



### DEEP GROOVE BALL BEARINGS

Because of their versatility, single row deep groove ball Bearings are the most popular of all ball Bearing types.

Raceways of both rings are deep groove type and their curvatures are slightly larger than that of ball.

These Bearings can handle mainly radial loads, but they can also handle certain degree of axial loads in either direction.

These Bearings are simple in construction and are suitable for high speed operation.

Series available in these type of Bearings are:

68 - 69 - 160 - 60 - 62 - 63 - 64 - 982 - 983 - 42 - 43 - 622 - 623 - 630

### SINGLE ROW - EXTRA THIN SERIES (METRIC DIMENSIONS)

SERIES: 68	SERIES: 69	SERIES: 160	
Bearing No.	Bearing No.	Bearing No.	
6800	6900	16100	
6801	6901	16101	
6802	6902	16002	
6803	6903	16003	
6804	6904	16004	
6805	6905	16005	
6806	6906	16006	
6807	6907	16007	
6808	6908	16008	
6809	6909	16009	
6810	6910	16010	
6811	6911	16011	
6812	6912	16012	
6813	6913	16013	
6814	6914	16014	
6815	6915	16015	
6816	6916	16016	
6817	6917	16017	
6818	6918	16018	
6819	6919	16019	
6820	6920	16020	
6821	6921	16021	
6822	6922	16022	
6824	6924	16024	
6826	6926	16026	
6828	6928	16028	
6830	6930	16030	

### SINGLE ROW - METRIC DIMENSIONS

SERIES: 60	SERIES: 62	SERIES: 63	
Bearing No.	Bearing No.	Bearing No.	
6000	6200	6300	
6001	6201	6301	
6002	6202	6302	
6003	6203	6303	
6004	6204	6304	
6005	6205	6305	
6006	6206	6306	
6007	6207	6307	
6008	6208	6308	
6009	6209	6309	
6010	6210	6310	
6011	6211	6311	
6012	6212	6312	
6013	6213	6313	
6014	6214	6314	
6015	6215	6315	
6016	6216	6316	
6017	6217	6317	
6018	6218	6318	
6019	6219	6319	
6020	6220	6320	
6021	6221	6321	
6022	6222	6322	
6024	6224	6324	
6026	6226	6326	
6028	6228	6328	
6030	6230	6330	

Note 1: Most of the listed deep groove Ball Bearings are also available in RS - 2RS - Z - ZZ - N and NR specifications.

Note 2: Deep groove Ball Bearings could also be developed in C2, C3 & C4 Clearance.



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### DOUBLE ROW - METRIC DIMENSIONS

SERIES: 42		SERIES: 43	
Bearing No.	Bearing No.		
4200	4301		
4201	4302		
4202	4303		
4203	4304		
4204	4305		
4205	4306		
4206	4307		
4207	4308		
4208	4309		
4209	4310		
4210	4311		
4211	4312		
4212	4313		
4213	4314		
4214	4315		
4215			
4216			
4217			
4218			
4220			



### ANGULAR CONTACT BALL BEARINGS

These type of Bearing is very identical to deep groove ball Bearing but their design is such that the line of contact between ball and raceway is at an angle.

These type of Bearings are capable of taking radial loads and thrust loads in one direction only.

These Bearings are designed with three contact angle classifications:

Symbol:  
A: 30° contact angle, B: 40° contact angle, C: 15° contact angle.

Series available in these type of Bearings are:

79 - 70 - 72 - 73  
32 - 33 - 52 - 53 - QJ 2 - QJ 3

### SINGLE ROW - METRIC DIMENSIONS

SERIES: 79		SERIES: 70		SERIES: 72		SERIES: 73	
Bearing No.	Bearing No.	Bearing No.	Bearing No.	Bearing No.	Bearing No.	Bearing No.	Bearing No.
7905	7000	7200	7300				
7906	7001	7201	7301				
7907	7002	7202	7302				
7908	7003	7203	7303				
7909	7004	7204	7304				
7910	7005	7205	7305				
7911	7006	7206	7306				
7912	7007	7207	7307				
7913	7008	7208	7308				
7914	7009	7209	7309				
7915	7010	7210	7310				
7916	7011	7211	7311				
7917	7012	7212	7312				
7918	7013	7213	7313				
7919	7014	7214	7314				
7920	7015	7215	7315				
7921	7016	7216	7316				
7922	7017	7217	7317				
7924	7018	7218	7318				
7926	7019	7219	7319				
7928	7020	7220	7320				
7930	7022	7221	7321				
	7024	7222	7322				
	7026	7224	7324				
	7028	7226	7326				
	7030	7228	7328				
		7230	7330				



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Series available in these type of Bearings are:

79 - 70 - 72 - 73

32 - 33 - 52 - 53 - QJ 2 - QJ 3

### DOUBLE ROW - METRIC DIMENSIONS

SERIES: 32	SERIES: 33	SERIES: 52	SERIES: 53
Bearing No.	Bearing No.	Bearing No.	Bearing No.
3200	3300	5200	5303
3201	3301	5201	5304
3202	3302	5202	5305
3203	3303	5203	5306
3204	3304	5204	5307
3205	3305	5205	5308
3206	3306	5206	5309
3207	3307	5207	5310
3208	3308	5208	5311
3209	3309	5209	5312
3210	3310	5210	5313
3211	3311	5211	5314
3212	3312	5212	5315
3213	3313	5213	5316
3214	3314	5214	
3215	3315	5215	
3216	3316	5216	
3217	3317	5217	
3218	3318	5218	
3219	3319	5219	
3220	3320	5220	

### FOUR POINT CONTACT METRIC DIMENSIONS

SERIES: QJ 200	SERIES: QJ 300		
Bearing No.	Bearing No.		
QJ 203	QJ 303		
QJ 205	QJ 304		
QJ 206	QJ 305		
QJ 207	QJ 306		
QJ 208	QJ 307		
QJ 209	QJ 308		
QJ 210	QJ 309		
QJ 211	QJ 310		
QJ 212	QJ 311		
QJ 213	QJ 312		
QJ 214	QJ 313		
QJ 215	QJ 314		
QJ 216	QJ 315		
QJ 217	QJ 316		
QJ 218	QJ 317		
QJ 219	QJ 318		
QJ 220	QJ 319		
QJ 221	QJ 320		
QJ 222	QJ 322		
QJ 224	QJ 324		
QJ 226	QJ 326		
QJ 228	QJ 328		
QJ 230	QJ 330		

Note 1: Double row angular contact ball Bearings could also be developed with 2RS & ZZ specifications.



### SELF ALIGNING BALL BEARINGS

In this type of Bearing, inner ring has two raceways and outer ring has a spherical raceway and its centre aligns with the center of the Bearing. Therefore, it has self-aligning character and Bearing can comfortably align 4° on either side. Without subjecting a Bearing to any stress, minor displacement of the shaft is automatically adjusted in these types.

These Bearings are suitable for heavy radial loads and very little thrust loads. They are very sensitive to thrust loads occurring due to improper installation.

These Bearings are available in straight bore and taper bore. Generally they are mounted with sleeve.

Series available in these type are:

12 - 12K - 22 - 22K - 13 - 13K - 23 - 23K

### DOUBLE ROW - METRIC DIMENSIONS

SERIES: 12	SERIES: 22	SERIES: 13	SERIES: 23
Bearing No.	Bearing No.	Bearing No.	Bearing No.
135	2200	1300	2300
126	2201	1301	2301
127	2202	1302	2302
108	2203	1303	2303
129	2204	1304	2304
1200	2205	1305	2305
1201	2206	1306	2306
1202	2207	1307	2307
1203	2208	1308	2308
1204	2209	1309	2309
1205	2210	1310	2310
1206	2211	1311	2311
1207	2212	1312	2312
1208	2213	1313	2313
1209	2214	1314	2314
1210	2215	1315	2315
1211	2216	1316	2316
1212	2217	1317	2317
1213	2218	1318	2318
1214	2219	1319	2319
1215	2220	1320	2320
1216		1321	
1217		1322	
1218			
1219			
1220-24			



### CYLINDRICAL ROLLER BEARINGS

In these type of Bearings, rolling elements are cylindrical rollers. Ball Bearings have a POINT CONTACT on the races, whereas these type of Bearings have LINE CONTACT on races. Due to line contact, these type of Bearings have a greater load carrying capacity than the ball Bearings of same dimensions.

Due to detachable design character, they have an advantage of mounting inner and outer ring separately.

Different designs for inner ring and outer ring are available in following series.

N 2 - N 3 - N 4 - NF 2 - NF 3 - NF 4 - NJ 2 - NJ 22 - NJ 23 - NJ 3 - NJ 4 - NU 10 - NU 2 - NU 22 - NU 23 - NU 3 - NU 4 - NUP 2 - NUP 3 - NUP 4

### SINGLE ROW - METRIC DIMENSIONS

SERIES: N 2	SERIES: N 3	SERIES: N 4	SERIES: NF 2
Bearing No.	Bearing No.	Bearing No.	Bearing No.
N 204	N 304	N 404	NF 204
N 205	N 305	N 405	NF 205
N 206	N 306	N 406	NF 206
N 207	N 307	N 407	NF 207
N 208	N 308	N 408	NF 208
N 209	N 309	N 409	NF 209
N 210	N 310	N 410	NF 210
N 211	N 311	N 411	NF 211
N 212	N 312	N 412	NF 212
N 213	N 313	N 413	NF 213
N 214	N 314	N 414	NF 214
N 215	N 315	N 415	NF 215
N 216	N 316	N 416	NF 216
N 217	N 317	N 417	NF 217
N 218	N 318	N 418	NF 218
N 219	N 319	N 419	NF 219
N 220	N 320	N 420	NF 220
N 221	N 321	N 421	NF 221
N 222	N 322	N 422	NF 222
N 224	N 324	N 424	NF 224
N 226	N 326	N 426	NF 226
N 228	N 328	N 428	NF 228
N 230	N 330	N 430	NF 230



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### SINGLE ROW - METRIC DIMENSIONS

SERIES: NF 3	SERIES: NF 4	SERIES: NJ 2	SERIES: NJ 22
Bearing No.	Bearing No.	Bearing No.	Bearing No.
NF 304	NF 405	NJ 204	NJ 2204
NF 305	NF 406	NJ 205	NJ 2205
NF 306	NF 407	NJ 206	NJ 2206
NF 307	NF 408	NJ 207	NJ 2207
NF 308		NJ 208	NJ 2208
	NF 409		
NF 309	NF 410	NJ 209	NJ 2209
NF 310	NF 411	NJ 210	NJ 2210
NF 311	NF 412	NJ 211	NJ 2211
NF 312	NF 413	NJ 212	NJ 2212
NF 313		NJ 213	NJ 2213
	NF 414		
NF 314	NF 415	NJ 214	NJ 2214
NF 315	NF 416	NJ 215	NJ 2215
NF 316	NF 417	NJ 216	NJ 2216
NF 317	NF 418	NJ 217	NJ 2217
NF 318		NJ 218	NJ 2218
	NF 419		
NF 319	NF 420	NJ 219	NJ 2219
NF 320	NF 421	NJ 220	NJ 2220
NF 321	NF 422	NJ 221	NJ 2222
NF 322	NF 424	NJ 222	NJ 2224
NF 324		NJ 224	NJ 2226
	NF 426		
NF 326	NF 428	NJ 226	NJ 2228
NF 328	NF 430	NJ 228	NJ 2230
NF 330		NJ 230	

### SINGLE ROW - METRIC DIMENSIONS

SERIES: NJ 23	SERIES: NJ 3	SERIES: NJ 4	SERIES: NU 10
Bearing No.	Bearing No.	Bearing No.	Bearing No.
NJ 2304	NJ 304	NJ 405	NU 1005
NJ 2305	NJ 305	NJ 406	NU 1006
NJ 2306	NJ 306	NJ 407	NU 1007
NJ 2307	NJ 307	NJ 408	NU 1008
NJ 2308	NJ 308	NJ 409	NU 1009
NJ 2310	NJ 309	NJ 410	NU 1010
NJ 2311	NJ 310	NJ 411	NU 1011
NJ 2311	NJ 311	NJ 412	NU 1012
NJ 2312	NJ 312	NJ 413	NU 1013
NJ 2313	NJ 313	NJ 414	NU 1014
NJ 2314	NJ 314	NJ 415	NU 1015
NJ 2315	NJ 315	NJ 416	NU 1016
NJ 2316	NJ 316	NJ 417	NU 1017
NJ 2317	NJ 317	NJ 418	NU 1018
NJ 2318	NJ 318	NJ 419	NU 1019
NJ 2319	NJ 319	NJ 420	NU 1020
NJ 2320	NJ 320	NJ 421	NU 1021
NJ 2322	NJ 321	NJ 422	NU 1022
NJ 2324	NJ 322	NJ 424	NU 1024
NJ 2326	NJ 324	NJ 426	NU 1026
NJ 2328	NJ 326	NJ 428	NU 1028
NJ 2330	NJ 328	NJ 430	NU 1030
	NJ 330		



### CYLINDRICAL ROLLER BEARINGS

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### SINGLE ROW - METRIC DIMENSIONS

SERIES: NU 2	SERIES: NU 22	SERIES: NU 23	SERIES: NU 3
Bearing No.	Bearing No.	Bearing No.	Bearing No.
NU 203 NU 204 NU 205 NU 206 NU 207	NU 2204 NU 2205 NU 2206 NU 2207 NU 2208	NU 2304 NU 2305 NU 2306 NU 2307 NU 2308	NU 304 NU 305 NU 306 NU 307 NU 308
NU 208 NU 209 NU 210 NU 211 NU 212	NU 2209 NU 2210 NU 2211 NU 2212 NU 2213	NU 2309 NU 2310 NU 2311 NU 2312 NU 2313	NU 309 NU 310 NU 311 NU 312 NU 313
NU 213 NU 214 NU 215 NU 216 NU 217	NU 2214 NU 2215 NU 2216 NU 2217 NU 2218	NU 2314 NU 2315 NU 2316 NU 2317 NU 2318	NU 314 NU 315 NU 316 NU 317 NU 318
NU 218 NU 219 NU 220 NU 221 NU 222	NU 2219 NU 2220 NU 2222 NU 2224 NU 2226	NU 2319 NU 2320 NU 2322 NU 2324 NU 2326	NU 319 NU 320 NU 321 NU 322 NU 324
NU 224 NU 226 NU 228 NU 230	NU 2228 NU 2230	NU 2328 NU 2330	NU 326 NU 328 NU 330

### SINGLE ROW - METRIC DIMENSIONS

SERIES: NU 4	SERIES: NUP 2	SERIES: NUP 3	SERIES: NUP 4
Bearing No.	Bearing No.	Bearing No.	Bearing No.
NU 405 NU 406 NU 407 NU 408 NU 409	NUP 203 NUP 204 NUP 205 NUP 206 NUP 207	NUP 304 NUP 305 NUP 306 NUP 307 NUP 308	NUP 405 NUP 406 NUP 407 NUP 408 NUP 409
NU 410 NU 411 NU 412 NU 413 NU 414	NUP 208 NUP 209 NUP 210 NUP 211 NUP 212	NUP 309 NUP 310 NUP 311 NUP 312 NUP 313	NUP 410 NUP 411 NUP 412 NUP 413 NUP 414
NU 415 NU 416 NU 417 NU 418 NU 419	NUP 213 NUP 214 NUP 215 NUP 216 NUP 217	NUP 314 NUP 315 NUP 316 NUP 317 NUP 318	NUP 415 NUP 416 NUP 417 NUP 418 NUP 419
NU 420 NU 421 NU 422 NU 424 NU 426	NUP 218 NUP 219 NUP 220 NUP 221 NUP 222	NUP 319 NUP 320 NUP 321 NUP 322 NUP 324	NUP 420 NUP 421 NUP 422 NUP 424 NUP 426
NU 428 NU 430	NUP 224 NUP 226 NUP 228 NUP 230	NUP 326 NUP 328 NUP 330	NUP 428 NUP 430



### TAPERED ROLLER BEARINGS

In these types of Bearings, rolling elements are Tapered Rollers. therefore they are known as Tapered Roller Bearings.

These are separable type Bearing, consisting CUP and CONE. These type of Bearings has capacity of carry large amounts of radial and axial load in one direction.

These Bearings are available in series:

320 - 322 - 323 - 302 - 303 - 303 D - 330 - 331 - 332

Tapered roller Bearings are also available with Inch Series.

### METRIC DIMENSIONS

SERIES: 320	SERIES: 322	SERIES: 323	SERIES: 302
Bearing No.	Bearing No.	Bearing No.	Bearing No.
32005 320/28 32006 320/32 32007	32203 32204 32205 32206 32207	32303 32304 32305 32306 32307	30202 30203 30204 30205 30206
32008 32009 32010 32011 32012	32208 32209 32210 32211 32212	32308 32309 32310 32311 32312	30207 30208 30209 30210 30211
32013 32014 32015 32016 32017	32213 32214 32215 32216 32217	32313 32314 32315 32316 32317	30212 30213 30214 30215 30216
32018 32019 32020 32021 32022	32218 32219 32220 32221 32222	32318 32319 32320 32321 32322	30217 30218 30219 30220 30221
32024 32026 32028 32030 32032	32224 32226 32228 32230	32324 32326 32328 32330 32332	30222 30224 30226 30228 30230
32034, 32036 32038, 32040		32334, 32336 32338, 32340	

### METRIC DIMENSIONS

SERIES: 303	SERIES: 303 D	SERIES:330	SERIES: 331
Bearing No.	Bearing No.	Bearing No.	Bearing No.
30302 30303 30304 30305 30306	30305 D 30306 D 30307 D 30308 D 30309 D	33005 33006 33007 33008 33009	33108 33109 33110 33111 33112
30307 30308 30309 30310 30311	30310 D 30311 D 30312 D 30313 D 30314 D	33010 33011 33012 33013 33014	33113 33114 33115 33116 33117
30312 30313 30314 30315 30316	30315 D 30316 D 30317 D 30318 D 30319 D	33015 33016 33017 33018 33019	33118 33119 33120 33121 33122
30317 30318 30319 30320 30321	30320 D 30321 D 30322 D	33020 33021 33022 33024 33026	33124
30322 30324 30326 30328 30330		33028 33030	





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320 - 322 - 323 - 302 - 303 - 303 D - 330 - 331 - 332

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METRIC DIMENSIONS			
SERIES: 322		INCH SERIES	INCH SERIES
Bearing No.		Bearing No.	Bearing No.
33205		639213	86649/86610
33206			
33207		11590/11520	15120/15245
33208			
33209		11749/11710	15123/15245
			67048/67010
33210		11949/11910	88542/88510
33211		21075/21212	2580/2520
33212		09067/09195	
33213			88048/88010
33214		12649/12610	88547/88510
33215		12749/12710	88649/88610
33216		12749/12711	48548/48510
33217			25877/25821
		639175	68149/68110
			68149/68111
		44640/44610	89449/89410
		44643/44610	
		84548/84510	69349/69310
		639174	29748/29710
			29749/29710
		44649/44610	29749/29711
			3490/3420
		1988/1922	418/414
		86647/86610	2788/2720
			801346-22/
		45449/45410	801310-22
		14118/14283	300849/300811

INCH SERIES	INCH SERIES	INCH SERIES	INCH SERIES
Bearing No.	Bearing No.	Bearing No.	Bearing No.
11162/11300	52200/55437	6379/6320	516449/516410
802048/802011	18790/18720		27687/27620
18590/18520	28580/28521	212049/212010	580/572
24780/24720	33889/33821	6386/6320	47686/47620
501349/501310	368A/362A	3984/3920	47687/47620
501349/501314	3780/3720	39590/39520	663/652
	537/532X		749A/742
25580/25520	807046/807010	47487/47420	498/493
355X/352	72200C/72487	482/472	716649/716610
903249/903210	592X/522	33275/33472	749/742
3782/3720			596/592A
535/532A	28584/28521	612949/612910	759/752
803149/803110		484/472	6580/6535
803149/803112	33895/3382		593/592A
	593/532A	33281/33472	518445/518410
17887/17831	621/612	33281/33462	
		47490/47420	218248/218210
102949/102910	506849/506810	644/632	598A/593X
603049/603011			598A/592A
	39581/39520	567/563	47890/47820
25590/25520	462/453X	29685/29620	594/592
25590/25523	387/382		683/672
	3979/3920	29688/29620	594/592A
503349/503310	469/453X		56425/56650
		714149/714110	37425/37625
18690/18620	392/3920		5522549/522510
359S/354X		748/742	64450/64700
	395A/394A	47679/47620	926740/926710
104948/104910	3982/3920	755/752	938/932
	565/563	575/572	
104949/104910	3982/3927SX		68462/68712
104949/104911		496/493	67338/67322





### SPHERICAL ROLLER BEARINGS

In Spherical Roller Bearings inner ring has two raceways and outer ring has spherical raceway. Rolling elements are spherical shaped rollers.

Inner ring with roller assembly aligns in the spherical raceway of outer ring.

These type of Bearings has a self aligning character and can comfortably withstand minor shaft deflection and misalignment. These Bearings are sturdy enough to withstand heavy and shock load conditions. They have heavy radial load carrying capacity and can accept axial loads in both directions.

These Bearings are available in straight bore and tapered bore

Series available in this type are :  
213 - 222 - 223 - 230 - 231 - 232 - 239 - 240 - 241

#### METRIC DIMENSIONS

SERIES: 213	SERIES: 222	SERIES: 222	SERIES: 223
Bearing No.	Bearing No.	Bearing No.	Bearing No.
21304	22205	22240	22308
21305	22206	22244	22309
21306	22207	22248	22310
21307	22208	22252	22311
21308	22209	22256	22312
21309	22210	22260	22313
21310	22211		22314
21311	22212		22315
21312	22213		22316
21313	22214		22317
21314	22215		22318
21315	22216		22319
21316	22217		22320
21317	22218		22322
21318	22219		22324
21319	22220		22326
21320	22222		22328
31322	22224		22330
	22226		22332
	22228		22334
	22230		22336
	22232		22338
	22234		22340
	22236		22344
	22238		22348
			22352
			22356

#### METRIC DIMENSIONS

SERIES: 230	SERIES: 231	SERIES: 232	SERIES: 239
Bearing No.	Bearing No.	Bearing No.	Bearing No.
23022	23120	23218	23936
23024	23122	23220	23938
23026	23124	23222	23940
23028	23126	23224	23944
23030	23128	23226	23948
23032	23130	23228	23952
23034	23132	23230	23956
23036	23134	23232	23960
23038	23136	23234	23964
23040	23138	23236	23968
23044	23140	23238	23972
23048	23144	23240	23976
23052	23148	23244	23980
23056	23152	23248	23984
23060	23156	23252	23988
23064	23160	23256	23992
23068	23164	23260	23996
23072	23168	23264	239/500
23076	23172	23268	
23080	23176	23272	
23084	23180	23276	
23088	23184	23280	
23092	23188	23284	
23096	23192	23288	
230/500	23196	23292	
	231/500	23296	
		232/500	

Note 1: These type of Bearings are available with,

1. W33 specifications.
2. CN & C3 clearance.
3. Straight and taper bore.



### SPHERICAL ROLLER BEARINGS

In Spherical Roller Bearings inner ring has two raceways and outer ring has spherical raceway. Rolling elements are spherical shaped rollers.

Inner ring with roller assembly aligns in the spherical raceway of outer ring.

These type of Bearings has a self aligning character and can comfortably withstand minor shaft deflection and misalignment. These Bearings are sturdy enough to withstand heavy and shock load conditions. They have heavy radial load carrying capacity and can accept axial loads in both directions.

These Bearings are available in straight bore and tapered bore

Series available in this type are :  
213 - 222 - 223 - 230 - 231 - 232 - 239 - 240 - 241

### METRIC DIMENSIONS

SERIES: 240	SERIES: 241		
Bearing No.	Bearing No.		
24024	24122		
24026	24124		
24028	24126		
24030	24128		
24032	24130		
24034	24132		
24036	24134		
24038	24136		
24040	24138		
24044	24140		
24048	24144		
24052	24148		
24056	24152		
24060	24156		
24064	24160		
24068	24164		
24072	24168		
24076	24172		
24080	24176		
24084	24180		
24088	24184		
24092	24188		
24096	24192		
240/500	24196		
	241/500		



### NEEDLE BEARINGS & NEEDLE CAGES

Needle Bearings are mainly used in applications where the space restriction between shaft & housing does not allow other type of (ball or roller) bearings to be used. Needle Bearings offer very good radial load carrying capacity, but have lower speed capability.

The following product groups will be on offer:

1. Needle Cages
2. Needle Bushes
3. Needle Rollers

The main applications are in automobiles (both 2 & 4 wheelers) in variety of locations such as steering, gearbox, clutch, differential, Universal Joints, etc.

### METRIC DIMENSIONS

For Connecting Rod Bearings (Small End) Cage No.	For Connecting Rod Bearings (Big End) Cage No.	For Gear Box Application Cage No.	
10 KV 14 12.5	12 KT 17 10	16 NV 21 22	
10 KV 14 13		18 NV 22 17	
10 KV 14 14	16 KT 21 10	20 NT 28 20	
12 KV 15 15	16 KT 21 10 C	25 NT 30 20	
12 KV 16 13	16 KT 21 12 C	25 NT 30 24	
12 KV 16 16	16 KT 22 12		
14 KV 18 13	16 KT 22 12 C	28 NT 35 20	
14 KV 18 16.5		30 NT 35 20	
14 KV 18 17.5	18 KT 24 12	35 DV 39 34	
14 KV 18 20	18 KT 24 12 C	40 DV 44 34.6	
	18 KT 24 13.5 C		
14 KV 19 17.3	20 KT 26 17 C		
15 KV 19 20			
16 KV 20 19.5	22 KT 28 14 C		
16 KV 20 21.5	22 KT 28 15 C		
16 KV 20 22.5	22 KT 28 16 C		
	22 KT 29 14 C		
	22 KT 29 15.6		
	25 KT 30 14 S		
	28 KT 33 14 S		
	28 KT 36 16 S		
	29 KT 39 16 C		
	30 KT 38 16 C		



### NEEDLE BEARINGS & NEEDLE CAGES

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### METRIC DIMENSIONS

Full Complement type	Cage Guided	Cage Guided	Cage Guided
Bush No.	Bush No.	Bush No.	Bush No.
10 HGM 15 10 12 HGM 18 10 12 HGM 20 12 13 HGM 19 12 28 HM 36 20	8 HR 12 10 9 HR 13 10 9 HR 13 12 9 HR 16 12	20 HR 26 12 20 HR 26 16 20 HR 26 20  25 HR 32 12 25 HR 32.16 25 HR 32 20 25 HR 32 26	30 HR 37 12 30 HR 37 16 30 HR 37 20 30 HR 37 26  35 HR 42 12 35 HR 42 16 35 HR 42 20
35 HM 43 20 H 24 16 H 24 20	10 HR 14 10 10 HR 14 12 10 HR 14 15  12 HR 16 10 12 HR 18 12  13 HR 19 12  14 HR 20 12 14 HR 20 16	28 HR 35 16 28 HR 35 20	40 HR 47 12 40 HR 47 16 40 HR 47 20 40 HR 52 16 40 HR 52 20  16 02 38
	15 HR 21 12 15 HR 21 16 15 HR 21 22  16 HR 22 12 16 HR 22 16 16 HR 22 22  17 HR 23 12 17 HR 25 18 RS  18 HR 24 12 18 HR 24 16		



### THRUST BALL BEARINGS & SPHERICAL ROLLER THRUST BEARINGS

Thrust Ball Bearing has two washers, one is shaft washer and the other one is housing washer. The bore of shaft washer is of the shaft size, and bore of housing washer is slightly larger than shaft washer to facilitate the free rotation of the shaft.

These Bearings can accept only Thrust loads in single direction. They are not suitable for high speed applications.

Double direction Thrust Bearing has two housing washers, one shaft washer and two rolling element assemblies.

These type can accept only Thrust Loads in both directions.

Series available in this type are:

511 - 512 - 513 - 514 - 522 - 523 - 524 532 - 533 - 534  
292 - 293 - 294

### THRUST SINGLE DIRECTION - METRIC DIMENSIONS

SERIES: 511	SERIES: 512	SERIES: 513	SERIES: 514
Bearing No.	Bearing No.	Bearing No.	Bearing No.
51100 51101	51200 51201	51305 51306	51405 51406
51102 51103	51202 51203	51307 51308	51407 51408 51409 51410
51104 51105	51204 51205	51309 51310	51411 51412
51106 51107 51108 51109	51206 51207 51208 51209	51311 51312 51313 51314	51413 51414
51110 51111	51210 51211	51315 51316	51415 51416
51112 51113	51212 51213	51317 51318	51417 51418
51114 51115	51214 51215	51320	51420
51116 51117	51216 51217		
51118 51120	51218 51220		



### THRUST BALL BEARINGS & SPHERICAL ROLLER THRUST BEARINGS

Thrust Ball Bearing has two washers, one is shaft washer and the other one is housing washer. The bore of shaft washer is of the shaft size, and bore of housing washer is slightly larger than shaft washer to facilitate the free rotation of the shaft.

These Bearings can accept only Thrust loads in single direction. They are not suitable for high speed applications.

Double direction Thrust Bearing has two housing washers, one shaft washer and two rolling element assemblies.

These type can accept only Thrust Loads in both directions.

Series available in this type are:

511 - 512 - 513 - 514 - 522 - 523 - 524 532 - 533 - 534  
292 - 293 - 294

### THRUST DOUBLE DIRECTION - METRIC DIMENSIONS

SERIES: 522	SERIES: 523	SERIES: 524	
Bearing No.	Bearing No.	Bearing No.	
52202	52305	52405	
52204	52306	52406	
52205	52307	52407	
52206	52308	52408	
52207	52309	52409	
52208	52310	52410	
52209	52311	52411	
52210	52312	52412	
52211	52313	52413	
52212	52314	52414	
52213	52315	52415	
52215	52316	52416	
52216	52317	52417	
52217	52318	52418	
52218	52320	52420	
52220	52322	52422	
52222	52324	52424	
52224		52426	

### THRUST SINGLE DIRECTION WITH SPHERED HOUSING WASHER - METRIC DIMENSIONS

SERIES: 532	SERIES: 533	SERIES: 534	
Bearing No.	Bearing No.	Bearing No.	
53202	53305	53408	
53203	53306	53409	
53204	53307	53410	
53205	53308	53411	
53206	53309	53412	
53207	53310	53413	
53208	53311	53414	
53209	53312	53415	
53210	53313	53416	
53211	53314	53417	
53212	53315	53418	
53213	53316	53420	
53214	53317		
53215	53318		
53216	53320		
53217			
53218			
53220			



### BALL BEARINGS UNITS

Ball Bearing Units offer a convenient method of applying highly reliable rolling contact Bearings to applications without the necessity of manufacturing a Bearing housing.

Generally Ball Bearing units have following features.

- Self-aligning capability
- Sealed
- Easy to mount and dismount
- Interchangeability with foreign made units

Since Ball Bearings for units have the same geometry as deep groove ball Bearing, load rating, reliability and other functions are equal with that of deep groove ball Bearing.

Series available in metric dimensions:  
 UCP-200 - UCP-300 - UCF-200 - UCF-300  
 UCFL-200 - UCFL-300 - UCT-200 - UCT-300

METRIC DIMENSIONS			
UCP 200	UCP 300	UCF 200	UCF 300
Number	Number	Number	Number
UCP 201	UCP 305	UCF 201	UCFL305
UCP 202	UCP 306	UCF 202	UCF 306
UCP 203	UCP 307	UCF 203	UCF 307
UCP 204	UCP 308	UCF 204	UCF 308
UCP 205	UCP 309	UCF 205	UCF 309
UCP 206	UCP 310	UCF 206	UCF 310
UCP 207	UCP 311	UCF 207	UCF 311
UCP 208	UCP 312	UCF 208	UCF 312
UCP 209	UCP 313	UCF 209	UCF 313
UCP 210	UCP 314	UCF 210	UCF 314

METRIC DIMENSIONS			
UCFL 200	UCFL 300	UCT 200	UCT 300
Number	Number	Number	Number
UCFL 201	UCFL 305	UCT 201	UCP 305-14
UCFL 202	UCFL 306	UCT 202	UCP 305-16
UCFL 203	UCFL 307	UCT 203	UCP 306-18
UCFL 204	UCFL 308	UCT 204	UCP 307-20
UCFL 205	UCFL 309	UCT 205	UCP 307-22
UCFL 206	UCFL 310	UCT 206	UCP 308-24
UCFL 207	UCFL 311	UCT 207	UCP 309-26
UCFL 208	UCFL 312	UCT 208	UCP 309-28
UCFL 209	UCFL 313	UCT 209	UCP 310-30
UCFL 210	UCFL 314	UCT 210	UCP 311-32





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We at "Gaur" also develop non- standard sizes depending on the production economics. Our product showcase is supposed to be one of the most popular types under regular development and continuous expansion.

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