

ZVL-ZKL double row spherical roller bearings have two rows of barrel shaped rollers with a common spherical raceway in the outer ring. By virtue of their design, spherical roller bearings are self-aligning. Under load, asymmetrical spherical rollers rest against the face of an integral center guide flange on the bearing inner ring.

Most suitable for applications where some misalignment is unavoidable, these bearings can carry heavy radial and combined axial loads in both directions. Double row spherical roller bearings are available with either cylindrical or tapered bores to suit your application requirements.

ZVL-ZKL has started adding the C or E design spherical roller bearings to our production schedule. This design change eliminates the guide flanges on the bearing inner ring and uses longer rollers. This change increases the basic load carrying capacity of the bearing by an average of 18% and increases the limiting rotational speed by an average of 28% when compared to bearings of the standard design.

Double Row Spherical Roller Bearings		
Suffix	Description	Example of Designation
K	Tapered bearing bore at a 1:12 ratio	22214KJ
W33	Lubrication groove and holes in the outer ring	22223W33M
J	Pressed steel cage guided on the rolling elements	22310J
M	Machined bronze cage guided on the rolling elements	23156M
C2	Radial clearance less than normal	23032M C2
C3	Radial clearance greater than normal	22222J C3
C4	Radial clearance greater than C3	23164M C4
C5	Radial clearance greater than C4	22334M C5
S0	Heat stabilized for an operating temperature up to 302°F (150°C)	22320M C3S0
S1	Heat stabilized for an operating temperature up to 392°F (200°C)	23048M C4S1
S2	Heat stabilized for an operating temperature up to 482°F (250°C)	22219J S2
S3	Heat stabilized for an operating temperature up to 572°F (300°C)	23224KM C3S3
S4	Heat stabilized for an operating temperature up to 662°F (350°C)	23032M C2S4
S5	Heat stabilized for an operating temperature up to 752°F (400°C)	23226M S5

