



## PREVENTATIVE MAINTENANCE LUBRICATION

Ultran rodless cylinders are pre-lubricated at the factory for extensive, maintenance free operation. The life of the cylinder can be greatly lengthened by providing additional lubrication with an air line mist lubricator or direct introduction of oil to the cylinder every 100 linear miles of travel. Recommended oils are medium to heavy (20 to 30 weight).

The carriage should also be lubricated every 100 linear miles of travel with a high grade of silicone based bearing grease. The lubricant used by the factory can be purchased in 14 oz. grease gun containers as part number MS-2861-14OZ. Contact your authorized Bimba distributor for details.

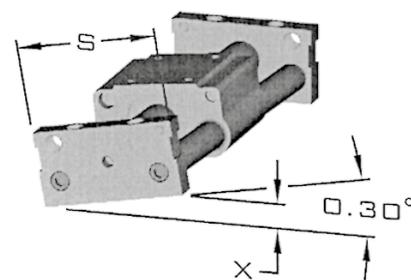
The guide rod shafts on Ultran Slide units are self lubricating and require no external lubricant in most applications. A lightweight oil can be added to the shafts if needed.

## ULTRAN SLIDE MOUNTING INSTRUCTIONS

Improper mounting of the Ultran Slide could result in binding and/or excess breakaway. As a rule of thumb, the end blocks should be mounted flat with no more than  $0.30^\circ$  of differential misalignment end-to-end (including both end blocks, i.e.,  $0.30^\circ$  on one end block if other end block is square. If both end blocks are out of square, the total between them cannot exceed  $0.30^\circ$ . The X dimension represents how much displacement  $0.30^\circ$  represents using 0.0175" per inch per degree of misalignment.)

The following table shows the S dimension (end block width dimension as found in the catalog) for all bore sizes:

MODEL	S in (mm)	X in (mm)
007 (5/16" Bore)	2.000 (50.8)	0.010 (0.25)
01 (7/16" Bore)	2.312 (58.7)	0.012 (0.30)
02 (9/16" Bore)	3.000 (76.2)	0.016 (0.40)
04 (3/4" Bore)	3.375 (85.7)	0.018 (0.46)
06 (7/8" Bore)	3.750 (95.3)	0.020 (0.51)
09 (1-1/16" Bore)	4.250 (108.0)	0.022 (0.56)
12 (1-1/4" Bore)	4.812 (122.2)	0.025 (0.64)
17 (1-1/2" Bore)	6.000 (152.4)	0.031 (0.79)
31 (2" Bore)	8.000 (203.2)	0.042 (1.07)



For example:

- > A Model 007 (5/16" Bore) has a S dimension of 2.00".  $0.30^\circ$  of misalignment would yield approximately 0.010" of differential misalignment from end-to-end before binding and/or excess breakaway would occur.
- > A Model 17 (1-1/2" Bore) has a S dimension of 6.00".  $0.30^\circ$  of misalignment would yield approximately 0.031" of differential misalignment from end-to-end before binding and/or excess breakaway would occur.

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