



SKF Cylindrical roller bearing caged Double row Series: NN

Product description

High-precision double row cylindrical roller bearings are produced by SKF as standard in the NN design and NNU design. These bearings can accommodate axial displacement of the shaft relative to the housing in both directions, within the bearing. They are separable, i.e. the bearing ring with integral flanges, together with the roller and cage assembly can be separated from the flangeless ring, to facilitate mounting and dismounting. They are available with either a cylindrical or a tapered bore [taper 1:12]. In machine tool applications, cylindrical roller bearings with a tapered bore are preferred, because the taper enables more accurate adjustment of clearance or preload during installation.

NN design

The rollers of NN design cylindrical roller bearings are guided between integral flanges on the inner ring. The outer ring has no flanges. Therefore, the bearing can accommodate axial displacement of the shaft relative to the housing in both directions, within the bearing. NN design bearings can provide a unique balance between load carrying capacity, rigidity and speed and are therefore typically used as the non-tool end bearing in machine tool spindles. NNU design bearings, with a very low cross sectional height, provide a higher degree of stiffness than bearings in the NN 30 series. However, NN 30 series bearings can accommodate heavier loads. Boundary dimensions of NN design bearings are in accordance with ISO Dimension Series 30.

Characteristics

Series: NN

Manufacturer ID	Cage material	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	With sealing	Article
NN 3005 K/SP	Brass	25	47	16	C1	No	24003962
NN 3006/SP	Brass	30	55	19	C1	No	23767662
NN 3007/SP	Brass	35	62	20	C1	No	24003963
NN 3007 K/SP	Brass	35	62	20	C1	No	23767663
NN 3028 K/SPW33	Brass	140	210	53	CN (normal)	No	23767703
NN 3030 K/SPW33	Brass	150	225	56	CN (normal)	No	23767704
NN 3032 K/ SPW33VS019	Brass	160	240	60	C1	No	12121188
NN 3032 K/SPW33	Brass	160	240	60	CN (normal)	No	23767705
NN 3034 K/SPW33	Brass	170	260	67	CN (normal)	No	23767706
NN 3036 K/ SPW33VS019	Brass	180	280	74	C1	No	12121189
NN 3036 K/SPW33	Brass	180	280	74	CN (normal)	No	23767707
NN 3038 K/SPW33	Brass	190	290	75	CN (normal)	No	23767708
NN 3040 K/SPW33	Brass	200	310	82	CN (normal)	No	23767709
NN 3044 K/SPW33	Brass	220	340	90	CN (normal)	No	23767710
NN 3048 K/SPW33	Brass	240	360	92	CN (normal)	No	11613983
NN 3006 KTN/SP	Plastic	30	55	19	C1	No	23767661
NN 3006 KTN/ VQ497	Plastic	30	55	19	C1	No	13200406
NN 3008 TN/SP	Plastic	40	68	21	C1	No	23767665
NN 3008 KTN/SP	Plastic	40	68	21	C1	No	23767664
NN 3009 TN/SP	Plastic	45	75	23	C1	No	23767667
NN 3009 KTN/SP	Plastic	45	75	23	C1	No	23767666
NN 3009 KTN/ VQ497	Plastic	45	75	23	C1	No	13200408
NN 3010 KTN/ SPVR521	Plastic	50	80	23	C1	No	13200409
NN 3010 KTN/ SPW33VR521	Plastic	50	80	23	C1	No	13200410

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Manufacturer ID	Cage material	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	With sealing	Article
NN 3010 KTN/ VQ497	Plastic	50	80	23	C1	No	13200411
NN 3010 KTN/ SPW33	Plastic	50	80	23	C1	No	23767669
NN 3010 KTN/SP	Plastic	50	80	23	C1	No	23767668
NN 3010 KTN/UP	Plastic	50	80	23	C1	No	12176531
NN 3010 TN/SPW33	Plastic	50	80	23	C1	No	23767671
NN 3010 TN/SP	Plastic	50	80	23	C1	No	23767670
NN 3011 TN/SPW33	Plastic	55	90	26	C1	No	24003964
NN 3011 KTN/UP	Plastic	55	90	26	C1	No	12176532
NN 3011 TN/SP	Plastic	55	90	26	C1	No	23767674
NN 3011 KTN/SP	Plastic	55	90	26	C1	No	23767672
NN 3011 KTN/ SPVR522	Plastic	55	90	26	C1	No	13200414
NN 3011 KTN/ SPVR521	Plastic	55	90	26	C1	No	13200413
NN 3011 KTN/ SPW33	Plastic	55	90	26	C1	No	23767673
NN 3012 KTN/UP	Plastic	60	95	26	C1	No	12176534
NN 3012 KTN/ VQ055	Plastic	60	95	26	C1	No	13200417
NN 3012 TN/SPW33	Plastic	60	95	26	C1	No	23767677
NN 3012 KTN/ SPVR521	Plastic	60	95	26	C1	No	13200416
NN 3012 TN/SP	Plastic	60	95	26	C1	No	24003965
NN 3012 KTN/ SPW33	Plastic	60	95	26	C1	No	23767676
NN 3012 KTN/SP	Plastic	60	95	26	C1	No	23767675
NN 3013 TN/SPW33	Plastic	65	100	26	C1	No	24003968
NN 3013 KTN/UP	Plastic	65	100	26	C1	No	12176535
NN 3013 KTN/SP	Plastic	65	100	26	C1	No	23767678
NN 3013 KTN/ SPW33	Plastic	65	100	26	C1	No	24048907
NN 3013 TN/SP	Plastic	65	100	26	C1	No	23767679
NN 3013 KTN/ SPVR521	Plastic	65	100	26	C1	No	13200419
NN 3013 KTN/ VQ497	Plastic	65	100	26	C1	No	13200420
NN 3014 KTN/ VQ554	Plastic	70	110	30	C1	No	13200424
NN 3014 KTN/ W33VQ497	Plastic	70	110	30	C1	No	13200425
NN 3014 KTN/ SPVR521	Plastic	70	110	30	C1	No	13200421
NN 3014 TN/SP	Plastic	70	110	30	C1	No	23767681
NN 3014 KTN/SP	Plastic	70	110	30	C1	No	23767680
NN 3014 KTN/UP	Plastic	70	110	30	C1	No	12176536
NN 3014 KTN/ SPW33	Plastic	70	110	30	C1	No	24003969
NN 3014 TN/SPW33	Plastic	70	110	30	C1	No	24003970
NN 3015 TN/SP	Plastic	75	115	30	C1	No	24003971
NN 3015 KTN/UP	Plastic	75	115	30	C1	No	12176537
NN 3015 TN/SPW33	Plastic	75	115	30	C1	No	23767684
NN 3015 KTN/ SPW33	Plastic	75	115	30	C1	No	23767683
NN 3015 KTN/SP	Plastic	75	115	30	C1	No	23767682
NN 3016 KTN/ UPW33	Plastic	80	125	34	C1	No	12176540
NN 3016 KTN/SP	Plastic	80	125	34	C1	No	23767685
NN 3016 KTN/ SPVR521	Plastic	80	125	34	C1	No	13200432

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Manufacturer ID	Cage material	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	With sealing	Article
NN 3016 KTN/ SPW33VR522	Plastic	80	125	34	C1	No	13200434
NN 3016 KTN/ VQ497	Plastic	80	125	34	C1	No	13200435
NN 3016 KTN/ SPW33	Plastic	80	125	34	C1	No	23767686
NN 3016 KTN/UP	Plastic	80	125	34	C1	No	12176539
NN 3016 TN/SP	Plastic	80	125	34	C1	No	23767687
NN 3016 TN/SPW33	Plastic	80	125	34	C1	No	24003972
NN 3017 KTN9/UP	Plastic	85	130	34	C1	No	23772790
NN 3017 KTN9/ SPW33	Plastic	85	130	34	C1	No	24003973
NN 3017 TN9/ SPW33	Plastic	85	130	34	C1	No	23767689
NN 3017 KTN9/ VQ554	Plastic	85	130	34	C1	No	13200441
NN 3017 KTN9/ SPVR521	Plastic	85	130	34	C1	No	13200438
NN 3017 TN9/SP	Plastic	85	130	34	C1	No	24003974
NN 3017 KTN9/SP	Plastic	85	130	34	C1	No	23767688
NN 3017 TN9/SPC2	Plastic	85	130	34	C2H	No	12176542
NN 3018 KTN9/ SPW33	Plastic	90	140	37	C1	No	23767691
NN 3018 KTN9/SP	Plastic	90	140	37	C1	No	23767690
NN 3018 TN9/ SPW33	Plastic	90	140	37	C1	No	23767692
NN 3018 TN9/SP	Plastic	90	140	37	C1	No	24003975
NN 3018 KTN9/UP	Plastic	90	140	37	C1	No	12176543
NN 3018 KTN9/ VQ554	Plastic	90	140	37	C1	No	13200445
NN 3018 KTN9/ VQ497	Plastic	90	140	37	C1	No	13200444
NN 3018 KTN9/ SPVR522	Plastic	90	140	37	C1	No	13200443
NN 3018 KTN9/ SPVR521	Plastic	90	140	37	C1	No	13200442
NN 3019 KTN9/ SPW33	Plastic	95	145	37	C1	No	24003976
NN 3019 TN9/ SPW33	Plastic	95	145	37	C1	No	12176547
NN 3019 KTN9/SP	Plastic	95	145	37	C1	No	23767693
NN 3019 TN9/SP	Plastic	95	145	37	C1	No	12176546
NN 3020 KTN9/ W33VQ497	Plastic	100	150	37	C1	No	12628822
NN 3020 KTN9/SP	Plastic	100	150	37	C1	No	23767694
NN 3020 KTN9/ SPW33	Plastic	100	150	37	C1	No	24003977
NN 3020 KTN9/ UPW33	Plastic	100	150	37	C1	No	12176548
NN 3020 KTN9/ SPVR522	Plastic	100	150	37	C1	No	13200448
NN 3020 KTN9/ SPVR521	Plastic	100	150	37	C1	No	13200447
NN 3020 KTN9/ VQ497	Plastic	100	150	37	C1	No	13200451
NN 3020 KTN9/ UPVR521	Plastic	100	150	37	C1	No	13200450
NN 3021 KTN9/ SPVR521	Plastic	105	160	41	C1	No	13200452
NN 3021 KTN9/SP	Plastic	105	160	41	C1	No	23767695
NN 3021 KTN9/ SPW33	Plastic	105	160	41	C1	No	24003978
NN 3022 TN9/SP	Plastic	110	170	45	C1	No	12176553
NN 3022 KTN9/ SPW33	Plastic	110	170	45	C1	No	23767698

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Manufacturer ID	Cage material	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	With sealing	Article
NN 3022 TN9/ SPW33	Plastic	110	170	45	C1	No	23767699
NN 3022 KTN9/ SPC2W33	Plastic	110	170	45	C1	No	23767697
NN 3022 KTN9/SP	Plastic	110	170	45	C1	No	24003979
NN 3022 KTN9/ SPVR521	Plastic	110	170	45	C1	No	13200453
NN 3022 KTN9/ SPVR522	Plastic	110	170	45	C1	No	13200454
NN 3022 KTN9/ VQ497	Plastic	110	170	45	C1	No	13200455
NN 3024 KTN9/SP	Plastic	120	180	46	C1	No	23767700
NN 3024 KTN9/ VQ497	Plastic	120	180	46	C1	No	13200458
NN 3024 KTN9/ SPVR522	Plastic	120	180	46	C1	No	13200457
NN 3024 KTN9/ SPVR521	Plastic	120	180	46	C1	No	13200456
NN 3024 KTN9/ SPW33	Plastic	120	180	46	C1	No	23767701
NN 3026 KTN9/ VQ497	Plastic	130	200	52	C1	No	13200460
NN 3026 KTN9/ SPVR521	Plastic	130	200	52	C1	No	13200459
NN 3026 KTN9/ SPW33	Plastic	130	200	52	C1	No	23767702
NN 3026 KTN9/SP	Plastic	130	200	52	C1	No	24003980

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