

CYLINDRICAL AND CONTROLLED CONTOUR ROLLERS

There are many applications for cylindrical rollers; some have been detailed below. The rollers are available within a diameter range of 1mm to 50mm and are made of steel (see appendix for material specifications). Within this diameter range there are two types of rollers as listed below.

Standard Cylindrical and Controlled Contour Rollers

These rollers have a length which is 1 to 3 times their diameter and come in a diameter range of 2.5mm to 50mm. Uses for these rollers include:

- Bearings of all types
- Epicyclic gear reduction units
- Pinions for starter motors
- Idler wheels
- Hydraulic motors
- Rotating elements in general
- Crossed-roller fifth wheels
- Crossed-roller linear guides
- Roller re-circulation runners
- Perforating bits for oil and mineral prospecting

Cylindrical and Controlled Contour Needle Rollers

These rollers have a length which is more than three times their diameter and come in a diameter range of 1mm to 7mm. Uses for these rollers include:

- Full filling bearings
- Needle roller cages
- Universal joint spiders
- Epicyclic gear reduction units
- Cages for linear guides
- Rotating elements in general

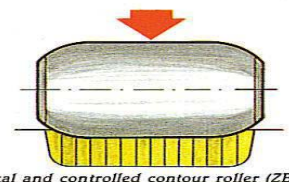
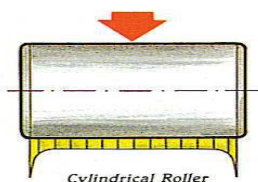


Special Products

In addition to the above two types of rollers we also offer a series of related specialty products for the following uses:

- Rollers for automotive fuel pump actuators
- Rollers for hydraulic actuators
- Pawls and other special high precision articles, cylindrical, treated, ground and lapped
- Coupling axes for motorcycle crankshafts
- Small shafts for electric micro motors (for hair dryers, mixers, coffee grinders, etc.)

Controlled Contour?



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