

Needle roller bearings , relative to its diameter, roller both thin and long. This is called needle roller. Despite having a smaller cross-section, it has a higher load bearing capacity, equipped with a thin and long needle bearing roller, so the radial structure is compact, its diameter size and load capacity and other types of bearings, the outer diameter minimum, especially for radial mounting dimensions restricted support structure.

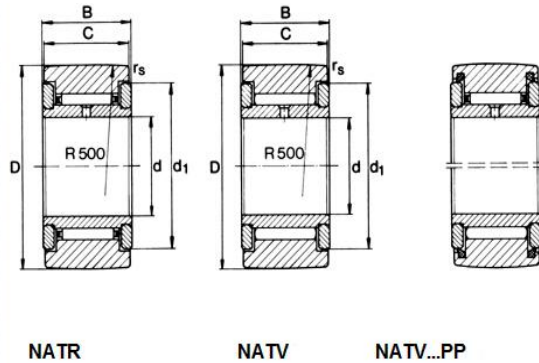
Needle roller bearings are single or double row units comprising machined outer rings with ribs, needle roller and cage assemblies and removable inner rings.

The bearings are available in open and sealed versions.

needle bearings have cylindrical roller, which are thin and long relatively to its diameter

Despite the smaller cross-section, the bearings still have a high load bearing capacity.

Yoke type track roller bearing:NATR Series



Motion(shanghai)Industrial Development Co.,Ltd

Outer Diameter r mm	Bearing Designation		Boundary Dimensionsmm						Basic Load Ratings				Limiting Speed <sup>3)</sup> n <sub>1greas</sub> ≈ min <sup>-1</sup>
									As yoke type track rollers		C	Co	
	Without Seal	With Seal	D	d	B	C	E	r <sub>s</sub>	N				
16	NATR 5	NATR 5 PP	5	16	12	11	0.15	12	3800	3750	3150	3300	22000
16	NATV 5	NATV 5 PP	5	16	12	11	0.15	12	6400	8500	4850	6500	8500
19	NATR 6	NATR 6 PP	6	19	12	11	0.15	14	4250	4600	3500	3900	20000
19	NATV 6	NATV 6 PP	6	19	12	11	0.15	14	7300	10800	5500	7900	7000
24	NATR 8	NATR 8 PP	8	24	15	14	0.3	19	6800	7700	5500	6400	15000
24	NATV 8	NATV 8 PP	8	24	15	14	0.3	19	10400	15600	7800	11400	5500
30	NATR 10	NATR 10 PP	10	30	15	14	0.6	23	8100	9700	6800	8400	11000
30	NATV 10	NATV 10 PP	10	30	15	14	0.6	23	12200	19000	9500	14600	4500
32	NATR 12	NATR 12 PP	12	32	15	14	0.6	25	8700	11000	6900	8800	9000
32	NATV 12	NATV 12 PP	12	32	15	14	0.6	25	13200	21700	9700	15400	3900
35	NATR 15	NATR 15 PP	15	35	19	18	0.6	27	12900	19000	9700	14100	7000
35	NATV 15	NATV 15 PP	15	35	19	18	0.6	27	18300	35000	12800	23000	3400
40	NATR 17	NATR 17 PP	17	40	21	20	1	32	14200	20400	10900	15500	6000
40	NATV 17	NATV 17 PP	17	40	21	20	1	32	21000	39500	14800	26500	2900
47	NATR 20	NATR 20 PP	20	47	25	24	1	37	19500	32000	15500	25500	4900
47	NATV 20	NATV 20 PP	20	47	25	24	1	37	28000	59000	20600	42000	2600
52	NATR 25	NATR 25 PP	25	52	25	24	1	42	21200	38000	15400	26500	3600
52	NATV 25	NATV 25 PP	25	52	25	24	1	42	31000	72000	20500	44000	2100

62	NATR 30	NATR 30 PP	30	62	29	28	1	51	34000	59000	23600	38500	2600
62	NATV 30	NATV 30 PP	30	62	29	28	1	51	48500	108000	30500	63000	1700
72	NATR 35	NATR 35 PP	35	72	29	28	1.1	58	37000	69000	25500	44500	2000
72	NATV 35	NATV 35 PP	35	72	29	28	1.1	58	53000	127000	33000	73000	1400
80	NATR 40	NATR 40 PP	40	80	32	30	1.1	66	49000	94000	33000	59000	1700
80	NATV 40	NATV 40 PP	40	80	32	30	1.1	66	66000	159000	41000	90000	1300
85	NATR 45	NATR 45 PP	45	85	32	30	1.1	72	51000	101000	32500	59000	1500
90	NATR 50	NATR 50 PP	50	90	32	30	1.1	76	52000	108000	32000	59000	1300
90	NATV 50	NATV 50 PP	50	90	32	30	1.1	76	72000	191000	40500	93000	1000

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