



JVN
BEARINGS

ISO 9001 CERTIFIED

Needle Bearings & Cages



The Rolling Elements of Needle Roller Bearings are Cylindrical in shape with the Rollers length being far greater than its diameter. These Bearings are used where limited space is available between Shaft & Housing.

Needle Roller Bearings are

- capable of carrying high radial loads
- suitable for low a medium speed applications
- mainly used in Gearbox, Steering, Clutch, Differential, Engine, UV joints etc. in Automobiles

JVN can offer following variants

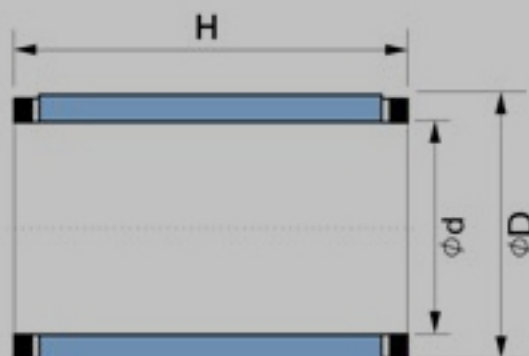
- Needle Cages
- Needle Bushes
- Needle Rollers

Apart from the list of items presented in the following pages, many other special type of Needle Roller Bearings can be developed to meet specific application requirements. Technical information for Bearings not appearing in our production program, is available on request.

Needle Bearings & Cages

For Connecting Rod Small End

Bearing No.	Dimensions in mm			Basic Load Ratings		Wt. (gms)
	d	D	H	N		
				Dynamic	Static	
10 KV 14 12.5	10.000	14.000	12.500	500	470	5.000
10 KV 14 13	10.000	14.000	12.800	760	830	5.500
10 KV 14 14	10.000	14.000	13.800	660	680	6.000
12 KV 15 15	12.000	15.000	14.800	660	870	5.000
12 KV 16 13	12.000	16.000	12.800	740	840	5.000
12 KV 16 16	16.000	16.000	15.800	820	940	7.500
14 KV 18 13	14.000	18.000	12.800	730	850	6.000
14 KV 18 16.5	14.000	18.000	16.300	920	1140	8.000
14 KV 18 17.5	14.000	18.000	17.300	970	1230	10.000
14 KV 18 20	14.000	18.000	19.800	970	1230	12.000
14 KV 19 17.3	14.000	19.000	17.100	1110	1260	12.000
15 KV 19 20	15.000	19.000	19.800	1080	1430	13.000
16 KV 20 19.5	16.000	20.000	21.200	1020	1350	13.000
16 KV 20 21.5	16.000	20.000	21.200	1330	1560	13.500
16 KV 20 22.5	16.000	20.000	22.300	1330	1560	14.000

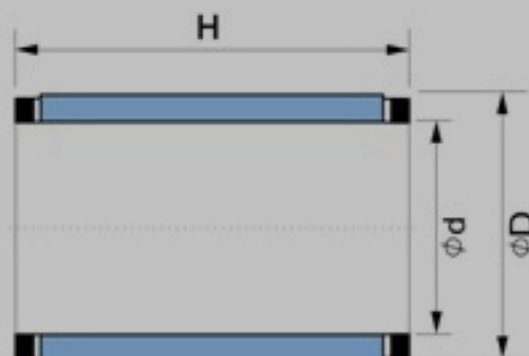


*Note :

*Mentioned speed ratings are with oil lubrication.
For grease lubrication, please use 75% of the indicated values.

For Connecting Rod Big End

Bearing No.	Dimensions in mm			Basic Load Ratings		Wt. (gms)
				N		
	d	D	H	Dynamic	Static	
12 KT 17 10	12.000	17.000	9.800	620	575	5.100
16 KT 21 10	16.000	21.000	9.800	760	810	7.000
16 KT 21 10 C	16.000	21.000	9.800	760	810	7.000
16 KT 21 12 C	16.000	21.000	11.800	900	1000	8.000
16 KT 22 12	16.000	22.000	11.800	1030	1060	10.000
16 KT 22 12 C	16.000	22.000	11.800	1030	1060	10.000
18 KT 24 12	18.000	24.000	11.800	1170	1290	11.000
18 KT 24 12 C	18.000	24.000	11.800	1170	1290	11.000
18 KT 24 13.5 C	18.000	24.000	13.300	1360	1560	12.000
20 KT 26 17 C	20.000	27.000	16.800	1460	1760	14.000
22 KT 28 14 C	22.000	28.000	13.800	1390	1690	14.000
22 KT 28 15 C	22.000	28.000	14.800	1480	1830	15.500
22 KT 28 16 C	22.000	28.000	15.800	1460	1830	16.000
22 KT 29 14 C	22.000	29.000	13.800	1600	1940	18.000
22 KT 29 15.6	22.000	29.000	15.400	1700	2000	20.000
25 KT 30 14 S	25.000	30.000	13.800	1430	2080	14.000
28 KT 33 14 S	28.000	33.000	13.800	1640	2570	18.000
28 KT 36 16 S	28.000	36.000	15.800	2430	3090	30.000
29 KT 39 16 C	29.000	39.000	15.800	2420	2670	40.000
30 KT 38 16 C	30.000	38.000	15.800	2420	3130	32.000

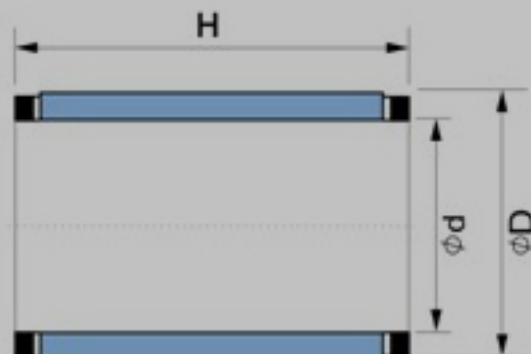


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For grease lubrication, please use 75% of the indicated values.

For Gear Box

Bearing No.	Dimensions in mm			Basic Load Ratings		Wt. (gms)
	d	D	H	N		
				Dynamic	Static	
16 NV 21 22	16.000	21.000	21.700	1430	1800	16.000
18 NV 22 17	18.000	22.000	16.800	1100	1550	11.000
20 NT 28 20	20.000	28.000	19.800	2110	2360	29.000
25 NT 30 20	25.000	30.000	19.800	1935	3060	21.000
25 NT 30 24	25.000	30.000	23.800	2150	3490	24.000
28 NT 35 20	28.000	35.000	19.800	2230	3010	32.000
30 NT 35 20	30.000	35.000	19.800	2020	3420	37.000
35 DV 39 34	35.000	39.000	33.800	2560	5700	42.000
40 DV 44 34.6	40.000	44.000	34.400	2750	6560	50.000

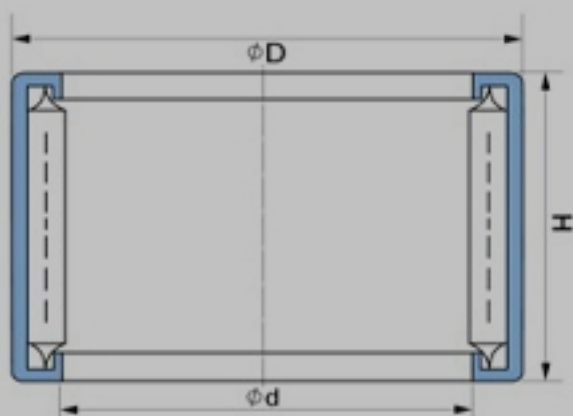


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Full Compliment Type

Bearing No.	Dimensions in mm			Basic Load Ratings		WL (gms)
				N		
	d	D	H	Dynamic	Static	
				Grease Retained		
10 HGM 15 10	10.000	15.000	9.350	620	860	6.000
12 HGM 18 10	12.000	18.000	10.000	870	1110	14.000
12 HGM 20 12	12.000	20.000	12.000	1240	1430	8.000
13 HGM 19 12	13.000	19.000	12.000	1040	1500	12.000
				Full Complement Needle Bush: Type H, HM.		
28 HM 36 20	28.000	36.000	20.000	3075	3090	45.000
35 HM 43 20	35.000	43.000	20.000	3450	7000	58.000
H 24 16	38.100	47.625	25.400	4880	9970	98.000
H 24 20	38.100	47.620	31.750	6130	13370	124.000



*Note :

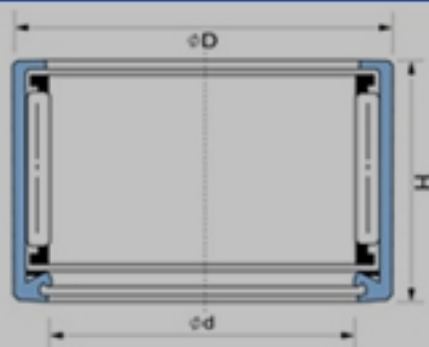
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Needle Bearings & Cages



For Gear Box

Bearing No.	Dimensions in mm			Basic Load Ratings		WL (gms)
				N		
	d	D	H	Dynamic	Static	
8 HR 12 10	8.000	12.000	10.000	340	240	3.500
9 HR 13 10	9.000	13.000	10.000	380	280	4.000
9 HR 13 12	9.000	13.000	12.000	470	370	4.500
9 HR 16 12	9.000	16.000	12.000	490	405	8.000
10 HR 14 10	10.000	14.000	10.000	390	290	4.000
10 HR 14 12	10.000	14.000	12.000	490	390	4.500
10 HR 14 15	10.000	14.000	15.000	600	500	5.500
12 HR 16 10	12.000	16.000	10.000	440	350	5.000
12 HR 18 12	12.000	18.000	12.000	580	420	9.000
13 HR 19 12	13.000	19.000	12.000	600	450	10.000
14 HR 20 12	14.000	20.000	12.000	680	520	10.000
14 HR 20 16	14.000	20.000	16.000	960	820	10.000
15 HR 21 12	15.000	21.000	12.000	700	550	11.000
15 HR 21 16	15.000	21.000	16.000	930	820	15.000
15 HR 21 22	15.000	21.000	22.000	1180	1110	20.000
16 HR 22 12	16.000	22.000	12.000	680	550	16.000
16 HR 22 16	16.000	22.000	16.000	970	860	16.000
16 HR 22 22	16.000	22.000	22.000	1160	1090	22.000
17 HR 23 12	17.000	23.000	12.000	700	580	12.000
17 HR 25 18 RS	17.000	25.000	18.000	1200	900	22.000
18 HR 24 12	18.000	24.000	12.000	720	610	13.000
18 HR 24 16	18.000	24.000	16.000	1030	960	17.000
20 HR 26 12	20.000	26.000	12.000	765	670	19.000
20 HR 26 16	20.000	26.000	16.000	1130	1100	24.000
20 HR 26 20	20.000	26.000	20.000	1390	1440	24.000

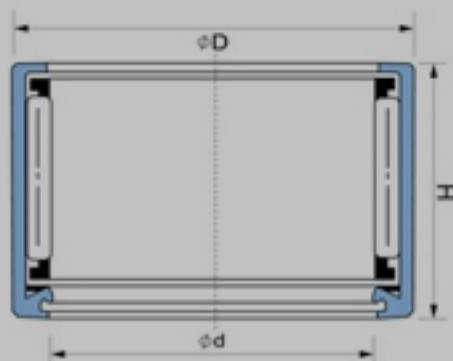


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For grease lubrication, please use 75% of the indicated values.

For Gear Box

Bearing No.	Dimensions in mm			Basic Load Ratings		WL (gms)
				N		
	d	D	H	Dynamic	Static	
25 HR 32 12	25.000	32.000	12.000	970	830	21.000
25 HR 32 16	25.000	32.000	16.000	1380	1310	27.000
25 HR 32 20	25.000	32.000	20.000	1770	1800	34.000
25 HR 32 26	25.000	32.000	26.000	2260	2470	45.000
28 HR 35 16	28.000	35.000	16.000	1440	1430	30.000
28 HR 35 20	28.000	35.000	20.000	1660	1770	37.000
30 HR 37 12	30.000	37.000	12.000	1010	940	24.000
30 HR 37 16	30.000	37.000	16.000	1450	1480	32.000
30 HR 37 20	30.000	37.000	20.000	1850	2020	38.000
30 HR 37 26	30.000	37.000	26.000	2350	2750	52.000
35 HR 42 12	35.000	42.000	12.000	1100	1080	28.000
35 HR 42 16	35.000	42.000	16.000	1570	1710	37.000
35 HR 42 20	35.000	42.000	20.000	2000	2330	46.000
40 HR 47 12	40.000	47.000	12.000	1180	1230	32.000
40 HR 47 16	40.000	47.000	16.000	1685	1940	42.000
40 HR 47 20	40.000	47.000	20.000	2150	2660	52.000
40 HR 52 16	40.000	52.000	16.000	1780	2170	47.000
40 HR 52 20	40.000	52.000	20.000	2280	2950	57.000
16 02 38	11.113	17.463	16.670	1360	680	11.000



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