

# WHAT'S CYLINDRICAL ROLLER BEARINGS ? WHERE'S ROLLING

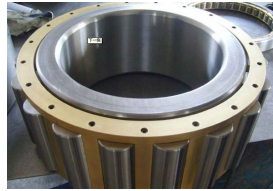


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## **YDTECH® MANUFACTURER OF PRECISION CYLINDRICAL ROLLER BEARINGS (AXIAL OR RADIAL); SUPPLIER OF LOOSE ROLLER BEARINGS (ONE, TWO, FOUR)ROW CYLINDER IN CHINA.**



cylindrical roller bearings are a type of rolling element bearing that use cylinders or rollers with a slightly modified shape to reduce friction between rotating and stationary components. unlike needle roller bearings, which have long, thin cylindrical rollers, cylindrical roller bearings have short, thick cylinders



that are slightly crowned or tapered to reduce stress concentrations.

cylindrical roller bearings are a reliable and versatile type of bearing that can handle a wide range of loads and speeds. cylindrical roller bearings mostly consist of the cage, the rollers and guided by two capped edges on a ring. it is a separable bearing, convenient for it's assembly and disassembly especially it has the advantages in a condition that the interference is required and assorted with inner ring, outer ring and housing.



cylindrical roller bearings have high radial load capacity and are suited for high-speed applications. with a patented high strength cage design in pressed steel our cylindrical roller bearings are comprised of machined brass or polyamide and offer low noise,low



heat generation and, for more arduous applications, can be supplied in a range of advanced special materials.

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### types of cylindrical roller bearings

### catalogues of cylindrical roller bearings(NJ,NU,NUP,N,RN,RNU,NF,NH,NCF,NN,NUU)

NU(NUU)	NU1000, NU200, NU2200, NU300, NU2300, NU400	cylindrical roller bearing (double row) has double capped edges on outer ring and without capped edge on inner ring.
NJ	NJ200, NJ2200, NJ300, NJ2300, NJ400	cylindrical roller bearing has double capped edge on outer ring and single capped edge on inner ring.
NUP	NUP200, NUP2200, NUP300, NUP2300	cylindrical roller bearing with double capped edges on the outer ring & with capped edge on one side of the inner ring, as well as with inner ring loose rib on the other side of the inner ring.
N(NN)	N1000, N200, N2200, N300, N2300, N400	cylindrical roller bearing (double row) with outer ring without capped edge on inner ring.
NF	NF200, NF300, NF2300	cylindrical roller bearing with the single capped edge on outer ring & double capped edges on inner ring.
NH	NH200, NH300, NH400, NH2200, NH2300	cylindrical roller bearing with the single capped edge on inner ring with oblique angle ring.
RNU	RNU1000, RNU200, RNU300	cylindrical roller bearing has an outer ring with double capped edges but does not come with inner ring.
RN	RN200, RN300	cylindrical roller bearing has an inner ring with double capped edge but does not come with outer ring.
E		cylindrical roller bearing are same as the dimensions of the ordinary type. But the load carrying capacity is increased accordingly due to the increasing of the diameter of rollers, the length and the number of rollers.

types of cylindrical roller bearings (NJ,NU,NUP,N,RN,RNU,NF,NH,NCF,NN,NUU)

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the bearing of this type can normally take the radial load, on the other hand, single row cylindrical roller bearing with ribbed inner ring and ribbed outer ring can take smaller axial load or intermittent axial load, this kind of bearing has a larger carrying capacity of axial load compare with the deep-grooves ball bearing. the structure of the bearing showing that it runs very well under high rotational speed.

**double row cylindrical roller bearings**

double row cylindrical roller bearings: these bearings have two rows of rollers, and are capable of handling heavier radial loads than single row bearings.

**types of precision double row cylindrical roller bearing**

double row cylindrical roller bearings, roller bearings, rolling element bearings

types	principal dimension			basic load ratings		speed ratings		NW
	d <sub>mm</sub>	D <sub>mm</sub>	B <sub>mm</sub>	dynamic <sub>kN</sub>	static <sub>kN</sub>	grease <sub>rpm</sub>	oil <sub>rpm</sub>	kg
NN3052K	260	400	104	969	1810	950	1300	47.1
NN3052	260	400	104	969	1810	950	1300	48.5
NN3056K	280	420	106	1020	1950	850	1100	49.1
NN3056	280	420	106	1020	1950	850	1100	49.87
NN3060	300	460	118	1180	2250	800	1000	71.7
NN3060/Y1	300	460	118	1180	2250	800	1000	71.2
NN3060K	300	460	118	1180	2250	800	1000	69.6
NN3064K	320	480	121	1250	2450	750	950	75
NN3068K	340	520	133	1560	3020	700	900	101
NN3068	340	520	133	1560	3020	700	900	104
NN3072K	360	540	134	1630	3240	670	850	106
NN3076K	380	560	135	1590	3240	630	800	110
NN3076	380	560	135	1590	3240	6300	800	114
NN3176V	380	620	194	2700	5800	500	700	221
NN3980K	400	540	108	1240	2400	780	980	71.3
NN3080K	400	600	148	1980	3660	700	880	143
NN3080	400	600	148	1980	3660	700	880	147
NN3092K	460	680	168	2470	5070	450	560	204
NN39/560	560	750	140	2370	4860	470	590	188
NN6/560	560	780	180	2400	6400	450	560	266
NN30/560K	560	820	195	2460	6560	340	430	341
NN30/670	670	980	280	4620	9360	200	300	597
NNU2960E/W20	300	400	175	1650	4030	850	1100	55.70

double row cylindrical roller bearings, roller bearings, rolling element bearings, bearings for cylindrical rolls

**single row full cylindrical roller bearings**

single row cylindrical roller bearings: these bearings have a single row of rollers, and are capable of handling light to medium radial loads. the bearing of this type can normally take the radial load, on the other hand, single row cylindrical roller bearing with ribbed inner ring and ribbed outer ring can take smaller axial load or intermittent axial load, this kind of bearing has a larger carrying capacity of axial load compare with the deep-grooves ball bearing. the structure of the bearing showing that it runs very well under high rotational speed.

single row cylindrical roller bearings, roller bearing with single row cylinders,

30232	32232	32036X	32036	32236	32938	32938X	30240	32240
32944	32944X	30244	32244	32948	32948X	32248	32952	32052X
30352X2	32956	32056X	32960	32060X	30660	31160X2	32964	32064/YB2
32968/YB2	32068X2	32972/YB2	31072X2	31976X2	31176X2	31080X2	31984X2	31084X2
31184X2	31088X2	31992X2	31092X2	31996X2	310/500X2	319/530X2	319/560X2	310/560X2
310/600X2	310/630X2	319/710X2	319/800X2	319/900X2	320/900X2	319/950X2		

roller bearing single row cylinders, single row cylindrical roller bearings

**NU (non locating unit) cylindrical roller bearings**

NU (non locating unit) cylindrical roller bearings are a type of cylindrical roller bearing that has a separate inner ring and outer ring, and can therefore be assembled separately. this feature allows the NU cylindrical

roller bearings to accommodate axial displacement between the shaft and housing, without affecting the radial load-carrying capacity of the bearing.

### NJ cylindrical roller bearings

the separable inner and outer rings of NJ cylindrical roller bearings make them easy to install and remove. the cylindrical roller set is made up of cylindrical rollers that are guided by the inner and outer rings. the rollers are arranged in a linear configuration, allowing them to withstand heavy radial loads.

### NUP cylindrical roller bearings

NUP cylindrical roller bearings are a type of roller bearing that has an inner ring with two fixed ribs, an outer ring with one fixed rib, and a cylindrical roller set. the NUP stands for "fixed single ribbed outer ring with one loose ribbed inner ring and cylindrical roller set."

### NN double row cylindrical roller bearings

NN double row cylindrical roller bearings are a type of rolling element bearing designed to support high radial loads. They are characterized by having two rows of cylindrical rollers that are arranged in a specific way to improve their load carrying capacity.

### NN cylindrical roller bearings

NN cylindrical roller bearings are a type of roller bearing that has two inner rings with no outer ring and two rows of cylindrical rollers. The NN stands for "double row, separate outer ring with two ribs on the inner ring."

### NF cylindrical roller bearings

NF cylindrical roller bearings are a type of roller bearing that has an outer ring with one fixed rib and one loose rib, an inner ring with two fixed ribs, and a cylindrical roller set. the NF stands for "one fixed outer ring, two fixed inner rings, and cylindrical roller set."

### RNU cylindrical roller bearings

RNU cylindrical roller bearings are a type of cylindrical roller bearing that have a non-ribbed outer ring and a single ribbed inner ring. The RNU stands for "non-ribbed outer ring and a single ribbed inner ring."

### RN cylindrical roller bearings

RN cylindrical roller bearings are a type of cylindrical roller bearing that have a non-ribbed inner ring and two ribbed outer rings. The RN stands for "non-ribbed inner ring and two ribbed outer rings."

### E cylindrical roller bearings

E cylindrical roller bearings are a type of cylindrical roller bearing that have optimized internal geometry and a larger number of rollers than standard cylindrical roller bearings. The E designation indicates that the bearing has been designed to enhance its performance and reliability.

### sizes of cylindrical roller bearings

## roller bearings, cylindrical roller bearings, rolling element bearings

new models	old models	sizes(d×D×T)	weight(kg)
RNU1015M	292115H	75×101×20	0.596
RNU1017	292117	96.5×130×22	0.85
NJ204ETN1	42204EA	20×47×14	0.111
N205ETN1	2205EA	25×52×15	0.13
NCL205	102205	25×52×15	0.256
NJ205E	42205EA	25×52×15	0.148
NJ205ETN1/P6S0		25×52×15	0.135
N206	2206	30×62×16	0.219
N206ETN1	2206EA	30×62×16	0.199
NU206	32206	30×62×16	0.199
NU306/C3	3G32206	30×62×16	0.199
NJ206EX2-RSTN1		30×62×18.5	0.238
NU206ETN1	32206EA	30×62×16	0.201
NJ206	42206	30×62×16	0.204
NJ206E	42206E	30×62×16	0.214
roller bearings, cylindrical roller bearings, rolling element bearings, bearings for cylindrical rolls			

J206E5N1	42206EA	30×62×16	0.207
NJ206ETN1/P6S0		30×62×16	0.2072
N207	2207	35×72×17	0.341
N207ETN1	2207EA	35×72×17	0.295
NU207	32207	35×72×17	0.286
NU207E	32207E	35×72×17	0.297
NU207ETN1	32207EA	35×72×17	0.296
NJ207	42207	35×72×17	0.31
NJ207E	42207E	35×72×17	0.321
NJ207ETN1	42207EA	35×72×17	0.303
NJ207/C3	3G42207	35×72×17	0.31
N208	2208	40×80×18	0.439
NU208E	32208E	40×80×18	0.381
NJ208E	42208E	40×80×18	0.392
N209	2209	45×85×19	0.493
NU209	32209	45×85×19	0.523
NJ209	42209	45×85×19	0.5
NJ209ETN1	42209EA	45×85×19	0.432
N210	2210	50×90×20	0.489
N210ETN1	2210EA	50×90×20	0.477
NF210EM	12210EH	50×90×20	0.563
NUP210TNIN	192210EA	50×90×20	0.501
N211	2211	55×100×21	0.626
N211E	2211E	55×100×21	0.7
NF211	12211	55×100×21	0.65
NF211E	12211E	55×100×21	0.755
NU211	32211	55×100×21	0.69
NU211E	32211E	55×100×21	0.681
NJ211	42211	55×100×21	0.652
..	..	..	..
..	..	..	..
NJ2324	42624	120×260×86	20.512
NJ2324EM	42624EH	120×260×86	23.6
NJ2326	42626	130×260×93	23.2
NJ2328	42628	140×300×102	37.5
NJ2326EM	42628EH	140×300×102	37.5
	502706KH	30×44×28	0.336
	502706H	30×44×26	0.331
	502707KH	35×68×28	0.452
	42708K	40×90×23	0.7
N612	2712K	60×140×51	3.604
N612/C9	2712U	60×140×51	3.604
NJG2311V		55×120×43	2.34
NCF2209V		45×85×23	0.607
	544741B	45×85×23	0.16
roller bearings, cylindrical roller bearings, rolling element bearings, bearings for cylindrical rolls			

single row cylindrical roller bearings four row cylindrical roller bearings spherical bearings combined bearings needle roller bearings cylindrical roller bearings tapered roller bearings slewing bearings copyright©2014~2023 YD Tech®