



Thrust Bearing

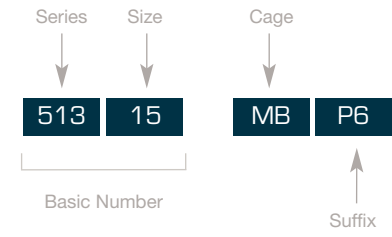
TAPER ROLLER



Chapter 15
Taper Roller
pages 00 to 00



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Series & Size

- 51,53*** Single direction thrust ball bearing
- 52,54*** Standard series spherical roller bearings
- (*)** Standard series spherical roller bearings

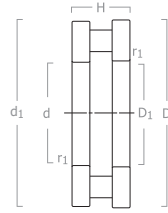
Cage

- No Symbol** Standard cage.
- J** Pressed steel cage.
- MP** Machined window type brass cage
- FP** Machined window type steel cage

Suffix

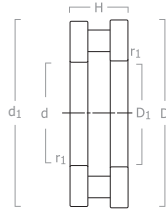
- P6** ISO Class 6 (equivalent to ABEC 3)
- P5** ISO Class 5 (equivalent to ABEC 5)
- P4** ISO Class 4 (equivalent to ABEC 7)

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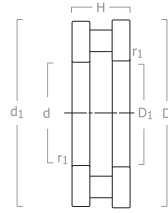
Principal dimensions				Basic load ratings		Speed ratings(rpm)		Designations	Weight
mm				KN		Grease	Oil		kg
d	Dw	B	rs min	Cr	Cor				
15	28	9	3,0	11,00	27,00	4500	12000	81102M	0,01
17	30	9	3,0	11,00	27,00	4300	11000	81103M	0,01
20	35	10	3,0	20,00	54,00	3800	9500	81104M	0,01
25	42	11	6,0	27,00	74,00	3200	8000	81105M	0,02
30	47	11	6,0	28,00	83,00	2600	6700	81106M	0,02
	52	16	6,0	50,00	132,00	2400	6300	81206M	0,03
35	52	12	6,0	30,00	93,00	2200	6000	81107M	0,06
	62	18	1,0	54,00	156,00	1900	5300	81207M	0,07
40	60	13	0,6	55,00	146,00	1900	5300	81108M	0,04
	68	19	1,0	105,00	263,00	1700	4800	81208M	0,08
45	65	14	0,6	58,00	161,00	1700	4800	81109M	0,04
	73	20	1,0	106,00	265,00	1600	4500	81209M	0,09
50	70	14	0,6	60,00	175,00	1500	4300	81110M	0,04
	78	22	1,0	115,00	312,00	1400	4000	81210M	0,10
55	78	16	0,6	89,00	298,00	1400	4000	81111M	0,05
	90	25	1,0	152,00	402,00	1200	3600	81211M	0,17
60	85	17	1,0	101,00	312,00	1200	3600	81112M	0,10
	95	26	1,0	170,00	475,00	1100	3400	81212M	0,24
65	90	18	1,0	105,00	335,00	1100	3400	81113M	0,11
	100	27	1,0	175,00	495,00	1000	3200	81213M	0,25
70	95	18	1,0	110,00	363,00	1000	3200	81114M	0,09
	105	27	1,0	185,00	545,00	950	3000	81214M	0,26
75	100	19	1,0	103,00	340,00	950	3000	81115M	0,12
	110	27	1,0	170,00	499,00	900	2800	81215M	0,28
80	105	19	1,0	105,00	350,00	900	2800	81116M	0,13

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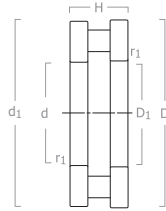
Principal dimensions				Basic load ratings		Speed ratings(rpm)		Designations	Weight
mm				KN		Grease	Oil		kg
d	Dw	B	rs min	Cr	Cor				
	115	28	1,0	200,00	630,00	850	2600	81216M	0,31
85	110	19	1,0	110,00	380,00	850	2600	81117M	0,42
	125	31	1,0	215,00	660,00	800	2400	81217M	1,25
90	120	22	1,0	140,00	460,00	800	2400	81118M	0,62
	135	35	1,1	290,00	890,00	800	2400	81218M	1,75
100	135	25	1,0	195,00	650,00	750	2200	81120M	0,95
	150	38	1,1	285,00	840,00	700	2000	81220M	2,20
110	145	25	1,0	205,00	700,00	700	2000	81122M	1,05
	160	38	1,1	300,00	940,00	670	1900	81222M	2,30
120	155	25	1,0	200,00	700,00	670	1900	81124M	1,10
	170	39	1,1	310,00	980,00	630	1800	81224M	2,55
130	170	30	1,0	230,00	800,00	600	1700	81126M	1,70
	190	45	1,5	420,00	1280,00	560	1600	81226M	4,20
140	178	31	1,0	240,00	870,00	560	1600	81128M	1,90
	197	46	1,5	440,00	1450,00	530	1500	81228M	4,55
150	188	31	1,0	250,00	930,00	530	1500	81130M	2,00
	212	50	1,5	590,00	1900,00	500	1400	81230M	5,90
160	198	31	1,0	260,00	990,00	500	1400	81132M	2,20
	222	51	1,5	600,00	2000,00	500	1400	81232M	6,20
170	213	34	1,1	330,00	1220,00	500	1400	81134M	2,95
	237	55	1,5	680,00	2340,00	480	1300	81234M	7,70
180	247	56	1,5	690,00	2400,00	450	1200	81236M	8,69
190	237	37	1,1	380,00	1500,00	450	1200	81138M	3,85
	267	62	2,0	880,00	3000,00	430	1100	81238M	11,70
200	247	37	1,1	390,00	1550,00	450	1200	81140M	4,17

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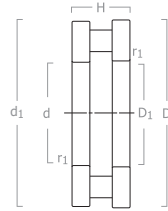
Principal dimensions				Basic load ratings		Speed ratings(rpm)		Designations	Weight
mm				KN		Grease	Oil		kg
d	Dw	B	rs min	Cr	Cor				
220	277	62	2,0	900,00	3200,00	430	1100	81240M	12,20
220	267	37	1,1	420,00	1730,00	430	1100	81144M	4,55
240	297	63	2,0	940,00	3450,00	400	1000	81244M	13,40
240	297	45	1,5	600,00	2500,00	380	950	81148M	7,43
260	335	78	2,1	1300,00	5000,00	360	900	81248M	23,10
260	317	45	1,5	620,00	2650,00	360	900	81152M	7,99
280	355	79	2,1	1440,00	5400,00	340	850	81252M	25,10
280	347	53	1,5	860,00	3650,00	340	850	81156M	12,00
300	375	80	2,1	1460,00	5600,00	320	800	81256M	27,10
300	376	62	2,0	1060,00	4500,00	300	750	81160M	17,20
320	415	95	3,0	1930,00	7300,00	280	700	81260M	42,50
320	396	63	2,0	1110,00	4800,00	280	700	81164M	18,60
340	435	95	3,0	1960,00	7600,00	260	670	81264M	44,60
340	416	64	2,0	1130,00	5000,00	260	670	81168M	19,90
360	455	96	3,0	2060,00	8300,00	240	630	81268M	47,60
360	436	65	2,0	1140,00	5100,00	240	630	81172M	21,40
380	495	110	4,0	2700,00	10600,00	220	600	81272M	68,70
380	456	65	2,0	1180,00	5400,00	240	630	81176M	22,40
400	515	112	4,0	2750,00	11000,00	200	560	81276M	73,30
400	476	65	2,0	1200,00	5700,00	220	600	81180M	23,50
420	535	112	4,0	2800,00	12000,00	200	560	81280M	76,60
420	495	65	2,0	1250,00	5900,00	200	560	81184M	24,30
440	575	130	5,0	3500,00	14200,00	190	530	81284M	109,00
440	535	80	2,1	1800,00	8200,00	190	530	81188M	40,20
595	595	130	5,0	3600,00	15000,00	180	500	81288M	113,00

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Principal dimensions				Basic load ratings		Speed ratings(rpm)		Designations	Weight
mm				KN		Grease	Oil		kg
d	Dw	B	rs min	Cr	Cor				
460	555	80	2,1	1850,00	8700,00	180	500	81192M	41,90
	615	130	5,0	3700,00	16000,00	170	480	81292M	118,00
480	575	80	2,1	1900,00	9000,00	180	500	81196M	43,50
	645	135	5,0	4100,00	17000,00	160	450	81296M	135,00
500	595	80	2,1	1910,00	9300,00	170	480	811/500M	44,90
	665	135	5,0	4150,00	18000,00	160	450	812/500M	140,00
530	635	85	3,0	2100,00	11000,00	160	450	811/530M	56,10
	705	140	5,0	4800,00	21000,00	150	430	812/530M	163,00
560	665	85	3,0	2200,00	11000,00	150	430	811/560M	59,00
	745	150	5,0	4900,00	21500,00	140	400	812/560M	196,00
600	705	85	3,0	2250,00	12000,00	140	400	811/600M	62,80
	795	160	5,0	5500,00	24000,00	130	380	812/600M	236,00
630	745	95	3,0	2200,00	14000,00	130	380	811/630M	81,20
	845	175	6,0	4800,00	26000,00	120	360	812/630M	302,00
670	795	105	4,0	2600,00	17000,00	120	360	811/670M	104,00
	895	180	6,0	5700,00	31000,00	110	340	812/670M	342,00
710	845	112	4,0	2900,00	19000,00	110	340	811/710M	127,00
	945	190	6,0	5900,00	32000,00	100	320	812/710M	402,00
750	895	120	4,0	3300,00	22000,00	100	320	811/750M	155,00
	995	195	6,0	6600,00	36000,00	95	300	812/750M	452,00
800	945	120	4,0	3500,00	22000,00	95	300	811/800M	164,00
	1.055	205	7,5	7100,00	39000,00	90	280	812/800M	525,00
850	995	120	4,0	3600,00	23500,00	90	280	811/850M	174,00
	1.115	212	7,5	7800,00	44000,00	85	260	812/850M	596,00
900	1.055	130	5,0	3750,00	24500,00	85	260	811/900M	213,00

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Principal dimensions				Basic load ratings		Speed ratings(rpm)		Designations	Weight
mm				KN		Grease	Oil		kg
d	Dw	B	rs min	Cr	Cor				
1.175	220	7,5	8000,00	45500,00	80	240	812/900M	680,00	
950	1.115	135	5,0	4050,00	27500,00	85	260	811/950M	249,00
1000	1.175	140	5,0	4400,00	30000,00	80	240	811/1000M	289,00