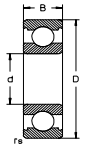
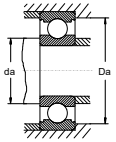
Single row radial ball bearings - *Metric*





Cages and schields

- Available
- Feasible (minimum quantity)
- Out of program
- 1 Basic load ratings and number of balls are different

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Dimensions d	D	B	r_s min	Designation	Limiting speeds rpm x 1'000 Oil	Grease	Contact seals	Basic load ratings Dyn. Cr kN	Stat. Cor kN	Balls	Abutment dimensions da min	Da max	Mass ~ gr	Designation	Cage Y Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage J Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage T9H Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage PEH (PEEK) Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV
mm / inch																																																			
3	10	4	0.15	**623**	48	40	26	0.644	0.229	7x1/16"	4.2	8.8	1.5	**623**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□
.118	.394	.157	.006	*623*							.165	.346		*623*																																						
4	9	4	0.1	**638/4**	46	39	26	0.644	0.229	7x1/16"	4.6	8.4	0.9	**638/4**	■	□	□	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	■	□	□	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
.157	.354	.157	.004	*684ZZ*							.181	.331		*684ZZ*																																						
	10	4	0.15	**684/10**	48	40	26	0.644	0.229	7x1/16"	4.6	8.8	1.4	**684/10**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.394	.157	.006	*MR104ZZ*							.181	.346		*MR104ZZ*																																						
	11	4	0.15	**619/4**	43	36	24	0.712	0.272	8x1/16"	4.8	10.2	1.9	**619/4**	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.433	.157	.006	*694*							.189	.402		*694*																																						
	12	4	0.2	**604**	43	36	24	0.712	0.272	8x1/16"	5.4	10.6	2.4	**604**	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.472	.157	.008	*604*							.213	.417		*604*																																						
	13	5	0.2	**624**	45	38	24	1.300	0.486	7x3/32"	5.6	11.4	3.2	**624**	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□
	.512	.197	.008	*624*							.220	.449		*624*																																						
	16	5	0.3	**634**	43	36	22	1.880	0.680	6x1/8"	6.0	14.0	5.0	**634**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.630	.197	.012	*634*							.236	.551		*634*																																						
5	13	4	0.2	**619/5**	43	36	24	1.060	0.425	8x5/64"	6.4	11.6	2.4	**619/5**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
.197	.512	.157	.008	*695*							.252	.457		*695*																																						
	13	5	0.2	**624/5**	45	38	24	1.300	0.486	7x3/32"	6.4	11.4	3.0	**624/5**	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□
	.512	.197	.008	---							.252	.449		---																																						
	14	5	0.2	**605**	42	35	22	1.300	0.486	7x3/32"	7.0	12.5	3.8	**605**	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□
	.551	.197	.008	*605*							.276	.492		*605*																																						
	16	5	0.3	**625**	43	36	22	1.880	0.680	6x1/8"	7.0	14.0	4.8	**625**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.630	.197	.012	*625*							.276	.551		*625*																																						
	19	6	0.3	**635**	38	32	22	2.460	1.050	8x1/8"	7.0	17.0	8.7	**635**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.748	.236	.012	*635*							.276	.669		*635*																																						
6	13	3.5	0.15	**618/6SD**	40	33		1.060	0.425	8x5/64"	6.8	11.6	1.9	**618/6SD**	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
.236	.512	.138	.006	*686*							.268	.457		*686*																																						
	13	5	0.15	**628/6**	40	33	22	1.060	0.425	8x5/64"	6.8	11.6	2.6	**628/6**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.512	.197	.006	*686ZZ*							.268	.457		*686ZZ*																																						
	15	5	0.2	**619/6**	40	33	22	1.730	0.670	7x7/64"	7.9	13.4	3.6	**619/6**	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	■	□	□	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.591	.197	.008	*696*							.311	.528		*696*																																						
	16	5	0.2	**616**	41	33	22	1.480	0.618	8x3/32"	7.9	14.4	4.6	**616**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.630	.197	.008	---							.311	.567		---																																						
	17	6	0.3	**606**	41	33	22	1.480	0.618	8x3/32"	8.0	15.6	6.7	**606**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	.669	.236	.012	*606*							.315	.614		*606*																																						
	19	6	0.3	**626**	38	32	22	2.460	1.050	8x1/8"	8.0	17.0	8.0	**626**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.748	.236	.012	*626*							.315	.669		*626*																																						
	22	7	0.3	**636**	36	30	20	3.280	1.360	7x5/32"	8.0	20.0	12.8	**636**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.866	.276	.012	*636*							.315	.787		*636*																																						

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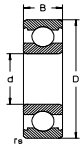
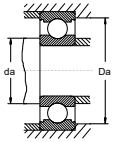
Single row radial ball bearings - *Metric*





Cages and schields

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- Feasible (minimum quantity)
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SINCE 1961

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Dimensions d	D	B	r_s min	Designation	Limiting speeds rpm x 1'000 Oil	Grease	Contact seals	Basic load ratings Dyn. Cr kN	Stat. Cor kN	Balls	Abutment dimensions da min	Da max	Mass ~ gr	Designation	Cage Y Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage J Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage T9H Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage PEH (PEEK) Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV
mm / inch																																																			
7	17	5	0.3	**619/7**	43	36	20	1.610	0.719	9x3/32"	9.4	14.6	5.6	**619/7**	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□
.276	.669	.197	.012	*697*							.370	.575		*697*																																					
	19	6	0.3	**607**	38	32	22	2.460	1.050	8x1/8"	9.0	17.0	7.5	**607**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.748	.236	.012	*607*							.354	.669		*607*																																					
	22	7	0.3	**627**	36	30	20	3.280	1.360	7x5/32"	9.0	20.0	12.2	**627**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.866	.276	.012	*627*							.354	.787		*627*																																					
	26	9	0.3	**637**	36	30	19	3.670	1.640	8x5/32"	9.0	24.0	19.9	**637**	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	□	□	□	□	□	□
	1.024	.354	.012	*637*							.354	.945		*637*																																					
8	16	4	0.2	**618/8SD**	43	36		1.610	0.719	9x3/32"	9.4	14.6	3.4	**618/8SD**	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
.315	.630	.157	.008	*688*							.370	.575		*688*																																					
	16	5	0.2	**628/8**	43	36	20	1.610	0.719	9x3/32"	9.4	14.6	4.2	**628/8**	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□
	.630	.197	.008	*688ZZ*							.370	.575		*688ZZ*																																					
	16	6	0.2	**638/8**	43	36	20	1.610	0.719	9x3/32"	9.4	14.6	4.9	**638/8**	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	□
	.630	.236	.008	---							.370	.575		---																																					
	19	6	0.3	**619/8**	38	32	22	2.460	1.050	8x1/8"	9.0	17.0	6.9	**619/8**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.748	.236	.012	*698*							.354	.669		*698*																																					
	22	7	0.3	**608**	36	30	20	3.280	1.360	7x5/32"	10.0	20.0	11.6	**608**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.866	.276	.012	*608*							.394	.787		*608*																																					
	22	11	0.3	**630/8**	36	30	20	3.280	1.360	7x5/32"	10.0	20.0	17.2	**630/8**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	.866	.433	.012	---							.394	.787		---																																					
	24	8	0.3	**628**	36	30	19	3.670	1.640	8x5/32"	10.0	22.0	16.8	**628**	■	■	■	■	□	□	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	□	□	■	■	■	■	■	■	□	□	□	■	□
	.945	.315	.012	*628*							.394	.866		*628*																																					
	28	9	0.3	**638**	34	28	18	4.580	1.970	7x3/16"	10.0	26.0	26.7	**638**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	1.102	.354	.012	*638*							.394	1.024		*638*																																					
9	20	6	0.3	**619/9**	40	32	18	1.830	0.924	11x3/32"	12.0	17.0	9.2	**619/9**	□	□	□	□	□	□	□	□	□	1	□	□	1	1	1	1	1	□	□	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□
.354	.787	.236	.012	*699*							.472	.669		*699*																																					
	24	7	0.3	**609**	36	30	19	3.670	1.640	8x5/32"	11.0	22.0	14.2	**609**	■	■	■	■	□	□	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	□	□	■	■	■	■	■	■	□	□	□	■	□
	.945	.276	.012	*609*							.433	.866		*609*																																					
	26	8	0.3	**629**	34	28	18	4.580	1.970	7x3/16"	11.0	24.0	20.6	**629**	■	■	■	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	1.024	.315	.012	*629*							.433	.945		*629*																																					
	30	10	0.3	**639**	32	26	17	5.100	2.370	8x3/16"	11.0	28.0	30.7	**639**	■	■	■	■	■	■	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■	■	■	■	■	■	■	□	□	■	■	□	■	□	□
	1.181	.394	.012	*639*							.433	1.102		*639*																																					

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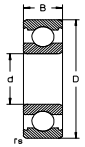
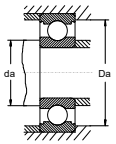
Single row radial ball bearings - *Metric*





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mm / inch																																																			
10	19	5	0.3	**61800**	40	32	18	1.830	0.924	11x3/32"	12.0	17.0	6.0	**61800**										1			1	1	1	1	1	1																		
.394	.748	.197	.012	*6800*							.472	.669		*6800*																																				
	19	6	0.3	**62800**	40	32	18	1.830	0.924	11x3/32"	12.0	17.0	7.0	**62800**										1			1	1	1	1	1	1																		
	.748	.236	.012	---							.472	.669		---																																				
	19	7	0.3	**63800**	40	32	18	1.830	0.924	11x3/32"	12.0	17.0	8.1	**63800**										1			1	1	1	1	1	1																		
	.748	.276	.012	---							.472	.669		---																																				
	22	6	0.3	**61900**	36	30	18	2.700	1.270	9x1/8"	12.0	20.0	9.7	**61900**																																				
	.866	.236	.012	*6900*							.472	.787		*6900*																																				
	26	8	0.3	**6000**	34	28	18	4.580	1.970	7x3/16"	12.0	24.0	19.6	**6000**																																				
	1.024	.315	.012	*6000*							.472	.945		*6000*																																				
	26	12	0.3	**63000**	34	28	18	4.580	1.970	7x3/16"	12.0	24.0	27.9	**63000**																																				
	1.024	.472	.012	---							.472	.945		---																																				
	28	8	0.3	**16100**	34	28	18	4.580	1.970	7x3/16"	12.0	26.0	25.0	**16100**																																				
	1.102	.315	.012	*16100*							.472	1.024		*16100*																																				
	30	9	0.6	**6200**	32	26	17	5.970	2.630	7x7/32"	14.0	26.0	30.4	**6200**																																				
	1.181	.354	.024	*6200*							.551	1.024		*6200*																																				
	30	14	0.6	**62200**	32	26	17	5.970	2.630	7x7/32"	14.0	26.0	44.5	**62200**																																				
	1.181	.551	.024	---							.551	1.024		---																																				
12	21	5	0.3	**61801**	36	30	18	1.920	1.040	12x3/32"	14.0	19.0	6.8	**61801**																																				
.472	.827	.197	.012	*6801*							.551	.748		*6801*																																				
	21	6	0.3	**62801**	36	30	18	1.920	1.040	12x3/32"	14.0	19.0	8.0	**62801**																																				
	.827	.236	.012	---							.551	.748		---																																				
	21	7	0.3	**63801**	36	30	18	1.920	1.040	12x3/32"	14.0	19.0	9.2	**63801**																																				
	.827	.276	.012	---							.551	.748		---																																				
	24	6.0	0.3	**61901**	34	28	18	2.890	1.460	10x1/8"	14.0	22.0	10.9	**61901**																																				
	.945	.236	.012	*6901*							.551	.866		*6901*																																				
	28	7	0.3	**16001SD**	32	26		5.100	2.370	8x3/16"	14.0	26.0	21.1	**16001SD**																																				
	1.102	.276	.012	*16001*							.551	1.024		*16001*																																				
	28	8	0.3	**6001**	32	26	17	5.100	2.370	8x3/16"	14.0	26.0	21.9	**6001**																																				
	1.102	.315	.012	*6001*							.551	1.024		*6001*																																				
	28	12	0.3	**63001**	32	26	17	5.100	2.370	8x3/16"	14.0	26.0	31.1	**63001**																																				
	1.102	.472	.012	---							.551	1.024		---																																				
	30	8	0.3	**16101**	32	26	17	5.100	2.370	8x3/16"	14.0	28.0	27.6	**16101**																																				
	1.181	.315	.012	*16101*							.551	1.102		*16101*																																				
	32	10	0.6	**6201**	30	24	15	6.890	3.090	7x6mm	16.0	28.0	39.4	**6201**																																				
	1.260	.394	.024	*6201*							.630	1.102		*6201*																																				
	32	14	0.3	**62201**	30	24	15	6.890	3.090	7x6mm	16.0	28.0	52.7	**62201**																																				
	1.260	.551	.012	---							.630	1.102		---																																				

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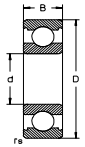
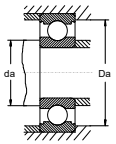
Single row radial ball bearings - *Metric*





Cages and schields

- Available
- Feasible (minimum quantity)
- Out of program
- 1 Basic load ratings and number of balls are different

SINCE 1961

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Dimensions d	D	B	r_s min	Designation	Limiting speeds rpm x 1'000 Oil	Grease	Contact seals	Basic load ratings Dyn. Cr kN	Stat. Cor kN	Balls	Abutment dimensions da min	Da max	Mass ~ gr	Designation	Cage Y Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage J Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage T9H Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV	Cage PEH (PEEK) Shields: Open	z	2z	RSR	2RSR	RSF	2RSF	RSV	2RSV
mm / inch																																																			
15	24	5	0.3	**61802**	34	28	16	2.070	1.260	14x3/32"	17.0	22.0	8.0	**61802**																																				
.591	.945	.197	.012	*6802*							.669	.866		*6802*																																						
	24	6	0.3	**62802**	34	28	16	2.070	1.260	14x3/32"	17.0	22.0	9.4	**62802**																																				
	.945	.236	.012	---							.669	.866		---																																						
	24	7	0.3	**63802**	34	28	16	2.070	1.260	14x3/32"	17.0	22.0	10.9	**63802**																																				
	.945	.276	.012	---							.669	.866		---																																						
	28	7.0	0.3	**61902**	32	26	15	4.330	2.250	10x5/32"	17.0	26.0	14.8	**61902**																																				
	1.102	.276	.012	*6902*							.669	1.024		*6902*																																						
	32	8	0.3	**16002**	30	24	14	5.590	2.840	9x3/16"	17.0	30.0	27.7	**16002**																																				
	1.260	.315	.012	*16002*							.669	1.181		*16002*																																						
	32	9	0.3	**6002**	30	24	14	5.590	2.840	9x3/16"	17.0	30.0	30.7	**6002**																																				
	1.260	.354	.012	*6002*							.669	1.181		*6002*																																						
	32	13	0.3	**63002**	30	24	14	5.590	2.840	9x3/16"	17.0	30.0	42.6	**63002**																																				
	1.260	.512	.012	---							.669	1.181		---																																						
	35	11	0.6	**6202**	26	20	13	7.730	3.760	8x6mm	19.0	31.0	47.5	**6202**																																				
	1.378	.433	.024	*6202*							.748	1.220		*6202*																																						
	35	14	0.6	**62202**	26	20	13	7.730	3.760	8x6mm	19.0	31.0	58.6	**62202**																																				
	1.378	.551	.024	---							.748	1.220		---																																						
17	26	5	0.3	**61803**	32	26	15	2.230	1.460	16x3/32"	19.0	24.0	8.8	**61803**										1			1	1	1	1																		
.669	1.024	.197	.012	*6803*							.748	.945		*6803*																																						
	26	6	0.3	**62803**	32	26	15	2.230	1.460	16x3/32"	19.0	24.0	10.4	**62803**										1			1	1	1	1																		
	1.024	.236	.012	---							.748	.945		---																																						
	26	7	0.3	**63803**	32	26	15	2.230	1.460	16x3/32"	19.0	24.0	12.0	**63803**										1			1	1	1	1																		
	1.024	.276	.012	---							.748	.945		---																																						
	30	7.0	0.3	**61903**	30	24	14	4.600	2.550	11x5/32"	19.0	28.0	16.0	**61903**																																				
	1.181	.276	.012	*6903*							.748	1.102		*6903*																																						
	35	8	0.3	**16003**	28	22	13	6.000	3.250	10x3/16"	19.0	33.0	33.3	**16003**																																				
	1.378	.315	.012	*16003*							.748	1.299		*16003*																																						
	35	10	0.3	**6003**	28	22	13	6.000	3.250	10x3/16"	19.0	33.0	40.5	**6003**																																				
	1.378	.394	.012	*6003*							.748	1.299		*6003*																																						
	35	14	0.3	**63003**	28	22	13	6.000	3.250	10x3/16"	19.0	33.0	54.9	**63003**																																				
	1.378	.551	.012	---							.748	1.299		---																																						
	40	12	0.6	**6203**	22	18	12	9.550	4.760	8x17/64"	21.0	36.0	69.5	**6203**																																				
	1.575	.472	.024	*6203*							.827	1.417		*6203*																																						
20	32	7	0.3	**61804**	28	22	13	3.100	1.900	14x1/8"	22.0	30.0	16.2	**61804**																																				
.787	1.260	.276	.012	*6804*							.866	1.181		*6804*																																						
	32	8	0.3	**62804**	28	22	13	3.100	1.900	14x1/8"	22.0	30.0	18.5	**62804**																																				
	1.260	.315	.012	---							.866	1.181		---																																						
	32	10	0.3	**63804**	28	22	13	3.100	1.900	14x1/8"	22.0	30.0	23.2	**63804**																																				
	1.260	.394	.012	---							.866	1.181		---																																						

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