

HMS INDUSTRIES

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300 Series – Cylindrical Roller Bearings

Bearing No.	Bore (d)		Outer Diameter (D)		Width (B)		Fillet Radius				Outer Ring I.D. (D _r)		Inner Ring O.D. (d _r)		Shoulder Height (J)		Basic Load Ratings lbs		Weight lbs
	mm	in	mm	in	mm	in	(r)		(r _i)		mm	in	mm	in	mm	in	Dynamic C	Static C ₀	
							mm	in	mm	in									
304	20	.7874	52	2.0472	15	.5906	1.5	.059	.6	.024	44.5	1.752	28.5	1.122	31.8	1.252	7100	6000	0.335
305	25	.9843	62	2.4409	17	.6693	1.5	.059	1.5	.059	53	2.0866	35	1.378	39	1.535	9300	8500	0.538
306	30	1.1811	72	2.8346	19	.748	1.5	.059	1.5	.059	62	2.4409	42	1.6535	45.9	1.807	11600	10800	0.813
307	35	1.378	80	3.1496	21	.8268	2	.079	1.5	.059	68.2	2.685	46.2	1.8189	50.8	2	14600	14000	1.070
308	40	1.5748	90	3.5433	23	.9055	2	.079	2	.079	77.5	3.0512	53.5	2.1063	58.4	2.299	18300	17600	1.450
309	45	1.7717	100	3.937	25	.9843	2	.079	2	.079	86.5	3.4055	58.5	2.3031	64	2.52	22000	22400	1.980
310	50	1.9685	110	4.3307	27	1.063	2.5	.098	2.5	.098	95	3.7402	65	2.5591	71	2.795	25000	25500	2.540
311	55	2.1654	120	4.7244	29	1.1417	2.5	.098	2.5	.098	104.5	4.1142	70.5	2.7756	77.2	3.039	30500	31500	3.260
312	60	2.3622	130	5.1181	31	1.2205	2.5	.098	2.5	.098	113	4.4488	77	3.0315	84.2	3.315	33500	35500	4.060
313	65	2.5591	140	5.5118	33	1.2992	2.5	.098	2.5	.098	121.5	4.7835	83.5	3.2874	91	3.583	40500	43000	5.030
314	70	2.7559	150	5.9055	35	1.378	2.5	.098	2.5	.098	130	5.1181	90	3.5433	98	3.858	45500	50000	6.130
315	75	2.9528	160	6.2992	37	1.4567	2.5	.098	2.5	.098	139.5	5.4921	95.5	3.7598	104.2	4.102	54000	58500	7.360
316	80	3.1496	170	6.6929	39	1.5354	2.5	.098	2.5	.098	147	5.7874	103	4.0551	111.8	4.402	57000	62000	8.730
317	85	3.3465	180	7.0866	41	1.6142	3	.118	3	.118	156	6.1417	108	4.252	117.5	4.626	61000	68000	11.800
318	90	3.5433	190	7.4803	43	1.6929	3	.118	3	.118	165	6.4961	115	4.5276	125	4.921	71000	78000	13.700
319	95	3.7402	200	7.874	45	1.7717	3	.118	3	.118	173.5	6.8307	121.5	4.7835	132	5.197	75000	85000	15.800
320	100	3.937	215	8.4646	47	1.8504	3	.118	3	.118	185.5	7.3031	129.5	5.0984	140.5	5.531	85000	96500	19.400
321	105	4.1339	225	8.8583	49	1.9291	3	.118	3	.118	195	7.6772	135	5.315	147	5.787	75000	86500	20.000
322	110	4.3307	240	9.4488	50	1.9685	3	.118	3	.118	207	8.1496	143	5.6299	155.5	6.122	93000	106000	26.200
324	120	4.7244	260	10.2362	55	2.1654	3	.118	3	.118	226	8.8976	154	6.063	168.5	6.634	116000	134000	33.500
326	130	5.1181	280	11.0236	58	2.2835	4	.157	4	.157	243	9.5669	167	6.5748	182	7.165	129000	150000	41.000
328	140	5.5118	300	11.811	62	2.4409	4	.157	4	.157	260	10.2362	180	7.0866	196	7.717	150000	180000	45.600
330	150	5.9055	320	12.5984	65	2.5591	4	.157	4	.157	277	10.9055	193	7.5984	210	8.268	180000	224000	60.400
332	160	6.2992	340	13.3858	68	2.6772	4	.157	4	.157	292	11.4961	208	8.189	225	8.858	193000	236000	70.800
334	170	6.6929	360	14.1732	72	2.8346	4	.157	4	.157	310	12.2047	220	8.6614	238	9.37	180000	228000	81.400
336	180	7.0866	380	14.9606	75	2.9528	4	.157	4	.157	328	12.9134	232	9.1339	252	9.921	204000	260000	94.800
338	190	7.4803	400	15.748	78	3.0709	5	.197	5	.197	345	13.5827	245	9.6457	265	10.455	218000	280000	110.000
340	200	7.874	420	16.5354	80	3.1496	5	.197	5	.197	360	14.1732	260	10.2362	280	11.024	216000	280000	124.000
344	220	8.6614	460	18.1102	88	3.4646	5	.197	5	.197	396	15.5906	284	11.1811	307	12.087	265000	345000	162.000
348	240	9.4488	500	19.685	95	3.7402	5	.197	5	.197	430	16.9291	310	12.2047	335	13.189	320000	430000	208.000
352	260	10.2362	540	21.2598	102	4.0157	6	.236	6	.236	464	18.2677	336	13.2283	362	14.252	360000	500000	260.000
356	280	11.0236	580	22.8346	108	4.252	6	.236	6	.236	498	19.6063	362	14.252	390	15.354	405000	560000	320.000

