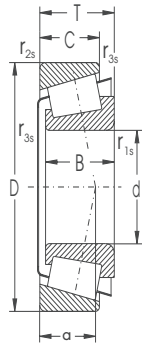
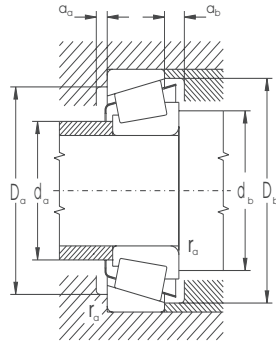


### Einreihige Kegelrollenlager d = 15 bis 45 mm



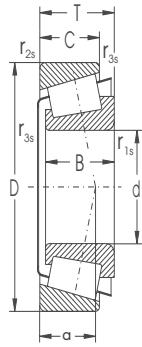
Abmessungen									Tragzahl		Ermüdungs- grenz- belastung P <sub>u</sub>	Grenzdrehzahl für Schmierung mit	
d	D	B	C	T	r <sub>1s</sub> min	r <sub>2s</sub> min	r <sub>3s</sub> min	a	C <sub>d</sub>	C <sub>st</sub>		Fett	Öl
mm									kN		kN	min <sup>-1</sup>	
15	42	13	11.0	14.25	1.0	1.0			21.9	19.02	2.32	10000	14000
17	47	14	12.0	15.25	1.0	1.0	0.3	11	25.1	22.80	2.78	10000	13000
20	42	15	12.0	15.00	0.6	0.6	0.3	10	22.8	29.00	3.54	9000	13000
	47	14	12.0	15.25	1.0	1.0	0.3	11	25.1	26.10	3.18	8900	12000
	52	15	13.0	16.25	1.5	1.5	0.6	11	30.4	29.90	3.65	8400	11000
	52	21	18.0	22.25	1.5	1.5	0.6	13	43.8	45.50	5.55	8400	11000
25	47	15	11.5	15.00	0.6	0.6	0.3	12	24.2	28.70	3.50	8400	11000
	52	15	13.0	16.25	1.0	1.0	0.3	12	29.9	33.50	4.09	7500	10000
	52	18	16.0	19.25	1.0	1.0			36.4	43.20	5.27	7900	11000
	52	22	18.0	22.00	1.0	1.0			48.9	58.50	7.13	7900	10000
	62	17	15.0	18.25	1.5	1.5	0.6	13	43.8	42.10	5.13	6900	9200
	62	17	15.0	18.25	1.5	1.5	0.6	13	39.8	38.30	4.67	7100	9400
	62	17	13.0	18.25	1.5	1.5	0.6	20	36.2	39.10	4.77	6700	8900
62	24	20.0	25.25	1.5	1.5	0.6	15	57.3	60.70	7.40	6700	8900	
30	55	17	13.0	17.00	1.0	1.0	0.3	13	35.5	43.80	5.34	7100	9400
	62	16	14.0	17.25	1.0	1.0	0.3	14	39.3	42.80	5.22	6500	8700
	62	16	14.0	17.25	1.0	1.0	0.3	14	40.6	44.70	5.45	6700	8900
	62	20	17.0	21.25	1.0	1.0	0.3	15	50.1	59.60	7.27	6700	8900
	72	19	16.0	20.75	1.5	1.5	0.6	15	53.1	53.10	6.48	5600	7500
	72	19	14.0	20.75	1.5	1.5	0.6	23	46.4	50.10	6.11	5300	7100
	72	27	23.0	28.75	1.5	1.5	0.6	20	76.4	85.80	10.46	5600	7500
32	58	17	13.0	17.00	1.0	1.0	0.3	14	39.8	48.20	5.88	7100	9400
35	62	18	14.0	18.00	1.0	1.0	0.3	15	43.0	53.10	6.48	6300	8400
	72	17	15.0	18.25	1.5	1.5	0.6	15	46.4	51.10	6.23	5300	7100
	72	23	19.0	24.25	1.5	1.5	0.6	17	64.3	76.40	9.32	5300	7100
	80	21	18.0	22.75	2.0	1.5	0.6	16	65.6	69.40	8.46	5000	6700
	80	21	15.0	22.75	2.0	1.5	0.6	26	57.3	63.10	7.70	4700	6300
	80	31	25.0	32.75	2.0	1.5	0.6	20	94.4	110.00	13.41	4700	6300
40	68	19	14.5	19.00	1.0	1.0	0.3	15	48.2	64.30	7.84	5300	7100
	80	18	16.0	19.75	1.5	1.5	0.6	17	55.2	60.70	7.40	4700	6300
	80	23	19.0	24.75	1.5	1.5	0.6	18	70.8	85.50	10.43	4700	6300
	90	23	20.0	25.25	2.0	1.5	0.6	18	84.3	93.20	11.37	4500	6000
	90	23	20.0	25.25	2.0	1.5	0.6	19	82.5	94.40	11.51	4500	6000
	90	23	17.0	25.25	2.0	1.5	0.6	29	76.4	85.80	10.46	4000	5300
	90	33	27.0	35.25	2.0	1.5	0.6	22	114.0	141.00	17.20	4200	5600
	90	33	27.0	35.25	2.0	1.5	0.6	27	104.2	136.60	16.66	4100	5400
	90	33	27.0	35.25	2.0	1.5	0.6	27	104.0	144.00	17.56	4200	5600
	45	75	20	15.5	20.00	1.0	1.0	0.3	17	57.3	79.40	9.68	4700
85		19	16.0	20.75	1.5	1.5	0.6	18	61.9	70.80	8.63	4500	6000
85		23	19.0	24.75	1.5	1.5	0.6	20	73.6	90.90	11.09	4500	6000
100		25	22.0	27.25	2.0	1.5	0.6	21	107.0	118.00	14.39	4000	5300
100		25	22.0	27.25	2.0	1.5	0.6	21	104.0	117.00	14.27	4000	5300
100		25	18.0	27.25	2.0	1.5	0.6	32	92.6	104.00	12.68	3800	5000



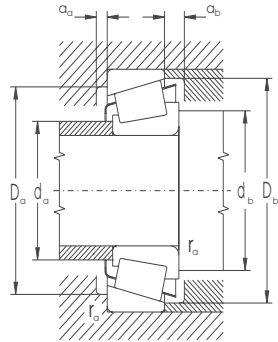
Lagerbezeichnung		Anschlußmasse									Gewicht	Faktoren		
STN	ISO	d	d <sub>a</sub>	d <sub>b</sub>	D <sub>a</sub>	D <sub>b</sub>	D <sub>e</sub>	a <sub>a</sub>	a <sub>b</sub>	r <sub>a</sub>	~	e	Y	Y <sub>2</sub>
		max	min	min	max	min	min	min	max	max				
		mm									kg			
30302F		15	22	21	35.0	36	38.0	2	3.0	1.0	0.100	0.32	2.11	
30303AJ2	T2FB017	17	25	23	39.0	41	42.0	2	3.0	1.0	0.140	0.29	2.10	1.20
32004AX	T3CC020	20	25	25	36.0	37	39.0	3	3.0	0.6	0.102	0.37	1.60	0.90
30204A	T2DB020	26	26	26	39.0	41	43.0	2	3.0	1.0	0.136	0.35	1.70	1.00
30304A	T2FB020	27	27	27	43.0	45	47.0	2	3.0	1.0	0.179	0.30	2.00	1.10
32304A	T2FD020	27	27	27	43.0	45	47.0	2	4.0	1.0	0.267	0.30	2.00	1.10
32005AX	T4CC025	25	30	31	40.5	42	44.0	3	3.5	0.6	0.117	0.43	1.40	0.80
30205A	T3CC025	31	31	31	43.0	46	48.0	2	3.0	1.0	0.167	0.37	1.60	0.90
32205F		31	31	31	43.0	46	48.0	2	3.0	1.0	0.200	0.36	1.03	
33205F		30	31	31	43.0	46	49.0	4	4.0	1.0	0.225	0.35	1.71	
30305A	T2FB025	33	32	32	53.0	55	57.0	2	3.0	1.0	0.288	0.30	2.00	1.10
30305AJ2	T2FB025	33	32	32	53.0	55	57.0	2	3.0	1.0	0.265	0.30	2.00	1.10
31305A	T7FB025	33	32	32	46.0	55	59.0	2	5.0	1.0	0.271	0.83	0.70	0.40
32305A	T2FD025	33	32	32	53.0	55	57.0	2	5.0	1.0	0.404	0.30	2.00	1.10
32006AX	T4CC030	30	35	36	47.5	49	52.0	3	4.0	1.0	0.181	0.43	1.40	0.80
30206A	T3DB030	37	36	36	52.0	56	57.0	2	3.0	1.0	0.252	0.37	1.60	0.90
30206AJ2	T3DB030	37	36	36	52.0	56	57.0	2	3.0	1.0	0.252	0.37	1.60	0.90
32206A	T3DC030	37	36	36	52.0	56	58.5	2	4.0	1.0	0.320	0.37	1.60	0.90
30306A	T2FB030	38	37	37	61.0	65	66.0	2	4.5	1.0	0.419	0.32	1.90	1.10
31306AJ2	T7FB030	39	37	37	55.0	65	68.0	2	6.5	1.0	0.390	0.83	0.70	0.40
32306A	T2FD030	38	37	37	61.0	65	66.0	2	5.5	1.0	0.628	0.32	1.90	1.10
32032AX	T4CC032	32	38	38	50.0	52	55.0	3	4.0	1.0	0.196	0.45	1.30	0.70
32007AX	T4CC035	35	40	41	54.0	56	59.0	4	4.0	1.0	0.243	0.45	1.30	0.70
30207A	T3DB035	43	42	42	61.0	65	67.0	3	3.0	1.0	0.361	0.37	1.60	0.90
32207A	T3DC035	43	42	42	61.0	65	68.5	3	5.0	1.0	0.480	0.37	1.60	0.90
30307A	T2FB035	43	44	44	68.0	71	74.0	3	4.5	1.5	0.551	0.32	1.90	1.10
31307AJ2	T7FB035	43	44	44	61.0	71	76.0	3	7.5	1.5	0.520	0.83	0.70	0.40
32307A	T2FE035	43	44	44	68.0	71	74.0	3	7.5	1.5	0.827	0.32	1.90	1.10
32008AX	T3CD040	40	45	46	60.0	62	65.0	4	4.5	1.0	0.290	0.38	1.60	0.90
30208A	T3DB040	48	47	47	68.0	73	75.5	3	3.5	1.0	0.452	0.37	1.60	0.90
32208A	T3DC040	48	47	47	68.0	73	75.0	3	5.5	1.0	0.594	0.37	1.60	0.90
30308A	T2FB040	50	49	49	76.0	81	82.0	3	5.0	1.5	0.773	0.35	1.70	1.00
30308AJ2	T2FB040	50	49	49	76.0	81	82.0	3	5.0	1.5	0.773	0.35	1.70	1.00
31308A	T7FB040	50	49	49	70.0	81	86.0	3	8.0	1.5	0.776	0.83	0.70	0.40
32308A	T2FD040	50	49	49	76.0	81	82.0	3	8.0	1.5	1.120	0.35	1.70	1.00
32308BA	T5FD040	50	49	49	70.0	81	85.0	4	8.0	1.5	1.110	0.54	1.10	0.60
32308BAJ2	T5FD040	50	49	49	70.0	81	85.0	4	8.0	1.5	0.990	0.54	1.10	0.60
32009AX	T3CC045	45	50	51	66.0	69	72.0	4	4.5	1.0	0.355	0.39	1.50	0.80
30209A	T3DB045	53	52	52	73.0	78	80.0	3	4.5	1.0	0.527	0.41	1.50	0.80
32209A	T3DC045	53	52	52	73.0	78	81.5	3	5.5	1.0	0.641	0.41	1.50	0.80
30309A	T2FB045	56	54	54	85.0	91	92.0	3	5.0	1.5	1.040	0.35	1.70	1.00
30309AJ2	T2FB045	56	54	54	85.0	91	92.0	3	5.0	1.5	1.040	0.35	1.70	1.00
31309A	T7FB045	55	54	54	78.0	91	95.0	3	9.0	1.5	1.030	0.83	0.70	0.40



### Einreihige Kegelrollenlager d = 45 bis 75 mm



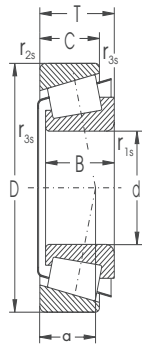
Abmessungen									Tragzahl		Ermüdungs- grenz- belastung P <sub>u</sub>	Grenzdrehzahl für Schmierung mit	
d	D	B	C	T	r <sub>1s</sub> min	r <sub>2s</sub> min	r <sub>3s</sub> min	a	C <sub>d</sub>	C <sub>st</sub>		Fett	Öl
mm									kN		kN	min <sup>-1</sup>	
45	100	36	30.0	38.25	2.0	1.5	0.6	25	144.0	181.0	22.07	3800	5000
	100	36	30.0	38.25	2.0	1.5	0.6	31	131.0	174.0	21.22	3800	5000
50	80	20	15.5	20.00	1.0	1.0	0.3	18	59.6	87.4	10.66	4500	6000
	90	20	17.0	21.75	1.5	1.5	0.6	20	70.8	87.4	10.66	4200	5600
	90	23	19.0	24.75	1.5	1.5	0.6	21	81.0	102.0	12.44	4200	5600
	110	27	23.0	29.25	2.5	2.0	0.6	23	121.0	141.0	17.20	3800	5000
	110	27	19.0	29.25	2.5	2.0	0.6	35	102.0	114.0	13.90	3300	4500
	110	40	33.0	42.25	2.5	2.0	0.6	27	174.0	224.0	27.32	3300	4500
55	110	40	33.0	42.25	2.5	2.0	0.6	33	156.0	212.0	25.85	3200	4400
	90	23	17.5	23.00	1.5	1.5	0.6	20	76.4	108.0	13.17	4000	5300
	100	21	18.0	22.75	2.0	1.5	0.6	21	81.0	96.2	11.73	3800	5000
	100	25	21.0	26.75	2.0	1.5	0.6	22	102.0	128.0	15.61	3800	5000
	120	29	25.0	31.50	2.5	2.0	0.6	25	136.0	162.0	19.76	3300	4500
	120	29	21.0	31.50	2.5	2.0	0.6	38	117.0	136.0	16.59	3000	4000
60	120	43	35.0	45.50	2.5	2.0	0.6	29	200.0	256.0	31.22	3300	4500
	95	23	17.5	23.00	1.5	1.5	0.6	21	81.0	119.0	14.51	3800	5000
	110	22	19.0	23.75	2.0	1.5	0.6	22	94.4	117.0	14.27	3300	4500
	110	28	24.0	29.75	2.0	1.5	0.6	25	126.0	162.0	19.76	3300	4500
	130	31	26.0	33.50	3.0	2.5	1.0	26	162.0	188.0	22.93	3000	4000
	130	31	22.0	33.50	3.0	2.5	1.0	41	136.0	158.0	19.27	2800	3800
65	130	46	37.0	48.50	3.0	2.5	1.0	31	228.0	299.0	36.46	2800	3800
	130	46	37.0	48.50	3.0	2.5	1.0	39	200.0	293.0	35.73	2500	3300
	100	23	17.5	23.00	1.5	1.5	0.6	23	81.0	123.0	15.00	3300	4500
	110	34	26.5	34.00	1.5	1.5	0.6	26	136.0	207.0	25.24	3800	5300
	120	23	20.0	24.75	2.0	1.5	0.6	24	112.0	136.0	16.59	3000	4000
	120	31	27.0	32.75	2.0	1.5	0.6	28	150.0	200.0	24.39	3000	4000
	120	41	32.0	41.00	2.0	1.5	0.6	30	191.0	267.0	32.56	3000	4000
	140	33	28.0	36.00	3.0	2.5	1.0	28	185.0	220.0	26.63	2800	3800
70	140	33	23.0	36.00	3.0	2.5	1.0	44	150.0	178.0	21.55	2800	3800
	140	48	39.0	51.00	3.0	2.5	1.0	33	261.0	331.0	40.07	2800	3800
	110	25	19.0	25.00	1.5	1.5	0.6	24	98.1	147.0	17.93	3300	4500
	125	24	21.0	26.25	2.0	1.5	0.6	26	121.0	153.0	18.66	3000	4000
	125	31	27.0	33.25	2.0	1.5	0.6	29	155.0	203.0	24.76	2800	3800
	150	35	30.0	38.00	3.0	2.5	1.0	30	211.0	251.0	29.75	2700	3500
	150	35	25.0	38.00	3.0	2.5	1.0	47	178.0	211.0	25.01	2700	3500
	150	51	42.0	54.00	3.0	2.5	1.0	36	293.0	398.0	47.17	2700	3500
75	115	25	19.0	25.00	1.5	1.5	0.6	25	104.0	158.0	19.27	3000	4000
	130	25	22.0	27.25	2.0	1.5	0.6	28	128.0	165.0	19.97	2800	3800
	130	31	27.0	33.25	2.0	1.5	0.6	30	162.0	220.0	26.63	2800	3800
	130	41	31.0	41.00	2.0	1.5	0.6	32	196.0	299.0	36.19	2800	3800
	160	37	31.0	40.00	3.0	2.5	1.0	32	242.0	287.0	33.35	2500	3300
	160	55	45.0	58.00	3.0	2.5	1.0	38	341.0	464.0	53.91	2400	3200
	160	55	45.0	58.00	3.0	2.5	1.0	47	304.0	464.0	53.91	2000	2700



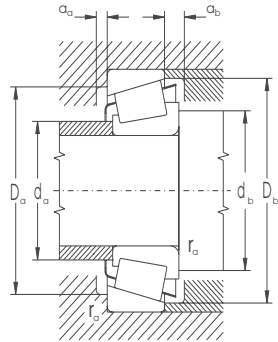
Lagerbezeichnung		Anschlußmasse									Gewicht	Faktoren		
STN	ISO	d	d <sub>a</sub> max	d <sub>b</sub> min	D <sub>a</sub> min	D <sub>b</sub> max	D <sub>e</sub> min	a <sub>a</sub> min	a <sub>b</sub> min	r <sub>a</sub> max	~	e	Y	Y <sub>2</sub>
mm											kg			
32309A	T2FD045	45	56	54	85	91	93.0	3	8.0	1.5	1.530	0.35	1.70	1.00
32309BAJ2	T5FD045		55	54	76	91	94.0	5	8.0	1.5	1.540	0.54	1.10	0.60
32010AX	T3CC050	50	55	56	71	74	77.0	4	4.5	1.0	0.395	0.42	1.40	0.80
30210A	T3DB050	58	57	78	83	86.5	3	4.5	1.0	0.602	0.42	1.40	0.80	
32210A	T3DC050	58	57	78	83	85.0	3	5.5	1.0	0.667	0.42	1.40	0.80	
30310A	T2FB050	62	60	94	100	102.0	3	6.0	2.0	1.320	0.35	1.70	1.00	
31310A	T7FB050	61	60	85	100	104.0	3	10.0	2.0	1.290	0.83	0.70	0.40	
32310A	T2FD050	62	60	94	100	102.0	3	9.0	2.0	2.010	0.35	1.70	1.00	
32310BA	T5FD050	62	60	83	100	103.0	5	9.0	2.0	1.990	0.54	1.10	0.60	
32011AX	T3CC055	55	61	62	80	83	86.0	4	5.5	1.0	0.592	0.41	1.50	0.80
30211A	T3DB055	63	64	87	91	94.0	4	4.5	1.5	0.759	0.41	1.50	0.80	
32211A	T3DC055	63	64	87	91	95.0	4	5.5	1.5	0.915	0.41	1.50	0.80	
30311A	T2FB055	67	65	103	110	111.0	4	6.5	2.0	1.710	0.35	1.70	1.00	
31311A	T7FB055	67	65	92	110	113.0	4	10.5	2.0	1.630	0.83	0.70	0.40	
32311A	T2FD055	67	65	103	110	111.0	4	10.5	2.0	2.500	0.35	1.70	1.00	
32012AX	T4CC060	60	66	67	85	88	91.0	4	5.5	1.0	0.632	0.43	1.40	0.80
30212A	T3EB060	69	69	95	101	105.5	4	4.5	1.5	0.967	0.41	1.50	0.80	
32212A	T3EC060	69	69	95	101	104.0	4	5.5	1.5	1.270	0.41	1.50	0.80	
30312A	T2FB060	73	72	112	118	120.0	4	7.5	2.0	2.090	0.35	1.70	1.00	
31312A	T7FB060	72	72	103	118	123.0	4	11.5	2.0	2.030	0.83	0.70	0.40	
32312A	T2FD060	73	72	112	118	120.0	4	11.5	2.0	3.070	0.35	1.70	1.00	
32312B	T5FD060	73	72	99	118	122.0	6	11.5	2.0	3.160	0.54	1.10	0.60	
32013AX	T4CC065	65	71	72	90	93	97.0	4	5.5	1.0	0.675	0.46	1.30	0.70
33113A	T3DE065	74	72	96	103	106.0	6	7.5	1.0	1.300	0.39	1.50	0.80	
30213A	T3EB065	75	74	105	111	113.0	4	4.5	1.5	1.230	0.41	1.50	0.80	
32213A	T3EC065	75	74	105	111	115.0	4	5.5	1.5	1.660	0.41	1.50	0.80	
33213A	T3EE065	75	74	102	111	115.0	6	9.0	1.5	2.060	0.39	1.50	0.90	
30313A	T2GB065	80	77	121	128	130.0	4	8.0	2.0	2.550	0.35	1.70	1.00	
31313A	T7GB065	78	77	109	128	132.0	4	13.0	2.0	2.450	0.83	0.70	0.40	
32313A	T2GD065	80	77	121	128	130.0	4	12.0	2.0	3.770	0.35	1.70	1.00	
32014AX	T4CC070	70	77	77	98	103	105.0	5	6.0	1.5	0.893	0.44	1.40	0.80
30214A	T3EB070	80	79	108	116	118.0	4	5.0	1.5	1.370	0.42	1.40	0.80	
32214A	T3EC070	80	79	108	116	119.0	4	6.0	1.5	1.730	0.42	1.40	0.80	
30314A	T2GB070	85	82	129	138	140.0	4	8.0	2.0	3.070	0.35	1.70	1.00	
31314A	T7GB070	83	82	118	138	141.0	4	13.0	2.0	3.010	0.83	0.70	0.40	
32314A	T2GD070	85	82	129	138	140.0	4	12.0	2.0	4.550	0.35	1.70	1.00	
32015AX	T4CC075	75	82	82	103	108	110.0	5	6.0	1.0	0.955	0.46	1.30	0.70
30215A	T4DB075	85	84	113	121	124.0	4	5.0	1.5	1.470	0.44	1.40	0.80	
32215A	T4DC075	85	84	113	121	121.0	4	6.0	1.5	1.820	0.44	1.40	0.80	
33215A	T3EE075	85	84	111	121	125.0	6	10.0	1.5	2.300	0.43	1.40	0.80	
30315A	T2GB075	91	87	138	148	149.0	4	9.0	2.0	3.720	0.35	1.70	1.00	
32315A	T2GD075	91	87	138	148	149.0	4	13.0	2.0	5.620	0.35	1.70	1.00	
32315B	T5GD075	90	87	128	148	150.0	7	12.5	2.0	5.600	0.54	1.10	0.60	



### Einreihige Kegelrollenlager d = 80 bis 140 mm



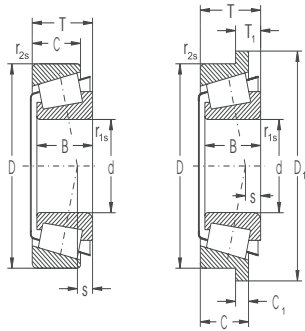
Abmessungen									Tragzahl		Ermüdungs- grenz- belastung $P_u$	Grenzdrehzahl für Schmierung mit	
d	D	B	C	T	$r_{1s}$ min	$r_{2s}$ min	$r_{3s}$ min	a	dynamische $C_d$	statische $C_{st}$		Fett	Öl
mm									kN		kN	min <sup>-1</sup>	
80	125	29	22.0	29.00	1.5	1.5	0.6	27	131.0	207.0	25.06	2800	3800
	130	37	29.0	37.00	2.0	1.5	0.6	31	190.0	300.0	36.05	3200	4200
	140	26	22.0	28.25	2.5	2.0	0.6	29	144.0	178.0	21.10	2800	3800
	140	33	28.0	35.25	2.5	2.0	0.6	32	181.0	251.0	29.75	2800	3800
85	130	29	22.0	29.00	1.5	1.5	0.6	28	136.0	215.0	25.66	2800	3800
	130	36	29.5	36.00	1.5	1.5	0.6	26	195.0	319.0	38.07	3000	4000
	150	28	24.0	30.50	2.5	2.0	0.6	30	181.0	207.0	24.05	2700	3500
	150	36	30.0	38.50	2.5	2.0	0.6	34	212.4	290.2	33.72	2400	3300
	150	36	30.0	38.50	2.5	2.0	0.6	34	237.0	293.0	34.04	2700	3500
	150	49	37.0	49.00	2.5	2.0	0.6	37	278.0	418.0	48.57	2200	3200
90	140	32	24.0	32.00	2.0	1.5	0.6	30	150.0	228.0	26.66	2700	3500
	140	39	32.5	39.00	2.0	1.5	0.6	28	223.0	370.0	43.27	2800	3800
	150	45	35.0	45.00	2.5	2.0	0.6	36	265.0	420.0	48.49	2800	3800
	160	30	26.0	32.50	2.5	2.0	0.6	31	185.0	242.0	27.60	2400	3200
	160	40	34.0	42.50	2.5	2.0	0.6	37	251.0	355.0	40.49	2400	3200
	170	32	24.0	32.00	2.0	1.5	0.6	31	174.0	280.0	32.33	2700	3500
95	145	32	24.0	32.00	2.0	1.5	0.6	31	174.0	280.0	32.33	2700	3500
	145	39	32.5	39.00	2.0	1.5	0.6	29	228.0	385.0	44.45	2700	3500
	170	32	27.0	34.50	3.0	2.5	1.0	33	214.0	272.0	30.49	2000	2900
	170	43	37.0	45.50	3.0	2.5	1.0	38	310.0	437.0	48.98	2700	3500
100	150	32	24.0	32.00	2.0	1.5	0.6	33	178.0	261.0	29.77	2800	3800
	150	39	32.5	39.00	2.0	1.5	0.6	29	234.0	400.0	45.62	2500	3300
	180	34	29.0	37.00	3.0	2.5	1.0	37	266.0	346.0	38.14	2500	3300
	180	46	39.0	49.00	3.0	2.5	1.0	41	348.0	496.0	54.68	2500	3300
105	160	35	26.0	35.00	2.5	2.0	0.6	35	205.0	337.0	37.77	2600	3400
	160	43	34.0	43.00	2.5	2.0	0.6	31	260.0	445.0	49.87	2400	3200
	190	36	30.0	39.00	3.0	2.5	1.0	37	293.0	387.0	42.00	2400	3200
	190	50	43.0	53.00	3.0	2.5	1.0	44	393.0	570.0	61.86	2400	3200
110	170	38	29.0	38.00	2.5	2.0	0.6	37	246.0	390.0	42.99	2500	3300
	170	47	37.0	47.00	2.5	2.0	0.6	33	300.0	520.0	57.33	2200	3000
	200	38	32.0	41.00	3.0	2.5	1.0	39	304.0	402.0	42.98	1800	2500
	200	53	46.0	56.00	3.0	2.5	1.0	46	433.0	630.0	67.36	2200	3000
120	180	38	29.0	38.00	2.5	2.0	0.6	40	254.0	430.0	46.43	2400	3200
	215	40	34.0	43.50	3.0	2.5	1.0	43	339.0	452.0	47.22	1600	2200
	215	58	50.0	61.50	3.0	2.5	1.0	52	462.0	685.0	71.56	1600	2200
130	200	45	34.0	45.00	2.5	2.0	0.6	43	330.0	560.0	58.77	2100	2800
	140	210	45	34.0	45.00	2.5	2.0	0.6	46	335.0	580.0	59.80	1700



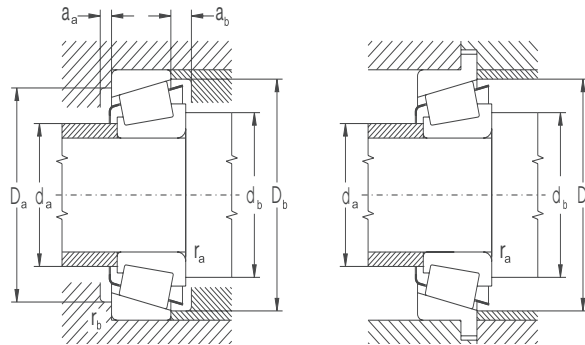
Lagerbezeichnung		Anschlußmasse										Gewicht	Faktoren		
STN	ISO	d	d <sub>a</sub>	d <sub>b</sub>	D <sub>a</sub>	D <sub>b</sub>	D <sub>e</sub>	a <sub>a</sub>	a <sub>b</sub>	r <sub>a</sub>	r <sub>b</sub>	~	e	Y	Y <sub>2</sub>
		mm										kg			
32016AX	T3CC080	80	87	87	112	118	120.0	6	7.0	1.0	1.320	0.42	1.40	0.80	
33116A	T3DE080	89	89	114	121	126.0	6	8.0	1.5	1.930	0.42	1.40	0.80		
30216A	T3EB080	90	90	122	130	132.0	4	6.0	2.0	1.750	0.42	1.40	0.80		
32216A	T3EC080	90	90	122	130	134.0	4	7.0	2.0	2.290	0.42	1.40	0.80		
32017AX	T4CC085	85	92	92	117	123	125.0	6	7.0	1.0	1.410	0.44	1.40	0.70	
33017A	T2CE085	92	93	117	123	125.0	6	6.5	1.0	1.730	0.29	2.10	1.10		
30217A	T3EB085	96	95	132	140	141.0	5	6.0	2.0	2.140	0.42	1.40	0.80		
32217A	T3EC085	96	95	130	140	142.0	5	8.5	2.0	2.850	0.42	1.40	0.80		
32217AJ2	T3EC085	96	95	130	140	142.0	5	8.5	2.0	2.850	0.42	1.40	0.80		
33217A	T3EE085	96	95	128	140	144.0	7	12.0	2.0	3.690	0.42	1.40	0.80		
32018AX	T3CC090	90	99	99	124	131	134.0	6	8.0	1.5	1.780	0.42	1.40	0.80	
33018A	T2CE090	99	99	124	131	135.0	6	6.5	1.5	2.250	0.27	2.20	1.20		
33118A	T3DE090	101	100	130	140	144.0	7	10.0	2.0	3.200	0.40	1.50	0.80		
30218A	T3FB090	102	100	138	150	150.0	5	6.0	2.0	2.710	0.42	1.40	0.80		
32218A	T3FC090	102	100	138	150	152.0	5	8.5	2.0	3.600	0.42	1.40	0.80		
32019AX	T4CC095	95	105	104	130	136	139.0	6	8.0	1.5	1.870	0.44	1.40	0.80	
33019A	T2CE095	103	104	130	136	139.0	6	6.5	1.5	2.340	0.28	2.10	1.20		
30219A	T3FB095	107	110	148	158	159.0	5	7.0	2.0	3.160	0.42	1.40	0.80		
32219A	T3FC095	107	110	148	158	161.0	5	10.0	2.0	4.320	0.42	1.40	0.80		
32020AX	T4CC100	100	109	109	134	141	144.0	6	8.0	1.5	1.940	0.46	1.30	0.70	
33020A	T2CE100	109	110	134	141	144.0	6	6.5	1.5	2.470	0.28	2.10	1.10		
30220A	T3FB100	114	112	155	168	168.0	5	8.0	2.0	3.810	0.42	1.40	0.80		
32220A	T3FC100	114	112	155	168	171.0	5	10.0	2.0	5.210	0.42	1.40	0.80		
32021AX	T4DC105	105	116	115	143	150	154.0	6	9.0	2.0	2.510	0.44	1.40	0.70	
33021A	T2DE105	116	116	143	150	153.0	6	9.0	2.0	3.060	0.28	2.10	1.20		
30221A	T3FB105	120	117	163	178	178.0	8	9.0	2.0	4.940	0.42	1.40	0.80		
32221A	T3FC105	120	117	163	178	178.0	6	10.0	2.0	6.380	0.42	1.40	0.80		
32022AX	T4DC110	110	120	120	152	160	163.0	6	9.0	2.0	3.090	0.43	1.40	0.80	
33022A	T2DE110	121	121	150	159	160.0	6	10.0	2.0	3.870	0.29	2.10	1.20		
30222A	T3FB110	125	122	171	188	187.0	8	9.0	2.0	5.320	0.44	1.40	0.80		
32222A	T3FC110	125	122	171	188	190.0	6	10.0	2.0	7.560	0.44	1.40	0.80		
32024AX	T4DC120	120	130	130	162	170	173.0	6	9.0	2.0	3.320	0.46	1.30	0.70	
30224A	T4FB120	135	132	187	203	201.0	9	9.0	2.0	6.330	0.44	1.40	0.80		
32224A	T4FD120	135	132	184	203	204.0	9	11.5	2.0	9.420	0.44	1.40	0.80		
32026AX	T4EC130	130	140	140	178	190	192.0	8	11.0	2.0	5.050	0.44	1.40	0.80	
32028AX	T4DC140	140	150	150	186	200	202.0	8	11.0	2.0	5.260	0.46	1.30	0.70	



**Einreihige Kegelrollenlager in Zollabmessungen**  
 d = 15.875 bis 38.100 mm



Abmessungen											Tragzahl		Ermüdungs- grenz- belastung $P_e$	Grenzdrehzahl für Schmierung mit Fett    Öl	
d	D	D <sub>1</sub>	B	C	C <sub>1</sub>	T	T <sub>1</sub>	r <sub>1s</sub> min	r <sub>2s</sub> min	s	C <sub>d</sub>	C <sub>st</sub>			
mm											kN		kN	min <sup>-1</sup>	
15.88	42.86		14.288	9.525		14.288		1.50	1.50	1.30	17.30	18.60	2.27	9500	14000
16.00	47.00		21.000	16.000		21.000		1.00	2.00	6.00	36.90	40.60	4.95	8400	11000
17.46	39.88		14.605	10.670		13.843		1.30	1.30	4.80	21.10	21.50	2.62	10000	13000
19.05	45.24		16.637	12.065		15.494		1.30	1.30	5.60	25.60	26.60	3.24	8900	12000
21.99	45.24		16.637	12.065		15.494		1.20	1.20	5.30	28.70	29.90	3.65	8400	11000
22.00	45.00	51.5	16.637	12.065	3.000	15.494	6.43	1.20	1.20	5.40	28.70	29.90	3.65	8400	11000
25.40	50.29		14.732	10.668		14.224		1.30	1.30	3.30	24.60	28.70	3.50	7500	10000
	* 50.29		14.732	10.668		14.224		1.30	1.30	3.30	24.60	28.70	3.50	7500	10000
	59.93		23.114	18.288		23.368		0.80	1.57	5.10	44.70	66.80	8.15	5600	7500
26.99	50.29		14.732	10.668		14.224		3.56	1.30	3.30	24.60	28.70	3.50	7500	10000
29.00	50.29		14.732	10.668		14.224		3.60	1.20	3.20	25.60	33.50	4.09	7100	9400
30.00	62.00	68.5	18.100	15.536	3.556	17.250	5.27	1.00	1.50	3.30	44.70	44.70	5.45	6700	8900
30.16	64.29		21.433	16.670		21.433		1.57	1.57	3.30	44.70	59.60	7.27	5600	7500
31.75	59.13		16.764	11.811		15.875		4.75	1.30	2.90	31.60	38.30	4.67	6700	8900
	62.00		19.050	14.288		18.161		4.75	1.30	5.20	47.30	58.40	7.12	6300	8400
34.93	65.09		18.288	13.970		18.034		4.75	1.30	3.70	43.00	53.10	6.48	5600	7500
	73.03		24.608	19.050		23.813		3.56	2.36	6.60	57.30	76.40	9.32	5300	6700
35.00	60.00		16.764	11.938		15.875		4.75	1.30	2.50	31.60	42.20	5.15	6300	8400
38.00	63.00		17.000	13.500		17.000		1.50	1.50	2.30	42.20	55.20	6.73	6700	8900
38.10	65.09		18.288	13.970		18.034		2.30	1.10	5.00	49.20	60.70	7.40	5600	7500

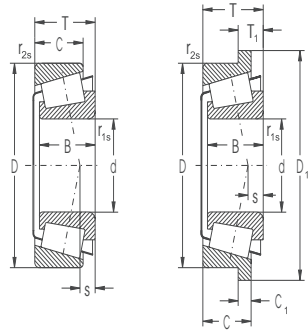


Lagerbezeichnung	Anschlußmasse										Gewicht	Abmessungsabweichung						Faktoren		
	d <sub>a</sub>	d <sub>b</sub>	D <sub>a</sub>	D <sub>d</sub>	D <sub>e</sub>	a	b	r	r <sub>1</sub>	r <sub>2</sub>		~	Δdmp	ΔDmp	ΔTs	e	Y	Y <sub>0</sub>		
Innen	max	min	min	max	min	min	min	max	max		kg	max	min	max	min	max	min			
Aussen	mm										kg	μm								
K-11590/ K-11520	22.5	24.5	34.5	35.0	39.5	2.0	4.5	1.5	1.5		0.063	+13	0	+25	0	+200	0	0.70	0.90	0.50
K-HM81649/ K-HM81610	23.0	22.0	36.0	39.0	43.0	2.0	4.0	1.0	1.5		0.199	0	-13	0	-25	+200	0	0.55	1.10	0.60
K-LM11749/ K-HM11710	23.0	24.0	33.5	35.0	37.0	2.0	3.0	1.0	1.0		0.186	+13	0	+15	0	+200	0	0.29	2.10	1.20
K-LM11949/ K-LM11910	25.0	25.5	38.0	38.5	41.0	3.0	3.0	1.0	1.0		0.121	+20	0	+25	0	+356	0	0.30	2.00	1.10
K-LM12749/ K-LM12710	26.0	27.5	38.0	38.5	42.5	3.0	3.0	1.2	1.2		0.119	+13	0	0	+15	+200	0	0.31	1.96	1.00
K-LM12749/ K-LM12712B	26.0	27.5	-	-	46.0	1.2	3.5	1.3	-		0.129	-13	0	0	-15	+200	0	0.31	1.96	1.10
K-L44643/ K-L44610	33.0	32.0	43.5	43.5	47.0	2.0	3.5	1.0	1.0		0.128	+13	0	+25	0	+200	0	0.37	1.60	0.90
K-L44643/ K-L44610/ K-L44600LA	33.0	32.0	43.5	43.5	-	2.0	-	1.0	1.0		0.130	+13	0	+25	0	+200	0	0.37	1.60	0.90
K-M84249/ K-M84210	33.0	32.0	46.0	53.0	56.0	3.0	4.5	0.6	1.0		0.327	+13	0	+25	0	+200	0	0.55	1.10	0.60
K-L44649/ K-L44610	33.0	38.0	43.5	45.0	47.0	3.0	3.5	3.0	1.0		0.120	+20	0	+25	0	+356	0	0.37	1.60	0.90
K-L45449/ K-L45410	34.0	40.0	43.5	45.0	47.0	3.0	3.5	3.0	1.0		0.113	+13	0	+15	0	+200	0	0.37	1.60	0.90
K-JXC25640CB/ K-JXC25640D	34.5	37.0	-	-	59.0	1.2	1.7	1.5	-		0.269	0	-12	+20	0	+200	0	0.37	1.60	0.90
K-M86649/ K-M86610	38.0	38.0	51.0	56.5	60.0	3.0	4.5	1.0	1.0		0.341	+13	0	+25	0	+200	0	0.55	1.10	0.60
K-LM67048/ K-LM67010	38.0	44.5	51.0	52.0	55.0	3.0	4.0	3.0	1.0		0.180	+13	0	+25	0	+356	0	0.41	1.50	0.80
K-15123/ K-15245	38.0	43.5	54.0	55.0	58.0	4.0	3.5	3.0	1.0		0.248	+13	0	+25	0	+203	0	0.35	1.70	0.90
K-LM48548/ K-LM48510	42.0	47.0	57.0	58.0	61.0	3.0	4.0	3.0	1.0		0.244	+20	0	+25	0	+356	0	0.38	1.60	0.90
PLC65-3	43.0	45.0	62.0	64.0	68.0	3.0	3.0	5.0	2.0		0.495	+13	0	+25	0	+200	0	0.37	1.60	0.90
K-L68149/ K-L68111	40.0	46.0	52.0	54.0	56.0	3.0	3.5	3.0	1.0		0.176	0	-20	0	-25	+356	0	0.42	1.40	0.80
K-JL69349/ K-JL69310	41.0	49.0	56.5	57.0	60.0	1.5	3.5	1.5	1.5		0.204	+13	0	+25	0	+200	0	0.42	1.44	0.79
K-LM29749/ K-LM29710	42.5	46.0	58.0	60.0	62.0	4.0	4.0	2.3	1.3		0.240	+13	0	+25	0	+200	0	0.33	1.80	1.00

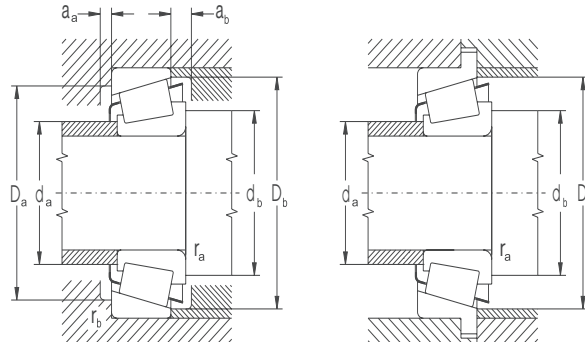




**Einreihige Kegelrollenlager in Zollabmessungen**  
**d = 39.688 bis 146.05 mm**



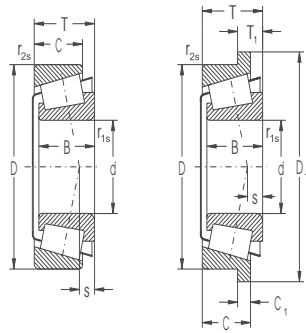
Abmessungen											Tragzahl		Ermüdungs- grenz- belastung $P_u$	Grenzdrehzahl für Schmierung mit	
d	D	$D_1$	B	C	$C_1$	T	$T_1$	$r_{1s}$	$r_{2s}$	s	dynamische $C_v$	statische $C_{or}$		Fett	Öl
mm											kN		kN	$\text{min}^{-1}$	
39.69	80.17	30.391	23.813			29.370		0.80	3.20	11.10	81.00	104.00	12.68	4200	5600
40.00	80.00	22.403	17.826			21.000		0.80	1.30	6.00	70.80	73.60	8.98	4700	6300
40.10	67.98	18.000	13.500			17.500		3.60	1.50	3.60	47.30	59.60	7.27	5300	7100
44.45	83.06	25.400	19.050			23.813		3.56	3.20	6.10	59.60	87.40	10.66	4200	5600
45.24	77.79	19.842	15.800			19.842		1.00	1.00	2.30	59.60	77.90	9.50	4900	6500
50.00	82.00	21.500	17.000			21.500		3.00	0.50	5.30	75.20	104.00	12.68	4500	6000
50.80	101.60	36.068	29.988			34.925		0.80	3.20	12.70	123.00	162.00	19.76	3200	4200
57.15	127.00	44.450	34.925			44.450		3.50	3.30	9.40	228.00	276.00	33.66	3000	4000
65.00	110.00	28.000	22.500			28.000		3.00	2.50	4.00	133.00	188.00	22.93	3300	4500
88.90	152.40	39.688	30.162			39.688		6.40	3.30	35.00	230.00	344.00	39.65	2000	3000
89.97	146.98	40.000	32.500			40.000		7.00	3.50	31.00	243.00	365.00	42.30	2400	3300
90.00	145.00	34.000	27.000			35.000		6.00	2.50	33.00	213.00	315.00	36.60	2200	3200
146.05	193.68	28.575	23.020			28.575		5.80	1.50	34.00	181.00	390.00	40.57	1700	2200



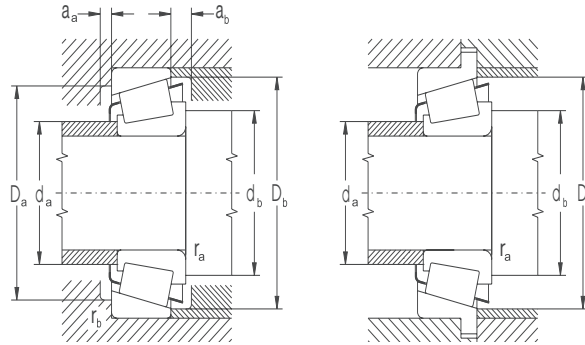
Lagerbezeichnung Innen Aussen	Anschlußmasse										Gewicht ~	Abmessungsabweichung						Faktoren		
	d <sub>a</sub> max	d <sub>a</sub> min	D <sub>a</sub> min	D <sub>a</sub> max	D <sub>a</sub> min	a <sub>a</sub> min	a <sub>b</sub> min	r <sub>a</sub> max	r <sub>b</sub> max	Δdmp max		ΔDmp min	ΔTs max	ΔTs min	e	Y	Y <sub>0</sub>			
	mm										kg	µm								
K-3386/ K-3320	48.0	47.0	68.0	70.0	75.0	3.0	4.0	0.6	0.704	+13	0	+25	0	+200	0	0.27	2.20	1.20		
K-344A/ K-332	48.0	47.0	68.0	73.0	75.0	3.0	4.0	0.6	0.514	+13	0	+25	0	+203	0	0.27	2.20	1.20		
K-LM300849/ K-LM300811	45.0	52.0	58.0	61.0	63.0	4.0	4.0	0.6	0.230	+13	0	+25	0	+200	0	0.35	1.70	1.00		
K-25580/ K-25521	53.0	56.5	71.0	74.0	73.0	5.0	4.5	3.0	0.541	+13	0	+25	0	+200	0	0.33	1.80	1.00		
LM603049/ LM603011	50.0	57.0	71.0	72.0	74.0	4.5	5.5	1.0	0.378	+13	0	+25	0	+100	0	0.43	1.41	0.77		
K-JLM104948/ K-JLM104910	55.0	60.0	76.0	77.0	78.0	4.0	4.5	3.0	0.410	-12	0	-18	0	+100	0	0.31	1.10	1.08		
K-529/ K-522	61.0	63.5	87.0	89.5	94.0	6.0	7.5	0.6	1.220	+13	0	+25	0	+200	0	0.28	2.10	1.20		
K-65225/ K-65500	71.0	80.0	104.0	107.0	119.0	10.0	10.0	3.5	2.790	+13	0	+25	0	+200	0	0.49	1.20	0.70		
K-JM511946/ K-JM511910	71.0	77.0	93.0	96.0	101.0	9.5	9.5	3.0	1.050	-15	0	-15	0	+200	0	0.39	1.50	0.90		
K-HM518445/ K-HM518410	98.0	112.0	124.0	135.0	142.0	6.0	10.0	3.5	2.880	+25	0	+25	0	+200	0	0.44	1.36	0.74		
K-HM218248/ K-HM218210	99.0	112.0	128.0	133.0	141.0	6.0	7.5	3.5	2.590	+25	0	+25	0	+200	0	0.33	1.80	0.99		
K-JM718149/ K-JM718110	99.0	111.0	126.0	131.0	140.0	6.0	8.0	2.5	2.150	+25	0	+25	0	+200	0	0.44	1.35	0.74		
K-36691/ K-36620	155.0	162.0	176.0	182.0	187.0	6.0	6.5	1.5	2.310	+25	0	+25	0	+356	-254	0.37	1.60	0.90		



Einreihige Kegelrollenlager in Zollabmessungen  
d = 15,875 bis 39,688 mm



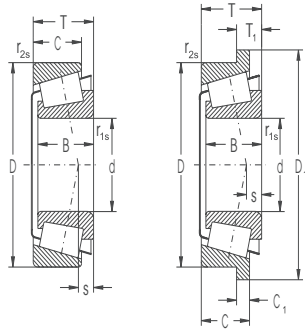
Abmessungen											Tragzahl		Ermüdungs-	Grenzdrehzahl	
d	D	D <sub>1</sub>	B	C	C <sub>1</sub>	T	T <sub>1</sub>	r <sub>1s</sub>	r <sub>2s</sub>	s	C <sub>d</sub>	C <sub>st</sub>	grenz- belastung P <sub>e</sub>	Fett	Öl
mm											kN		kN	min <sup>-1</sup>	
15.875	42.862		14.288	9.525		14.288		1.5	1.5		17.8	17.7	2.16	10000	14000
19.050	49.225		19.050	14.288		18.034		1.3	1.3		37.7	37.7	4.60	8900	12000
	49.225		19.050	17.462		21.209		1.3	1.5		37.7	37.7	4.60	8900	12000
	49.225		21.539	14.288		19.845		1.5	1.3		37.7	37.7	4.60	8900	12000
25.400	57.150		19.431	14.732		19.431		1.5	1.5		44.9	52.9	6.45	6400	8600
	62.000		20.638	15.875		19.050		0.8	1.3		44.6	50.7	6.18	6400	8600
	63.500		20.638	15.875		20.638		0.8	1.5		44.6	50.7	6.18	6400	8600
26.988	62.000		20.638	14.288		19.050		0.8	1.3		44.6	50.7	6.18	6400	8600
28.575	68.262		22.225	17.462		22.225		0.8	1.5		51.0	61.1	7.45	6000	8000
	73.025		22.225	17.462		22.225		0.8	3.3		55.0	65.7	8.01	5500	7400
29.000	60.292		14.732	10.668		14.224		3.5	1.3		28.9	37.2	4.54	7600	10000
30.162	64.292		21.433	16.670		21.433		1.5	1.5		55.2	70.7	8.62	6400	8500
30.213	62.000		20.638	14.288		19.050		3.5	1.3		44.6	50.7	6.18	6400	8600
31.750	59.131		16.764	11.811		15.875			1.2		35.8	43.1	5.26	6600	8800
	62.000		20.638	14.288		19.050		0.8	1.3		44.6	50.7	6.18	6400	8600
	63.500		19.050	15.875		20.638		1.5	1.5		44.6	50.7	6.18	6400	8600
	69.012		19.583	15.875		19.845		3.5	3.3		46.1	55.0	6.71	5900	7800
33.338	68.262		22.225	17.462		22.225		0.8	1.5		56.1	71.1	8.67	6000	7900
34.925	69.012		19.583	15.875		19.845		3.5	3.3		46.1	55.0	6.71	5900	7800
	69.012		19.583	15.875		19.845		3.5	1.3		46.1	55.0	6.71	5900	7800
	72.233		25.400	19.842		25.400		2.3	2.3		66.9	87.4	10.66	5700	7600
34.988	73.025		24.608	19.050		23.812		1.5	2.3		72.2	87.3	10.65	5600	7400
	73.025		24.608	19.050		23.812		1.5	0.8		72.2	87.3	10.65	5600	7400
	76.200		28.575	23.812		29.370		1.5	3.3		80.9	97.4	11.88	5400	7200
	61.973		17.000	13.600		16.700			1.5		39.4	52.4	6.39	5600	7500
35.000	59.975		18.412	11.938		15.875		2.5	1.3		36.0	48.6	5.93	6400	8500
	65.000		20.600	17.000		18.100		2.3	1.3		45.7	53.1	6.48	5500	7400
36.487	76.200		25.654	19.050		23.812		1.5	3.3		81.1	105.0	12.80	5000	6700
36.512	76.200		28.575	23.020		29.370		3.5	3.3		79.5	107.0	13.05	5400	7200
38.100	65.088		18.288	13.970		18.034			1.3		42.9	56.5	6.89	5800	7800
	65.088		18.288	13.970		18.034		2.3	1.3		42.9	56.5	6.89	5800	7800
	65.088		18.288	15.748		19.812		2.3	1.3		42.9	56.5	6.89	5800	7800
	69.012		19.050	15.083		19.050		3.5	2.3		49.2	62.0	7.56	5600	7500
	76.200		25.654	19.050		23.812		3.5	3.3		81.1	105.0	12.80	5000	6700
	82.550		28.575	23.020		29.370		0.8	3.3		87.3	117.0	14.27	4900	6600
	88.500		29.083	22.225		26.988		3.5	1.5		98.2	112.0	13.66	4900	6500
39.688	73.025		22.098	18.500		19.395		2.3	1.3		53.0	66.3	8.09	5200	6900
	79.967		22.098	22.091		19.395		2.3	1.3		66.3	53.0	6.46	5200	6900



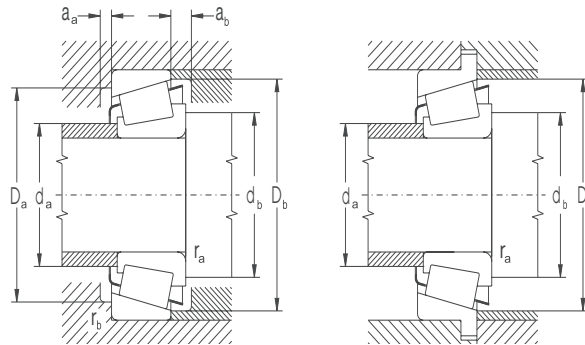
Lager- bezeichnung	Anschlußmasse										Gewicht	Abmessungsabweichung					Faktoren			
	Innen		Aussen		Innen		Aussen		Innen			Aussen		Innen		Aussen		e	Y	Y <sub>0</sub>
	d <sub>a</sub>	d <sub>e</sub>	D <sub>e</sub>	D <sub>o</sub>	D <sub>i</sub>	a <sub>e</sub>	a <sub>o</sub>	r <sub>e</sub>	r <sub>o</sub>	r <sub>i</sub>		r <sub>e</sub>	r <sub>o</sub>	r <sub>i</sub>	Δdmp	ΔDmp	ΔTs			
max	min	min	max	min	min	min	max	max	max	max	max	max	max	max	min	min	min			
	mm										kg	μm								
11590/11520	22.5	24.5	34.5		39.5	2.0	4.5	1.5	1.5	0.10	+13	0	+25	0	+203	0	0.70	0.85	1.20	
09067/09195	24.0	25.5	42.0		44.5	4.0	4.5	1.3	1.3	0.17	+13	0	+25	0	+203	0	0.27	2.26		
09067/09196	24.0	25.5	41.5		44.5	1.0	4.5	1.3	1.5	0.19	+13	0	+25	0	+203	0	0.27	2.26	1.20	
09074/09195	24.0	26.0	42.0		44.5	4.0	4.5	1.5	1.3	0.18	+13	0	+25	0	+203	0	0.27	2.26		
M84548/84510	33.0	36.0	48.5		54.0	2.5	5.0	1.5	1.5	0.23	+13	0	+25	0	+203	0	0.55	1.10	1.00	
15101/15245	31.5	32.5	55.0		58.0	5.0	5.0	0.8	1.3	0.29	+13	0	+25	0	+203	0	0.35	1.71		
15101/15250X	31.5	32.5	55.0		59.0	3.0	5.0	0.8	1.5	0.32	+13	0	+25	0	+203	0	0.35	1.71	1.00	
15106/15245	33.0	33.5	55.0		58.0	5.0	5.0	0.8	1.3	0.28	+13	0	+25	0	+203	0	0.35	1.71		
02474/0220	36.0	36.5	59.0		63.0	3.0	5.5	0.8	1.5	0.40	+13	0	+25	0	+203	0	0.42	1.44	0.77	
02872/02820	37.0	37.5	62.0		68.0	3.0	5.0	0.8	3.3	1.04	+13	0	+25	0	+203	0	0.45	1.32		
F15029/L45410	33.0	39.5	44.5		48.0	4.0	3.5	4.0	3.5	0.11	+13	0	+25	0	+203	0	0.37	1.62	1.08	
M86649/86610	38.2	41.0	54.0		61.0	3.0	5.3	1.5	1.5	0.33	+13	0	+25	0	+203	0	0.55	1.10		
15118/15245	35.5	41.5	55.0		58.0	5.0	5.0	3.5	1.3	0.26	+13	0	+25	0	+203	0	0.35	1.71	1.20	
LM67048 RS	36.0	42.5	52.0		56.0	4.5	3.5		1.2	0.17	+13	0	+25	0	+203	0	0.41	1.46		
/67010																			0.70	
151126/15245	36.5	37.0	55.0		58.0	5.0	5.0	0.8	1.3	0.25	+13	0	+25	0	+203	0	0.35	1.71		
15123/15250X	31.5	32.5	55.0		59.0	3.0	5.0	0.8	1.5	0.32	+13	0	+25	0	+203	0	0.35	1.71	0.90	
14125A/14274	40.0	46.0	60.0		63.0	3.0	4.5	3.5	1.3	0.32	+13	0	+25	0	+203	0	0.38	1.57		
M88048/88010	41.0	42.5	58.0		65.0	3.0	4.0	0.8	1.5	0.37	+13	0	+25	0	+203	0	0.55	1.10	0.74	
14138A/14274	40.0	46.0	60.0		63.0	3.0	4.5	3.5	1.3	0.32	+13	0	+25	0	+203	0	0.38	1.57		
14138A/14276	40.0	46.0	60.0		63.0	3.0	4.5	3.5	1.3	0.32	+13	0	+25	0	+203	0	0.38	1.57	0.99	
HM89649	42.5	48.5	60.0		69.0	4.0	5.5	2.3	2.3	0.50	+13	0	+25	0	+203	0	0.55	1.10		
/88610																			0.74	
25877/25820	40.5	43.0	64.0		68.0	4.5	5.5	1.5	2.3	0.46	+13	0	+25	0	+203	0	0.29	2.07		
25877/25821	40.5	43.0	65.0		68.0	4.5	5.5	1.5	0.8	0.46	+13	0	+25	0	+203	0	0.29	2.07	0.90	
31594/31520	43.5	46.0	64.0		72.0	2.5	6.0	1.5	3.3	0.62	+13	0	+25	0	+203	0	0.40	1.49		
LM78349	40.0	46.0	54.0		59.0	3.0	4.0		1.5	0.19	0	-13	0	-25	+203	0	0.44	1.35		
/78310A																				
F15036	45.5	39.0	53.0		56.0	4.0	3.0	2.5	1.3	0.19	+13	0	+25	0	+203	0	0.42	1.44		
/JL68111Z																				
U298/U261+collar																				
2780/2720	42.5	44.5	66.0		70.0	5.0	5.0	1.5	3.3	0.52	+13	0	+25	0	+203	0	0.30	1.98		
HM89449/89410	44.5	54.0	62.0		73.0	3.0	5.5	3.5	3.3	0.62	+13	0	+25	0	+203	0	0.55	1.10		
LM29748/29710	42.5	49.0	59.0		62.0	3.0	4.5		1.3	0.22	+13	0	+25	0	+203	0	0.33	1.80		
LM29749/29710	42.5	46.0	59.0		62.0	3.0	4.5	2.3	1.3	0.22	+13	0	+25	0	+203	0	0.33	1.80		
LM29749/29711	42.5	46.0	58.0		62.0	1.5	4.5	2.3	1.3	0.24	+13	0	+25	0	+203	0	0.33	1.80		
13685/13621	43.0	49.5	61.0		65.0	2.5	4.0	3.5	2.3	0.28	+13	0	+25	0	+203	0	0.40	1.49		
2788/2720	43.5	50.0	66.0		70.0	5.0	5.0	3.5	3.3	0.49	+13	0	+25	0	+203	0	0.30	1.98		
HM801346	49.1	51.0	68.0		78.0	3.0	6.0	0.8	3.3	0.76	+13	0	+25	0	+203	0	0.55	1.10		
/801310																				
418/414	44.5	51.0	77.0		80.0	5.0	6.0	3.5	1.5	0.82	+13	0	+25	0	+203	0	0.26	2.28		
U399/U360+collar																				
U399/U365+collar																				



### Einreihige Kegelrollenlager in Zollabmessungen d = 40.988 bis 50.800 mm



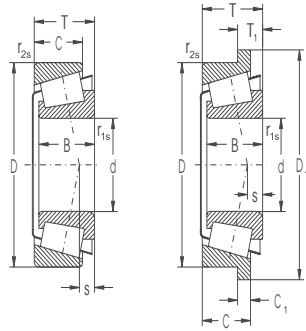
Abmessungen											Tragzahl		Ermüdungs- grenz- belastung $P_u$	Grenzdrehzahl für Schmierung mit	
d	D	D <sub>1</sub>	B	C	C <sub>1</sub>	T	T <sub>1</sub>	r <sub>1s</sub>	r <sub>2s</sub>	s	C <sub>d</sub>	C <sub>st</sub>		Fett	Öl
mm											kN		kN	min <sup>-1</sup>	
40.988	67.975	18.000	13.500	17.500				**	1.5		46.1	63.5		5400	7200
41.275	73.025	17.462	12.700	16.667				3.5	1.5		45.9	55.8	6.80	5200	6900
	73.431	19.812	14.732	19.558				3.5	0.8		57.8	73.0	8.90	5200	7000
	73.431	19.812	16.604	21.430				3.5	0.8		57.8	73.0	8.90	5200	7000
	76.200	23.020	17.462	22.225				3.5	0.8		66.3	83.3	10.16	5200	6900
	87.312	30.886	23.812	30.162				1.5	3.3		95.8	120.0	14.63	4600	6200
88.900	29.370	23.020	30.162				3.5	3.3		99.6	125.0	15.24	4600	6100	
42.875	82.931	25.400	19.050	23.812				3.5	0.8		77.2	100.0	12.20	4800	6300
	82.931	25.400	22.225	26.988				3.5	2.3		77.2	100.0	12.20	4800	6300
	83.058	25.400	19.050	23.812				3.5	3.3		77.2	100.0	12.20	4800	6300
44.450	104.775	36.512	28.575	36.512				3.5	3.3		141.0	195.0	23.78	3800	5100
	83.058	25.400	19.114	23.876				3.5	2.0		77.2	100.0	12.20	4800	6300
	88.900	29.370	23.020	30.162				3.6	3.2		99.6	125.0	15.24	4600	6100
	93.264	30.302	23.812	30.162				3.5	3.3		103.0	137.0	16.71	4200	5500
	95.250	28.575	22.225	30.958				3.5	0.8		99.7	120.0	14.63	3700	5100
45.000	80.000	26.000	22.000	24.000				2.3	1.3		61.2	79.0	9.63	4500	6100
45.230	79.985	20.638	15.080	19.842				2.0	1.3		62.0	78.5	9.57	4800	6400
45.242	73.431	19.812	15.748	19.558				3.5	0.8		55.6	78.1	9.52	5100	6700
	77.788	19.842	15.080	19.842				3.6	0.8		57.1	73.5	8.96	4900	6500
	77.788	19.842	16.667	21.430				3.6	0.8		57.1	73.5	8.96	4900	6500
45.618	82.931	25.400	22.225	26.988				3.5	2.3		77.2	100.0	12.20	4800	6300
45.987	74.976	18.000	14.000	18.000				2.3	1.5		52.6	74.6	9.10	5000	6600
46.038	79.375	17.462	13.495	17.462				2.8	1.5		47.1	59.1	7.21	4800	6400
50.000	82.000	21.500	17.000	21.500				3.0	0.5		71.7	97.9	11.94	4500	6000
50.800	104.775	36.512	28.575	36.512				3.5	3.3		141.0	195.0	23.78	3800	5100
	82.000	22.225	17.000	21.976				3.5	0.5		61.2	84.3	10.28	4500	6000
	82.550	22.225	16.510	21.590				3.5	1.3		61.2	84.3	10.28	4500	6000
	85.000	17.462	13.495	17.462				3.5	1.5		49.7	65.5	7.99	4400	5900



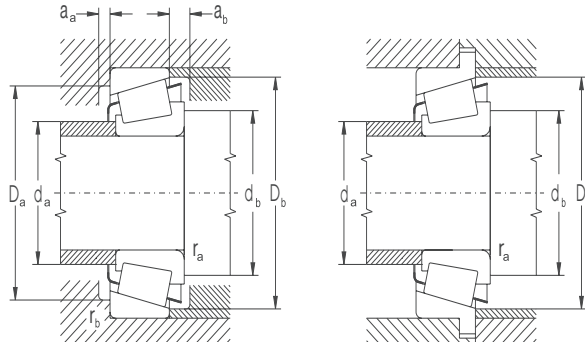
Lager- bezeichnung	Anschlußmasse										Gewicht	Abmessungsabweichung						Faktoren		
	d <sub>a</sub>	d <sub>c</sub>	D <sub>z</sub>	D <sub>s</sub>	D <sub>z</sub>	a <sub>a</sub>	a <sub>b</sub>	r <sub>a</sub>	r <sub>b</sub>	r <sub>c</sub>		~	Δdmp	ΔDmp	ΔTs	e	Y	Y <sub>0</sub>		
Innen	max	min	min	max	min	min	min	max	max			max	min	max	min					
Aussen	max	min	min	max	min	min	min	max	max			max	min	max	min					
	mm										kg	µm								
LM300849	45.0	52.0	61.0		65.0	3.5	5.0	**	1.5	0.23	0	-13	0	-25	+203	0	0.35	1.72	1.20	
/300811																				
18590/18520	46.0	53.0	66.0		69.0	4.0	5.5	3.5	1.5	0.27	+13	0	+25	0	+203	0	0.35	1.71	1.20	
LM501349	46.5	53.0	67.0		70.0	3.5	5.5	3.5	0.8	0.32	+13	0	+25	0	+203	0	0.40	1.50		
/501310																			1.00	
LM501349	46.5	53.0	66.0		70.0	1.5	5.5	3.5	0.8	0.34	+13	0	+25	0	+203	0	0.40	1.50		
/501314																			1.00	
24780/24720	47.0	54.0	68.0		72.0	3.5	5.5	3.5	0.8	0.41	+13	0	+25	0	+203	0	0.39	1.53		
3585/3525	48.0	50.0	75.0		81.0	3.5	6.5	1.5	3.3	0.82	+13	0	+25	0	+203	0	0.31	1.96	0.77	
HM803146	53.0	60.0	74.0		85.0	4.0	7.5	3.5	3.3	0.89	+13	0	+25	0	+203	0	0.55	1.10		
/803110																			1.08	
25577/25520	49.0	55.0	74.0		77.0	4.5	5.5	3.5	0.8	0.58	+13	0	+25	0	+203	0	0.33	1.79		
25577/25523	51.0	58.0	72.0		77.0	1.0	5.5	3.5	2.3	0.58	+13	0	+25	0	+203	0	0.33	1.79	1.20	
25577/25521	51.0	58.0	72.0		77.0	1.0	5.5	3.5	2.3	0.58	+13	0	+25	0	+203	0	0.33	1.79		
HM807040	59.0	66.0	89.0		100.0	4.0	7.0	3.5	3.3	1.62	+13	0	+25	0	+203	0	0.49	1.23	0.70	
/807010																				
2580/25522	50.0	57.0	73.0		77.0	4.5	5.5	3.5	2.0	0.56	+13	0	+25	0	+203	0	0.33	1.79	0.90	
HM803149	53.4	62.0	74.0		85.0	7.5	4.0	3.6	3.2	0.84	+13	0	+25	0	+203	0	0.55	1.10		
/803010																			0.74	
3782/3720	52.0	58.0	82.0		88.0	3.5	7.0	3.5	3.3	0.95	+13	0	+25	0	+203	0	0.34	1.77		
HM903249	54.0	65.0	81.0		91.0	2.0	7.0	3.5	0.8	1.00	+13	0	+25	0	+203	0	0.74	0.81	0.99	
/903210																				
U2497/U460L																			0.74	
17887/17831	51.0	56.0	71.0		74.0	3.5	5.0	2.0	1.3	0.40	+13	0	+25	0	+203	0	0.37	1.60		
LM102949	50.0	56.0	68.0		70.0	3.0	4.5	3.5	0.8	0.31	+13	0	+25	0	+203	0	0.31	1.97	0.90	
/102910																				
LM603049	50.0	57.0	71.0		74.0	5.0	3.5	3.6	0.8	0.36	+13	0	+25	0	+203	0	0.43	1.41		
/603011																				
LM603049	50.0	57.0	71.0		74.0	5.0	2.0	3.6	0.8	0.37	+13	0	+25	0	+203	0	0.43	1.41		
/603012																				
25590/25523	51.0	58.0	72.0		77.0	1.0	5.5	3.5	2.3	0.58	+13	0	+25	0	+203	0	0.33	1.79		
LM503349	51.0	55.0	67.0		71.0	3.5	5.0	2.3	1.5	0.30	0	-13	0	-25	+203	0	0.40	1.49		
/503310																				
18690/18620	51.0	56.0	71.0		74.0	3.5	5.0	2.8	1.5	0.33	+13	0	+25	0	+203	0	0.37	1.60		
JLM104948	55.0	60.0	76.0		78.0	4.0	5.5	3.0	0.5	0.41	0	-12	0	-18	+203	0	0.31	1.97		
/104910																				
HM807046	63.0	70.0	89.0		100.0	4.0	7.0	3.5	3.3	1.49	+13	0	+25	0	+203	0	0.49	1.23		
/807010																				
LM104949	55.0	62.0	76.0		78.0	5.5	4.5	3.5	0.5	0.42	+13	0	+25	0	+203	0	0.31	1.97		
/104910																				
LM104949	55.0	62.0	75.0		78.0	4.5	5.5	3.5	1.3	0.42	+13	0	+25	0	+203	0	0.31	1.97		
/104911																				
18790/18720	56.0	62.0	77.0		80.0	3.5	5.0	3.5	1.5	0.36	+13	0	+25	0	+203	0	0.41	1.48		



Einreihige Kegelrollenlager in Zollabmessungen  
d = 50.800 bis 92.075 mm



Abmessungen											Tragzahl		Ermüdungs-	Grenzdrehzahl	
d	D	D <sub>1</sub>	B	C	C <sub>1</sub>	T	T <sub>1</sub>	r <sub>1s</sub>	r <sub>2s</sub>	s	C <sub>d</sub>	C <sub>st</sub>	grenz- belastung P <sub>e</sub>	Fett	Öl
mm											kN		kN	min <sup>-1</sup>	
50.800	88.900	22.225	16.513	20.638	3.5	1.3					74.3	87.3	10.65	4400	5800
	90.000	22.225	15.875	20.000	3.5	2.0					74.3	87.3	10.65	4400	5800
	92.075	25.400	19.845	24.608	3.5	0.8					84.8	119.0	14.51	4200	5600
52.388	93.264	30.302	23.812	30.162	3.5	3.3					103.0	137.0	16.71	4200	5500
	92.075	25.400	19.845	24.608	3.5	0.8					84.8	119.0	14.51	4200	5600
55.000	93.264	30.302	23.812	30.162	2.3	3.3					95.8	120.0	14.63	4600	6200
	90.000	23.000	18.500	23.000	1.5	0.5					81.4	115.0	14.02	4200	5500
57.150	104.775	29.317	24.605	30.162	2.3	3.3					109.0	144.0	17.56	3700	4900
	96.838	21.946	15.875	21.000	2.3	0.8					80.4	101.0	12.32	3900	5200
	96.838	21.946	20.274	25.400	2.3	2.3					80.4	101.0	12.32	3900	5200
	96.838	21.946	15.875	21.000	3.5	0.8					80.4	101.0	12.32	3900	5200
	96.838	21.946	20.274	25.400	3.5	2.3					80.4	101.0	12.32	3900	5200
	96.838	21.946	15.875	21.000	5.0	0.8					80.4	101.0	12.32	3900	5200
	96.838	21.946	20.274	25.400	5.0	2.3					80.4	101.0	12.32	3900	5200
	96.838	21.946	20.274	25.400	0.8	0.8					80.4	101.0	12.32	3900	5200
	98.425	21.946	17.826	21.000	2.4	0.8					80.4	101.0	12.32	3900	5200
	98.425	21.946	17.826	21.000	3.5	0.8					80.4	101.0	12.32	3900	5200
63.500	107.950	25.400	19.050	25.400	3.5	3.3					92.8	143.0	17.44	3400	4500
	112.712	30.048	23.812	30.162	3.5	3.3					111.0	164.0	20.00	3400	4500
66.675	110.000	21.996	18.824	22.000	0.8	1.3					86.4	116.0	14.15	3400	4500
	112.712	30.048	23.812	30.162	3.5	3.3					111.0	164.0	20.00	3400	4500
	112.712	30.048	23.812	30.162	5.5	3.3					111.0	164.0	20.00	3400	4500
	122.238	38.354	29.718	38.100	3.5	3.3					191.0	249.0	30.37	3200	4300
68.262	110.000	21.996	18.824	22.000	5.0	1.3					86.4	116.0	14.15	3400	4500
69.850	117.475	30.162	23.812	30.162	3.5	3.3					118.0	179.0	21.83	3200	4200
	120.000	30.162	23.444	29.794	3.5	0.8					118.0	179.0	21.83	3200	4200
71.438	117.475	30.162	23.812	30.162	3.5	3.3					118.0	179.0	21.83	3200	4200
73.025	112.712	25.400	19.050	25.400	3.5	3.3					97.0	155.0	18.90	3200	4300
	117.475	30.162	23.812	30.162	3.5	3.3					118.0	179.0	21.83	3200	4200
80.962	150.089	46.672	36.512	44.450	5.0	3.3					264.0	368.0	42.98	2500	3400
	125.412	25.400	19.845	25.400	3.5	1.5					101.0	162.0	19.53	2900	3800
82.550	133.350	33.338	26.195	33.338	3.5	3.3					154.0	245.0	29.20	2700	3700
	139.992	36.098	28.575	36.512	3.5	3.3					175.0	262.0	30.94	2700	3600
	146.050	41.275	31.750	41.275	3.5	3.3					208.0	301.0	35.26	2600	3400
	150.089	46.672	36.512	44.450	3.5	3.3					264.0	368.0	42.75	2500	3400
89.974	146.975	40.000	32.500	40.000	7.0	3.5					206.0	310.0	35.93	2500	3300
92.075	152.400	36.322	30.162	39.688	3.5	3.3					183.0	287.0	32.95	2400	3300



Lager- bezeichnung	Anschlußmasse										Gewicht	Abmessungsabweichung				Faktoren				
	d <sub>a</sub>	d <sub>b</sub>	D <sub>a</sub>	D <sub>d</sub>	D <sub>v</sub>	D <sub>s</sub>	a	a <sub>v</sub>	b <sub>v</sub>	r <sub>v</sub>		r <sub>v</sub>	~	Δdmp	ΔDmp	ΔTs	e	Y	Y <sub>0</sub>	
Innen	max	min	min	max	min	min	min	min	max	max		max	min	max	min	max	min			
Außen	max	min	min	max	min	min	min	min	max	max		max	min	max	min	max	min			
	mm										kg	μm								
368A/362A	56.0	62.0	81.0		84.0	5.0	5.5	3.5	1.3		0.50	+13	0	+25	0	+203	0	0.32	1.88	1.20
368A/362X	56.0	62.0	81.0		84.0	5.0	5.5	3.5	2.0		0.51	+13	0	+25	0	+203	0	0.32	1.88	
28580/28521	57.0	63.0	83.0		87.0	3.5	5.0	3.5	0.8		0.69	+13	0	+25	0	+203	0	0.38	1.59	1.20
3780/3720	58.0	64.0	82.0		88.0	3.5	7.0	3.5	3.3		0.84	+13	0	+25	0	+203	0	0.34	1.77	
28584/28521	58.0	65.0	83.0		87.0	3.5	5.0	3.5	0.8		0.66	+13	0	+25	0	+203	0	0.38	1.59	1.00
3767/3720	59.0	63.0	82.0		88.0	3.5	7.0	2.3	3.3		0.81	+13	0	+25	0	+203	0	0.34	1.77	
JLM506849	61.0	63.0	82.0		86.0	3.5	5.0	1.5	0.5		0.55	0	-15	0	-18	+203	0	0.40	1.49	1.00
/506810																				
462/453X	63.0	67.0	92.0		98.0	3.0	5.5	2.3	3.3		1.04	+13	0	+25	0	+203	0	0.34	1.79	0.77
387/382A	62.0	66.0	89.0		92.0	5.5	6.0	2.3	0.8		0.58	+13	0	+25	0	+203	0	0.35	1.69	
387/382S	62.0	69.0	87.0		91.0	5.5	6.0	3.5	2.3		0.64	+13	0	+25	0	+203	0	0.35	1.69	1.08
387A/382A	62.0	69.0	89.0		92.0	6.0	5.5	3.5	0.8		0.57	+13	0	+25	0	+203	0	0.35	1.69	
387A/382S	62.0	69.0	87.0		91.0	1.0	6.0	3.5	2.3		0.64	+13	0	+25	0	+203	0	0.35	1.69	1.20
387AS/382A	62.0	72.0	89.0		92.0	5.5	6.0	5.0	0.8		0.56	+13	0	+25	0	+203	0	0.35	1.69	
387AS/382S	62.0	69.0	87.0		91.0	5.5	6.0	3.5	2.3		0.64	+13	0	+25	0	+203	0	0.35	1.69	0.70
387S/382S	62.0	69.0	87.0		91.0	5.5	6.0	3.5	2.3		0.64	+13	0	+25	0	+203	0	0.35	1.69	
387/382A	62.0	66.0	89.0		92.0	6.0	5.0	2.4	0.8		0.61	+13	0	+25	0	+203	0	0.35	1.69	0.90
387A/382	62.0	69.0	90.0		92.0	5.5	4.0	3.5	0.8		0.62	+13	0	+25	0	+203	0	0.35	1.69	
29585/29520	71.0	77.0	96.0		103.0	3.0	6.0	3.5	3.3		0.91	+13	0	+25	0	+203	0	0.46	1.31	0.74
3982/3920	71.0	77.0	99.0		106.0	3.5	6.5	3.5	3.3		1.22	+13	0	+25	0	+203	0	0.40	1.49	
395A/394A	73.0	73.0	101.0		104.0	4.5	4.0	0.8	1.3		1.06	+13	0	+25	0	+203	0	0.40	1.49	0.99
3984/3920	74.0	80.0	99.0		106.0	3.5	6.5	3.5	3.3		0.78	+13	0	+25	0	+203	0	0.40	1.49	
3994/3920	74.0	84.0	99.0		106.0	3.5	6.5	5.5	3.5		1.15	+13	0	+25	0	+203	0	0.40	1.49	0.74
HM212049	82.0	75.0	108.0		116.0	9.0	6.5	3.5	3.3		1.84	+13	0	+25	0	+203	0	0.34	1.78	
/212011																				0.90
399AS/394A	74.0	83.0	101.0		104.0	4.5	4.0	5.0	1.3		0.72	+13	0	+25	0	+203	0	0.40	1.49	
33275/33462	77.0	84.0	104.0		112.0	3.5	6.5	3.5	3.3		1.25	+13	0	+25	0	+203	0	0.44	1.38	
33275/33472	77.0	84.0	104.0		112.0	3.5	6.5	3.5	3.3		1.25	+13	0	+25	0	+203	0	0.44	1.38	
33281/33462	79.0	85.0	104.0		112.0	3.5	6.5	3.5	3.3		1.18	+13	0	+25	0	+203	0	0.44	1.38	
29685/29620	80.0	86.0	101.0		109.0	3.5	6.0	3.5	3.3		0.88	+13	0	+25	0	+203	0	0.49	1.23	
33287/33462	80.0	87.0	104.0		112.0	3.5	6.5	3.5	3.3		1.17	+13	0	+25	0	+203	0	0.44	1.38	
740/742	91.0	101.0	134.0		142.0	7.0	9.5	5.0	3.3		3.39	+25	0	+25	0	+203	0	0.33	1.84	
27687/27620	89.0	96.0	115.0		120.0	4.0	6.5	3.5	1.5		1.04	+25	0	+25	0	+203	0	0.42	1.44	
47686/47620	90.0	97.0	119.0		128.0	5.0	7.5	3.5	3.3		1.69	+25	0	+25	0	+203	0	0.40	1.48	
580/572	91.0	98.0	125.0		133.0	4.0	7.0	3.5	3.3		2.14	+25	0	+25	0	+203	0	0.40	1.49	
663/653	92.0	99.0	131.0		139.0	5.0	8.0	3.5	3.3		2.75	+25	0	+25	0	+203	0	0.41	1.47	
749/742	95.0	101.0	134.0		142.0	7.0	9.5	3.5	3.3		3.21	+25	0	+25	0	+203	0	0.33	1.84	
HM218248	99.0	112.0	133.0		141.0	5.5	9.0	7.0	3.5		2.36	0	-25	0	-25	+203	0	0.33	1.80	
/218210																				
598/592A	101.0	107.0	135.0		144.0	1.0	8.0	3.5	3.3		2.61	+25	0	+25	0	+203	0	0.44	1.36	

