

# Manual Stage

## X-axis Linear Ball Guide (SS) Stage □80: BSS16-80/BSB16-80

Manual linear stage

BSS16-80C



BSB16-80C



RoHS

**Optional sample** \*The photo is for illustrative purpose only.

Please refer to optional introduction pages for details. [CP-2-009~](#)

**Precise positioning**  
Coarse-fine micrometer



**Cost reduction**  
Feeding screw



**Reduce the reading time**  
Degimatic micrometer



**Improve the fixing accuracy**  
Disk clamp



1 Model

**BSS16-80**  
**BSB16-80CR**   -

Option code

2 3 4 5 6

Select the option code as below.

|               | 2 Feeding position           |                                 | 3 Operating position |                                  |                                    |                                 | 4 Feeding type (Not available feeding position B/D when selecting) |                                    |                                    |                          | 5 Clamp type       |                | 6 Grease specification |                                  |                                   |
|---------------|------------------------------|---------------------------------|----------------------|----------------------------------|------------------------------------|---------------------------------|--|------------------------------------|------------------------------------|--------------------------|--------------------|----------------|------------------------|----------------------------------|-----------------------------------|
| Specification | Standard micrometer<br>A<br> | Coarse-fine micrometer<br>B<br> | Standard<br>         | Opposite attached micrometer<br> | Vertically attached micrometer<br> | Up/Down-Left/Right opposite<br> | Standard micrometer (P=0.5mm)<br>                                  | Feeding screw (Knob) (P=0.5mm)<br> | Feeding screw (Knob) (P=1.0mm)<br> | Degimatic Micrometer<br> | Standard clamp<br> | Disk clamp<br> | Standard grease        | Clean environment grease AFF<br> | Grease for the vacuum FOMBLIN<br> |
| Code          | A/C<br>Center/Side           | B/D<br>Center/Side              | Blank                | R                                | Z                                  | ZR                              | Blank  | TP                                 | GP                                 | 4                        | Blank              | 5              | Blank                  | J                                | L                                 |

⊕ A color of the parts may be silver due to the option model.

### SPEC

| Model                               | BSS16-80A                            | BSS16-80AZ  | BSS16-80C  | BSS16-80CZ  | BSB16-80A                                      | BSB16-80AZ  | BSB16-80C  | BSB16-80CZ  |
|-------------------------------------|--------------------------------------|-------------|------------|-------------|--|-------------|------------|-------------|
| (Opposite hand)                     | BSS16-80AR                           | BSS16-80AZR | BSS16-80CR | BSS16-80CZR | BSB16-80AR                                     | BSB16-80AZR | BSB16-80CR | BSB16-80CZR |
| Stage table size                    | 80×80mm                              |             |            |             |  |             |            |             |
| Feeding position                    | Center                               |             |            |             | Side   |             |            |             |
| Travel distance                     | ±12.5mm                              |             |            |             |  |             |            |             |
| Minimum reading of micrometer       | 10μm                                 |             |            |             |  |             |            |             |
| Guide                               | Linear ball guide                    |             |            |             |  |             |            |             |
| Load capacity                       | 27.0kgf [264.6N]                     |             |            |             |  |             |            |             |
| Travel accuracy                     | Straightness                         |             |            |             |  |             |            |             |
|                                     | Pitching                             |             |            |             |  |             |            |             |
|                                     | Yawing                               |             |            |             |  |             |            |             |
| Allowable load for moment           | Pitch                                |             |            |             |  |             |            |             |
|                                     | Yaw                                  |             |            |             |  |             |            |             |
|                                     | Roll                                 |             |            |             |  |             |            |             |
| Moment rigidity                     | Pitch                                |             |            |             |  |             |            |             |
|                                     | Yaw                                  |             |            |             |  |             |            |             |
|                                     | Roll                                 |             |            |             |  |             |            |             |
| Parallelism                         | Within 20μm                          |             |            |             |  |             |            |             |
| Motion parallelism                  | Within 8μm                           |             |            |             |  |             |            |             |
| Weight                              | 0.90kg                               |             |            |             |  |             |            |             |
| Main material—Surface finishing     | Stainless—Electroless nickel plating |             |            |             | Stainless—Low temperature black chrome plating |             |            |             |
| Provided screws (Hex socket screws) | 4 of M4—6                            |             |            |             |  |             |            |             |

X

XY

Z

Horizontal Z

XZ

Horizontal XZ

XYZ

Horizontal XYZ

Goniometer

Rotary

Unit

Accessories

Linear Ball

Cross Roller

Dovetail

□25

□30

□40

□50

□60

□70

□80

□100

□120

Other