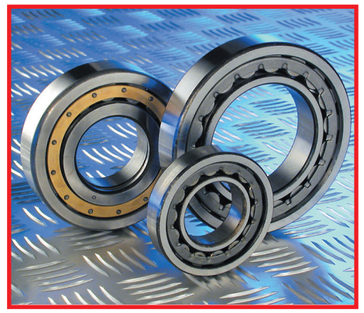
Industriepark Guldendelle
Joseph Chantraineplantsoen, 5
3070 KORTENBERG - BELGIUM
TEL : +32-2-758 00 70 - FAX : +32-2-758 00 75
E-MAIL : info@mtk-bearings.com
www.mtk-bearings.com

MTK+
BEARINGS

Cylindrical Roller Bearings

Motion, Technology & Knowledge

MOTION, TECHNOLOGY & KNOWLEDGE



CYLINDRICAL ROLLER BEARINGS

Single-row cylindrical roller bearings are manufactured by MTK+ in various constructive versions, depending on the position of the ribs on the rings.

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

MTK+ manufactures cylindrical roller bearings in many different designs and sizes, mainly single-row cylindrical roller bearings with cage, but also two or four-row cylindrical roller bearings, with cages or roller by roller, as shown in the design below.

Cylindrical roller bearings with cage can carry heavy radial loads and can operate at high speeds. They consist of cylindrical rollers guided by the fixed ribs of either inner or outer ring.

In the case of bearings with cages, the ring with ribs and the rollers retained in a cage can be drawn out from the other ring, which means that these bearings are dismountable.

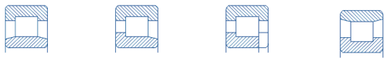
The 4 basic designs are : NU, NJ, NUP and N.

NU - Bearings of NU design have two fixes ribs on the outer ring and a smooth inner ring.
- An axial displacement, in certain limits, of the shaft in relation with the housing can be accommodated in both directions.

NJ - Bearings of NJ have two fixed ribs on the outer ring and one fixed rib on the inner ring.
- An Axial displacement, in certain limits, of the shaft in relation with the housing can be accommodated in one direction.

NUP - Bearings of NUP design have two fixed ribs on the outer ring, on the inner ring a fixed rib and a support washer.
- These bearings can be used as locating bearings, guiding the shaft axially in both directions.

N - Bearings of N design have two fixed ribs on the inner ring and a smooth outer Ring.
- An axial displacement, in certain limits, of the shaft in relation with the housing can be accommodated in both directions.



NU NJ NUP N

AVAILABLE SERIES

200 - 300 - 400 - 1000 - 2200 - 2300

AVAILABLE VERSIONS

NO SUFFIX : steel cage

E & ES : steel cage with increased loading capacity

M : brass cage guided on the rollers

EM : brass cage guided on the rollers with increased loading capacity

MA : brass cage guided on the outer ring

EMA : brass cage guided on the outer ring with increased loading capacity

DOUBLE & FOUR-ROW CYLINDRICAL ROLLER BEARINGS

The double- and four-row cylindrical roller bearings have small sections, high load carrying capacity and stiffness. They are mainly used in machine tool spindles and rolling mills.

AVAILABLE SERIES

NN 3000 (ribs on inner ring) - NNU 4900 (ribs on outer ring)

NN30 NN30 K NNU49 NNU49 K

AVAILABLE VERSIONS

MP51 : brass cage, tolerance class P5 and radial clearance C1
KMP51 : as mentioned above but with tapered bore

FULL COMPLEMENT CYLINDRICAL ROLLER BEARINGS

These bearings incorporate the maximum number of rollers and have a small section in relation to their width. This provides a high load carrying capacity and allows space saving designs to be achieved.

Cylindrical roller bearings without cage cannot be used at speeds as high as those with cages. These bearings are manufactured with single or more row rollers and suffix V is added to the bearing designation.

AVAILABLE SERIES

The most utilized bearings are those of series SL04 50.., SL18 18.., SL01 49... and NJ 23 VH

SL NJ VH

DIMENSIONS

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

More info about the MTK+ cylindrical roller bearings can be found in our **catalogue** or on **www.mtk-bearings.com**

MTK+ Manufactured According ISO & DIN Standards