

**STANDARD NEEDLE ROLLER BEARINGS CATALOG:RADIAL K & AXK THRUST CAGE ASSEMBLIES SERIES; NEEDLE BEARING WITH MACHINED RINGS NA,(RNA) SERIES: NA49/8, NA5901 DRAWN CUP SERIES.**



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**NEEDLE BEARING SERIES: DRAWN CUP, MACHINED RINGS RNA6900, RNA5901, NA4902, NA4830! NEEDLE ROLLER & CAGE ASSEMBLIES: AXK7095, AXK1427, K6X10X15, K8X12X20.**



basic needle bearings includes three major categories: K, AXK series needle roller and cage assemblies. NA,(RNA)needle roller bearing with machined rings. HK, BKdrawn cup needle roller



bearings,

needle roller bearings are a type of roller bearing that uses long, thin cylindrical rollers instead of spherical or tapered rollers. The rollers have a high length to diameter ratio, which allows them to carry high radial loads while maintaining a small profile.



needle rollers are held in place by a cage or retainer, which maintains a uniform spacing between the rollers and prevents them from contacting each



other. the cage is typically made of steel, plastic, or brass. needle roller bearings are commonly used in applications where high radial load capacity is required, but the available space is limited. they are used in a wide range of applications.

**BASIC CODE FOR NEEDLE ROLLER BEARINGS**

**NEEDLE ROLLER BEARINGS SERIES**

type code	bearing type<	feature sizes	examples
K	radial needle roller and cage assemblies without inner ring & outer ring	KFXEXB	K10X14X10
AXK	thrust needle roller and cage assemblies	dD	AXK0821
NA, (RNA)	needle roller bearing with machined rings, with flanges, (without inner ring.)	48, 49, 59, 69, d	NA4822, NA4900, NA5900, NA6900
HK	drawn cup needle roller bearings, without inner ring, open ends,	FC	HK3020
BK	drawn cup needle roller bearings, without inner ring,closed ends,	FC	BK1212
needle bearings NA(RNA) series, needle cage assemblies K (AXK), needle bearings HK(BK).			

**NEEDLE ROLLER BEARINGS K SERIES:RADIAL NEEDLE ROLLER AND CAGE ASSEMBLIES**

K4X7X6 K4X7X8 K4X7X10 K5X8X6 K5X8X8 K5X8X10 K5X8X13 K5X9X8 K5X9X10 K5X9X13 K6X9X6 K6X9X8 K6X9X10 K6X9X13 K6X9X15 K6X10X8 K6X10X10 K6X10X13 K6X10X15 K6X11X10 K6X11X13 K6X11X15 K7X10X6 K7X10X8 K7X10X10 K7X10X13 K7X10X15 K7X10X17 K7X11X8 K7X11X10 K7X11X13 K7X11X15 K7X11X17 K8X11X6 K7X12X10 K7X12X13 K7X12X15 K7X12X17 K8X11X8 K8X11X10 K8X11X13 K8X11X15 K8X11X17 K8X12X8 K8X12X10 K8X12X13 K8X12X15 K8X12X17 K8X12X20 K8X13X10 K8X13X13 K8X13X15 K8X13X17 K8X13X20 K9X12X6 K9X12X8 K9X12X10 K9X12X13 K9X12X15 K9X12X17 K9X13X8 K9X13X10 K9X13X13 K9X13X15 K9X13X17 K9X13X20 K9X14X10 K9X14X13 K9X14X15 K9X14X17 K9X14X20 K9X15X12

needle roller bearings is their ability to handle high radial loads in a compact design. needle roller bearings are also able to operate at high speeds, which makes them suitable for use in applications that

- home
- products
- contact
- equipments
- needle roller bearing
- needle roller & cage assemblies K
- axial needle roller & cage assemblies AXK
- needle bearings NA RNA
- drawn cup needle roller bearings HK, BK
- full complement needle bearings NAV, RNAV
- needle & thrust cylindrical roller bearings NKXR
- needle& thrust ball combined bearing NX NKX
- needle & angular contact ball bearing NKIA NKIB
- needle with double direction, thrust cylindrical roller bearings ZARN, ZARF
- track rollers NATR, NATV,KR,KRV
- double row full complement cylindrical roller bearing track rollers NUTR, NUKR
- cylindrical roller bearings
- tapered roller bearings
- slewing bearings

require high rotational speeds. additionally, they are relatively easy to install and maintain, which makes them a popular choice in many industries.

### **NEEDLE ROLLER BEARINGS AXK SERIES:THRUST NEEDLE ROLLER AND CAGE ASSEMBLIES**

AXK0619, AXK0720, AXK0821, AXK0922, AXK1024, AXK1226, AXK1427, AXK1528, AXK1629, AXK1730, AXK1831, AXK2035, AXK2237, AXK2542, AXK2845, AXK3047, AXK3249, AXK3552, AXK7095, AXK75100, AXK80105, AXK85110, AXK90120, AXK100135, AXK110145, AXK120155, AXK130170, AXK140180, AXK150190, AXK160200

### **NEEDLE ROLLER BEARINGS MACHINED RINGS SERIES:NA,(RNA)**

NA49/8 RNA49/8 NA49/9 RNA49/9 NA4900 RNA4900 NA4901 RNA4901 NA4902 RNA4902 NA4903 RNA4903 NA4904 RNA4904. NA49/22 RNA49/22 NA4905 RNA4905 NA49/28 RNA49/28 NA4906 RNA4906 NA49/32 RNA49/32 NA4907 RNA4907 NA4908 RNA4908 NA4909 RNA4909 NA4910 RNA4910 NA4911 RNA4911 NA4912 RNA4912 NA4913 RNA4913 NA4914 RNA4914 NA4915 RNA4915 NA4916 RNA4916 NA4917 RNA4917 NA4918 RNA4918 NA4919 RNA4919 NA4920 RNA4920 NA4922 RNA4922 NA4924 RNA4924 NA4926 RNA4926 NA4928 RNA4928 NA4930 RNA4930 NA4932 RNA4932 NA4934 RNA4934 NA4938 RNA4938 NA4940 RNA4940 NA4944 RNA4944 NA4948 RNA4948 NA4952 RNA4952 NA4956 RNA4956 NA4960 RNA4960 NA4964 RNA4964 NA4968 RNA4968 NA4972 RNA4972 NA4976 RNA4976 NA4980 RNA4980 NA4984 RNA4984 NA4988 RNA4988

### **NEEDLE ROLLER BEARINGS DRAWN CUP SERIES:HK,BK,F-, FH-, FY-, FYH-**

HK0408 BK0408 ... .. HK0508 BK0508 ... .. HK0608 BK0608 F-0608 MF-0608 HK0708 BK0708 F-0708 MF-0708 HK0808 BK0808 F-0808 MF-0808 HK0908 BK0908 F-0908 MF-0908 HK1008 BK1008 F-1008 MF-1008 HK1208 BK1208 F-1208 MF-1208 HK1412 BK1412 F-1412 MF-1412 HK1512 BK1512 F-1512 MF-1512 HK1612 BK1612 F-1612 MF-1612 HK1712 BK1712 F-1712 MF-1712 HK1812 BK1812 F-1812 MF-1812 HK2012 BK2012 F-2012 MF-2012

### **FULL COMPLEMENT NEEDLE ROLLER BEARINGS SERIES:NAV, RNAV**

NAV4902 RNAV4902 NAV4903 RNAV4903 NAV4904 RNAV4904 NAV4905 RNAV4905 NAV4906 RNAV4906 NAV4907 RNAV4907 NAV4908 RNAV4908 NAV4909 RNAV4909 NAV4910 RNAV4910 NAV4912 RNAV4912 NAV4914 RNAV4914 NAV4916 RNAV4916 NAV4918 RNAV4918 NAV4919 RNAV4919 NAV4920 RNAV4920 NAV4922 RNAV4922 NAV1926 RNAV4926 NAV4928 RNAV4928

### **COMBINED NEEDLE ROLLER BEARINGS NX, NKX SERIES**

NKX10 NKX10 Z NKX12 NKX12 Z NKX15 NKX15 Z NKX17 NKX17 Z NKX20 NKX20 Z NKX25 NKX25Z NKX30 NKX30Z NKX35 NKX35Z NKX40 NKX40Z NKX45 NKX45Z NKX50 NKX50Z NKX60 NKX60Z NKX70 NKX70Z

combined bearings are commonly used in applications where high load capacity, high stiffness, and high accuracy are required, such as in machine tools, robotics, and automotive systems. They may also be used in applications that require compact designs, such as in printing presses and textile machinery.

### **NEEDLE ROLLER BEARINGS, NATR, NATV SUPPORT ROLLERS SERIES**

NATR1032 NATV1032 NATR1237 NATV1237 NATR1542 NATV1542 NATR1747 NATV1747 NATR2058 NATV2058 NATR2572 NATV2572 NATR3085 NATV3085 NATR35100 NATV35100 NATR40110 NATV40110 NATR45125 NATV45125 NATR50140 NATV50140 NATR60160 NATV60160 NATR70190 NATV70190 NATR80210 NATV80210 NATR90240 NATV90240

cam followers are commonly used in applications that require smooth and precise motion along a track, such as in conveyors, printing presses, and packaging machinery. They are available in a variety of designs, including bolt stud track rollers and yoke cam followers, to suit different types of applications.