

ZVL-ZKL double row cylindrical roller bearings have two rows of cylindrical rollers guided by three flanges on the inner ring. This allows for a mutual displacement of the bearing rings in both directions and eliminates the possibility of carrying axial loads. Double row cylindrical roller bearings provide great rigidity and are used mostly in machine tool spindles and other precision bearing applications. Rather than using longer rollers, two rows of shorter rollers are used which reduces the possibility of roller skewing and increases the bearing load carrying capacity. The double row cylindrical roller bearings are manufactured with a tapered bore (taper 1:12 ratio); bearings with a cylindrical bore can be made to order.

Double Row Cylindrical Roller Bearings

Suffix	Description	Example of Designation
K	Tapered bearing bore at a 1:12 ratio	NN3009K
W33	Lubrication groove and holes in the outer ring	NN3040KW33
M	Machined bronze cage guided on the rolling elements	NN3068KM C3
MB	Machined bronze cage guided on the inner ring	NN3944KMB
P6	Higher tolerance class than standard	NNU49/630K P6
P5	Higher tolerance class than P6	NN3040K P5
P4	Higher tolerance class than P5	NN3026K P4
C1	Radial clearance less than C2	NN3012K C1
C2	Radial clearance less than normal	NN3020K C2
C3	Radial clearance greater than normal	NN3068KM C3
C4	Radial clearance greater than C3	NN3072K C4
C5	Radial clearance greater than C4	NN3056K C5