



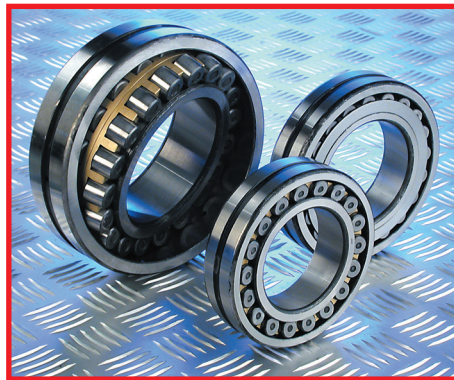
Spherical Roller Bearings



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SPHERICAL ROLLER BEARINGS

MTK+ is offering a complete range of spherical roller bearings in different designs and cages.

MTK+ can offer spherical roller bearings starting from 25 mm bore up to 1800 mm bore.

SPHERICAL ROLLER BEARINGS

Spherical roller bearings are designed for heavy duty applications. They can carry radial and axial loads in both directions.

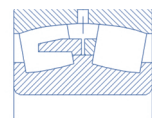
The capability of carrying heavy radial loads makes the spherical roller bearing suitable for heavy load and shock absorbing.

They contain of two rows of symmetrical or asymmetrical barrel shaped rollers, which can align themselves in the spherical outer ring raceway. They are self-aligning so they can compensate deflections and misalignments of the shaft in relation to the housing.

AVAILABLE SERIES

213 - 222 - 223 - 230 - 231 - 232 - 239 - 240 - 241

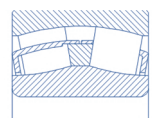
AVAILABLE VERSIONS



MB : 2 piece Machined Brass cage with asymmetrical rollers guided on the inner ring



CA : 1 piece brass cage with symmetrical rollers and a floating guided centre rib and side shoulders



C : Pressed Metal cage with asymmetrical rollers and a floating centre rib

MAC4F80 : Machined Brass cage guided on the outer ring. Special design for bearings for vibrating applications

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RADIAL CLEARANCE

MTK+ spherical roller bearings are generally manufactured with normal radial clearance.

At request, they can be manufactured with clearances larger than normal (C3, C4, C5) or smaller than normal (C2).

HEAT TREATMENT

Spherical roller bearings with an outside diameter $D > 240$ mm of all series can be used up to an operating temperature of $+200^{\circ}\text{C}$. Small sized bearings operate normally at temperatures up to $+120^{\circ}\text{C}$. When needed, **MTK+** can offer you following special suffixes : S1, S2, S3, S4.

Following Table shows the applicable maximum temperature for those suffixes.

■ S1 : 200°C ■ S2 : 250°C ■ S3 : 300°C ■ S4 : 350°C

Naturally for those S suffixed bearings C4 and C5 radial clearance are strongly recommended.

DIMENSIONS

The main dimensions of spherical roller bearings are in accordance with ISO 15.

SPHERICAL ROLLER THRUST BEARINGS

Spherical roller thrust bearings can accommodate heavy axial loads. The loads are transmitted from one raceway to the other under an angle of 45° . Due to this reason, they can also accommodate relatively high radial loads up to a maximum of 55% of the thrust load.

Spherical roller thrust bearings have asymmetrical barrel shaped rollers and they can absorb misalignment. These bearings are dismountable so that the inner ring, together with cage and rollers, can be separately mounted.

AVAILABLE SERIES

292 - 293 - 294

AVAILABLE VERSIONS

No suffix : steel cage

E : steel cage with increased load ratings

M : brass cage

EM : brass cage with increased load ratings

The Lubrication of these bearings should be with oil. The dimensions are according ISO 104 and DIN 728.

More technical info on **MTK+** spherical roller bearings is available in our **catalogue** or via www.mtk-bearings.com