

**SPECIALTY PRODUCTS**

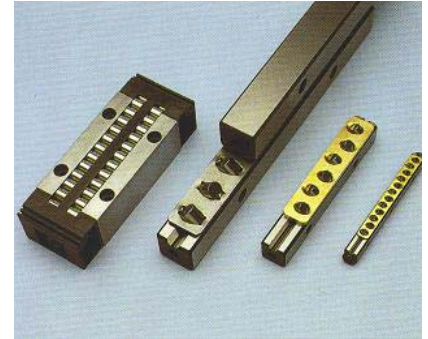
**Rollers for Crossed Roller Linear Guides**

Special production items include extremely high quality rollers, used in crossed-roller linear guides, characterised by a length slightly less than the diameter and by the main technical characteristics given below:

- diameter superfinish with a roughness less than Ra 0.04µ
- diameter selection in groups of 1µ
- orthogonality error Max 4µ
- planarity error Max 3µ
- circularity error Max 0.5µ

*Typical sizes produced are:*

3 x 2.8, 6 x 5.8, 9 x 8.8, 12 x 11.8



**Rollers for Fifth Wheels**

The rollers used in fifth wheels are also characterized by a length which is less than the diameter and whose technical characteristics are specified by clients.

*Typical sizes produced are:*

10 x 9.5, 15 x 14.5, 20 x 19.5, 25 x 24.5, 30 x 29.5, 35 x 34.5, 45 x 44.4, 50 x 49.4



**Rollers for Automotive and Hydraulic Fuel Actuators**

To remain in the range of high quality and specialty products, rollers for the automotive and hydraulic fuel actuators have the following characteristics:

- connection between plane and diameter ranging from 0.05 e 0.1mm
- orthogonality error Max 4µ
- planarity error Max 3µ

*Typical sizes produced are:*

5 x 4, 5 x 5, 5 x 6, 5.5 x 6, 16 x 14.26, 16 x 17.64, 16 x 23.36, 16 x 28.05, 16 x 35.04, 16 x 43.75, 16 x 55.03, 16 x 69.75

**Rollers for Electric Micromotors**

Production of special items includes small shafts for electric micromotors which are cylindrical, with flat ends and radii well connected with the diameter so as to allow a perfect insertion into the rotor, hardened to HRC 60/65 and precision-ground to the diameter tolerances required by the client. A parallel knurled edge, up to 72mm, with an average width of 5mm, 3 or 4mm from the end is available.

*Most Common Sizes*

Diameter (mm)	Length (mm)								
	50	53	55	58	60	62	65	67	70
4	X	X	X	X	X	X	X	X	X
Diameter (mm)	Length (mm)								
	72	73.5	75	78	80	82	85	90	95
4	X	X	X	X	X	X	X	X	X
5								X	X

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