	24500	5600	3600	1.49
T5ED065	–	65	120	38	160000	234000	29500	5300	3600	1.91
33213	T3EE065	65	120	41	203000	285000	35500	5600	3350	2.02
31313-A	T7GB065	65	140	33	165000	191000	22400	5000	4300	2.36
30313-A	T2GB065	65	140	33	201000	236000	27000	5000	3950	2.4
32313-B-A	T5GD065	65	140	48	250000	345000	43500	5000	3800	3.7
32313-A	T2GD065	65	140	48	275000	350000	43500	5000	3800	3.61
32014-X	T4CC070	70	110	25	103000	157000	20000	5600	3250	0.967
33014	T2CE070	70	110	31	134000	220000	28500	5600	3050	1.14
33114	T3DE070	70	120	37	174000	260000	33000	5300	3150	1.71
30214-A	T3EB070	70	125	24	130000	160000	19000	5300	3700	1.31
32214-A	T3EC070	70	125	31	163000	214000	26500	5300	3400	1.82
33214	T3EE070	70	125	41	210000	300000	38000	5300	3150	2.06
T7FC070	–	70	140	35.5	178000	240000	29000	4800	4000	2.66
31314-A	T7GB070	70	150	35	190000	223000	26000	4800	4000	2.9
30314-A	T2GB070	70	150	35	227000	270000	31000	4800	3750	3.02
32314-B-A	T5GD070	70	150	51	290000	400000	49500	4800	3600	4.52
32314-A	T2GD070	70	150	51	315000	410000	49500	4800	3500	4.27
32015-X	T4CC075	75	115	25	104000	163000	20900	5600	3350	0.922
33015	T2CE075	75	115	31	137000	229000	30000	5600	2850	1.16
33115	T3DE075	75	125	37	178000	275000	34500	5300	2950	1.79
30215-A	T4DB075	75	130	25	137000	172000	20300	5300	3600	1.55
32215-A	T4DC075	75	130	31	171000	229000	28000	5000	3200	1.93
33215	T3EE075	75	130	41	206000	310000	39000	5000	3000	2.47
T7FC075	–	75	150	38	201000	275000	33000	4800	3800	3.23
31315	T7GB075	75	160	37	204000	238000	27500	4500	3850	3.79
30315-A	T2GB075	75	160	37	255000	300000	34500	4500	3550	3.64
32315-B	T5GD075	75	160	55	335000	475000	58000	4500	3350	5.7
32315-A	T2GD075	75	160	55	360000	475000	57000	4500	3300	5.37
32016-X	T3CC080	80	125	29	136000	209000	26000	5000	2950	1.29
33016	T2CE080	80	125	36	174000	285000	37000	5000	2800	1.67

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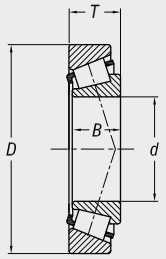

Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
33116	T3DE080	80	130	37	188000	300000	37000	5000	2750	1.9
30216-A	T3EB080	80	140	26	154000	191000	21900	5000	3350	1.68
32216-A	T3EC080	80	140	33	198000	260000	31000	5000	3050	2.36
33216	T3EE080	80	140	46	249000	380000	47000	4800	2900	2.93
T7FC080	–	80	160	41	228000	315000	37500	4500	3600	4
31316	T7GB080	80	170	39	228000	270000	30500	4500	3650	4.19
30316-A	T2GB080	80	170	39	290000	350000	39500	4500	3300	4.34
32316-B	T5GD080	80	170	58	360000	510000	61000	4300	3250	7.02
32316-A	T2GD080	80	170	58	405000	540000	64000	4500	3200	6.57
32017-X	T4CC085	85	130	29	141000	223000	28000	5000	2800	1.36
33017	T2CE085	85	130	36	182000	310000	39500	5000	2600	1.75
33117	T3DE085	85	140	41	219000	345000	43000	4800	2700	2.38
30217-A	T3EB085	85	150	28	175000	220000	25500	4800	3200	2.29
32217-A	T3EC085	85	150	36	226000	305000	36000	4800	2900	2.72
33217	T3EE085	85	150	49	295000	435000	53000	4500	2700	3.58
T7FC085	–	85	170	45	260000	365000	42500	4300	3200	0.578
31317	T7GB085	85	180	41	255000	305000	34000	4300	3450	4.88
30317-A	T2GB085	85	180	41	315000	380000	42000	4300	3150	4.83
32317-B	T5GD085	85	180	60	410000	590000	70000	4300	2950	7.86
32317-A	T2GD085	85	180	60	435000	580000	68000	4300	3000	7.5
32018-X-A	T3CC090	90	140	32	163000	255000	30500	4800	2750	1.76
33018	T2CE090	90	140	39	215000	360000	45000	4800	2500	2.48
33118	T3DE090	90	150	45	260000	420000	51000	4500	2550	3.19
30218-A	T3FB090	90	160	30	199000	255000	28500	4500	3050	2.64
32218-A	T3FC090	90	160	40	260000	355000	42000	4500	2950	3.78
T7FC090	–	90	175	45	270000	385000	44000	4000	3000	5.09
31318	T7GB090	90	190	43	275000	330000	35500	4000	3350	5.5
30318-A	T2GB090	90	190	43	335000	405000	43500	4000	3050	5.83
32318-A	T2GD090	90	190	64	490000	670000	76000	4000	2750	8.51
32919	T2BC095	95	130	23	100000	177000	21900	4800	2450	0.825
32019-X-A	T4CC095	95	145	32	169000	270000	32500	4500	2600	1.86

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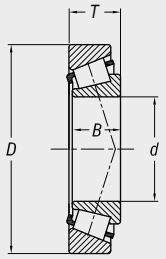

Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
33019	T2CE095	95	145	39	220000	375000	46500	4500	2390	2.33
30219-A	T3FB095	95	170	32	225000	290000	32000	4300	2900	3.13
32219-A	T3FC095	95	170	43	300000	420000	48500	4300	2750	4.24
31319-A	T7GB095	95	200	45	310000	375000	40000	3600	3200	7.08
30319-A	T2GB095	95	200	45	370000	450000	47500	3600	3000	6.77
32319-A	T2GD095	95	200	67	530000	720000	80000	3600	2600	10.3
32020-X	T4CC100	100	150	32	174000	285000	33500	4500	2470	1.94
33020	T2CE100	100	150	39	224000	390000	47500	4500	2290	2.42
T5ED100	–	100	160	40	230000	390000	47000	4300	2400	3.25
30220-A	T3FB100	100	180	34	250000	330000	35500	4300	2800	3.75
32220-A	T3FC100	100	180	46	335000	475000	54000	4000	2600	5.15
30320-A	T2GB100	100	215	47	420000	510000	63000	3400	2750	8.3
31320-X	T7GB100	100	215	51	385000	485000	60000	3000	2950	8.81
32320-A	T2GD100	100	215	73	620000	850000	108000	3400	2350	12.9
32921	T2CC105	105	145	25	125000	211000	25500	4500	2250	1.15
32021-X	T4DC105	105	160	35	202000	330000	38000	4300	2410	2.33
33021	T2DE105	105	160	43	265000	450000	53000	4300	2240	3.34
30221-A	T3FB105	105	190	36	280000	370000	40000	4000	2700	4.23
32221-A	T3FC105	105	190	50	385000	550000	63000	3600	2490	6.07
32321-A	T2GD105	105	225	77	670000	940000	118000	3000	2220	15.1
32022-X	T4DC110	110	170	38	241000	390000	45000	4000	2300	3.35
33022	T2DE110	110	170	47	295000	520000	61000	4300	2170	4.16
30222-A	T3FB110	110	200	38	315000	425000	45500	3600	2550	5.23
32222-A	T3FC110	110	200	53	415000	590000	66000	3400	2390	7.35
30322-A	T2GB110	110	240	50	475000	580000	71000	2800	2420	11
31322-X	T7GB110	110	240	57	465000	590000	70000	2800	2600	12.3
32322-A	T2GD110	110	240	80	740000	1030000	127000	2800	2050	19
32924	T2CC120	120	165	29	174000	305000	34500	4000	2020	1.82
T4CB120	–	120	170	25	152000	235000	26000	4000	2000	1.97
32024-X	T4DC120	120	180	38	250000	420000	47500	3600	2120	3.29
33024	T2DE120	120	180	48	310000	560000	69000	3600	2040	4.55

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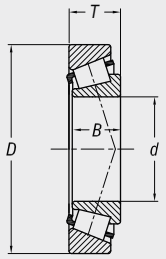
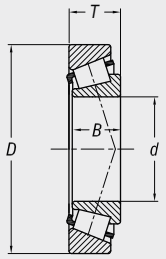


Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
30224-A	T4FB120	120	215	40	335000	455000	57000	3000	2450	6.25
32224-A	T4FD120	120	215	58	490000	730000	93000	3000	2130	9.28
30324-A	T2GB120	120	260	55	570000	710000	83000	2600	2170	14.3
31324-X	T7GB120	120	260	62	540000	700000	82000	2600	2320	15.4
32324	T2GD120	120	260	86	670000	970000	118000	2600	2030	21.1
32926	T2CC130	130	180	32	208000	370000	41500	3600	1900	2.4
T4CB130	–	130	185	27	179000	275000	29500	3400	1900	2.53
32026-X	T4EC130	130	200	45	330000	560000	61000	3000	2030	5.02
30226-A	T4FB130	130	230	40	360000	480000	58000	2800	2290	7.08
32226-A	T4FD130	130	230	64	560000	860000	107000	2800	1950	11.7
30326	–	130	280	58	610000	750000	87000	2600	2020	17.2
31326-X	T7GB130	130	280	66	610000	790000	91000	2400	2090	19.1
32326	–	130	280	93	840000	1130000	133000	2600	1850	26.7
32928	T2CC140	140	190	32	214000	395000	43000	3400	1780	2.6
T4CB140	–	140	195	27	188000	300000	32000	3000	1800	2.41
32028-X	T4DC140	140	210	45	340000	600000	44000	2800	1900	5.39
30228-A	T4FB140	140	250	42	420000	570000	67000	2600	2030	8.81
32228-A	T4FD140	140	250	68	650000	1000000	121000	2600	1740	14
30328	–	140	300	62	590000	740000	84000	2400	1970	20.5
31328-X	T7GB140	140	300	70	690000	890000	101000	2400	1920	23.1
32328-A	–	140	300	102	1170000	1710000	198000	2400	1460	37.8
32930	T2DC150	150	210	38	285000	495000	61000	2800	1730	3.9
32030-X	T4EC150	150	225	48	385000	680000	84000	2600	1730	6.47
30230-A	T4GB150	150	270	45	475000	650000	74000	2600	1870	11.1
32230-A	T4GD150	150	270	73	740000	1160000	138000	2600	1570	18.5
30330-A	T2GB150	150	320	65	810000	1030000	113000	2200	1650	25.1
31330-X	T7GB150	150	320	75	790000	1040000	115000	2200	1760	28
32330-A	–	150	320	108	1330000	1950000	221000	2200	1330	46.1
32932	T2DC160	160	220	38	295000	530000	64000	2600	1630	4.13
32032-X	T4EC160	160	240	51	430000	750000	91000	2600	1620	7.81
30232	–	160	290	48	410000	580000	66000	2400	1870	13.8

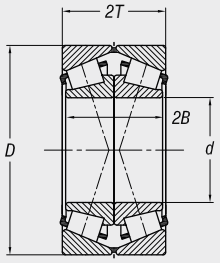
Kegelrollenlager einreihig



Type	Vergleichs-bez: nach DIN ISO 355	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Bezugs-drehzahl min–1	Masse (kg)
		d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	nB	m
32232-A	T4GD160	160	290	80	870000	1390000	162000	2400	1420	23.4
30332-A	T2GB160	160	340	68	890000	1140000	123000	2200	1520	29.9
T4DB170	–	170	230	30	231000	395000	46500	2600	1400	4.31
32934	T3DC170	170	230	38	290000	550000	66000	2600	1540	4.42
32034-X	T4EC170	170	260	57	510000	890000	106000	2400	1490	11.4
30234-A	T4GB170	170	310	52	600000	840000	92000	2200	1600	19.2
32234-A	T4GD170	170	310	86	990000	1590000	180000	2200	1310	28.6
32936	T4DC180	180	250	45	360000	710000	84000	2400	1440	7.08
32036-X	T3FD180	180	280	64	620000	1090000	128000	2200	1340	14.2
30236-A	T4GB180	180	320	52	620000	880000	95000	2200	1500	17.9
32236-A	T4GD180	180	320	86	1020000	1670000	188000	2000	1230	32.5
32938	T4DC190	190	260	45	370000	760000	89000	2400	1350	7.55
32038-X	T4FD190	190	290	64	630000	1130000	131000	2200	1280	14.8
30238	–	190	340	55	530000	780000	85000	2200	1510	20.8
32238-A	T4GD190	190	340	92	1150000	1840000	204000	2000	1140	39.1
T4DB200	–	200	270	34	305000	550000	61000	2200	1200	5.55
32940-A	–	200	280	51	495000	930000	107000	2200	1240	8.97
32040-X	T4FD200	200	310	70	760000	1380000	155000	2200	1150	19
30240-A	T4GB200	200	360	58	770000	1080000	115000	2000	1300	25.5
32240-A	T3GD200	200	360	98	1320000	2070000	225000	2000	1070	43
32944	T3EC220	220	300	51	495000	980000	110000	2000	1120	10.3
32044-X	T4FD220	220	340	76	890000	1640000	179000	2000	1020	24.3
30244-A	–	220	400	65	950000	1320000	135000	1700	1140	34.6
32244-A	–	220	400	108	1540000	2550000	270000	1500	920	59.5
32948	T4EC240	240	320	51	510000	1050000	116000	2000	1020	11
32048-X	T4FD240	240	360	76	900000	1680000	182000	1700	950	28.2
32248-A	–	240	440	120	1860000	3150000	320000	1400	800	80.5
32952	T3EC260	260	360	63.5	740000	1490000	160000	1700	880	18.6
32052-X	T4FC260	260	400	87	1160000	2170000	226000	1500	830	41.1
32252	–	260	480	130	2240000	3800000	380000	1300	700	102
32956	T4EC280	280	380	63.5	740000	1520000	162000	1500	820	19.9

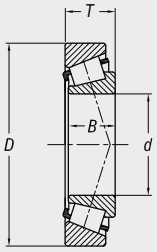
Größere Dimensionen bitte anfragen.

Kegelrollenlager zusammengepasst



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	2B	Cr (dyn.)	C0r (stat.)	Cur	Lagerpaar	m
31306-A-N11CA-A50-90	30	72	38	77000	93000	10600	8000	0.85
31307-A-N11CA-A40-70	35	80	42	102000	128000	14900	7000	1.13
31308-A-N11CA-A50-90	40	90	46	130000	167000	18800	6000	1.52
31309-A-N11CA-A60-100	45	100	50	163000	214000	25500	5600	2.1
31310-A-N11CA-A60-100	50	110	54	187000	245000	29000	5000	2.9
31311-A-N11CA-A80-120	55	120	58	209000	275000	32500	4800	3.4
31312-A-N11CA-A80-120	60	130	62	250000	340000	40000	4500	4.2
31313-A-N11CA-A80-120	65	140	66	285000	380000	45000	4300	5.05
31314-A-N11CA-A100-140	70	150	70	325000	445000	52000	4000	6.2
31315-N11CA-A100-140	75	160	74	350000	475000	55000	3600	7.2
31316-N11CA-A100-140	80	170	78	390000	540000	61000	3400	8.9
31317-N11CA-A120-160	85	180	82	435000	610000	68000	3000	10.4
31318-N11CA-A120-160	90	190	86	475000	660000	71000	2800	11.8
31318-N11CA-A160-200	90	190	86	475000	660000	71000	2800	11.8
31319-A-N11CA-A120-160	95	200	90	530000	750000	80000	2600	14

Kegelrollenlager Zollabmessungen



Type	Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelastung (N)	Grenz-drehzahl min–1	Masse (kg)
	d	D	B	Cr (dyn.)	C0r (stat.)	Cur	nG	m
KLM11749-LM11710	17.462	39.878	14.605	20500	20000	2190	20000	0.086
KLM11949-LM11910	19.05	45.237	16.637	27000	27000	3050	18000	0.12
KM12649-M12610	21.43	50.005	18.288	37000	38000	4400	17000	0.163
KLM12749-LM12710	21.986	45.237	16.637	28000	31500	3550	17000	0.12
KLM12749-LM12711	21.986	45.974	16.637	28000	31500	3550	17000	0.13
KL44643-L44610	25.4	50.292	14.732	25000	28500	3150	14000	0.129
KL44649-L44610	26.988	50.292	14.732	25000	28500	3150	14000	0.137
KM86649-M86610	30.162	64.292	21.433	52000	66000	7900	11000	0.375
KLM67048-LM67010	31.75	59.131	16.764	33000	39000	4450	12000	0.19
KHM88542-HM88510	31.75	73.025	27.782	72000	97000	12100	9500	0.641
KLM48548-LM48510	34.925	65.088	18.288	45500	54000	6400	10000	0.273
KHM88649-HM88610	34.925	72.233	25.4	69000	91000	11300	9500	0.5
KL68149-L68110	34.988	59.131	16.764	33000	43500	5000	11000	0.171
KLM29748-LM29710	38.1	65.088	18.288	44000	58000	6900	10000	0.227
KLM29749-LM29710	38.1	65.088	18.288	44000	58000	6900	10000	0.24
KLM300849-LM300811	40.987	67.975	18	44500	60000	7300	10000	0.255
KLM501349-LM501310	41.275	73.431	19.812	55000	67000	8100	9500	0.365
KHM804840-HM804810	41.275	95.25	29.37	111000	151000	18800	7000	1.19
KLM603049-LM603011	45.242	77.788	19.842	54000	68000	8100	8500	0.367
KLM503349-LM503310	45.987	74.985	18	47500	65000	7800	9000	0.306
KLM503349A-LM503310	45.987	74.985	18	47500	65000	7800	9000	0.324
KLM104949-LM104911	50.8	82.55	22.225	69000	92000	11400	8000	0.425
K72200-72487	50.8	123.825	32.791	135000	148000	17800	5600	2.18
KLM806649-LM806610	53.975	88.9	19.05	59000	79000	9500	7500	0.445
KHM911245-HM911210	60.325	130.175	33.338	145000	170000	20500	5300	2.13
KH913849-H913810	69.85	146.05	39.688	201000	239000	28500	4800	2.96
K47490-47420	71.438	120	32.545	152000	224000	28000	5300	1.61
KHM215249-HM215210	75.987	131.975	39	206000	295000	37000	5000	2.26
K34306-34478	77.788	121.442	23.012	81000	112000	13700	5300	0.932
KHM518445-HM518410	88.9	152.4	39.688	242000	345000	41000	4500	2.94
KHM218248-HM218210	89.975	146.975	40	232000	350000	43000	4800	2.57

Axialrillenkugellager Allgemeines

Typen

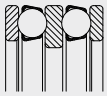
einseitg wirkend:

mit ebener Auflagefläche

511.. 512.. 513.. 514..

mit kugeliger Auflagefläche und einstellbarer Unterlagsscheibe

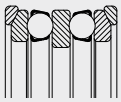
532..(+U2) 533..(+U3)



zweiseitig wirkend:

mit ebenen Auflageflächen

522.. 523..



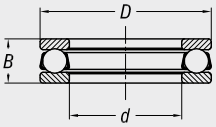
mit kugeliger Auflagefläche und einstellbarer Unterlagsscheibe

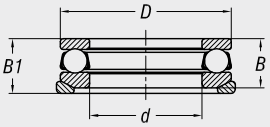
542..(+U2) 523..(+U3)

Nachsetzzeichen

- U	Unterlagsscheibe
- MP	Massiv-Fensterkäfig aus Messing, kugelgeführt
- P5	höhere Genauigkeit, Toleranzklasse P5
- P6	höhere Genauigkeit, Toleranzklasse P6

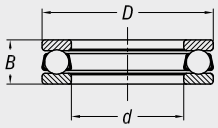
Axialrillenkugellager einseitig wirkend

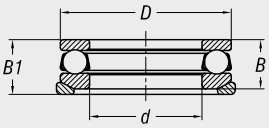




Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B1	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
51100	–	10	24	9	–	10000	14000	620	0.001	13000	0.018	–
51200	–	10	26	11	–	12700	17000	760	0.002	11000	0.029	–
53200	–	10	26	11.6	–	12700	17000	760	0.002	11000	0.028	–
53200	U200	10	26	11.6	13	12700	17000	760	0.002	11000	0.028	0.01
51101	–	12	26	9	–	10400	15300	690	0.001	13000	0.021	–
51201	–	12	28	11	–	13200	19000	840	0.002	10000	0.032	–
53201	–	12	28	11.4	–	13200	19000	840	0.002	10000	0.03	–
53201	U201	12	28	11.4	13	13200	19000	840	0.002	10000	0.03	0.012
51102	–	15	28	9	–	10600	16600	750	0.002	12000	0.024	–
51202	–	15	32	12	–	16600	25000	1100	0.004	9000	0.043	–
53202	–	15	32	13.3	–	16600	25000	1100	0.004	9000	0.046	–
53202	U202	15	32	13.3	15	16600	25000	1100	0.004	9000	0.046	0.014
51103	–	17	30	9	–	11400	19600	870	0.002	11000	0.024	–
51203	–	17	35	12	–	17300	27500	1210	0.004	8500	0.05	–
53203	–	17	35	13.2	–	17300	27500	1210	0.004	8500	0.052	–
53203	U203	17	35	13.2	15	17300	27500	1210	0.004	8500	0.052	0.015
51104	–	20	35	10	–	15000	26500	1180	0.004	9500	0.037	–
51204	–	20	40	14	–	22400	37500	1660	0.01	7500	0.082	–
53204	–	20	40	14.7	–	22400	37500	1660	0.01	7500	0.081	–
53204	U204	20	40	14.7	17	22400	37500	1660	0.01	7500	0.081	0.021
51105	–	25	42	11	–	18000	35500	1570	0.006	9000	0.055	–
51205	–	25	47	15	–	28000	50000	2220	0.01	6700	0.114	–
53205	–	25	47	16.7	–	28000	50000	2220	0.013	6700	0.121	–
53205	U205	25	47	16.7	19	28000	50000	2220	0.013	6700	0.121	0.032
51305	–	25	52	18	–	34500	55000	2450	0.019	5300	0.154	–
53305	–	25	52	19.8	–	34500	55000	2450	0.019	5300	0.203	–
53305	U305	25	52	19.8	22	34500	55000	2450	0.019	5300	0.203	0.044
51405	–	25	60	24	–	45500	67000	2950	0.032	4500	0.295	–
51106	–	30	47	11	–	19000	40000	1770	0.009	8000	0.063	–
51206	–	30	52	16	–	25000	46500	2040	0.01	6300	0.136	–
53206	–	30	52	17.8	–	25000	46500	2040	0.01	6300	0.147	–

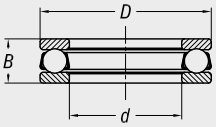
Axialrillenkugellager einseitig wirkend

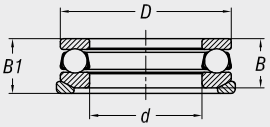




Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B1	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
53206	U206	30	52	17.8	20	25000	46500	2040	0.01	6300	0.147	0.038
51306	–	30	60	21	–	38000	65500	2850	0.028	5000	0.244	–
53306	–	30	60	22.6	–	38000	65500	2850	0.028	5000	0.303	–
53306	U306	30	60	22.6	25	38000	65500	2850	0.028	5000	0.303	0.056
51406	–	30	70	28	–	69500	112000	5000	0.07	5380	0.49	–
51107	–	35	52	12	–	20000	46500	2060	0.011	7500	0.08	–
51207	–	35	62	18	–	35500	67000	3000	0.028	5300	0.198	–
53207	–	35	62	19.9	–	35500	67000	3000	0.028	5300	0.265	–
53207	U207	35	62	19.9	22	35500	67000	3000	0.028	5300	0.265	0.057
51307	–	35	68	24	–	50000	88000	3900	0.05	4500	0.351	–
53307	–	35	68	25.6	–	50000	88000	3900	0.05	4500	0.437	–
53307	U307	35	68	25.6	28	50000	88000	3900	0.05	4500	0.437	0.083
51407	–	35	80	32	–	76500	127000	5600	0.11	3600	0.709	–
51108	–	40	60	13	–	27000	63000	2750	0.02	6300	0.114	–
51208	–	40	68	19	–	46500	98000	4300	0.05	4800	0.257	–
53208	–	40	68	20.3	–	46500	98000	4300	0.05	4800	0.259	–
53208	U208	40	68	20.3	23	46500	98000	4300	0.05	4800	0.259	0.071
51308	–	40	78	26	–	61000	112000	5000	0.08	4000	0.536	–
53308	–	40	78	28.5	–	61000	112000	5000	0.08	4000	0.561	–
53308	U308	40	78	28.5	31	61000	112000	5000	0.08	4000	0.561	0.12
51408	–	40	90	36	–	96500	170000	7500	0.18	3400	1.03	–
51109	–	45	65	14	–	28000	69500	3050	0.024	6000	0.087	–
51209	–	45	73	20	–	39000	80000	3550	0.043	4800	0.279	–
53209	–	45	73	21.3	–	39000	80000	3550	0.043	4800	0.278	–
53209	U209	45	73	21.3	24	39000	80000	3550	0.043	4800	0.278	0.088
51309	–	45	85	28	–	75000	140000	6300	0.12	3600	0.612	–
53309	–	45	85	30.1	–	75000	140000	6300	0.12	3600	0.783	–
53309	U309	45	85	30.1	33	75000	140000	6300	0.12	3600	0.783	0.173
51409	–	45	100	39	–	122000	220000	9800	0.3	3000	1.36	–
51110	–	50	70	14	–	29000	75000	3300	0.03	5600	0.151	–
51210	–	50	78	22	–	50000	106000	4700	0.07	4300	0.346	–

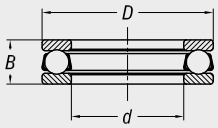
Axialrillenkugellager einseitig wirkend

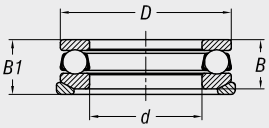




Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B1	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
53210	–	50	78	23.5	–	50000	106000	4700	0.07	4300	0.341	–
53210	U210	50	78	23.5	26	50000	106000	4700	0.07	4300	0.341	0.098
51310	–	50	95	31	–	86500	170000	7500	0.18	3400	0.932	–
53310	–	50	95	34.3	–	86500	170000	7500	0.18	3400	0.97	–
53310	U310	50	95	34.3	37	86500	170000	7500	0.18	3400	0.97	0.225
51410	–	50	110	43	–	137000	255000	11400	0.4	2800	1.81	–
51111	–	55	78	16	–	30500	75000	3300	0.036	5300	0.208	–
51211	–	55	90	25	–	61000	134000	6100	0.11	3800	0.382	–
53211	–	55	90	27.3	–	61000	134000	6100	0.11	3800	0.609	–
53211	U211	55	90	27.3	30	61000	134000	6100	0.11	3800	0.609	0.152
51311	–	55	105	35	–	102000	208000	9000	0.26	3200	1.3	–
53311	–	55	105	39.3	–	102000	208000	9000	0.26	3200	1.38	–
53311	U311	55	105	39.3	42	102000	208000	9000	0.26	3200	1.38	0.277
51411	–	55	120	48	–	180000	360000	19000	0.67	2600	2.83	–
51112	–	60	85	17	–	41500	112000	5000	0.063	4800	0.278	–
51212	–	60	95	26	–	62000	140000	6200	0.12	3800	0.649	–
53212	–	60	95	28	–	62000	140000	6200	0.12	3800	0.655	–
53212	U212	60	95	28	31	62000	140000	6200	0.12	3800	0.655	0.165
51312	–	60	110	35	–	100000	208000	9000	0.28	3200	1.36	–
53312	–	60	110	38.3	–	100000	208000	9000	0.28	3200	1.41	–
53312	U312	60	110	38.3	42	100000	208000	9000	0.28	3200	1.41	0.31
51412-MP	–	60	130	51	–	200000	400000	21300	1	2200	3.51	–
51113	–	65	90	18	–	38000	100000	4400	0.063	4500	0.3	–
51213	–	65	100	27	–	64000	150000	6600	0.14	3600	0.684	–
53213	–	65	100	28.7	–	64000	150000	6600	0.14	3600	0.855	–
53213	U213	65	100	28.7	32	64000	150000	6600	0.14	3600	0.855	0.184
51313	–	65	115	36	–	106000	220000	9700	0.32	3000	1.39	–
53313	–	65	115	39.4	–	106000	220000	9700	0.32	3000	1.78	–
53313	U313	65	115	39.4	43	106000	220000	9700	0.32	3000	1.78	0.338
51413-MP	–	65	140	56	–	216000	450000	23500	1.1	2000	4.47	–
51114	–	70	95	18	–	40000	110000	4850	0.075	4300	0.352	–

Axialrillenkugellager einseitig wirkend





Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B1	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
51214	–	70	105	27	–	65500	160000	7000	0.16	3600	0.727	–
53214	–	70	105	28.8	–	65500	160000	7000	0.16	3600	0.903	–
53214	U214	70	105	28.8	32	65500	160000	7000	0.16	3600	0.903	0.187
51314	–	70	125	40	–	134000	290000	12900	0.5	2800	1.9	–
53314	–	70	125	44.2	–	134000	290000	12900	0.5	2800	2.09	–
53314	U314	70	125	44.2	48	134000	290000	12900	0.5	2800	2.09	0.408
51414-MP	–	70	150	60	–	236000	500000	25500	1.4	1900	5.49	–
51115	–	75	100	19	–	44000	122000	5500	0.095	4000	0.365	–
51215	–	75	110	27	–	67000	170000	7500	0.18	3400	0.819	–
53215	–	75	110	28.3	–	67000	170000	7500	0.18	3400	1.01	–
53215	U215	75	110	28.3	32	67000	170000	7500	0.18	3400	1.01	0.21
51315	–	75	135	44	–	163000	360000	15400	0.75	2400	2.59	–
53315	–	75	135	48.1	–	163000	360000	15400	0.75	2400	3.19	–
53315	U315	75	135	48.1	52	163000	360000	15400	0.75	2400	3.19	0.544
51415-MP	–	75	160	65	–	250000	560000	27000	1.8	1800	6.82	–
51116	–	80	105	19	–	45000	129000	5700	0.1	4000	0.384	–
51216	–	80	115	28	–	75000	190000	8500	0.22	3400	0.908	–
53216	–	80	115	29.5	–	75000	190000	8500	0.22	3400	0.903	–
53216	U216	80	115	29.5	33	75000	190000	8500	0.22	3400	0.903	0.218
51316	–	80	140	44	–	160000	360000	15100	0.8	2400	2.69	–
53316	–	80	140	47.6	–	160000	360000	15100	0.8	2400	2.75	–
53316	U316	80	140	47.6	52	160000	360000	15100	0.8	2400	2.75	0.57
51416-MP	–	80	170	68	–	270000	620000	29000	2.2	1700	7.95	–
51117	–	85	110	19	–	45500	134000	6000	0.11	3800	0.404	–
51217	–	85	125	31	–	98000	250000	10900	0.38	3000	1.21	–
53217	–	85	125	33.1	–	98000	250000	10900	0.38	3000	1.22	–
53217	U217	85	125	33.1	37	98000	250000	10900	0.38	3000	1.22	0.29
51317	–	85	150	49	–	186000	415000	16700	1.1	2200	3.48	–
53317	–	85	150	53.1	–	186000	415000	16700	1.1	2200	3.51	–
53317	U317	85	150	53.1	58	186000	415000	16700	1.1	2200	3.51	0.803
51417-MP	–	85	180	72	–	290000	680000	32000	2.8	1700	9.3	–

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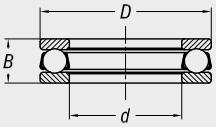

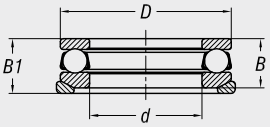

Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B1	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
51118	–	90	120	22	–	45500	140000	6100	0.13	3800	0.617	–
51218	–	90	135	35	–	118000	300000	12300	0.53	2800	1.66	–
53218	–	90	135	38.5	–	118000	300000	12300	0.53	2800	1.7	–
53218	U218	90	135	38.5	42	118000	300000	12300	0.53	2800	1.7	0.425
51318	–	90	155	50	–	193000	455000	17700	1.2	2000	3.75	–
53318	–	90	155	54.6	–	193000	455000	17700	1.2	2000	3.81	–
53318	U318	90	155	54.6	59	193000	455000	17700	1.2	2000	3.81	0.83
51418-MP	–	90	190	77	–	305000	750000	34000	3.4	1600	11.1	–
51120	–	100	135	25	–	85000	270000	13000	0.36	3200	1.26	–
51220	–	100	150	38	–	122000	320000	14400	0.67	2600	2.21	–
53220	–	100	150	40.9	–	122000	320000	14400	0.67	2600	2.23	–
53220	U220	100	150	40.9	45	122000	320000	14400	0.67	2600	2.23	0.507
51320	–	100	170	55	–	240000	585000	21900	1.9	1900	4.94	–
53320	–	100	170	59.2	–	240000	585000	21900	1.9	1900	4.99	–
53320	U320	100	170	59.2	64	240000	585000	21900	1.9	1900	4.99	0.95
51420-MP	–	100	210	85	–	365000	965000	41000	5.3	1500	14.8	–
51122	–	110	145	25	–	86500	290000	13400	0.43	3200	1.45	–
51222	–	110	160	38	–	134000	365000	16000	0.85	2400	2.28	–
53222	–	110	160	40.2	–	134000	365000	16000	0.85	2400	2.24	–
53222	U222	110	160	40.2	45	134000	365000	16000	0.85	2400	2.24	0.56
51322-MP	–	110	190	63	–	280000	750000	27000	3	1700	7.85	–
53322-MP	–	110	190	67.2	–	280000	750000	27000	3	1700	7.85	–
53322-MP	U322	110	190	67.2	72	280000	750000	27000	3	1700	7.85	1.28
51422-MP	–	110	230	95	–	415000	1140000	46500	7.5	1300	19.9	–
51124	–	120	155	25	–	90000	310000	13900	0.48	3000	1.54	–
51224	–	120	170	39	–	134000	390000	14200	0.95	2200	2.66	–
53224	–	120	170	40.8	–	134000	390000	14200	0.95	2200	2.58	–
53224	U224	120	170	40.8	46	134000	390000	14200	0.95	2200	2.58	0.65
51324-MP	–	120	210	70	–	325000	915000	31500	4.5	1600	9.3	–
53324-MP	–	120	210	74.1	–	325000	915000	31500	4.5	1600	9.18	–
53324-MP	U324	120	210	74.1	80	325000	915000	31500	4.5	1600	9.18	2.02

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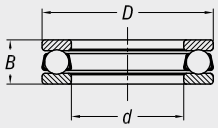

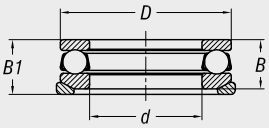

Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B1	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager	U-Scheibe
51424-MP	–	120	250	102	–	425000	1220000	47500	9	1200	25.1	–
51126	–	130	170	30	–	112000	390000	17200	0.75	2800	2.28	–
51226	–	130	190	45	–	183000	540000	18900	1.7	1900	3.96	–
53226	–	130	190	47.9	–	183000	540000	18900	1.7	1900	3.9	–
53226	U226	130	190	47.9	53	183000	540000	18900	1.7	1900	3.9	0.9
51326-MP	–	130	225	75	–	360000	1060000	35000	6	1500	13	–
51128	–	140	180	31	–	112000	400000	16900	0.85	2600	2.51	–
51228	–	140	200	46	–	190000	570000	19200	1.9	1900	4.3	–
53228	–	140	200	48.6	–	190000	570000	19200	1.9	1900	4.25	–
53228	U228	140	200	48.6	55	190000	570000	19200	1.9	1900	4.25	1.22
51328-MP	–	140	240	80	–	405000	1250000	40000	8	1400	15.6	–
51130-MP	–	150	190	31	–	110000	400000	16700	0.9	2400	2.17	–
51230-MP	–	150	215	50	–	236000	735000	24200	2.8	1800	6.08	–
53230-MP	–	150	215	53.3	–	236000	735000	24200	2.8	1800	5.95	–
53230-MP	U230	150	215	53.3	60	236000	735000	24200	2.8	1800	5.95	1.69
51330-MP	–	150	250	80	–	415000	1340000	41500	9.5	1400	16.2	–
53330-MP	–	150	250	83.7	–	415000	1340000	41500	9.5	1400	12.8	–
53330-MP	U330	150	250	83.7	92	415000	1340000	41500	9.5	1400	12.8	3.1
51132-MP	–	160	200	31	–	112000	430000	17200	1	2200	2.29	–
51232-MP	–	160	225	51	–	240000	765000	24700	3.2	1700	6.53	–
53232-MP	–	160	225	54.7	–	240000	765000	24700	3.2	1700	6.45	–
53232-MP	U232	160	225	54.7	61	240000	765000	24700	3.2	1700	6.45	1.81
51332-MP	–	160	270	87	–	465000	1560000	47000	13	1200	21.2	–
51134-MP	–	170	215	34	–	132000	500000	19400	1.4	2000	3.08	–
51234-MP	–	170	240	55	–	285000	930000	28500	4.5	1600	8.12	–
53234-MP	–	170	240	58.7	–	285000	930000	28500	4.5	1600	7.91	–
53234-MP	U234	170	240	58.7	65	285000	930000	28500	4.5	1600	7.91	2.14
51334-MP	–	170	280	87	–	465000	1560000	46000	13	1200	22.2	–
51136-MP	–	180	225	34	–	134000	530000	20100	1.5	2000	3.06	–
51236-MP	–	180	250	56	–	305000	1040000	31500	5.3	1600	8.56	–
53236-MP	–	180	250	58.2	–	305000	1040000	31500	5.3	1600	8.19	–

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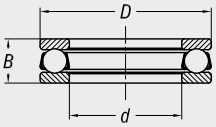

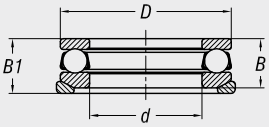

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Lager	U-Scheibe	d	D	B	B1	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager	U-Scheibe
53236-MP	U236	180	250	58.2	66	305000	1040000	31500	5.3	1600	8.19	1.25
51336-MP	–	180	300	95	–	520000	1830000	52000	18	1100	24.8	–
51138-MP	–	190	240	37	–	170000	655000	23200	2.4	1800	3.94	–
51238-MP	–	190	270	62	–	335000	1160000	34500	7	1500	11.6	–
53238-MP	–	190	270	65.7	–	335000	1160000	34500	7	1500	11.5	–
53238-MP	U238	190	270	65.7	73	335000	1160000	34500	7	1500	11.5	2.65
51338-MP	–	190	320	105	–	600000	2200000	61000	26	1000	31.9	–
51140-MP	–	200	250	37 62 110	–	170000	655000	22700	2.4	1800	4.12	–
51240-MP	–	200	280		–	340000	1220000	35000	8	1400	12	–
51340-MP	–	200	340		–	620000	2400000	65000	30	950	40.9	–
51144-MP	–	220	270	37 63	–	176000	735000	24500	3	1700	4.54	–
51244-MP	–	220	300		–	355000	1340000	36500	9.5	1300	13.1	–
51148-MP	–	240	300	45 78	–	232000	965000	31000	5	1600	7.41	–
51248-MP	–	240	340		–	465000	1860000	48000	18	1100	22.9	–
51152-MP	–	260	320	45 79	–	236000	1020000	31500	5.6	1500	7.89	–
51252-MP	–	260	360		–	490000	2040000	52000	22	1000	24.8	–
51156-MP	–	280	350	53 80	–	315000	1340000	40500	10	1300	12	–
51256-MP	–	280	380		–	490000	2160000	53000	24	950	23.7	–
51160-MP	–	300	380	62 95	–	365000	1600000	46000	14	1200	17.1	–
51260-MP	–	300	420		–	585000	2700000	63000	38	850	41.8	–
51164-MP	–	320	400	63 95	–	375000	1700000	47500	16	1100	18.5	–
51264-MP	–	320	440		–	600000	2800000	64000	43	850	44.6	–
51168-MP	–	340	420	64	–	380000	1800000	49000	18	1000	19.9	–
51268-MP	–	340	460	96	–	620000	3050000	67000	50	800	47.6	–
51172-MP	–	360	440	65	–	405000	2000000	45000	22	1000	21.5	–
51272-MP	–	360	500	110	–	720000	3650000	79000	70	700	70.4	–
51176-MP	–	380	460	65	–	430000	2240000	48500	24	950	22.4	–
51180-MP	–	400	480	65	–	440000	2320000	49500	28	900	23.5	–
51184-MP	–	420	500	65	–	440000	2450000	51000	30	900	24.4	–
51192-MP	–	460	560	80	–	530000	3100000	61000	50	800	37.2	–
511/500-MP		–	500	600	80	–	550000	3350000	63000	56	750	44.9

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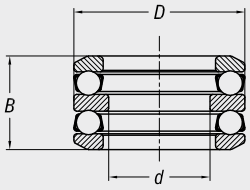

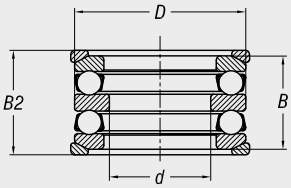

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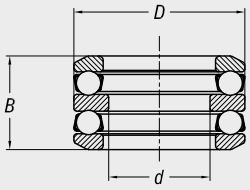
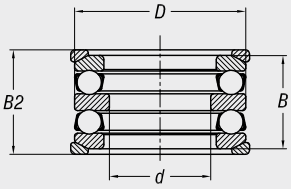
Lager	U-Scheibe	d	D	B	B2	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
52202	–	10	32	5	–	16600	25000	1100	0.003	9000	0.076	–
52204	–	15	40	6	–	22400	37500	1660	0.01	7500	0.145	–
52205	–	20	47	7	–	28000	50000	2220	0.013	6700	0.215	–
54205	–	20	47	7	–	28000	50000	2220	0.013	6700	0.221	–
54205	U205	20	47	7	36	28000	50000	2220	0.013	6700	0.221	0.032
52305	–	20	52	8	–	34500	55000	2450	0.019	5300	0.291	–
54305	–	20	52	8	–	34500	55000	2450	0.019	5300	0.303	–
54305	U305	20	52	8	42	34500	55000	2450	0.019	5300	0.303	0.044
52206	–	25	52	7	–	25000	46500	2040	0.01	6300	0.236	–
54206	–	25	52	7	–	25000	46500	2040	0.01	6300	0.269	–
54206	U206	25	52	7	37	25000	46500	2040	0.01	6300	0.269	0.038
52306	–	25	60	9	–	38000	65500	2850	0.028	5000	0.435	–
54306	–	25	60	9	–	38000	65500	2850	0.028	5000	0.553	–
54306	U306	25	60	9	46	38000	65500	2850	0.028	5000	0.553	0.056
52207	–	30	62	8	–	35500	67000	3000	0.028	5300	0.371	–
54207	–	30	62	8	–	35500	67000	3000	0.028	5300	0.749	–
54207	U207	30	62	8	42	35500	67000	3000	0.028	5300	0.749	0.057
52307	–	30	68	10	–	50000	88000	3900	0.05	4500	0.63	–
54307	–	30	68	10	–	50000	88000	3900	0.05	4500	0.802	–
54307	U307	30	68	10	52	50000	88000	3900	0.05	4500	0.802	0.083
52208	–	30	68	9	–	46500	98000	4300	0.05	4800	0.509	–
54208	–	30	68	9	–	46500	98000	4300	0.05	4800	0.513	–
54208	U208	30	68	9	44	46500	98000	4300	0.05	4800	0.513	0.071
52308	–	30	78	12	–	61000	112000	5000	0.08	4000	1.02	–
52209	–	35	73	9	–	39000	80000	3550	0.043	4800	0.539	–
54209	–	35	73	9	–	39000	80000	3550	0.043	4800	0.537	–
54209	U209	35	73	9	45	39000	80000	3550	0.043	4800	0.537	0.088
52309	–	35	85	12	–	75000	140000	6300	0.12	3600	1.15	–
54309	–	35	85	12	–	75000	140000	6300	0.12	3600	2.15	–
54309	U309	35	85	12	62	75000	140000	6300	0.12	3600	2.15	0.173
52210	–	40	78	9	–	50000	106000	4700	0.07	4300	0.635	–

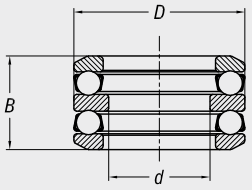
zweiseitig wirkend

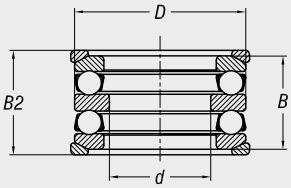




Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B2	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
54210	–	40	78	9	–	50000	106000	4700	0.07	4300	0.625	–
54210	U210	40	78	9	47	50000	106000	4700	0.07	4300	0.625	0.098
52310	–	40	95	14	–	86500	170000	7500	0.18	3400	1.76	–
54310	–	40	95	14	–	86500	170000	7500	0.18	3400	1.84	–
54310	U310	40	95	14	70	86500	170000	7500	0.18	3400	1.84	0.225
52211	–	45	90	10	–	61000	134000	6100	0.11	3800	0.571	–
54211	–	45	90	10	–	61000	134000	6100	0.11	3800	1.02	–
54211	U211	45	90	10	55	61000	134000	6100	0.11	3800	1.02	0.152
52311	–	45	105	15	–	102000	208000	9000	0.26	3200	2.37	–
54311	–	45	105	15	–	102000	208000	9000	0.26	3200	2.53	–
54311	U311	45	105	15	78	102000	208000	9000	0.26	3200	2.53	0.277
52212	–	50	95	10	–	62000	140000	6200	0.12	3800	1.12	–
54212	–	50	95	10	–	62000	140000	6200	0.12	3800	1.17	–
54212	U212	50	95	10	56	62000	140000	6200	0.12	3800	1.17	0.165
52312	–	50	110	15	–	100000	208000	9000	0.28	3200	2.49	–
54312	–	50	110	15	–	100000	208000	9000	0.28	3200	2.59	–
54312	U312	50	110	15	78	100000	208000	9000	0.28	3200	2.59	0.31
52213	–	55	100	10	–	64000	150000	6600	0.14	3600	1.19	–
52313	–	55	115	15	–	106000	220000	9700	0.32	3000	2.5	–
52214	–	55	105	10	–	65500	160000	7000	0.16	3600	1.3	–
52314	–	55	125	16	–	134000	290000	12900	0.5	2800	3.55	–
54314	–	55	125	16	–	134000	290000	12900	0.5	2800	3.77	–
54314	U314	55	125	16	88	134000	290000	12900	0.5	2800	3.77	0.408
52215	–	60	110	10	–	67000	170000	7500	0.18	3400	1.48	–
54215	–	60	110	10	–	67000	170000	7500	0.18	3400	1.87	–
54215	U215	60	110	10	57	67000	170000	7500	0.18	3400	1.87	0.21
52315	–	60	135	18	–	163000	360000	15400	0.75	2400	4.72	–
54315	–	60	135	18	–	163000	360000	15400	0.75	2400	5.92	–
54315	U315	60	135	18	95	163000	360000	15400	0.75	2400	5.92	0.544
52216	–	65	115	10	–	75000	190000	8500	0.22	3400	1.55	–
54216	–	65	115	10	–	75000	190000	8500	0.22	3400	1.6	–

zweiseitig wirkend

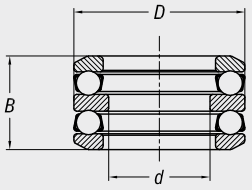


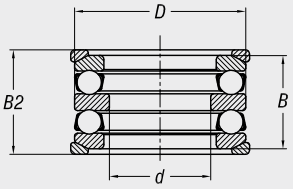


Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg) Lager	U-Scheibe
Lager	U-Scheibe	d	D	B	B2	Ca (dyn.)	C0a (stat.)	Cua	A	nG	m	m
54216	U216	65	115	10	58	75000	190000	8500	0.22	3400	1.6	0.218
52316	–	65	140	18	–	160000	360000	15100	0.8	2400	4.82	–
54316	–	65	140	18	–	160000	360000	15100	0.8	2400	4.93	–
54316	U316	65	140	18	95	160000	360000	15100	0.8	2400	4.93	0.57
52217	-	70	125	12	–	98000	250000	10900	0.38	3000	2.23	-
54217	-	70	125	12	–	98000	250000	10900	0.38	3000	2.25	-
54217	U217	70	125	12	67	98000	250000	10900	0.38	3000	2.25	0.29
52317	-	70	150	19	–	186000	415000	16700	1.1	2200	6.21	-
54317	-	70	150	19	–	186000	415000	16700	1.1	2200	6.27	-
54317	U317	70	150	19	105	186000	415000	16700	1.1	2200	6.27	0.803
52218	-	75	135	14	–	118000	300000	12300	0.53	2800	3.05	-
54218	-	75	135	14	–	118000	300000	12300	0.53	2800	3.11	-
54218	U218	75	135	14	76	118000	300000	12300	0.53	2800	3.11	0.425
52318	-	75	155	19	–	193000	455000	17700	1.2	2000	6.62	-
54318	-	75	155	19	–	193000	455000	17700	1.2	2000	6.74	-
54318	U318	75	155	19	106	193000	455000	17700	1.2	2000	6.74	0.83
52220	-	85	150	15	–	122000	320000	14400	0.67	2600	3.83	-
54220	-	85	150	15	–	122000	320000	14400	0.67	2600	3.87	-
54220	U220	85	150	15	81	122000	320000	14400	0.67	2600	3.87	0.507
52320	-	85	170	21	–	240000	585000	21900	1.9	1900	8.71	-
54320	-	85	170	21	–	240000	585000	21900	1.9	1900	8.81	-
54320	U320	85	170	21	115	240000	585000	21900	1.9	1900	8.81	0.95
52222	-	95	160	15	–	134000	365000	16000	0.85	2400	4.06	-
52322-MP	-	95	190	24	–	280000	750000	27000	3	1700	14	-
54322-MP	-	95	190	24	–	280000	750000	27000	3	1700	14	-
54322-MP	U322	95	190	24	128	280000	750000	27000	3	170	14	1.28
52224	-	100	170	15	–	134000	390000	14200	0.95	2200	4.82	-
52324-MP	-	110	210	27	–	325000	915000	31500	4.5	1600	16.8	-
52226	-	110	190	19	–	183000	540000	18900	1.7	1900	7.26	-
52326-MP	-	110	225	30	–	360000	1060000	35000	6	1500	22	-
52228	-	120	200	18	–	190000	570000	19200	1.9	1900	7.78	-

Größere Dimensionen bitte anfragen.

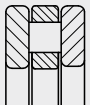
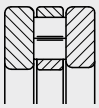
zweiseitig wirkend

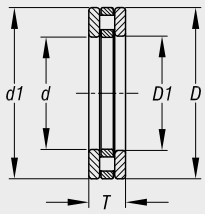




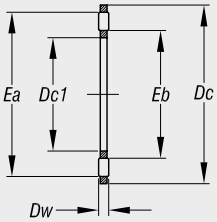
Type			Abmessungen (mm)			Tragzahlen (N)		Ermüdungs-grenzbelast. (N)	Minimal-lastfaktor	Grenz-drehzahl min–1	Masse (kg)	
Lager	U-Scheibe	d	D	B	B2	Ca (dyn.)	C0a (stat.)	Cua	A	nG	Lager m	U-Scheibe m
52328-MP	-	120	240	31	–	405000	1250000	40000	8	1400	28.3	-
52230-MP	-	130	215	20	–	236000	735000	24200	2.8	1800	10.7	-
52330-MP	-	130	250	31	–	415000	1340000	41500	9.5	1400	29.4	-
52232-MP	-	140	225	20	–	240000	765000	24700	3.2	1700	12.2	-
52234-MP	-	150	240	21	–	285000	930000	28500	4.5	1600	14	-

Axial-Zylinderrollenlager Allgemeines

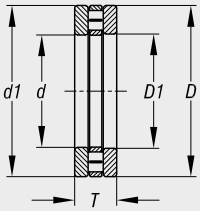
Typen	Nachsetzzeichen	
 **Axial-Zylinderrollenlager** einreihig: 811.. | 812..	- M	Messingkäfig
 **Axial-Zylinderrollenlager** zweireihig: 893.. | 894..	- TV	Kunststoffkäfig
Axial-Zylinderrollenkränze einreihig: K811.. | K812..	- P5	hohe Maß-, Form- und Laufgenauigkeit
Axial-Zylinderrollenkränze zweireihig: K893.. | K894..		
Axiallagerscheiben: Gehäusescheiben: GS.. Wellenscheiben: WS.. Laufscheiben: LS..		



811, 812



K811, K812

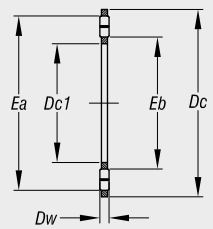


893, 894

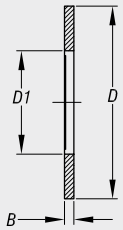
weitere Maße zu dieser Baureihe siehe Folgeseite →

Axial-Zylinder-rollenlager		**Axial-Zylinder rollenkranz**		**Axiallgerscheiben**				**Abmessungen**		
Lager komplett	*Masse (kg)*		*Masse (kg)*	*Gehäusescheibe*	*Wellenscheibe*	*Laufscheibe*	*Masse (kg)*			
Type	m	Type	m	Type	Type	Type	m	d (Dc1)	D (Dc)	T
81102-TV	0.024	K81102-TV	0.006	GS81102	WS81102	LS1528	0.008	15	28	9
81103-TV	0.027	K81103-TV	0.009	GS81103	WS81103	LS1730	0.009	17	30	9
81104-TV	0.037	K81104-TV	0.013	GS81104	WS81104	LS2035	0.012	20	35	10
81105-TV	0.053	K81105-TV	0.015	GS81105	WS81105	LS2542	0.019	25	42	11
81106-TV	0.057	K81106-TV	0.017	GS81106	WS81106	LS3047	0.02	30	47	11
81206-TV	0.123	K81206-TV	0.033	GS81206	WS81206	–	0.045	30	52	16
89306-TV	0.24	K89306-TV	0.04	GS89306	WS89306	–	0.095	30	60	18
81107-TV	0.073	K81107-TV	0.019	GS81107	WS81107	LS3552	0.027	35	52	12
81207-TV	0.195	K81207-TV	0.043	GS81207	WS81207	–	0.076	35	62	18
89307-TV	0.34	K89307-TV	0.053	GS89307	WS89307	–	0.134	35	68	20
81108-TV	0.105	K81108-TV	0.031	GS81108	WS81108	LS4060	0.037	40	60	13
81208-TV	0.249	K81208-TV	0.081	GS81208	WS81208	–	0.084	40	68	19
89308-TV	0.484	K89308-TV	0.098	GS89308	WS89308	–	0.193	40	78	22
81109-TV	0.13	K81109-TV	0.035	GS81109	WS81109	LS4565	0.047	45	65	14
81209-TV	0.287	K81209-TV	0.085	GS81209	WS81209	–	0.101	45	73	20
89309-TV	0.615	K89309-TV	0.121	GS89309	WS89309	–	0.247	45	85	24
81110-TV	0.14	K81110-TV	0.038	GS81110	WS81110	LS5070	0.051	50	70	14
81210-TV	0.356	K81210-TV	0.098	GS81210	WS81210	–	0.129	50	78	22
89310-TV	0.887	K89310-TV	0.175	GS89310	WS89310	–	0.356	50	95	27
81111-TV	0.218	K81111-TV	0.045	GS81111	WS81111	LS5578	0.082	55	78	16
81211-TV	0.568	K81211-TV	0.166	GS81211	WS81211	–	0.201	55	90	25
89311-TV	1.18	K89311-TV	0.195	GS89311	WS89311	–	0.485	55	105	30
81112-TV	0.266	K81112-TV	0.082	GS81112	WS81112	LS6085	0.092	60	85	17
81212-TV	0.642	K81212-TV	0.176	GS81212	WS81212	–	0.233	60	95	26
89312-TV	1.26	K89312-TV	0.21	GS89312	WS89312	–	0.517	60	110	30
89412-TV	2.818	K89412-TV	0.538	GS89412	WS89412	–	1.115	60	130	42
81113-TV	0.31	K81113-TV	0.09	GS81113	WS81113	LS6590	0.11	65	90	18
81213-TV	0.721	K81213-TV	0.185	GS81213	WS81213	–	0.268	65	100	27
89313-TV	1.33	K89313-TV	0.21	GS89313	WS89313	–	0.535	65	115	30
89413-TV	3.52	K89413-TV	0.72	GS89413	WS89413	–	1.4	65	140	45
81114-TV	0.332	K81114-TV	0.092	GS81114	WS81114	LS7095	0.12	70	95	18

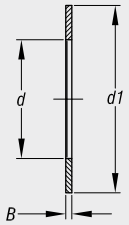
Baureihe 811, 812, 893, 894



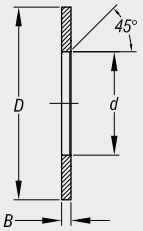
K 893, K 894



GS

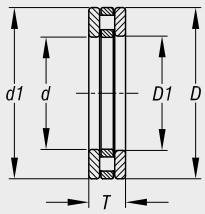


WS

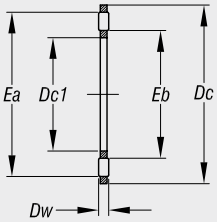


LS

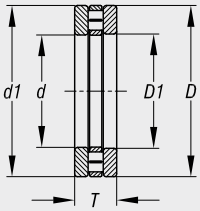
Abmessungen						**Laufbahnmaße**		**Tragzahlen**		**Ermüdungs-grenzbelast.**	**Grenz-drehzahl**	**Bezugs-drehzahl**
(mm)								*(N)*		*(N)*	*min–1*	*min–1*
d(Dc1)	D1	d1	Dw	B	a	Eb	Ea	Ca (dyn.)	C0a(stat.)	Cua	nG	nB
15	16	28	3.5	2.75	0.3	16	27	14400	28500	4000	13400	6300
17	18	30	3.5	2.75	0.3	18	29	15900	33500	4650	12300	5400
20	21	35	4.5	2.75	0.3	21	34	24900	53000	7300	10500	4300
25	26	42	5	3	0.6	26	41	33500	76000	7100	8600	3500
30	32	47	5	3	0.6	31	46	35500	86000	8000	7500	3050
30	32	52	7.5	4.25	0.6	31	50	64000	141000	14100	7000	2650
30	32	60	5.5	6.25	1	33	59	69000	197000	18900	6400	2600
35	37	52	5	3.5	0.6	36	51	39000	101000	9500	6600	2600
35	37	62	7.5	5.25	1	39	58	80000	199000	20000	5900	2320
35	37	68	6	7	1	38	67	80000	237000	23200	5600	2390
40	42	60	6	3.5	0.6	42	58	56000	148000	14500	5800	2190
40	42	68	9	5	1	43	66	107000	265000	23300	5300	1860
40	42	78	7	7.5	1	44	77	122000	385000	39000	4900	1780
45	47	65	6	4	0.6	47	63	59000	163000	16000	5200	1970
45	47	73	9	5.5	1	48	70	105000	265000	23300	4900	1820
45	47	85	7.5	8.25	1	49	83	139000	445000	44500	4450	1620
50	52	70	6	4	0.6	52	68	61000	177000	17400	4800	1810
50	52	78	9	6.5	1	53	75	117000	315000	27500	4500	1550
50	52	95	8	9.5	1.1	56	92	167000	560000	58000	3950	1460
55	57	78	6	5	0.6	57	77	90000	300000	31000	4350	1330
55	57	90	11	7	1	59	85	154000	405000	38500	3950	1510
55	57	105	9	10.5	1.1	61	103	184000	600000	52000	3600	1490
60	62	85	7.5	4.75	1	62	82	103000	315000	32000	3950	1360
60	62	95	11	7.5	1	64	91	172000	480000	45500	3700	1300
60	62	110	9	10.5	1.1	66	108	196000	670000	58000	3400	1350
60	62	130	14	14	1.5	65	126	390000	1220000	121000	3050	1080
65	67	90	7.5	5.25	1	67	87	107000	340000	34000	3700	1260
65	67	100	11	8	1	69	96	177000	500000	48000	3500	1240
65	67	115	9	10.5	1.1	71	113	194000	670000	58000	3200	1330
65	68	140	15	15	2	70	135	445000	1410000	139000	2800	1000
70	72	95	7.5	5.25	1	72	92	111000	365000	36500	3500	1170



811, 812



K811, K812

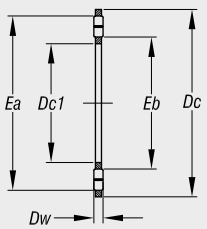


893, 894

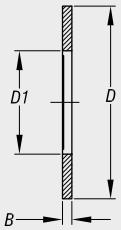
weitere Maße zu dieser Baureihe siehe Folgeseite →

Axial-Zylinder-rollenlager		**Axial-Zylinder rollenkranz**		**Axiallgerscheiben**				**Abmessungen**		
Lager komplett	*Masse (kg)*		*Masse (kg)*	*Gehäusescheibe*	*Wellenscheibe*	*Laufscheibe*	*Masse (kg)*			
Type	m	Type	m	Type	Type	Type	m	d (Dc1)	D (Dc)	T
81214-TV	0.768	K81214-TV	0.212	GS81214	WS81214	–	0.278	70	105	27
89314-TV	1.82	K89314-TV	0.29	GS89314	WS89314	–	0.8	70	125	34
89414-TV	4.18	K89414-TV	0.76	GS89414	WS89414	–	1.73	70	150	48
81115-TV	0.393	K81115-TV	0.096	GS81115	WS81115	LS75100	0.136	75	100	19
81215-TV	0.8	K81215-TV	0.195	GS81215	WS81215	–	0.293	75	110	27
89315-TV	2.23	K89315-TV	0.375	GS89315	WS89315	–	0.97	75	135	36
89415-M	5.96	K89415-M	1.78	GS89415	WS89415	–	2.09	75	160	51
81116-TV	0.4	K81116-TV	0.095	GS81116	WS81116	LS80105	0.144	80	105	19
81216-TV	0.9	K81216-TV	0.234	GS81216	WS81216	–	0.333	80	115	28
89316-TV	2.37	K89316-TV	0.42	GS89316	WS89316	–	1.02	80	140	36
89416-M	7.04	K89416-M	2.04	GS89416	WS89416	–	2.5	80	170	54
81117-TV	0.42	K81117-TV	0.118	GS81117	WS81117	LS85110	0.151	85	110	19
81217-TV	1.26	K81217-TV	0.28	GS81217	WS81217	–	0.49	85	125	31
89317-M	3.39	K89317-M	0.93	GS89317	WS89317	–	1.23	85	150	39
89417-M	8.65	K89417-M	2.71	GS89417	WS89417	–	2.97	85	180	58
81118-TV	0.62	K81118-TV	0.15	GS81118	WS81118	LS90120	0.225	90	120	22
81218-TV	1.77	K81218-TV	0.54	GS81218	WS81218	–	0.614	90	135	35
89318-M	3.63	K89318-M	0.97	GS89318	WS89318	–	1.33	90	155	39
89418-M	9.94	K89418-M	3.04	GS89418	WS89418	–	3.45	90	190	60
81120-TV	0.95	K81120-TV	0.25	GS81120	WS81120	LS100135	0.35	100	135	25
81220-TV	2.2	K81220-TV	0.6	GS81220	WS81220	–	0.8	100	150	38
89320-M	4.56	K89320-M	1.18	GS89320	WS89320	–	1.69	100	170	42
89420-M	13.4	K89420-M	3.92	GS89420	WS89420	–	4.75	100	210	67
81122-TV	1.04	K81122-TV	0.27	GS81122	WS81122	LS110145	0.385	110	145	25
81222-TV	2.29	K81222-TV	0.53	GS81222	WS81222	–	0.88	110	160	38
89322-M	6.7	K89322-M	1.83	GS89322	WS89322	–	2.44	110	190	48
89422-M	17.4	K89422-M	5.11	GS89422	WS89422	–	6.15	110	230	73
81124-TV	1.12	K81124-TV	0.29	GS81124	WS81124	LS120155	0.415	120	155	25
81224-TV	2.54	K81224-TV	0.58	GS81224	WS81224	–	0.98	120	170	39
89324-M	9.44	K89324-M	2.64	GS89324	WS89324	–	3.4	120	210	54
89424-M	21.9	K89424-M	6.37	GS89424	WS89424	–	7.7	120	250	78

Baureihe 811, 812, 893, 894



K 893, K 894



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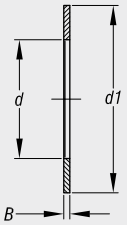

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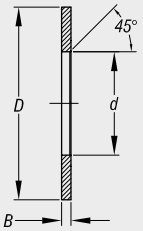
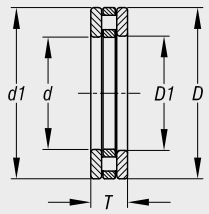


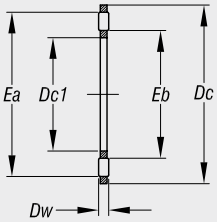
LS

Abmessungen						**Laufbahnmaße**		**Tragzahlen**		**Ermüdungs-grenzbelast.**	**Grenz-drehzahl**	**Bezugs-drehzahl**
(mm)								*(N)*		*(N)*	*min–1*	*min–1*
d(Dc1)	D1	d1	Dw	B	a	Eb	Ea	Ca (dyn.)	C0a(stat.)	Cua	nG	nB
70	72	105	11	8	1	74	102	187000	550000	53000	3300	1130
70	72	125	10	12	1.1	76	123	239000	830000	74000	2950	1200
70	73	150	16	16	2	76	147	475000	1500000	148000	2600	1000
75	77	100	7.5	5.75	1	78	97	107000	350000	35500	3300	1190
75	77	110	11	8	1	79	106	172000	500000	48000	3100	1210
75	77	135	11	12.5	1.5	81	132	285000	1010000	92000	2750	1080
75	78	160	17	17	2	82	156	490000	1530000	150000	2450	1000
80	82	105	7.5	5.75	1	83	102	106000	350000	35500	3100	1170
80	82	115	11	8.5	1	84	112	201000	630000	60000	2950	990
80	82	140	11	12.5	1.5	86	137	305000	1110000	99000	2600	990
80	83	170	18	18	2.1	88	165	550000	1700000	168000	2300	950
85	87	110	7.5	5.75	1	87	108	112000	385000	39000	2950	1070
85	88	125	12	9.5	1	90	119	217000	660000	64000	2750	1060
85	88	150	12	13.5	1.5	93	146	325000	1140000	104000	2450	1030
85	88	180	19	19.5	2.1	93	175	600000	1900000	187000	2170	900
90	92	120	9	6.5	1	93	117	141000	465000	40000	2750	1070
90	93	135	14	10.5	1.1	95	129	290000	890000	88000	2550	910
90	93	155	12	13.5	1.5	98	151	335000	1200000	108000	2350	980
90	93	190	20	20	2.1	99	185	670000	2120000	206000	2060	850
100	102	135	11	7	1	104	131	199000	650000	59000	2450	920
100	103	150	15	11.5	1.1	107	142	340000	1080000	104000	2300	840
100	103	170	13	14.5	1.5	109	166	380000	1400000	122000	2130	910
100	103	210	22	22.5	3	111	205	830000	2750000	260000	1860	720
110	112	145	11	7	1	114	141	207000	700000	62000	2260	850
110	113	160	15	11.5	1.1	117	152	325000	1030000	98000	2130	860
110	113	190	15	16.5	2	120	185	500000	1870000	166000	1920	790
110	113	230	24	24.5	3	121	223	980000	3350000	310000	1690	640
120	122	155	11	7	1	124	151	214000	760000	65000	2090	780
120	123	170	15	12	1.1	127	162	340000	1120000	104000	1990	790
120	123	210	17	18.5	2.1	132	205	640000	2420000	210000	1750	690
120	123	250	26	26	4	133	243	1140000	3900000	360000	1560	580

Axialzylinderrollenlager | Axial-Zylinderrollenkränze | Axiallagerscheiben



811, 812



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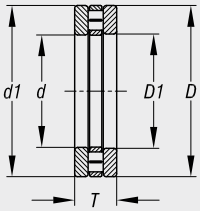
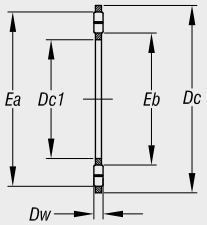


893, 894

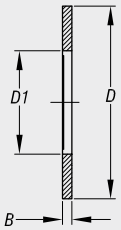
weitere Maße zu dieser Baureihe siehe Folgeseite →

Axial-Zylinder-rollenlager		**Axial-Zylinder rollenkranz**		**Axiallgerscheiben**				**Abmessungen**		
Lager komplett	*Masse (kg)*		*Masse (kg)*	*Gehäusescheibe*	*Wellenscheibe*	*Laufscheibe*	*Masse (kg)*			
Type	m	Type	m	Type	Type	Type	m	d (Dc1)	D (Dc)	T
81126-TV	1.67	K81126-TV	0.38	GS81126	WS81126	LS130170	0.643	130	170	30
81226-TV	3.98	K81226-TV	0.92	GS81226	WS81226	–	1.53	130	190	45
89326-M	11.2	K89326-M	2.09	GS89326	WS89326	–	4.045	130	225	58
89426-M	27.1	K89426-M	7.96	GS89426	WS89426	–	9.5	130	270	85
81128-TV	1.9	K81128-TV	0.4	GS81128	WS81128	LS140180	0.749	140	180	31
81228-M	5.07	K81228-M	1.8	GS81228	WS81228	–	1.635	140	200	46
89328-M	13.2	K89328-M	2.57	GS89328	WS89328	–	4.8	140	240	60
89428-M	29.8	K89428-M	8.53	GS89428	WS89428	–	10.6	140	280	85
81130-TV	2.2	K81130-TV	0.43	GS81130	WS81130	LS150190	0.796	150	190	31
81230-M	7.17	K81230-M	2.81	GS81230	WS81230	–	2.18	150	215	50
89330-M	13.9	K89330-M	3.75	GS89330	WS89330	–	5.06	150	250	60
89430-M	35.4	K89430-M	10.4	GS89430	WS89430	–	12.5	150	300	90
81132-TV	2.12	K81132-TV	0.44	GS81132	WS81132	LS160200	0.842	160	200	31
81232-M	7.6	K81232-M	3.01	GS81232	WS81232	–	2.3	160	225	51
89432-M	42	K89432-M	12.4	GS89432	WS89432	–	14.8	160	320	95
81134-TV	2.41	K81134-TV	0.66	GS81134	WS81134	–	1.1	170	215	34
81234-M	9.3	K81234-M	3.5	GS81234	WS81234	–	2.9	170	240	55
89434-M	51.9	K89434-M	14.9	GS89434	WS89434	–	18.5	170	340	103
81136-M	3.3	K81136-M	1.46	GS81136	WS81136	–	1.12	180	225	34
81236-M	9.9	K81236-M	3.67	GS81236	WS81236	–	3.13	180	250	56
89436-M	60	K89436-M	17.6	GS89436	WS89436	–	21.3	180	360	109
81138-M	4.74	K81138-M	1.84	GS81138	WS81138	–	1.45	190	240	37
81238-M	12.8	K81238-M	5.17	GS81238	WS81238	–	3.835	190	270	62
89438-M	72.1	K89438-M	20.9	GS89438	WS89438	–	25.6	190	380	115
81140-M	4.95	K81140-M	1.93	GS81140	WS81140	–	1.51	200	250	37
81240-M	14.2	K81240-M	5.4	GS81240	WS81240	–	4.41	200	280	62
89440-M	82.6	K89440-M	24	GS89440	WS89440	–	29.3	200	400	122
81144-M	5.22	K81144-M	2.04	GS81144	WS81144	–	1.59	220	270	37
81244-M	15.3	K81244-M	5.8	GS81244	WS81244	–	4.75	220	300	63
89444-M	90.1	K89444-M	25.7	GS89444	WS89444	–	32.2	220	420	122
81148-M	8.45	K81148-M	3.32	GS81148	WS81148	–	2.57	240	300	45

Baureihe 811, 812, 893, 894



K 893, K 894



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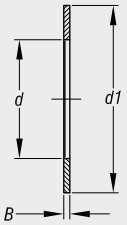

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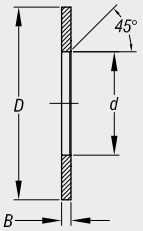

LS

Abmessungen *(mm)*						**Laufbahnmaße**		**Tragzahlen** *(N)*		**Ermüdungs-grenzbelast.** *(N)*	**Grenz-drehzahl** *min–1*	**Bezugs-drehzahl** *min–1*
d(Dc1)	D1	d1	Dw	B	a	Eb	Ea	Ca (dyn.)	C0a(stat.)	Cua	nG	nB
130	132	170	12	9	1	135	165	250000	900000	79000	1920	760
130	133	187	19	13	1.5	137	181	480000	1520000	143000	1800	710
130	134	225	18	20	2.1	141	219	710000	2700000	237000	1620	650
130	134	270	28	28.5	4	145	263	1290000	4500000	395000	1440	530
140	142	178	12	9.5	1	145	175	260000	960000	83000	1800	710
140	143	197	19	13.5	1.5	151	195	455000	1450000	133000	1690	730
140	144	240	19	20.5	2.1	152	234	820000	3200000	275000	1520	570
140	144	280	28	28.5	4	155	273	1370000	4800000	420000	1370	490
150	152	188	12	9.5	1	155	185	270000	1020000	86000	1690	660
150	153	212	21	14.5	1.5	162	210	590000	1940000	175000	1580	650
150	154	250	19	20.5	2.1	162	244	840000	3350000	285000	1440	510
150	154	300	30	30	4	167	293	1560000	5500000	480000	1280	445
160	162	198	12	9.5	1	165	195	260000	990000	82000	1600	670
160	163	222	21	15	1.5	171	219	600000	2030000	181000	1500	610
160	164	320	32	31.5	5	179	313	1760000	6300000	540000	1200	410
170	172	213	14	10	1.1	176	209	360000	1380000	116000	1500	570
170	173	237	22	16.5	1.5	184	233	680000	2340000	207000	1400	600
170	174	340	34	34.5	5	191	333	1960000	7200000	610000	1130	375
180	183	222	14	10	1.1	186	220	340000	1300000	107000	1420	590
180	183	247	22	17	1.5	194	243	640000	2160000	194000	1340	580
180	184	360	36	36.5	5	200	351	2160000	8000000	690000	1070	360
190	193	237	15	11	1.1	198	234	390000	1500000	130000	1340	570
190	194	267	26	18	2	205	263	800000	2650000	237000	1250	530
190	195	380	38	38.5	5	212	371	2400000	9000000	730000	1100	330
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220	223	267	15	11	1.1	228	264	440000	1830000	151000	1180	470
220	224	297	26	18.5	2	236	294	900000	3200000	275000	1110	435
220	225	420	40	41	6	244	411	2900000	11200000	890000	900	270
240	243	297	18	13.5	1.5	253	294	570000	2860000	193000	1070	440

Größere Dimensionen bitte anfragen.

Index - Baureihen

37	1..
37	12..
37	12..-K
37	12..-K+H
37	13..
37	13..-K
37	13..-K+H
37	13..-K+H
37	22..
37	22..-2RS
37	22..-K
37	22..-K-2RS
37	22..-K-2RS+H
37	22..-K+H
37	23..
37	23..-2RS
37	23..-K
23	30..-B
23	30..-B-2RSR
23	30..-B-2Z
23	32..-B
23	32..-B-2RSR
23	32..-B-2Z
23	32..DA
23	33..-B
23	33..-B-2RSR
23	33..-B-2Z
23	33..DA
23	38..-B
23	38..-B-2RSR
23	38..-B-2Z
5	42..-B
5	43..-B
5	60..
5	60..-2RSR
5	60..-2Z
5	60..-C-2HRS
5	62..
5	62..-2RSR
5	62..-2Z
5	62..-C-2HRS
5	63..
5	63..-2RSR
5	63..-2Z
5	63..-C-2HRS
5	64..
23	70..-B
23	70..-B-2RS
23	72..-B
23	72..-B-2RS
23	73..-B
23	73..-B-2RS
37	112..
5	160..
47	202..
47	202..-K
47	202..-K+H
47	203....
47	203..-K
47	203..-K+H
52	213..-E1
52	213..-E1-K
52	213..-E1-K+AH
52	213..-E1-K+H
52	222..
52	222..-E1
52	222..-E1-K
52	222..-E1-K+AH
52	222..-E1-K+H
52	222..-K
52	222..-K+AH
52	222..-K+H
52	223..
52	223..-E1
52	223..-E1-K
52	223..-E1-K+AH
52	223..-E1-K+H
52	223..-K
52	223..-K+AH
52	223..-K+H
52	230..
52	230..-E1(A)
52	230..-E1(A)-K
52	230..-E1-K+AH

Index Baureihen

52	230..-E1-K+H
52	230..-K
52	230..-K+AH
52	230..-K+H
52	231..
52	231..-E1(A)
52	231..-E1(A)-K
52	231..-E1(A)-K+AH
52	231..-E1(A)-K+H
52	231..-K
52	231..-K+AH
52	231..-K+H
52	232..
122	232..-B
52	232..-E1(A)
52	232..-E1(A)-K
52	232..-E1(A)-K+AH
52	232..-E1(A)-K+H
52	232..-K
52	232..-K+AH
52	232..-K+H
52	233..-A
52	239..
52	239..-K
52	239..-K+AH
52	239..-K+H
52	240..
52	240..-E1
52	240..-E1(A)-K
52	240..-E1-K30+AH
52	240..-E1-K30+AH
52	240..-K30
52	241..
52	241..-E1
52	241..-E1(A)-K
52	241..-E1-K30+AH
52	241..-E1-K30+AH
52	241..-K30
122	302..
122	303..
122	313..
122	313..-N11CA
122	320..
122	320..-N11CA
122	322..
122	322..-N11CA
122	323..
122	323..-A
122	329..
122	329..-N11CA
122	330..
122	331..
122	332..
133	511..
133	512..
133	513..
133	514..
133	522..
133	523..
133	523..(+U3)
133	532..(+U2)
133	533..(+U3)
133	542..(+U2)
5	618..
5	618..-2RSR
5	618..-2Z
5	618..-C-2HRS
5	619..
5	619..-2RSR
5	619..-2Z
5	619..-C-2HRS
23	718..-B
23	719..-B
133	Axialrillenkugellager Allgemeines
134	Axialrillenkugellager einseitig wirkend
145	Axial-Zylinderrollenlager Allgemeines
146	Axialzylinderrollenlager | Axial-Zylinderrollenkränze | Axiallagerscheiben
110	Hochgenauigkeitslager | 2-reihig | Reihe NN
122	IKOS
122	K
122	Kegelrollenlager Allgemeines
123	Kegelrollenlager einreihig
132	Kegelrollenlager Zollabmessungen

Indexübersicht - Baureihen

131	Kegelrollenlager zusammengepasst
122	KLM
90	LSL 1923
90	N2..
90	N3..-E
90	NJ2..E
90	NJ2..-E+HJ
90	NJ3..-E
90	NJ3..-E+HJ
90	NJ4..
90	NJ4..+HJ
90	NJ22..-E
90	NJ22..-E+HJ
90	NJ23..-E
90	NJ23..-E+HJ
90	NN30..AS-K-M-SP
90	NU2..-E
90	NU3..-E
90	NU4..
90	NU10..
90	NU19..
90	NU22..-E
90	NU23..-E
90	NUP2..-E
90	NUP3..-E
90	NUP22..-E
90	NUP23..-E
37	Pendelkugellager Allgemeines
44	Pendelkugellager mit breitem Innenring
45	Pendelkugellager mit Spannhülse
38	Pendelkugellager zylindrisch | konisch
52	Pendelrollenlager Allgemeines
74	Pendelrollenlager mir Spannhülse
81	Pendelrollenlager mit Abziehhülse
54	Pendelrollenlager zylindrisch | konisch
34	QJ2..
34	QJ2..-N2
34	QJ3....
34	QJ3..-N2
5	Rillenkugellager Allgemeines
6	Rillenkugellager einreihig
22	Rillenkugellager zweireihig
23	Schrägkugellager Allgemeines
25	Schrägkugellager einreihig
28	Schrägkugellager zweireihig
90	SL04..-PP
90	SL0148
90	SL0149
90	SL0248
90	SL0249
90	SL0450..-PP
90	SL1818
90	SL1822
90	SL1829
90	SL1830
90	SL1850
90	SL1923
122	T
47	Tonnenlager Allgemeines
51	Tonnenlager konisch mit Spannhülse
48	Tonnenlager zylindrisch | konisch
35	Vierpunktlager
34	Vierpunktlager Allgemeines
90	ZSL 1923
141	zweiseitig wirkend
90	Zylinderrollenlager Allgemeines
92	Zylinderrollenlager mit Käfig | Loslager: Reihe N, NU
99	Zylinderrollenlager mit Käfig | Stütz- und Festlager: Reihe NJ, NUP
120	Zylinderrollenlager mit Ringnuten | vollrollig, abgedichtet | Reihe SL 04..PP
111	Zylinderrollenlager mit Scheibenkäfig | Reihe LSL
112	Zylinderrollenlager mit Zwischenstücken | Reihe ZSL
113	Zylinderrollenlager vollrollig | 1 -reihig | Reihe SL 18..

Nachhaltiges Handeln liegt in unserer Verantwortung für die Zukunft, durch die Lebenseinstellung aller Mitwirkenden werden wertvolle Beiträge für die Umwelt sichtbar. Als herstellerunabhängiger Händler haben wir die idealen Voraussetzungen, am Weltmarkt energiesparende und umweltschonende Produkte in passender Kosten/Nutzenrelation zu beschaffen.

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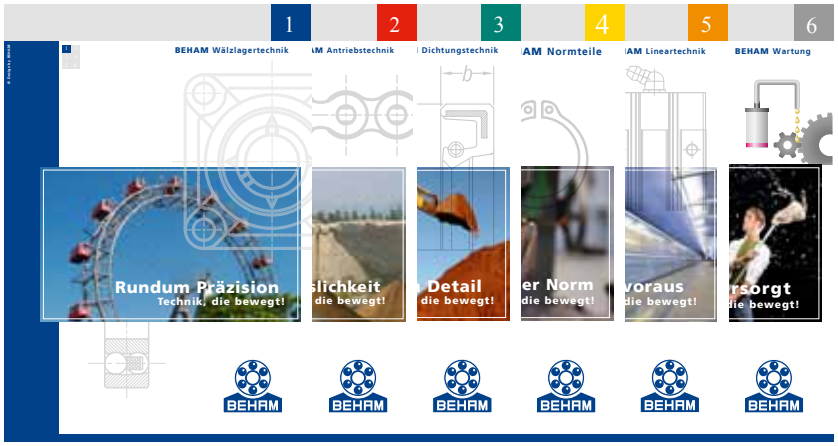

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