

Wire Guides and Straightening Rollers - type A or AT

The straightening, consisting of putting the material back into its original shape. The operation is carried out by the first straightening rollers to remove the residual constraint in the material, due to the winding on the bobbin. This operation is performed by the rollers located in the central part of the straightener. The forming of the wire carried out by the last rollers on the straightener, generally placed at an angle of 90° compared to the angle of the first rollers. Often it is necessary to combine these three steps. That is the reason why the straightener uses 5, 7, 9, 11 or even 13 rollers placed in two planes.

The manufacturing precision of the roller has a major influence on the quality of the final product (wires) as well as on the service life of the rollers. It is therefore essential that the rectified "V" notch on the outer ring has the same geometric characteristics and precision as the rest of the bearing.

Grinding this notch on an assembled standard bearing is risky, as the bearing may be damaged. An acceptable uniformity and geometrical precision can thus not be guaranteed. The service life of the roller is much shorter and the quality of wire drawing suffers accordingly.

Among numerous applications using thread guides and straightening rollers,

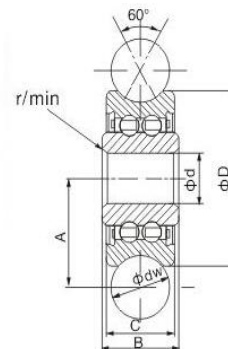
Field of Application:

The straightening of cables, strips and wires is performed in steps with successive stages until the final product is obtained. To rationalize the handling between the different steps the material is stocked on reels or on bobbins and takes forms which are not natural.

For every production step, it is therefore necessary to carry out the inverse process by taking the material off its support. At that moment, the straightening operation takes place. It may be divided into three steps:

- The following machines use the same type of special rollers:
- Machine tools for fiberglass cables (lawn mowers)
- Machines for spring manufacturing
- Machines for metal wires
- Machines for spooling, un-spooling and rewinding
- Fine and high precision wire drawing

Linear Motion Guide Roller Bearing A Series



Motion(shanghai)Industrial Development Co.,Ltd

Part No.	Dimensions (mm)							Load Ratings		Weight
	d	D	D1	B	Ra	α	R	Cw (KN)	Cow(KN)	≈(g)
A507 ZZ	5	21	19	6	0.5	90	0.3	2.2	0.89	11
A507 2RS	5	21	19	6	0.5	90	0.3	2.2	0.89	11
A603 ZZ	6	21	19	6	0.5	90	0.3	2.2	0.89	11
A603 2RS	6	21	19	6	0.5	90	0.3	2.2	0.89	11
A806 ZZ	8	26	23	7	0.5	90	0.3	3.3	1.37	19
A806 2RS	8	26	23	7	0.5	90	0.3	3.3	1.37	19
A1001 ZZ	10	30	27	8	0.5	90	0.3	4.55	1.97	31
A1001 2RS	10	30	27	8	0.5	90	0.3	4.55	1.97	31
A1002 ZZ	10	35	31	9	0.5	90	0.6	6	2.68	46
A1002 2RS	10	35	31	9	0.5	90	0.6	6	2.68	46
A1500 ZZ	15	47	41	11	0.5	90	0.6	7.6	3.7	104
A1500 2RS	15	47	41	11	0.5	90	0.6	7.6	3.7	104

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