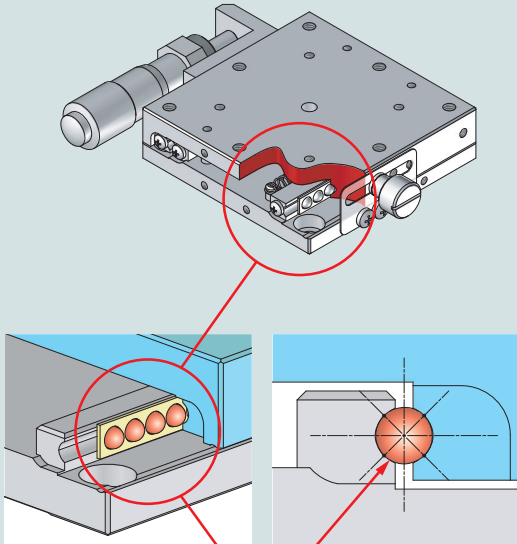


Linear Ball Guide Stage Guidance/Line-up

[Features]

- Thin structure stages which integrate the guide and main body.
- The combination of the stainless mainbody and gothic arc groove for a guide allows high rigidity and high accuracy. ※BXT series made by steel.
- Its wide specification line up helps customers improve productivity and quality.

Mechanism



Gothic arc groove
(4points contact rolling mechanism)

Feature

Thin type Main body thickness :16mm

High rigidity Load capacity :20kgf

High precision Straightness :1μm

*Specification example in case of 60x60mm

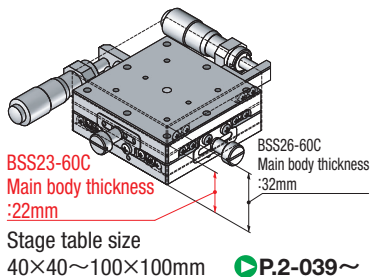
Low price Low price linear ball guide BXT series
▶ P.2-015~

Series	Stage table size (mm)	Travel distance per rotation (mm)	Load capacity (kgf [N])	Main material
BXT series (Electroless nickel plating)	□40	0.5	10 [98]	Steel
	□60		20 [196]	
BSS series (Electroless nickel plating)	□25	0.25~0.5	4 [39.2]	Stainless
	□40	0.25~1.0	10 [98]	
	□50		15 [147]	
	□60		20 [196]	
	□70		23 [225.4]	
	□80	0.5~1.0	27 [264.6]	
	□100		35 [343]	
BSB series (Low temperature black chrome plating)	□25	0.25~0.5	4 [39.2]	
	□40	0.25~1.0	10 [98]	
	□60		20 [196]	
	□80	0.5~1.0	27 [264.6]	
BSL series (Long stroke)	40×80	0.5~1.0	15 [147]	
	60×120		20 [196]	

* Amount shows for single axis

XY thin type BSS23 series

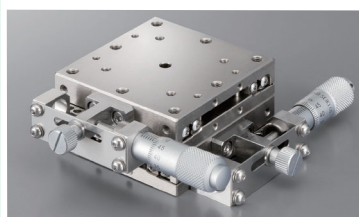
Reduce 31% of thickness by integrated XY



▶ P.2-039~

Clamp on a operator's end

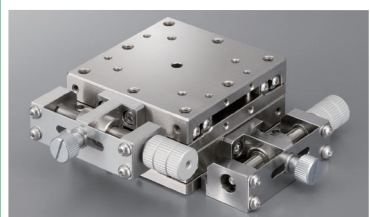
Control operation from the one-way direction



XY-axis ▶ P.2-035~

Multi mounting positioning

Can be mounted a variety of direction such as vertical, tilt and horizontal.



▶ P.2-037~

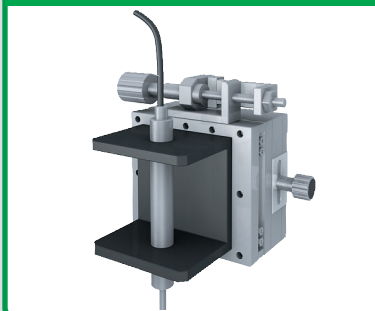
See page P.2-055~ for BHE(linear ball guide horizontal Z)

Series	Stage table size (mm)	Stroke (X-axis/mm)							Axis configuration • Listing page						
		~5	~10	~15	~20	~30	~40	~50	X	Thin type XY	XY	Z	XZ	XYZ thin	XYZ
BXT	□40								● ▶ P.2-015~		● ▶ P.2-043~	● ▶ P.2-053~			
	□60								● ▶ P.2-015~		● ▶ P.2-043~	● ▶ P.2-053~			
BSS	□25								● ▶ P.2-017~		● ▶ P.2-045~	● ▶ P.2-057	● ▶ P.2-058		● ▶ P.2-060
	□40								● ▶ P.2-019~	● ▶ P.2-039~	● ▶ P.2-047~	● ▶ P.2-057	● ▶ P.2-058	● ▶ P.2-059	● ▶ P.2-060
	□50								● ▶ P.2-021~	● ▶ P.2-039~	● ▶ P.2-047~	● ▶ P.2-057	● ▶ P.2-058	● ▶ P.2-059	● ▶ P.2-060
	□60								● ▶ P.2-023~	● ▶ P.2-039~	● ▶ P.2-049~	● ▶ P.2-057	● ▶ P.2-058	● ▶ P.2-059	● ▶ P.2-060
	□70								● ▶ P.2-025~	● ▶ P.2-039~	● ▶ P.2-049~	● ▶ P.2-057	● ▶ P.2-058	● ▶ P.2-059	● ▶ P.2-060
	□80								● ▶ P.2-027~	● ▶ P.2-041~	● ▶ P.2-051~	● ▶ P.2-057	● ▶ P.2-058	● ▶ P.2-059	● ▶ P.2-060
	□100								● ▶ P.2-029~	● ▶ P.2-041~	● ▶ P.2-051~				
BSB	□25								● ▶ P.2-017~		● ▶ P.2-045~	● ▶ P.2-057	● ▶ P.2-058		● ▶ P.2-060
	□40								● ▶ P.2-019~		● ▶ P.2-047~	● ▶ P.2-057	● ▶ P.2-058		● ▶ P.2-060
	□60								● ▶ P.2-023~		● ▶ P.2-049~	● ▶ P.2-057	● ▶ P.2-058		● ▶ P.2-060
	□80								● ▶ P.2-027~		● ▶ P.2-051~	● ▶ P.2-057	● ▶ P.2-058		● ▶ P.2-060
BSL	40×80								● ▶ P.2-031~						
	60×120								● ▶ P.2-031~						

Application example

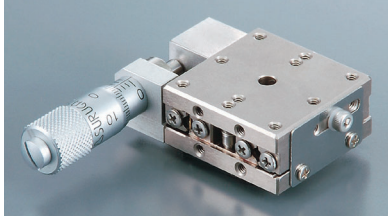
Sample inspection table
(Thin type XY)

Control the dispenser head

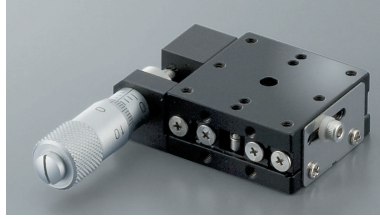
Sample inspection table
(Integrated rotation stage)

X-axis Linear Ball Guide (SS) Stage □25: BSS16-25/BSB16-25

BSS16-25C



BSB16-25C



RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

Cost reduction
Feeding screw



Prevention error • Space-saving
Feeding screw hexagonal wrench operation



1 Model

BSS16-25
BSB16-25CR □ - □

Option code

2 3 4 5

Select the option code as below.

	2 Feeding position	3 Operating position					4 Feeding type					5 Grease specification		
Specification	Standard micro A  C 	Standard  	Opposite attached micrometer  	Vertically attached micrometer  	Up/Down-Left/Right opposite  	Standard micro (P=0.5mm) 	Feeding screw (Knob) (P=0.5mm)  *Refer to below in the case of BSB	Feeding screw (Knob) (P=0.25mm) 	Feeding screw (Hex wrench) (P=0.5mm) 	Feeding screw (Hex wrench) (P=0.25mm) 	Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN	
	Code	A/C Center/Side	Blank	R	Z	ZR	Blank	1	FP	SH	FH	Blank	J	L

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

SPEC									
Model	BSS16-25A		BSS16-25AZ	BSS16-25C	BSS16-25CZ	BSB16-25A	BSB16-25AZ	BSB16-25C	BSB16-25CZ
(Opposite hand)	BSS16-25AR		BSS16-25AZR	BSS16-25CR	BSS16-25CZR	BSB16-25AR	BSB16-25AZR	BSB16-25CR	BSB16-25CZR
Stage table size	25×25mm								
Feeding position	Center			Side		Center		Side	
Travel distance	±3.2mm								
Minimum reading of micrometer	10μm								
Guide	Linear ball guide								
Load capacity	4kgf [39.2N]								
Travel accuracy	Straightness								Within 3μm
	Pitching								Within 30"
	Yawing								Within 25"
Allowable load for moment	Pitch								2.0N・m
	Yaw								2.0N・m
	Roll								3.5N・m
Moment rigidity	Pitch								1.9"/N・cm
	Yaw								1.1"/N・cm
	Roll								1.1"/N・cm
Parallelism	Within 30μm								
Motion parallelism	Within 10μm								
Weight	0.07kg								
Main material—Surface finishing	Stainless—Electroless nickel plating					Stainless—Low temperature black chrome plating			
Provided screws (Hex socket screws)	4 of M2—4								

Dimensional outline drawings

The center hole tolerance H8 for BSB.



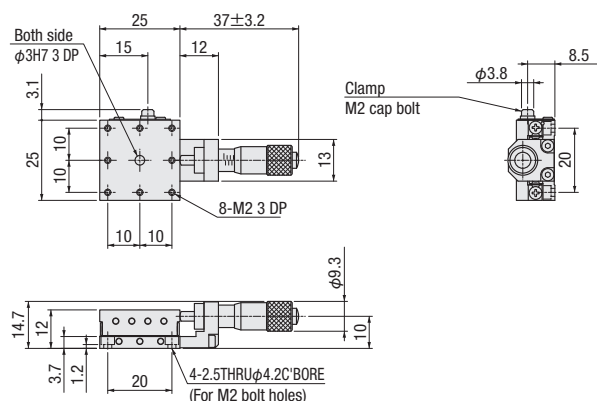
PART
COMMUNITY

CAD
DATA

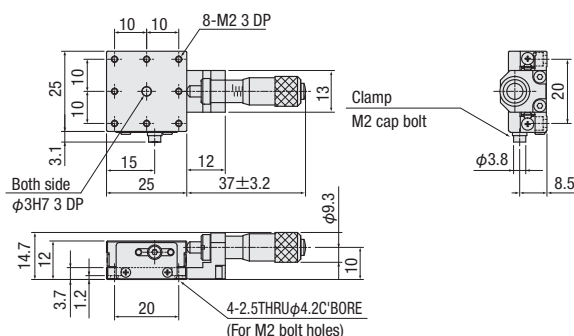
SURUGA
SEIKI

CAD
3D・2D

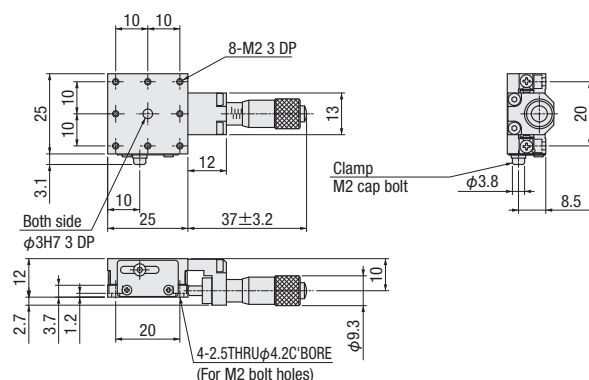
BSS16-25A/BSB16-25A



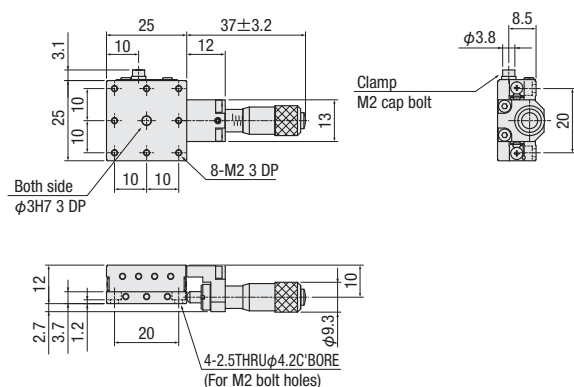
BSS16-25AR/BSB16-25AR



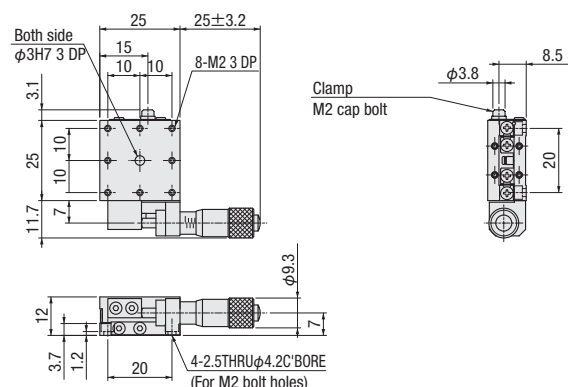
BSS16-25AZ/BSB16-25AZ



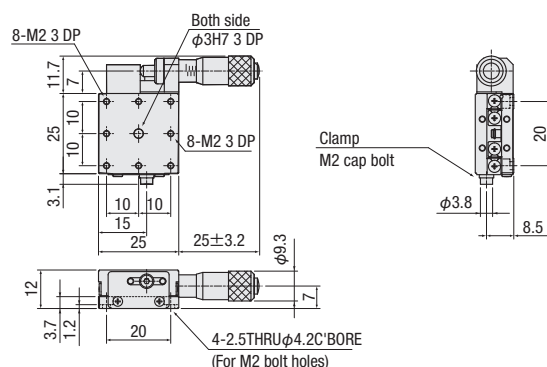
BSS16-25AZR/BSB16-25AZR



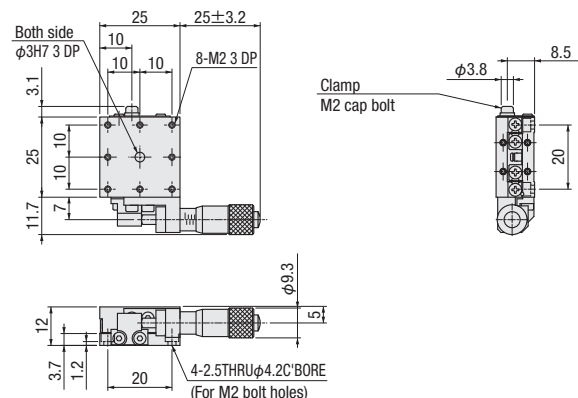
BSS16-25C/BSB16-25C



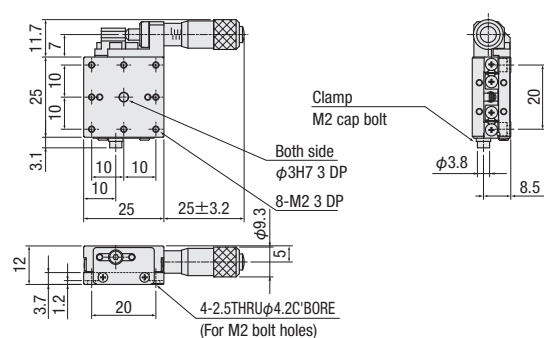
BSS16-25CR/BSB16-25CR



BSS16-25CZ/BSB16-25CZ



BSS16-25CZR/BSB16-25CZR



Manual linear stage

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

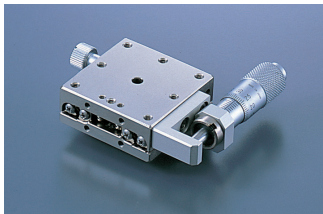
Other

2

018

X-axis Linear Ball Guide (SS) Stage □40: BSS16-40/BSB16-40

BSS16-40C



BSB16-40C



Low prices

Linear ball guide
BXT series

P.2-015~

RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. P.2-009

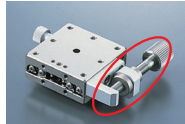
Precise positioning

Coarse-fine micro



Cost reduction

Feeding screw



Prevention error • Space-saving

Feeding screw hexagonal wrench operation



Reduce the reading time

Degimatic micro



Improve the fixing accuracy

Disk clamp



Improve the holding power

Opposite clamp

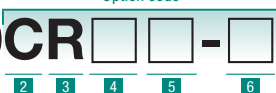


※Image is for □80.

1 Model

BSS16-40
BSB16-40

Option code



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		
Specimen	Standard micro	Coarse-fine micro	Standard	Opposite attached micrometer	Vertically attached micrometer	Up/Down-Left/Right opposite	Standard micro (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)	Feeding screw (Knob) (P=0.25mm)	Feeding screw (Knob) (P=1.0mm)	Feeding screw (Hex wrench) (P=0.5mm)	Feeding screw (Hex wrench) (P=0.25mm)	Degimatic micrometer	Standard clamp	Disk clamp	Opposite clamp	Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
	 	  Minimum reading capability 0.5μm	 	 	 	 							 Feeding position Apply only A/C No Z/R/ZR			 • Available only Feeding position C*/R and Feeding type Blank/H- St • Not available combination use Z/R		Feeding position No B/D No feeding type 4.	Feeding position No B/D No feeding type 4.
Code	A/C Center/Side	B/D Center/Side	Blank	R	Z	ZR	Blank	1	FP	LP	SH	FH	4	Blank	5	6	Blank	J	L

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

SPEC

Model		BSS16-40A	BSS16-40AZ	BSS16-40C	BSS16-40CZ	BSB16-40A	BSB16-40AZ	BSB16-40C	BSB16-40CZ
(Opposite hand)		BSS16-40AR	BSS16-40AZR	BSS16-40CR	BSS16-40CZR	BSB16-40AR	BSB16-40AZR	BSB16-40CR	BSB16-40CZR
Stage table size		40×40mm							
Feeding position		Center		Side		Center		Side	
Travel distance		±6.5							
Minimum reading of micrometer		10μm							
Guide		Linear ball guide							
Load capacity		10kgf [98N]							
Travel accuracy	Straightness	Within 1μm				Within 3μm			
	Pitching					Within 25"			
	Yawing					Within 15"			
Allowable load for moment	Pitch					5.0N・m			
	Yaw					5.0N・m			
	Roll					5.0N・m			
	Pitch					0.42"/N・cm			
Moment rigidity	Yaw					0.35"/N・cm			
	Roll					0.21"/N・cm			
	Parallelism	Within 15μm							
Motion parallelism		Within 7μm							
Weight		0.23kg							
Main material—Surface finishing		Stainless—Electroless nickel plating				Stainless—Low temperature black chrome plating			
Provided screws (Hex socket screws)		4 of M3—6							

Dimensional outline drawings

The center hole tolerance H8 for BSB.



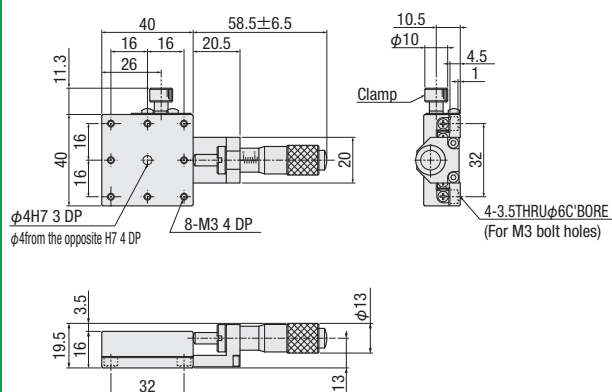
PART
COMMUNITY

CAD
DATA

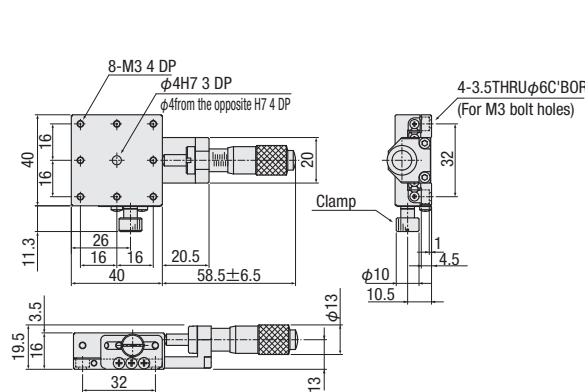
SURUGA
SEIKI

CAD
3D・2D

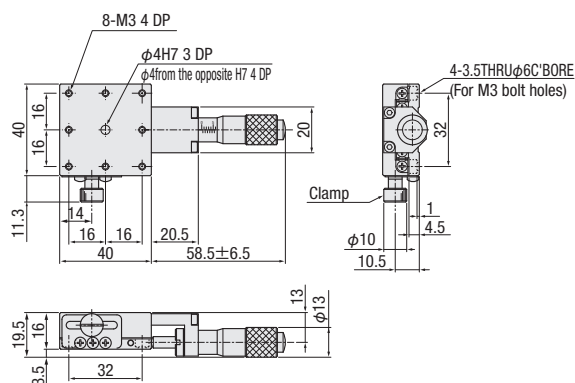
BSS16-40A/BSB16-40A



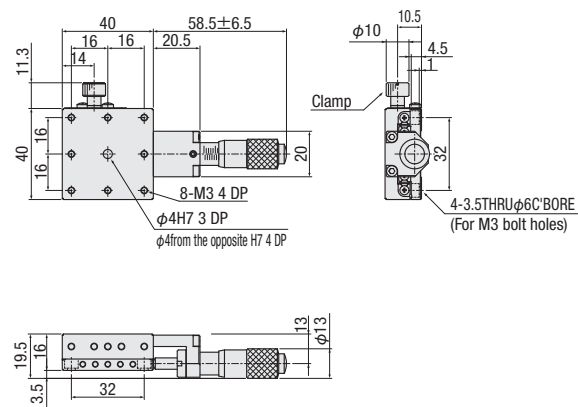
BSS16-40AR/BSB16-40AR



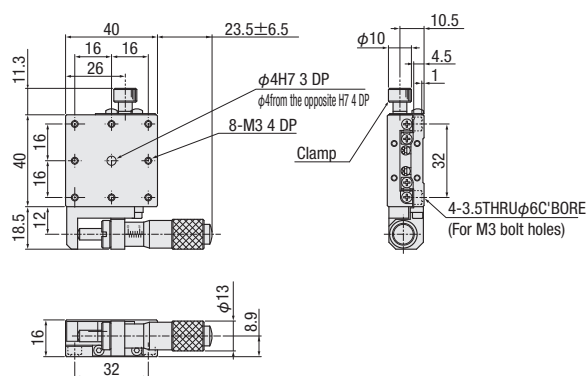
BSS16-40AZ/BSB16-40AZ



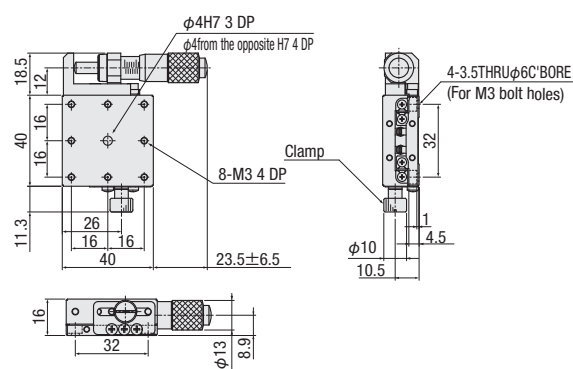
BSS16-40AZR/BSB16-40AZR



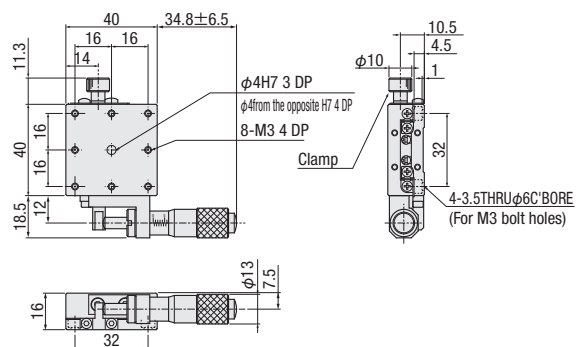
BSS16-40C/BSB16-40C



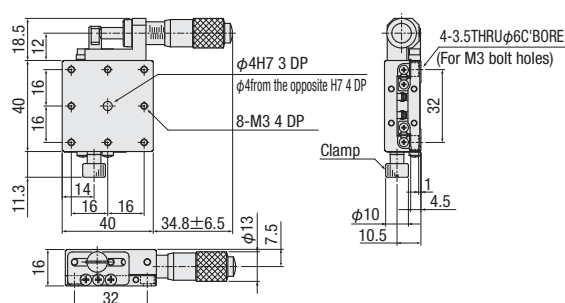
BSS16-40CR/BSB16-40CR



BSS16-40CZ/BSB16-40CZ



BSS16-40CZR/BSB16-40CZR



Manual linear stage

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

2

020

X-axis Linear Ball Guide (SS) Stage □50: BSS16-50

BSS16-50C



RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

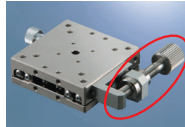
Precise positioning

Coarse-fine micro



Cost reduction

Feeding screw



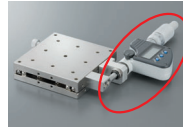
Prevention error • Space-saving

Feeding screw hexagonal wrench operation



Reduce the reading time

Degimatic micro



Improve the fixing accuracy

Disk clamp



Improve the holding power

Opposite clamp



※Image is for □80.

1 Model

Option code

BSS16-50CR □ □ - □

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 micro A	Coarse-fine micro B	Standard	Opposite attached micrometer	Vertically attached micrometer	Up/Down-Left/Right opposite	Standard micro (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)	Feeding screw (Knob) (P=0.25mm)	Feeding screw (Knob) (P=1.0mm)	Feeding screw (Hex wrench) (P=0.5mm)	Feeding screw (Hex wrench) (P=0.25mm)	Degimatic micrometer	Standard clamp	Disk clamp	Opposite clamp	Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
	C	D Minimum reading 0.5μm																	
Code	A/C Center/Side	B/D Center/Side	Blank	R	Z	ZR	Blank	1	FP	LP	SH	FH	4	Blank	5	6	Blank	J	L

SPEC

SPEC								
Model	BSS16-50A		BSS16-50AZ		BSS16-50C		BSS16-50CZ	
(Opposite hand)	BSS16-50AR		BSS16-50AZR		BSS16-50CR		BSS16-50CZR	
Stage table size	50×50mm							
Feeding position	Center				Side			
Travel distance	±6.5mm							
Minimum reading of micrometer	10μm							
Guide	Linear ball guide							
Load capacity	15kgf [147N]							
Travel accuracy	Straightness	Within 1μm						
	Pitching	Within 25"						
	Yawing	Within 15"						
Allowable load for moment	Pitch	6.8N・m						
	Yaw	6.8N・m						
	Roll	6.0N・m						
Moment rigidity	Pitch	0.15"/N・cm						
	Yaw	0.14"/N・cm						
	Roll	0.09"/N・cm						
Parallelism	Within 15μm							
Motion parallelism	Within 7μm							
Weight	0.28kg							
Main material—Surface finishing	Stainless—Electroless nickel plating							
Provided screws (Hex socket screws)	4 of M3—6							

X

XY

Z

Horizontal
Z

XZ

Horizontal
XZ

XYZ

Horizontal
XYZ

Goniometer

Rotary

Unit

Accessories

Linear
BallCross
Roller

Dovetail

□25

□30

□40

□50

□60

□70

□80

□100

□120

Other



PART
COMMUNITY

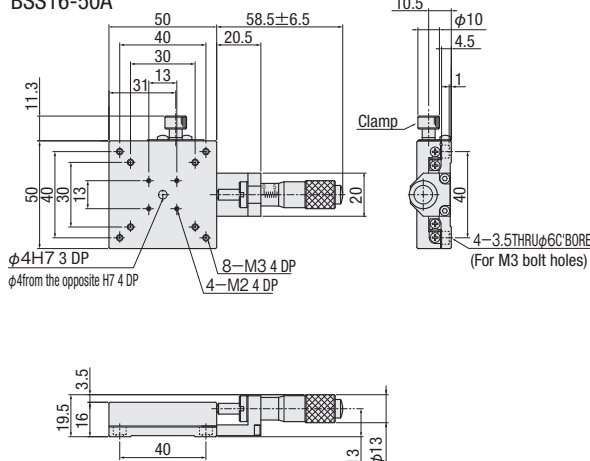
CAD
DATA



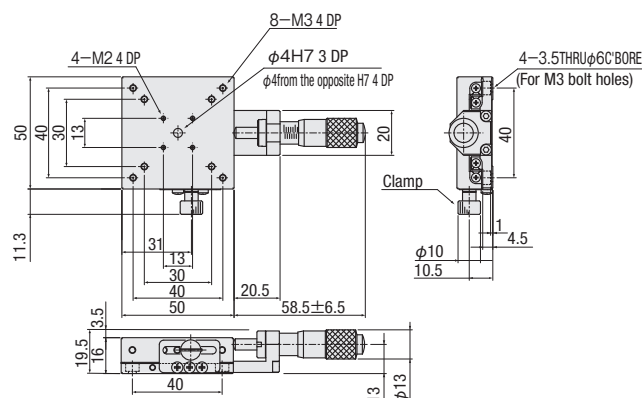
CAD
3D・2D

Dimensional outline drawings

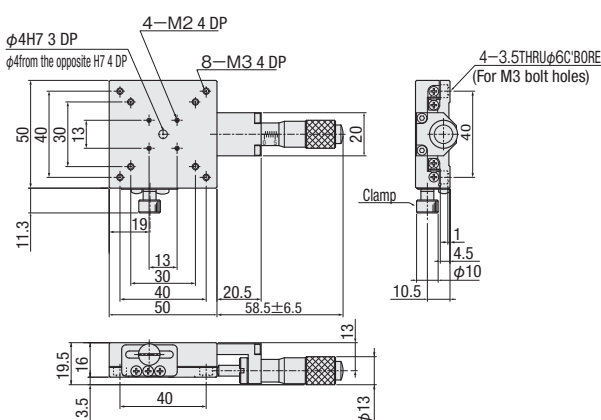
BSS16-50A



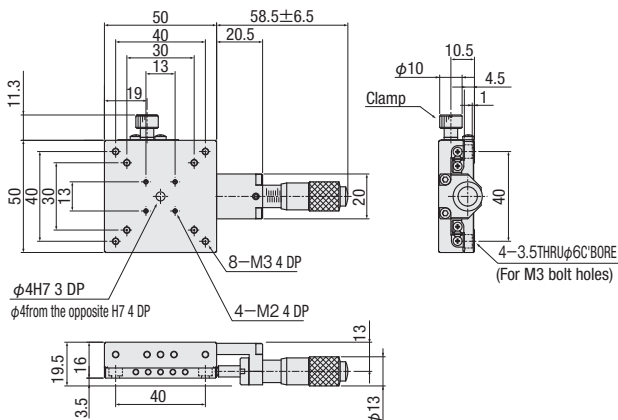
BSS16-50AR



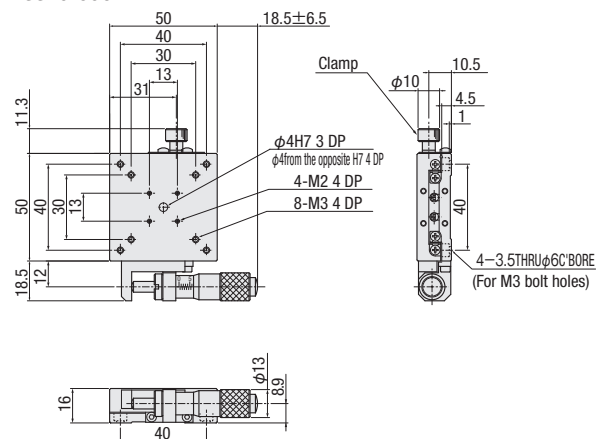
BSS16-50AZ



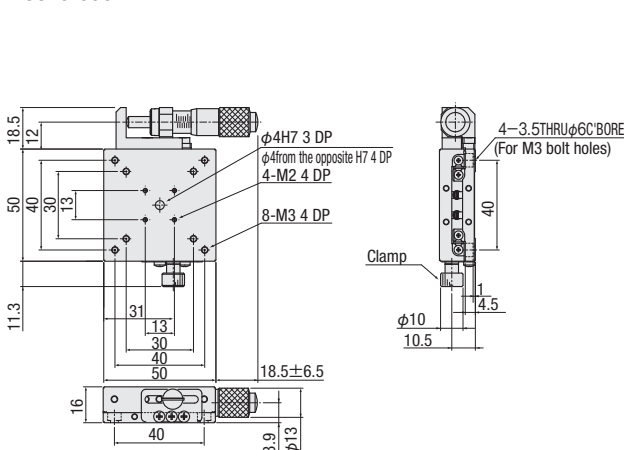
BSS16-50AZR



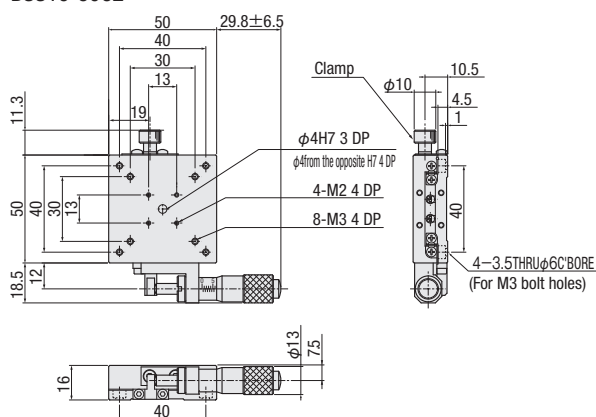
BSS16-50C



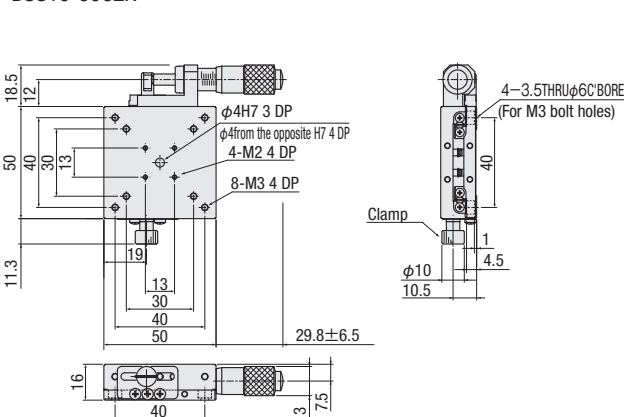
BSS16-50CR



BSS16-50CZ



BSS16-50CZR



Manual linear stage

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

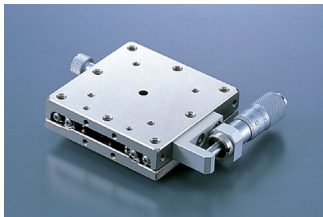
Other

2

022

X-axis Linear Ball Guide (SS) Stage □60: BSS16-60/BSB16-60

BSS16-60C



BSB16-60C



Low prices

Linear ball guide
BXT series

▶ P.2-015~

RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶ P.2-009

Precise positioning

Coarse-fine micrometer



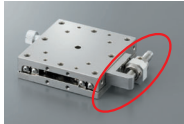
Cost reduction

Feeding screw



Prevention error • Space-saving

Feeding screw hexagonal wrench operation



Reduce the reading time

Degimatic micro



Improve the fixing accuracy

Disk clamp



Improve the holding power

Opposite clamp

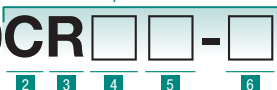


※Image is for □60.

1 Model

BSS16-60
BSB16-60

Option code



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 micro Coarse-fine micro A B C D Minimum reading 0.5μm	Standard Opposite attached micrometer Vertically attached micrometer Up/Down-Left/Right opposite	Standard micro (P=0.5mm) Feeding screw (Knob) (P=0.5mm) Feeding screw (Knob) (P=0.25mm) Feeding screw (Knob) (P=1.0mm) Feeding screw (Hex wrench) (P=0.5mm) Feeding screw (Hex wrench) (P=0.25mm) Degimatic Micrometer Feeding position Apply only A/C No Z/R/ZR	Standard clamp Disk clamp Opposite clamp Available only Feeding position C•CR and Feeding type Blank+RH+SH •Not available combination use Z/ZR	Standard grease Clean environment grease AFF Grease for the vacuum FOMBLIN Feeding position No B/D No feeding type 4. Feeding position No B/D No feeding type 4.
Code	A/C Center/Side B/D Center/Side	Blank R Z ZR	Blank 1 FP LP SH FH 4	Blank 5 6	Blank J L

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

X-axis Linear Ball Guide (SS) Stage □70: BSS16-70

BSS16-70C



RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

Precise positioning

Coarse-fine micrometer



Cost reduction

Feeding screw



Prevention error • Space-saving

Feeding screw hexagonal wrench operation



Reduce the reading time

Degimatic micrometer



Improve the fixing accuracy

Disk clamp



Improve the holding power

Opposite clamp



※Image is for□80.

1 Model

Option code

BSS16-70CR -

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																			
Code	A/C Center/Side	B/D Center/Side	Blank	R	Z	ZR	Blank	1	FP	LP	SH	FH	4	Blank	5	6	Blank	J	L

SPEC				
Model	BSS16-70A	BSS16-70AZ	BSS16-70C	BSS16-70CZ
(Opposite hand)	BSS16-70AR	BSS16-70AZR	BSS16-70CR	BSS16-70CZR
Stage table size	70×70mm			
Feeding position	Center		Side	
Travel distance	±6.5mm			
Minimum reading of micrometer	10μm			
Guide	Linear ball guide			
Load capacity	23kgf [225.4N]			
Travel accuracy	Straightness	Within 1μm		
	Pitching	Within 25"		
	Yawing	Within 15"		
Allowable load for moment	Pitch	13.8N・m		
	Yaw	13.8N・m		
	Roll	12.9N・m		
Moment rigidity	Pitch	0.06"/N・cm		
	Yaw	0.05"/N・cm		
	Roll	0.03"/N・cm		
Parallelism	Within 15μm			
Motion parallelism	Within 7μm			
Weight	0.58kg			
Main material—Surface finishing	Stainless—Electroless nickel 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
BallCross
Roller

Dovetail

□25

□30

□40

□50

□60

□70

□80

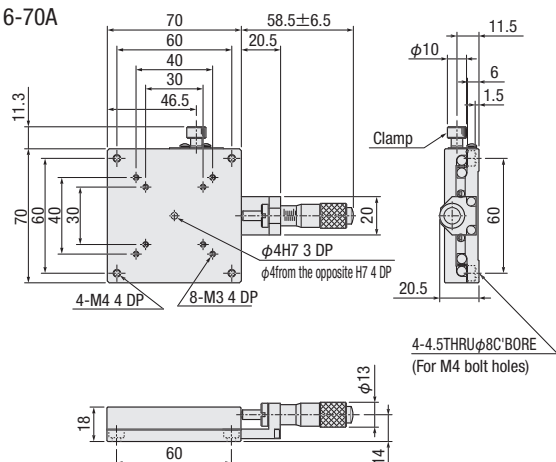
□100

□120

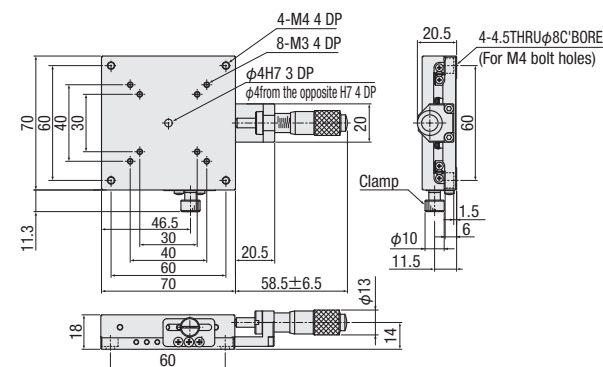
Other

Dimensional outline drawings

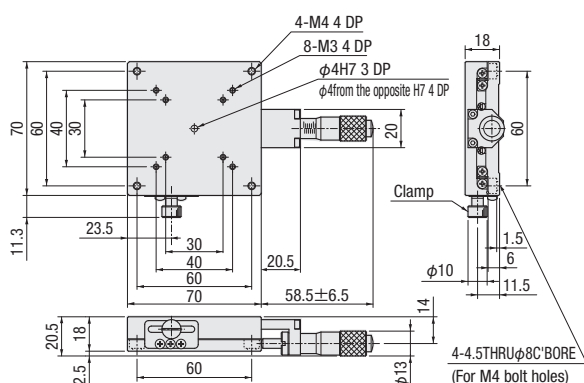
BSS16-70A



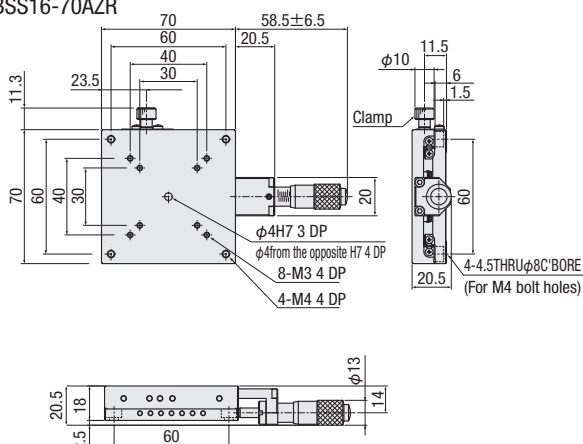
BSS16-70AR



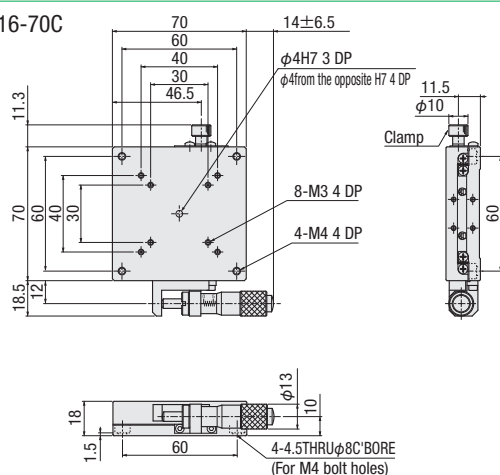
BSS16-70AZ



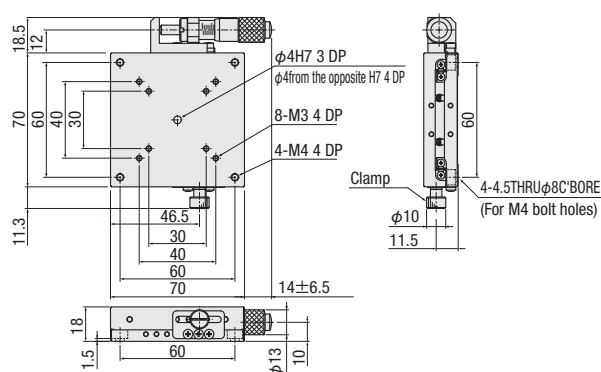
BSS16-70AZR



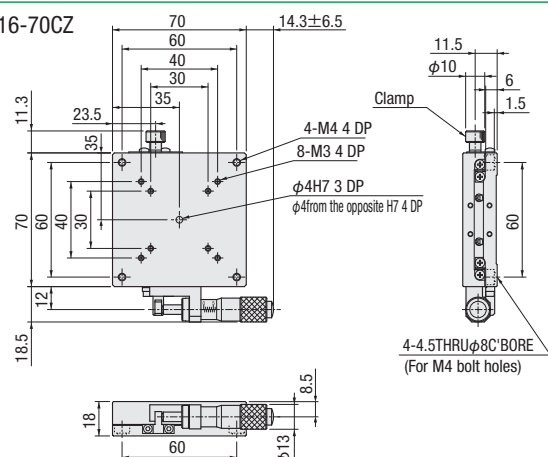
BSS16-70C



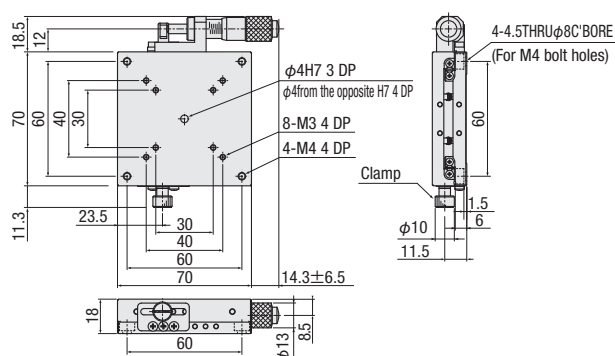
BSS16-70CR



BSS16-70CZ



BSS16-70CZR



Manual linear stage

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

2

026

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

BSS16-80C



BSB16-80C



RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

Precise positioning

Coarse-fine micrometer



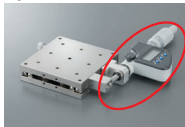
Cost reduction

Feeding screw



Reduce the reading time

Degimatic micrometer



Improve the fixing accuracy

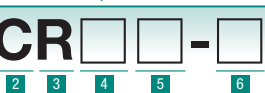
Disk clamp



1 Model

BSS16-80
BSB16-80CR

Option code



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 A Coarse-fine micrometer B C D Travel distance: ±6.5mm Minimum reading: 0.5μm	Standard Opposite attached micrometer Vertically attached micrometer Up/Down-Left/Right opposite	Standard micrometer (P=0.5mm) Feeding screw (Knob) (P=0.5mm) Feeding screw (Knob) (P=1.0mm) Degimatic Micrometer	Standard clamp Disk clamp	Standard grease Clean environment grease AFF Grease for the vacuum FOMBLIN Feeding position No B/D No feeding type 4 Feeding position No B/D No feeding type 4
Code	A/C Center/Side B/D 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.

Linear Ball

Cross Roller

Dovetail

□25

□30

□40

□50

□60

□70

□80

□100

□120

Other

SPEC

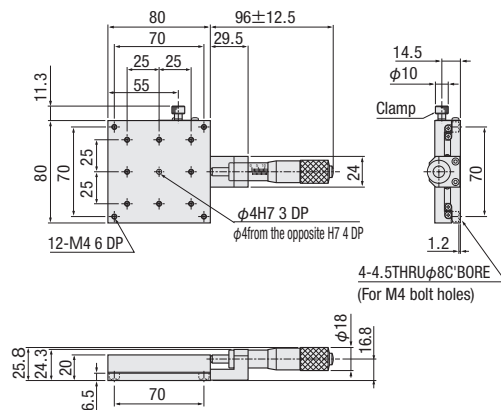
Model		BSS16-80A	BSS16-80AZ	BSS16-80C	BSS16-80CZ	BSB16-80A	BSB16-80AZ	BSB16-80C	BSB16-80CZ
(Opposite hand)		BSS16-80AR	BSS16-80AZR	BSS16-80CR	BSS16-80CZR	BSB16-80AR	BSB16-80AZR	BSB16-80CR	BSB16-80CZR
Stage table size		80×80mm							
Feeding position		Center		Side		Center		Side	
Travel distance		±12.5mm							
Minimum reading of micrometer		10μm							
Guide		Linear ball guide							
Load capacity		27.0kgf [264.6N]							
Travel accuracy	Straightness	Within 3μm							
	Pitching	Within 25"							
	Yawing	Within 15"							
Allowable load for moment	Pitch	18.2N・m							
	Yaw	18.2N・m							
	Roll	17.7N・m							
Moment rigidity	Pitch	0.04"/N・cm							
	Yaw	0.04"/N・cm							
	Roll	0.02"/N・cm							
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							

Dimensional outline drawings

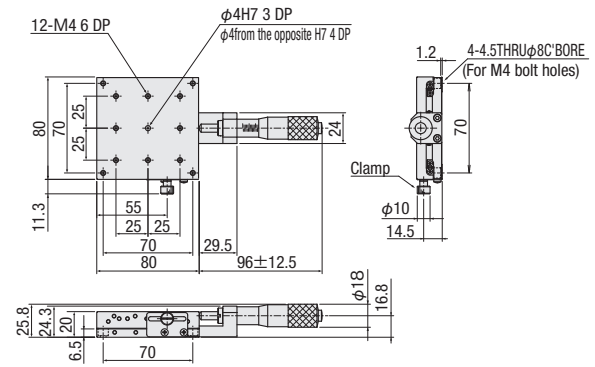
The center hole tolerance H8 for BSB



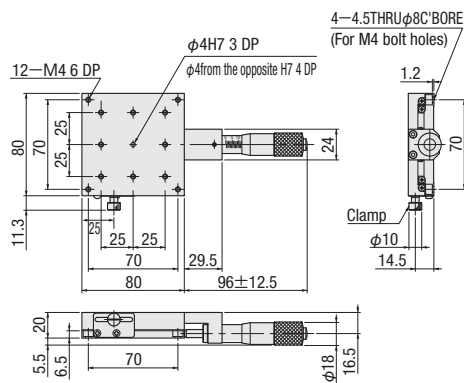
BSS16-80A/BSB16-80A



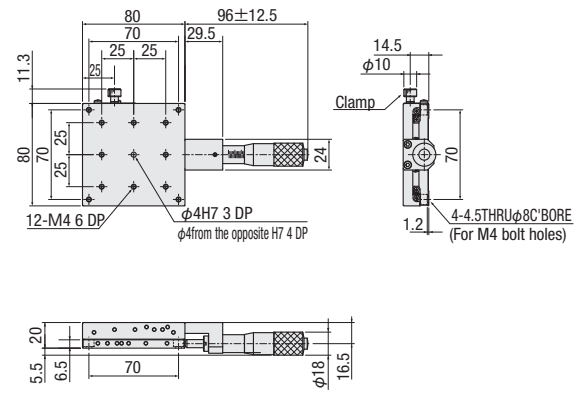
BSS16-80AR/BSB16-80AR



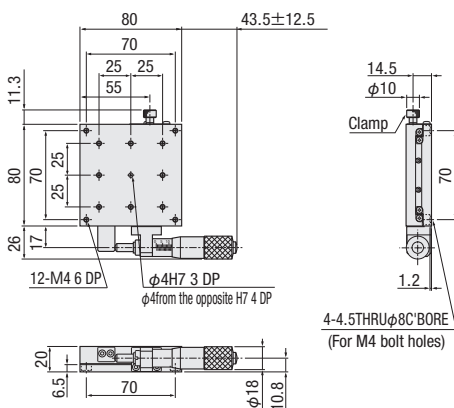
BSS16-80AZ/BSB16-80AZ



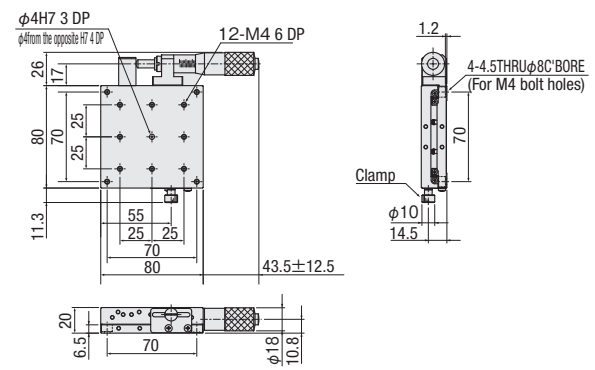
BSS16-80AZR/BSB16-80AZR



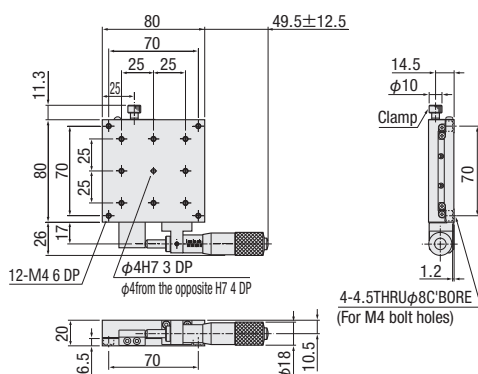
BSS16-80C/BSB16-80C



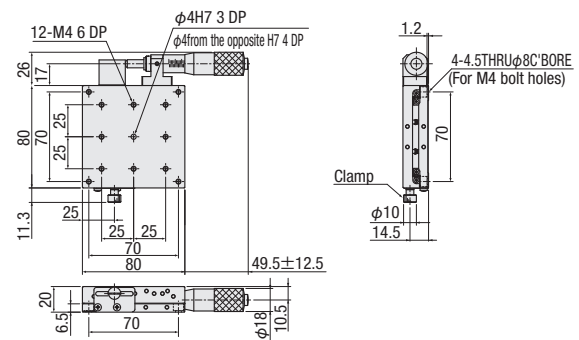
BSS16-80CR/BSB16-80CR



BSS16-80CZ/BSB16-80CZ



BSS16-80CZR/BSB16-80CZR



Manual linear stage

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

2

028

X-axis Linear Ball Guide (SS) Stage □100: BSS16-100

BSS16-100C



RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.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

Option code

BSS16-100CR -

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 A 	Coarse-fine micrometer B 	Standard 	Opposite attached micrometer 	Vertically attached micrometer 	Up/Down-Left/Right opposite 	Standard micrometer (P=0.5mm) 	Feeding screw (Knob) (P=0.5mm) 	Feeding screw (Knob) (P=1.0mm) 	Degimatic Micrometer CR/CZR is not applicable	Standard clamp 	Disk clamp 	Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
	C 	D Travel distance ±5.5mm Minimum reading capability 0.5μm											Feeding position No B/D No feeding type 4	Feeding position No B/D No feeding type 4	Feeding position No B/D No feeding type 4
Code	A/C Center/Side	B/D Center/Side	Blank	R	Z	ZR	Blank	TP	GP	4	Blank	5	Blank	J	L

SPEC					
Model		BSS16-100A	BSS16-100AZ	BSS16-100C	BSS16-100CZ
(Opposite hand)		BSS16-100AR	BSS16-100AZR	BSS16-100CR	BSS16-100CZR
Stage table size		100×100mm			
Feeding position		Center		Side	
Travel distance		±12.5mm			
Minimum reading of micrometer		10μm			
Guide		Linear ball guide			
Load capacity		35.0kgf [343N]			
Travel accuracy	Straightness	Within 3μm			
	Pitching	Within 25"m			
	Yawing	Within 15"m			
Allowable load for moment	Pitch	31.8N・m			
	Yaw	31.8N・m			
	Roll	30.7N・m			
Moment rigidity	Pitch	0.02"/N・cm			
	Yaw	0.02"/N・cm			
	Roll	0.01"/N・cm			
Parallelism		Within 20μm			
Motion parallelism		Within 8μm			
Weight		1.33kg			
Main material—Surface finishing		Stainless—Electroless nickel plating			
Provided screws (Hex socket screws)		4 of M4—6			



CAD
COMMUNITY

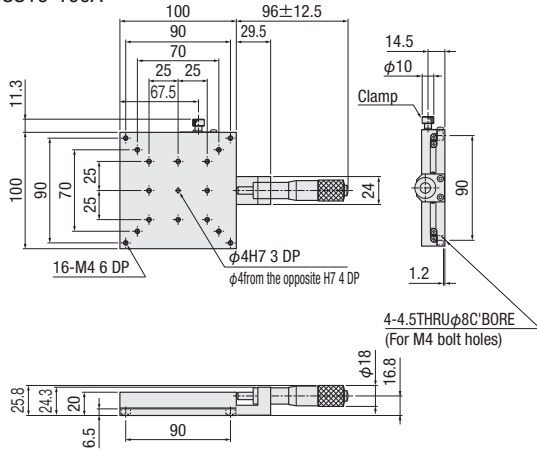
CAD
DATA

SURUGA
SEIKI

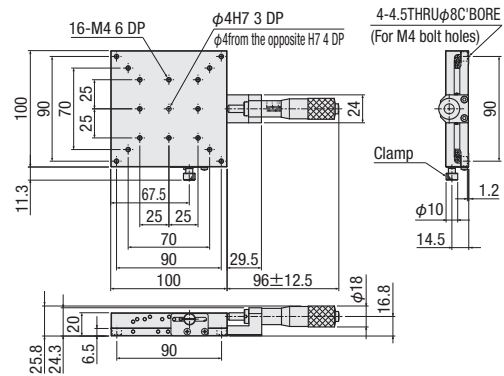
CAD
3D・2D

Dimensional outline drawings

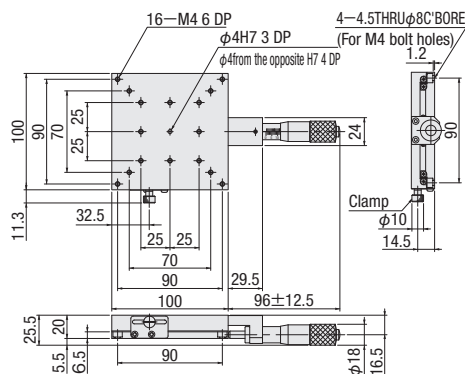
BSS16-100A



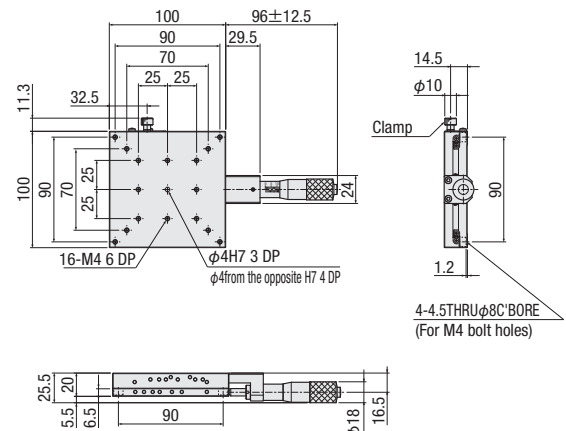
BSS16-100AR



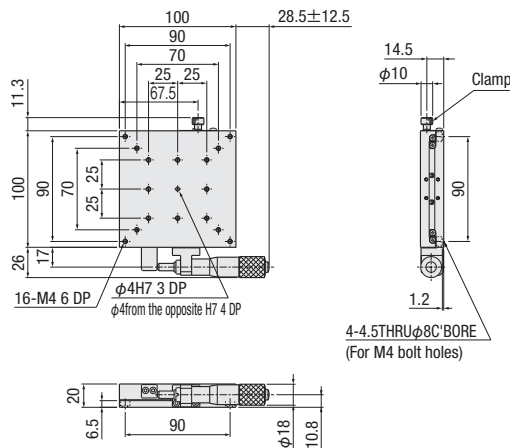
BSS16-100AZ



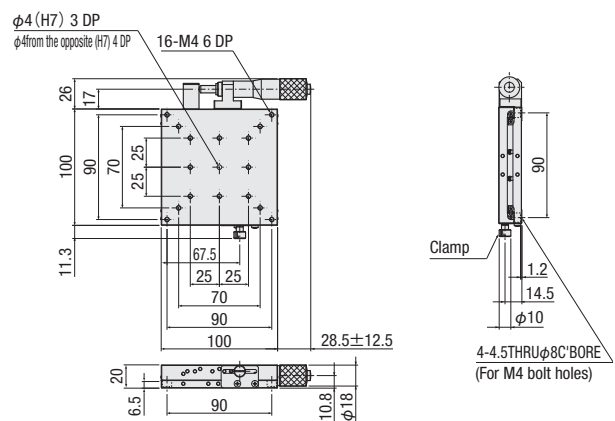
BSS16-100AZR



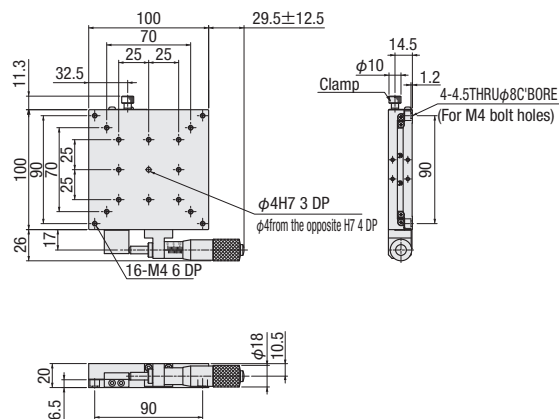
BSS16-100C



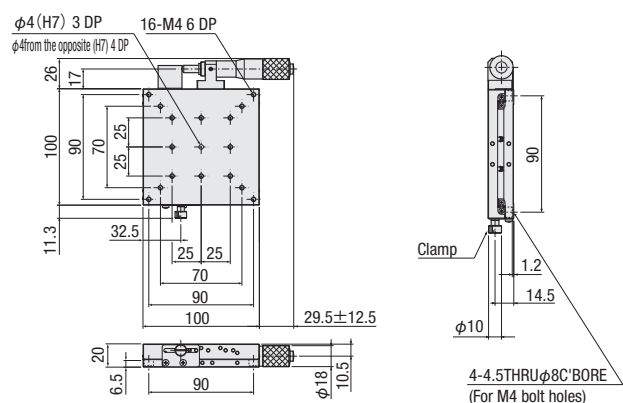
BSS16-100CR



BSS16-100CZ



BSS16-100CZR



Manual linear stage

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

2

030

Long Stroke X-axis Linear Ball Guide (SS) Stage: BSL16 (40×80/60×120)

Manual linear stage

RoHS

BSL16-4025A



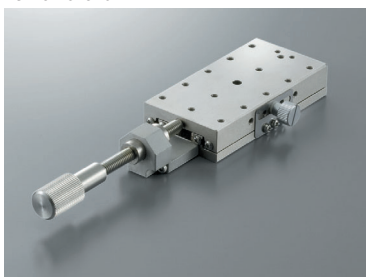
BSL16-4025C



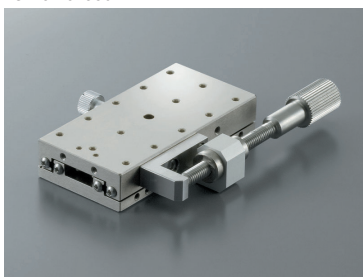
BSL16-6050C



BSL16-4025AGP



BSL16-4025CGP



BSL16-6050CGP



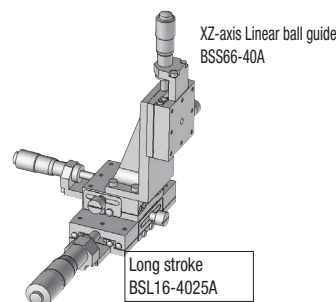
[Features]

- High precision, high rigidity and thin long stroke models.
- Narrow width in comparison with the square type, and it realize a long stroke operation.
- Selectable micrometer for feeding screw or feedin nut (Lead 1.0mm).
- Superior rust prevention and corrosion resistance by using stainless and electroless nickel for the main body.
- Can be combined with different size stages such as □40, □60mm, and also available combination of different stroke size.

■ Stage size: Travel distance

- 40×80mm : ±12.5mm
- 60×120mm : ±25mm

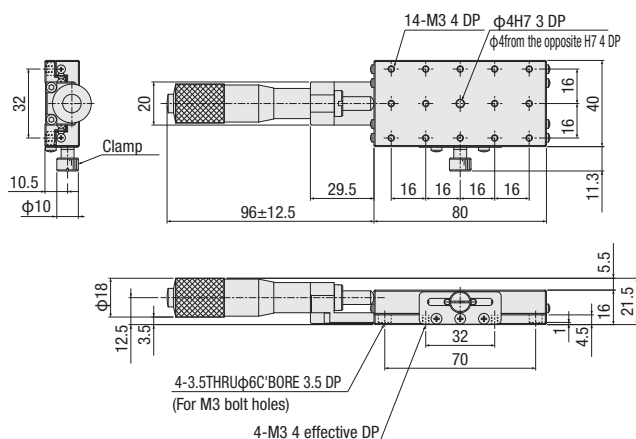
[Example of combinations]



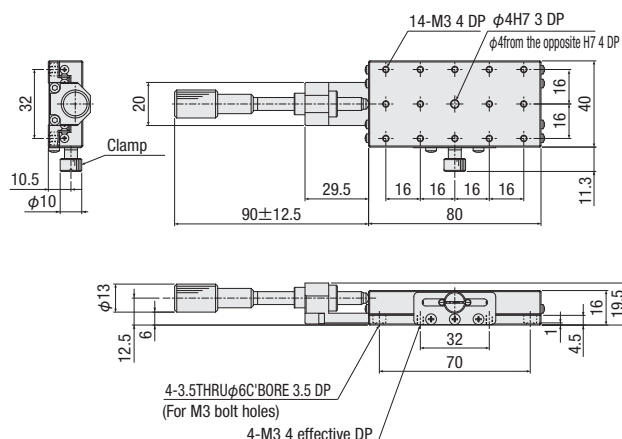
SPEC						
Model	BSL16-4025A	BSL16-4025AGP	BSL16-4025C	BSL16-4025CGP	BSL16-6050C	BSL16-6050CGP
(Opposite hand)	BSL16-4025AR	BSL16-4025ARGP	BSL16-4025CR	BSL16-4025CRGP	BSL16-6050CR	BSL16-6050CRGP
Stage table size	40×80mm				60×120mm	
Feeding position	Center			Side		
Travel distance	±12.5mm				±25mm	±12.5mm
Travel distance per rotation of feed screw	—	1.0mm	—	1.0mm	—	1.0mm
Minimum reading of micrometer	10μm	—	10μm	—	10μm	—
Guide	Linear ball guide					
Load capacity	15.0kgf [147N]				20.0kgf [196N]	
Travel accuracy	Straightness	Within 3μm				
	Pitching	Within 25"				
	Yawing	Within 15"				
Allowable load for moment	Pitch	6.8N・m			10N・m	
	Yaw	6.8N・m			10N・m	
	Roll	5.0N・m			6.8N・m	
Moment rigidity	Pitch	0.15"/N・cm			0.08"/N・cm	
	Yaw	0.13"/N・cm			0.07"/N・cm	
	Roll	0.25"/N・cm			0.14"/N・cm	
Parallelism	Within 20μm					
Motion parallelism	Within 8μm					
Weight	0.44kg				0.98kg	
Main material—Surface finishing	Stainless—Electroless nickel plating					
Provided screws (Hex socket screws)	4 of M3—6				4 of M4—6	

Dimensional outline drawings

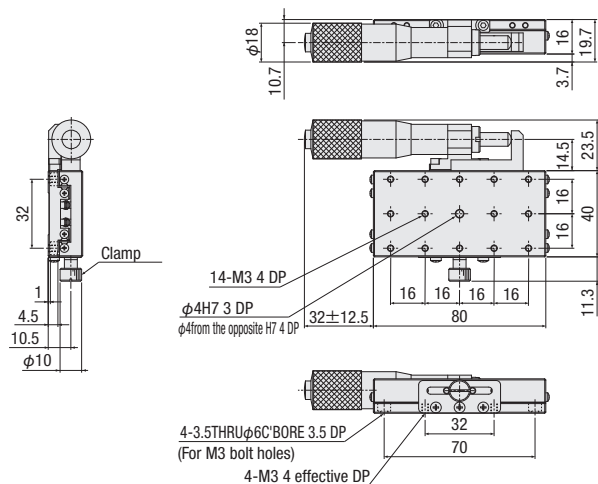
BSL16-4025A



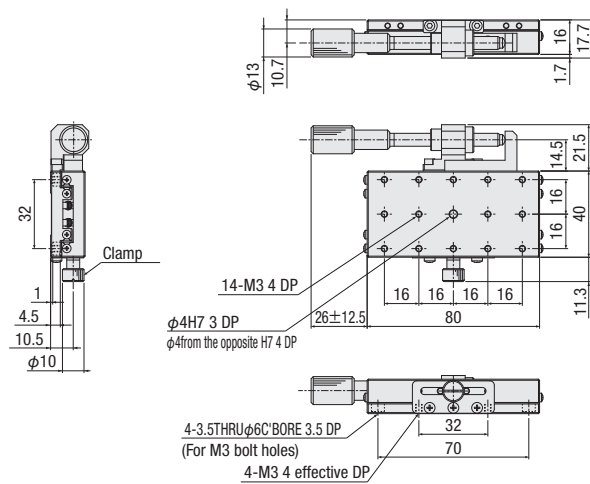
BSL16-4025AGP



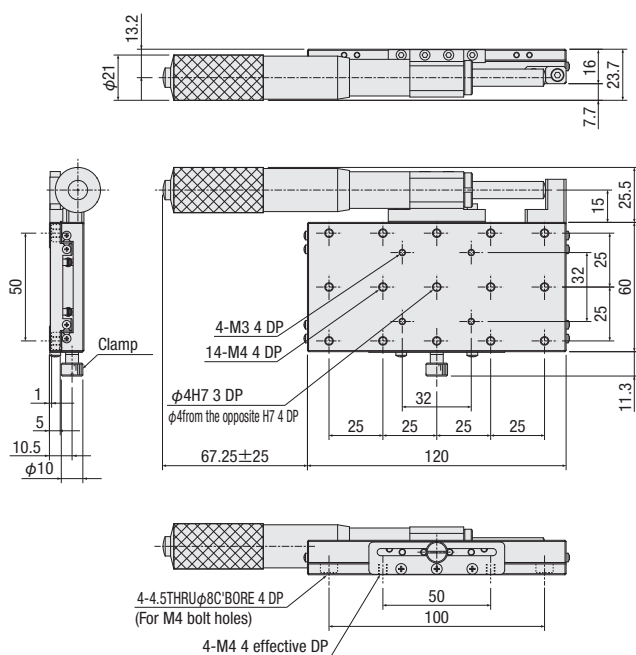
BSL16-4025C



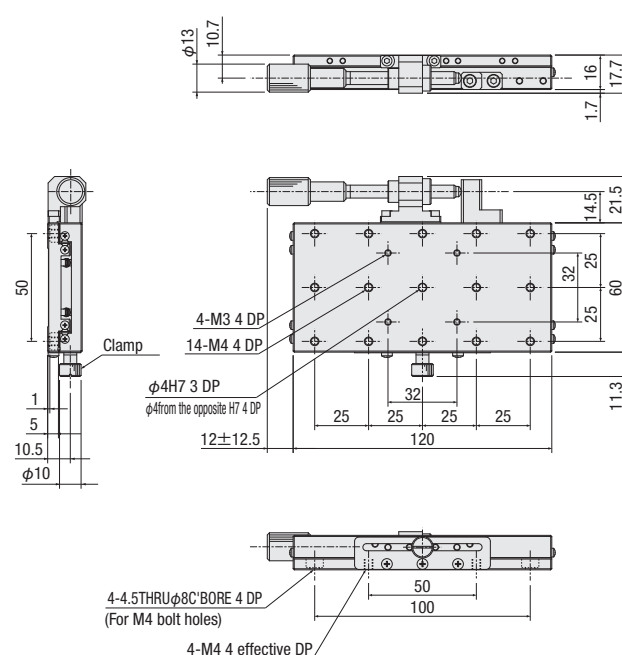
BSL16-4025CGP



BSL16-6050C



BSL16-6050CGP



X-axis SS Stage Operation Side Clamp Type □40/□50/□60/□70: BSS16

BSS16-60C7

[Micrometer]



BSS16-60C17

[Feeding screw]

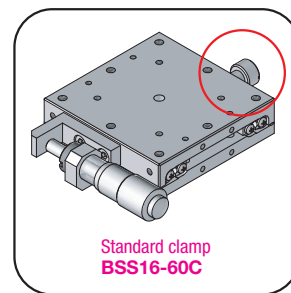
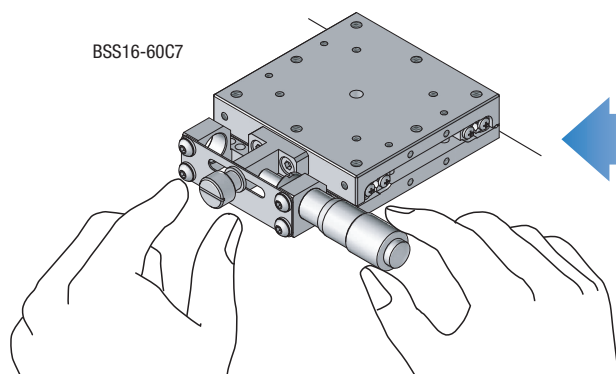


RoHS

- Improved operability
Put the clamp on the same side of micrometer or feeding knob. Available one way direction operating.

- Improve the holding power
Holding power is higher than standard.
* Not available grease option.

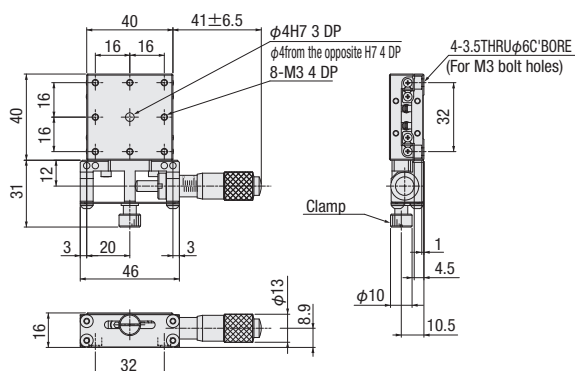
- Easy clamp operation
Operation panel side of micrometer and clamp are integrated. It improves the efficiency and space saving.



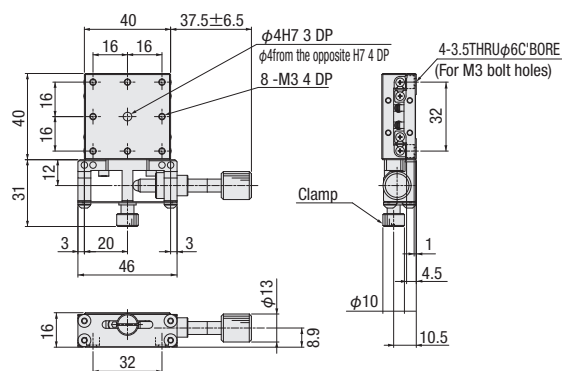
SPEC								
Model	BSS16-40C7	BSS16-40C17	BSS16-50C7	BSS16-50C17	BSS16-60C7	BSS16-60C17	BSS16-70C7	BSS16-70C17
(Opposite hand)	BSS16-40CR7	BSS16-40CR17	BSS16-50CR7	BSS16-50CR17	BSS16-60CR7	BSS16-60CR17	BSS16-70CR7	BSS16-70CR17
Stage table size	40×40mm		50×50mm		60×60mm		70×70mm	
Feeding position	Side							
Travel distance	±6.5mm							
Travel distance per rotation of feed screw	—	0.5mm	—	0.5mm	—	0.5mm	—	0.5mm
Minimum reading of micrometer	10μm	—	10μm	—	10μm	—	10μm	—
Load capacity	10kgf [98N]		15kgf [147N]		20kgf [196N]		23kgf [225.4N]	
Travel accuracy	Straightness	Within 1μm						
	Pitching	Within 25"						
	Yawing	Within 15"						
Allowable load for moment	Pitch	5.0N・m	6.8N・m		10.0N・m		13.8N・m	
	Yaw	5.0N・m	6.8N・m		10.0N・m		13.8N・m	
	Roll	5.0N・m	6.0N・m		9.0N・m		12.9N・m	
Moment rigidity	Pitch	0.42"/N・cm	0.15"/N・cm		0.08"/N・cm		0.06"/N・cm	
	Yaw	0.35"/N・cm	0.14"/N・cm		0.08"/N・cm		0.05"/N・cm	
	Roll	0.21"/N・cm	0.09"/N・cm		0.05"/N・cm		0.03"/N・cm	
Parallelism	Within 15μm							
Motion parallelism	Within 7μm							
Weight	0.22kg		0.32kg		0.4kg		0.6kg	
Main material—Surface finishing	Stainless—Electroless nickel plating							
Provided screws (Hex socket screws)	4 of M3—6				4 of M4—6			

Dimensional outline drawings

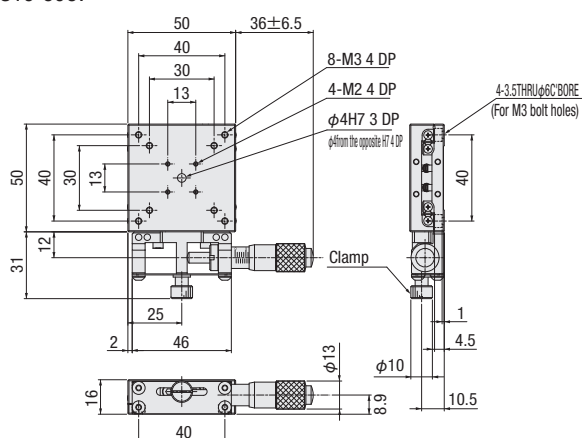
BSS16-40C7



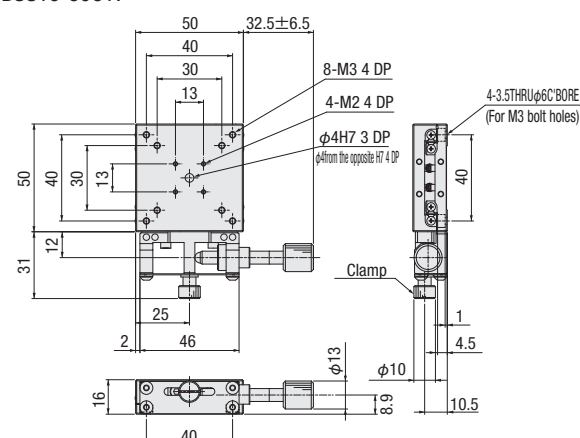
BSS16-40C17



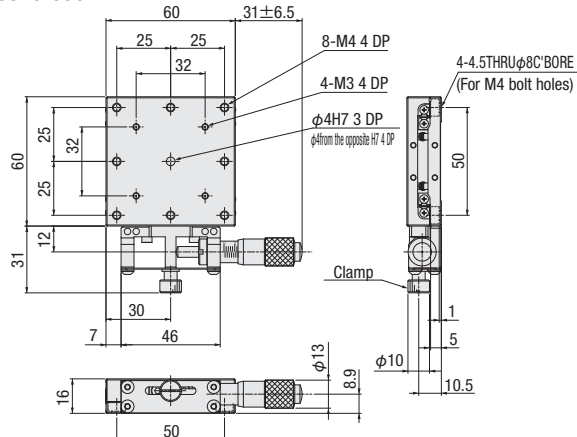
BSS16-50C7



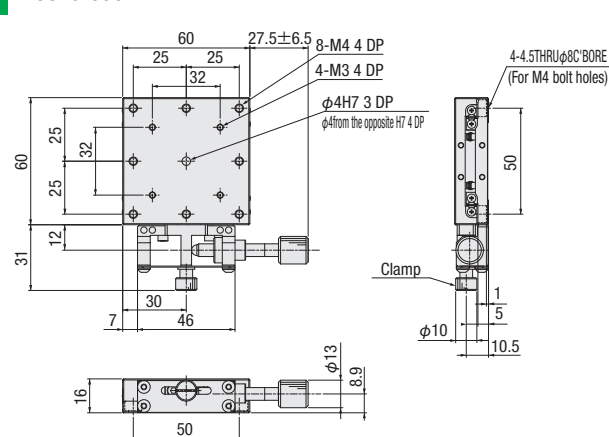
BSS16-50C17



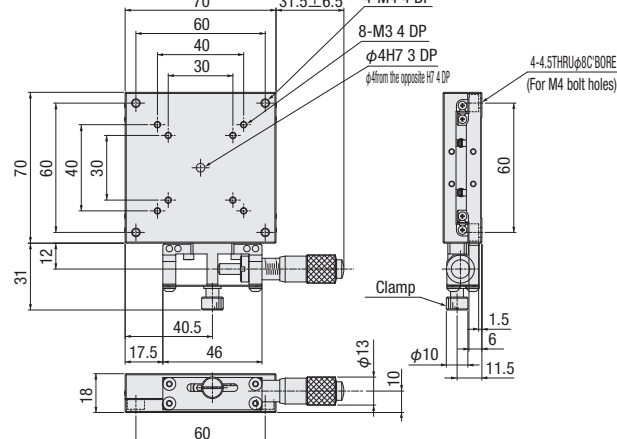
BSS16-60C7



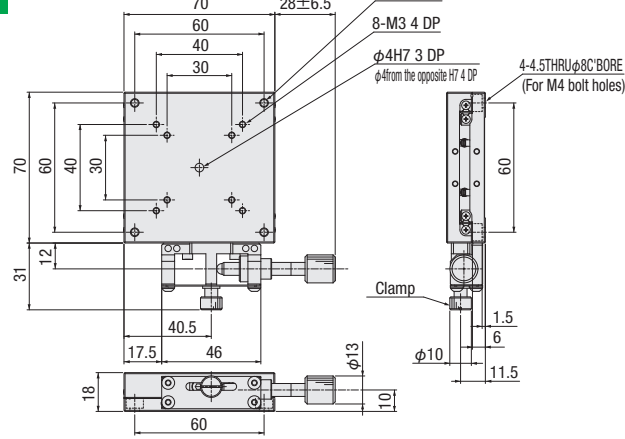
BSS16-60C17



BSS16-70C7



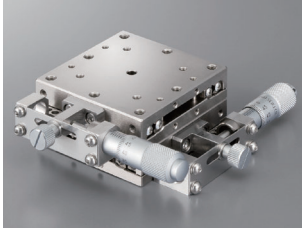
BSS16-70C17



XY-axis SS Stage Operation Side Clamp Type □40/□50/□60/□70: BSS26

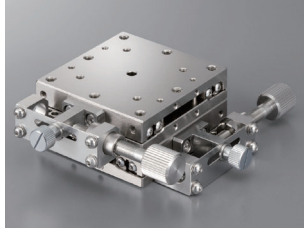
BSS26-60C7

[Micrometer]



BSS26-60C17

[Feeding screw]

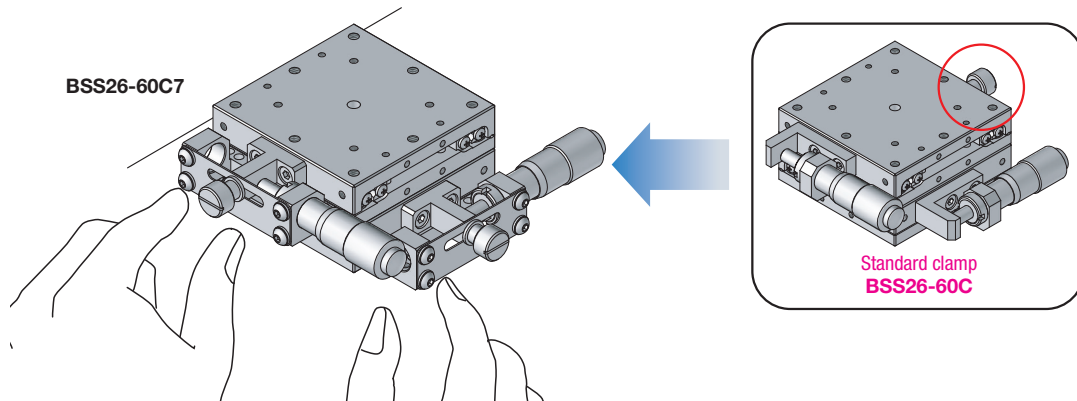


RoHS

- Improved operability
Put the clamp on the same side of micrometer or feeding knob. Available one way direction operating.

- Improve the holding power
Holding power is higher than standard.
* Not available grease option.

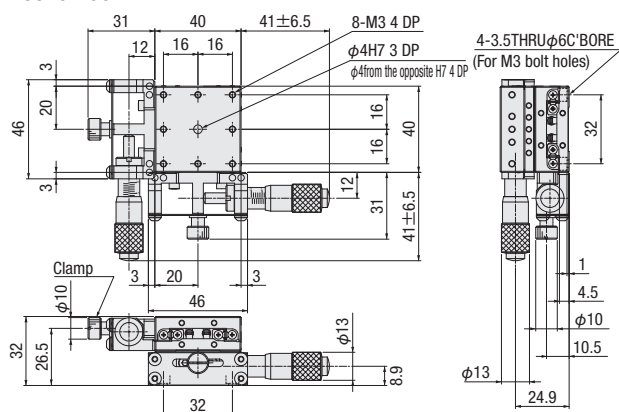
- Easy clamp operation
Operation panel side of micrometer and clamp are integrated. It improves the efficiency and space saving.



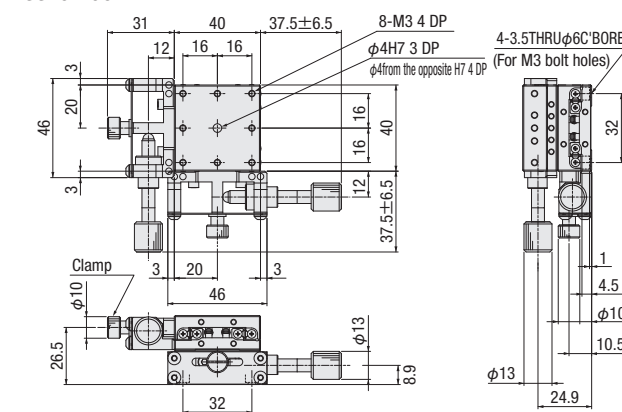
SPEC								
Model	BSS26-40C7	BSS26-40C17	BSS26-50C7	BSS26-50C17	BSS26-60C7	BSS26-60C17	BSS26-70C7	BSS26-70C17
(Opposite hand)	BSS26-40CR7	BSS26-40CR17	BSS26-50CR7	BSS26-50CR17	BSS26-60CR7	BSS26-60CR17	BSS26-70CR7	BSS26-70CR17
Stage table size	40×40mm		50×50mm		60×60mm		70×70mm	
Feeding position	Side							
Travel distance	±6.5mm							
Travel distance per rotation of feed screw	—	0.5mm	—	0.5mm	—	0.5mm	—	0.5mm
Minimum reading of micrometer	10μm	—	10μm	—	10μm	—	10μm	—
Load capacity	9.7kgf [95.2N]		14.7kgf [144.2N]		19.6kgf [192.1N]		22.4kgf [219.7N]	
Travel accuracy	Straightness	Within 1μm						
	Pitching	Within 25"						
	Yawing	Within 15"						
Allowable load for moment	Pitch	5.0N・m		6.0N・m		9.0N・m		12.9N・m
	Yaw	5.0N・m		6.8N・m		10.0N・m		13.8N・m
	Roll	5.0N・m		6.0N・m		9.0N・m		12.9N・m
Moment rigidity	Pitch	0.63"/N・cm		0.24"/N・cm		0.13"/N・cm		0.09"/N・cm
	Yaw	0.70"/N・cm		0.28"/N・cm		0.16"/N・cm		0.10"/N・cm
	Roll	0.63"/N・cm		0.24"/N・cm		0.13"/N・cm		0.09"/N・cm
Parallelism	Within 30μm							
Motion parallelism	Within 12μm							
Squareness	Within 10μm							
Weight	0.46kg		0.66kg		0.82kg		1.22kg	
Main material—Surface finishing	Stainless—Electroless nickel plating							
Provided screws (Hex socket screws)	4 of M3—6				4 of M4—6			

Dimensional outline drawings

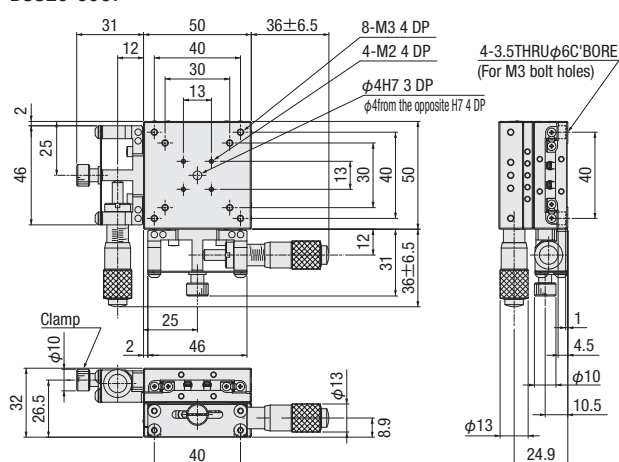
BSS26-40C7



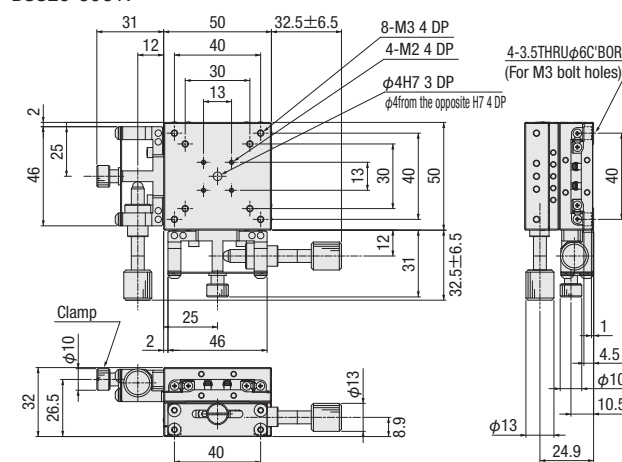
BSS26-40C17



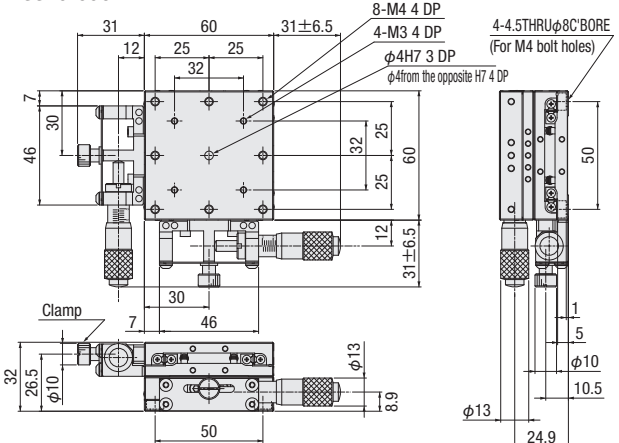
BSS26-50C7



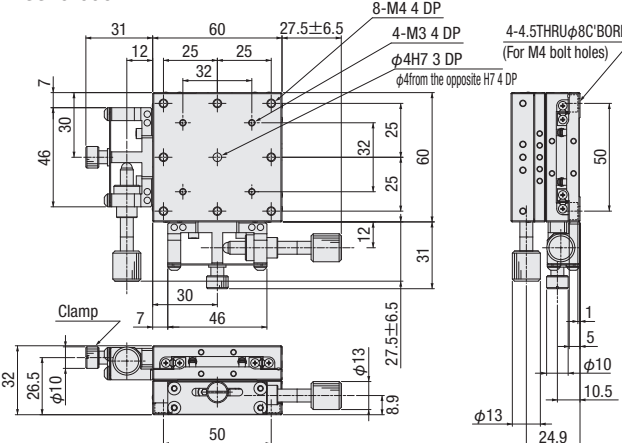
BSS26-50C17



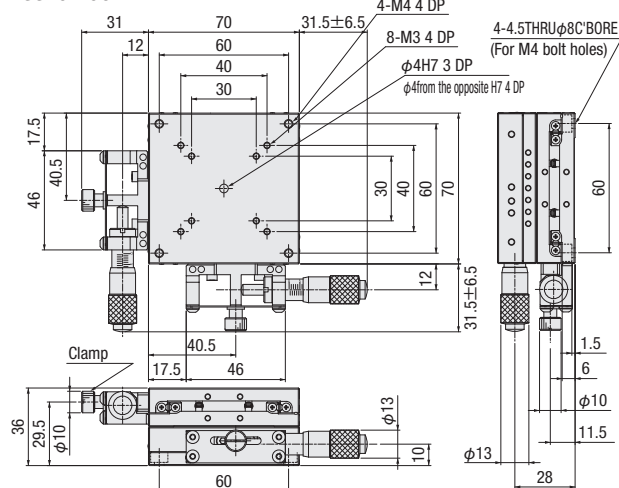
BSS26-60C7



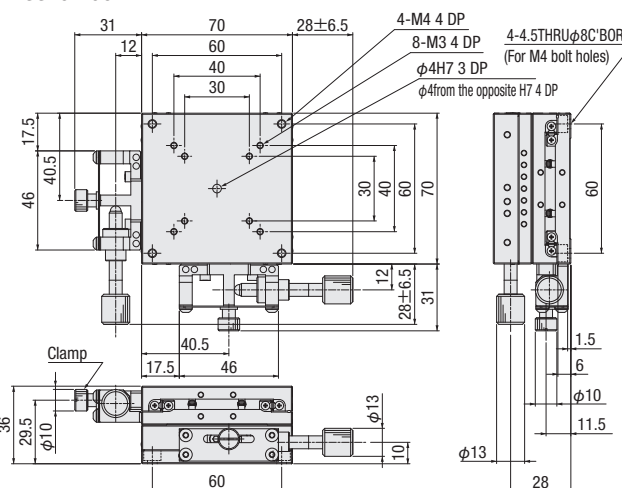
BSS26-60C17



BSS26-70C7



BSS26-70C17



Manual linear stage

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

2

036

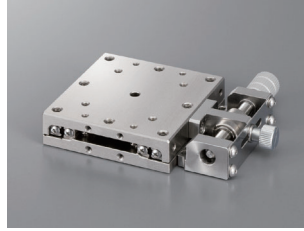
X•XY SS Stage Mounting Posture Multi-type □40/□60: BSS16/BSS26

RoHS

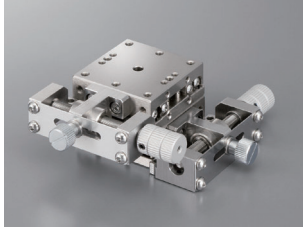
BSS16-40CEZ



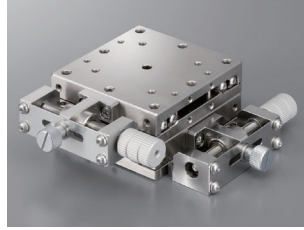
BSS16-60CEZ



BSS26-40CEZ

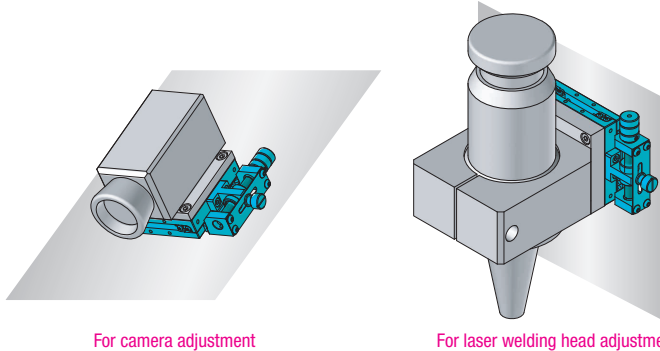


BSS26-60CEZ



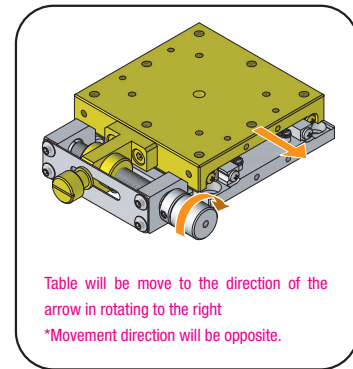
- Available mounting on every direction.
Feeding knob is integrated on SS stages.
Available any design you like.
- Improve operation
Control operation from the one-way direction.
* Not available grease option.

■ Examples of using Available vertical, horizontal and tilt conditions of variety



For camera adjustment

For laser welding head adjustment

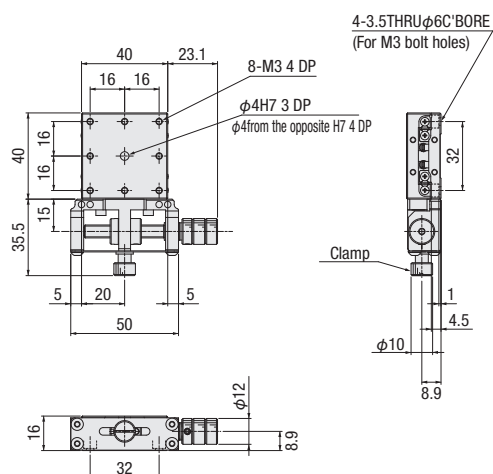


SPEC				
Axis	X-axis		XY-axis	
Model	BSS16-40CEZ	BSS16-60CEZ	BSS26-40CEZ	BSS26-60CEZ
(Opposite hand)	BSS16-40CREZ	BSS16-60CREZ	BSS26-40CREZ	BSS26-60CREZ
Stage table size	40×40mm	60×60mm	40×40mm	60×60mm
Feeding position	Side			
Travel distance	±6.5mm			
Travel distance per rotation of feed screw	0.5mm			
Minimum reading of micrometer	—			
Load capacity※	10kgf [98N]	20kgf [196N]	9.7kgf [95.2N]	19.6kgf [192.1]
Travel accuracy	Straightness	Within 1μm		
	Pitching	Within 35"		
	Yawing	Within 25"		
Allowable load for moment	Pitch	5.0N • m	10.0N • m	5.0N • m
	Yaw	5.0N • m	10.0N • m	10.0N • m
	Roll	5.0N • m	9.0N • m	9.0N • m
	Pitch	0.42"/N • cm	0.08"/N • cm	0.63"/N • cm
Moment rigidity	Yaw	0.35"/N • cm	0.08"/N • cm	0.70"/N • cm
	Roll	0.21"/N • cm	0.05"/N • cm	0.63"/N • cm
Parallelism	Within 15μm		Within 30μm	
Motion parallelism	Within 7μm		Within 12μm	
Squareness	—		Within 10μm	
Weight	0.22kg	0.42kg	0.46kg	0.84kg
Main material—Surface finishing	Stainless—Electroless nickel plating			
Provided screws (Hex socket screws)	4 of M3—6	4 of M4—6	4 of M3—6	4 of M4—6

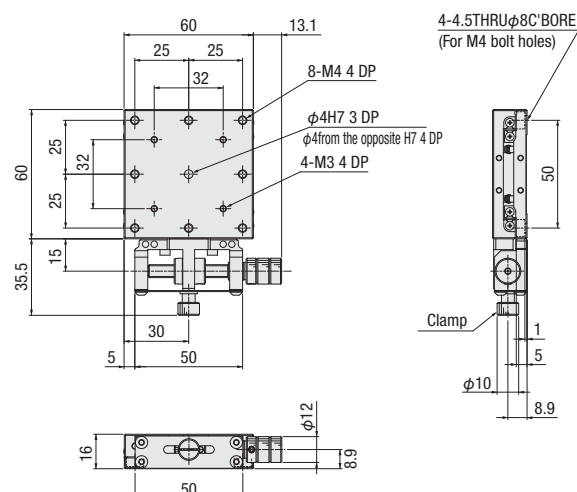
* The value shows horizontal load capacity[vertical load capacity 5kgf (both of 40×40, 60×60mm)]

Dimensional outline drawings

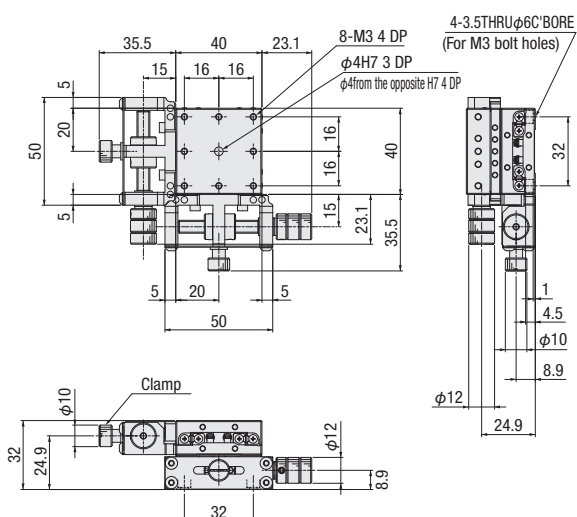
BSS16-40CEZ



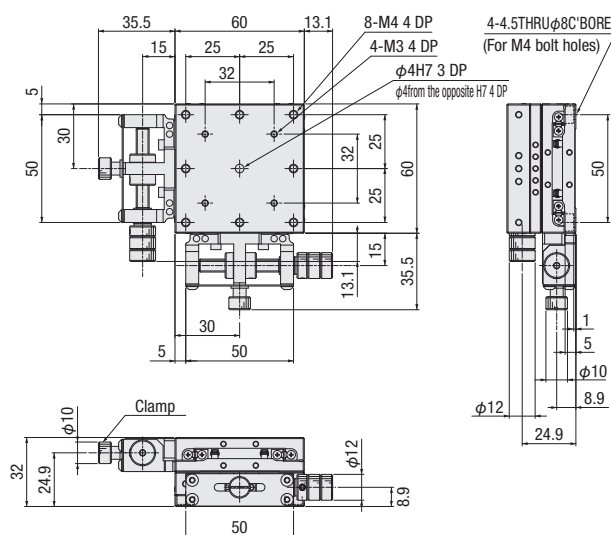
BSS16-60CEZ



BSS26-40CEZ



BSS26-60CEZ



Manual linear stage

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

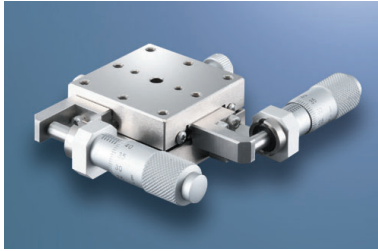
☐ Other

2

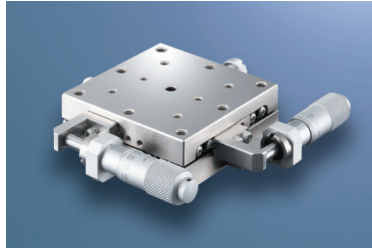
038

Thin Type XY-axis Linear Ball Guide (SS) Stage □40~□70: BSS23-40/50/60/70

BSS23-40C



BSS23-60C



【Features】

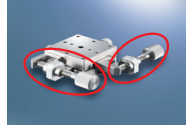
- X and Y-axis integrated structure stage.
- Reduce 10mm of thickness in comparison with XY-axis combination.

RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

Cost reduction

Feeding screw

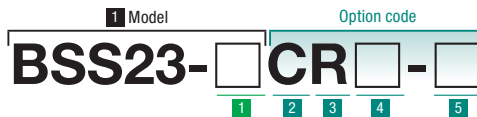


Prevention error • Space-saving

Feeding screw hexagonal wrench operation



*Image is for X-axis.



Select the option code as below.

1 Stage table size

40	40×40mm
50	50×50mm
60	60×60mm
70	70×70mm

Specification	2 Feeding position		3 Operating position		4 Feeding type (Not available feeding position D when selecting)						5 Grease specification		
	Standard micrometer	Coarse-fine micrometer	Standard	Opposite attached micrometer	Standard micrometer (Knob) (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)	Feeding screw (Knob) (P=0.25mm)	Feeding screw (Knob) (P=1.0mm)	Feeding screw (Hex wrench) (P=0.5mm)	Feeding screw (Hex wrench) (P=0.25mm)	Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
	A 	D 										Feeding position Not available D	Feeding position Not available D
Code	A/C Center/Side	D Side	Blank	R	Blank	1	FP	LP	SH	FH	Blank	J	L

Linear Ball

Cross Roller

Dovetail

□25

□30

□40

□50

□60

□70

□80

□100

□120

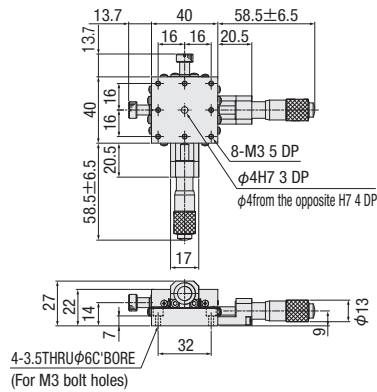
Other

SPEC

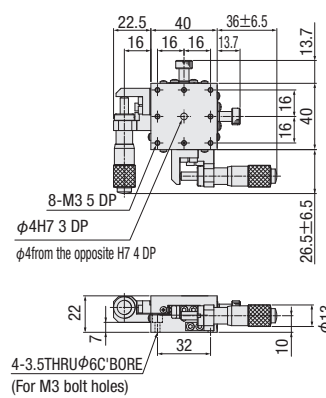
SPEC																	
Model	BSS23-40A		BSS23-40C		BSS23-50A		BSS23-50C		BSS23-60A		BSS23-60C		BSS23-70A		BSS23-70C		
(Opposite hand)	BSS23-40AR		BSS23-40CR		BSS23-50AR		BSS23-50CR		BSS23-60AR		BSS23-60CR		BSS23-70AR		BSS23-70CR		
Stage table size	40×40mm				50×50mm				60×60mm				70×70mm				
Feeding position	Center		Side		Center		Side		Center		Side		Center		Side		
Travel distance	±6.5mm																
Minimum reading of micrometer	10μm																
Guide	Linear ball guide																
Load capacity	9.0kgf [88.2N]				14.7kgf [144.1N]				19kgf [186.2N]				22.4kgf [219.5N]				
Travel accuracy	Straightness	Within 3μm															
	Pitching	Within 40"															
	Yawing	Within 20"															
Allowable load for moment	Pitch	4.5N・m				4.5N・m				9.0N・m				12.4N・m			
	Yaw	5.0N・m				5.4N・m				8.1N・m				11.6N・m			
	Roll	4.5N・m				4.5N・m				9.0N・m				12.4N・m			
Moment rigidity	Pitch	0.80"/N・cm				0.77"/N・cm				0.21"/N・cm				0.12"/N・cm			
	Yaw	0.68"/N・cm				0.34"/N・cm				0.19"/N・cm				0.09"/N・cm			
	Roll	0.85"/N・cm				0.71"/N・cm				0.20"/N・cm				0.12"/N・cm			
Parallelism	Within 30μm																
Motion parallelism	Within 12μm																
Weight	0.34kg				0.50kg				0.64kg				0.92kg				
Main material—Surface finishing	Stainless—Electroless nickel plating																
Provided screws (Hex socket screws)	4 of M3—10								4 of M4—10								

Dimensional outline drawings

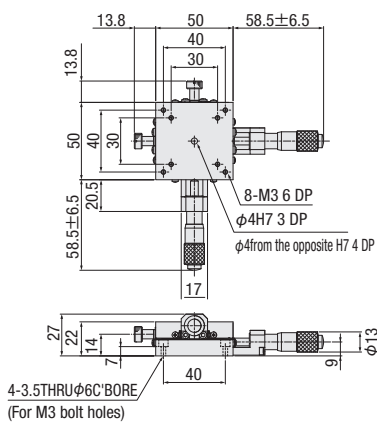
BSS23-40A



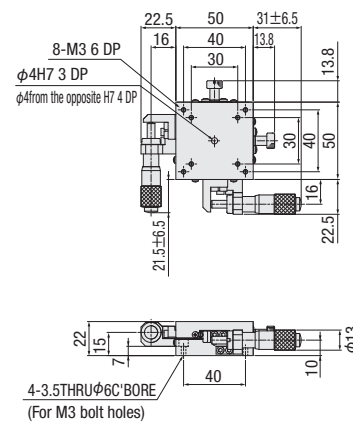
BSS23-40C



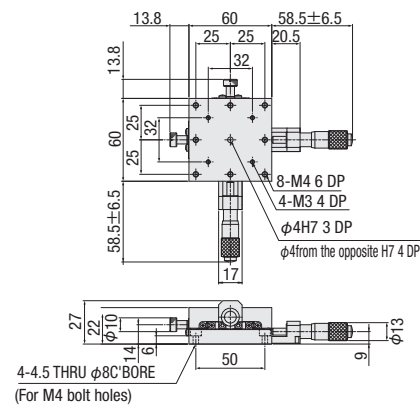
BSS23-50A



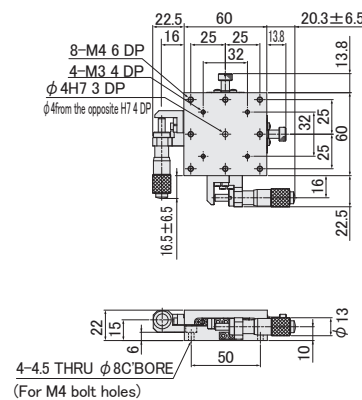
BSS23-50C



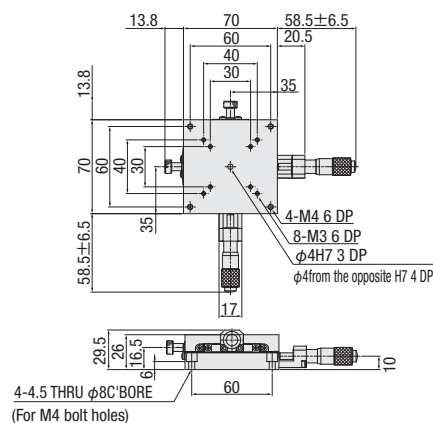
BSS23-60A



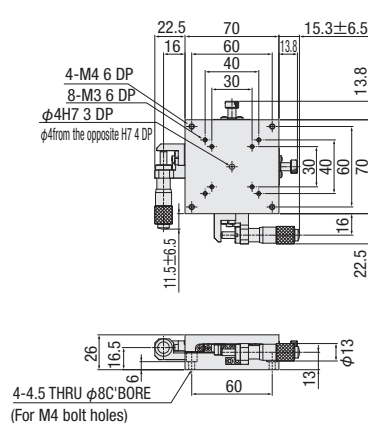
BSS23-60C



BSS23-70A



BSS23-70C



Manual linear stage

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

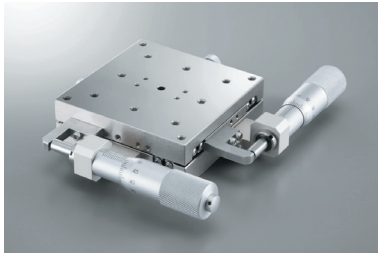
Other

2

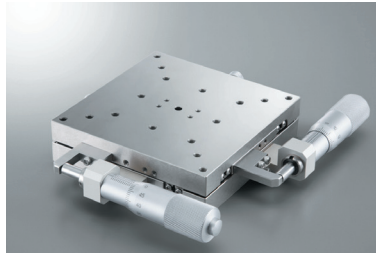
040

Thin Type XY-axis Linear Ball Guide (SS) Stage □80/□100: BSS23-80/100

BSS23-80C



BSS23-100C



【Features】

- X and Y-axis integrated structure stage.
- Reduce 14mm of thickness in comparison with XY-axis combination.

RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

Precise positioning

Coarse-fine micrometer



Image is for X-axis.

Cost reduction

Feeding screw



Image is for X-axis.

1 Model Option code

BSS23- **CR** -

1 2 3 4 5

Select the option code as below.

1 Stage table size

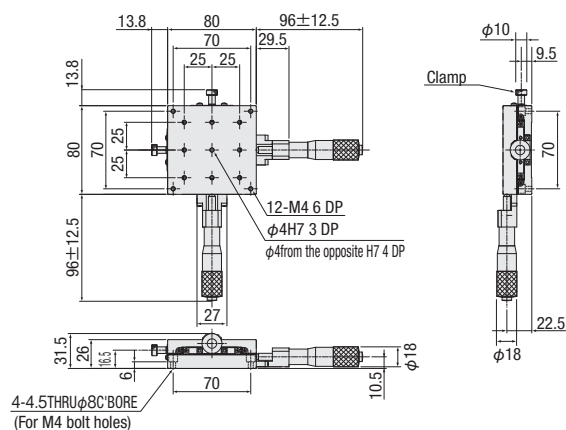
80	80×80mm
100	100×100mm

	2 Feeding position		3 Operating position		4 Feeding type (Not available feeding position D when selecting)			5 Grease specification		
Specification	Standard micrometer A C	Coarse-fine micrometer D Travel distance ±0.5mm Minimum reading 0.5μm	Standard	Opposite attached micrometer	Standard micrometer (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)	Feeding screw (Knob) (P=1.0mm)	Standard grease	Clean environment grease AFF Feeding position Not available D	Grease for the vacuum FOMBLIN Feeding position Not available D
Code	A/C Center/Side	D Side	Blank	R	Blank	TP	GP	Blank	J	L

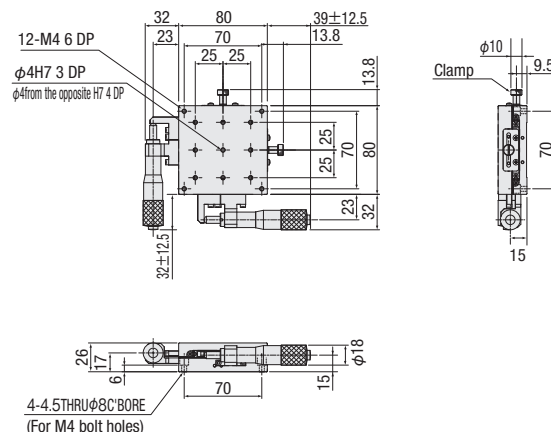
SPEC				
Model	BSS23-80A BSS23-80AR		BSS23-80C BSS23-80CR	
(Opposite hand)				
Stage table size	80×80mm		100×100mm	
Feeding position	Center		Side	
Travel distance			±12.5mm	
Minimum reading of micrometer			10μm	
Guide			Linear ball guide	
Load capacity	26.1kgf [255.8N]		33.6kgf [329.3N]	
Travel accuracy	Straightness		Within 3μm	
	Pitching		Within 40"	
	Yawing		Within 20"	
Allowable load for moment	Pitch		16.4N · m	
	Yaw		15.9N · m	
	Roll		16.4N · m	
Moment rigidity	Pitch		0.09"/N · cm	
	Yaw		0.06"/N · cm	
	Roll		0.08"/N · cm	
Parallelism			Within 40μm	
Motion parallelism			Within 15μm	
Weight	1.32kg		1.98kg	
Main material—Surface finishing			Stainless—Electroless nickel plating	
Provided screws (Hex socket screws)			4 of M4—10	

Dimensional outline drawings

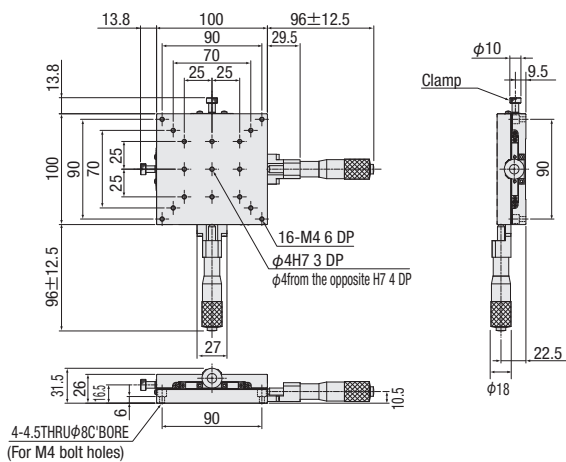
BSS23-80A



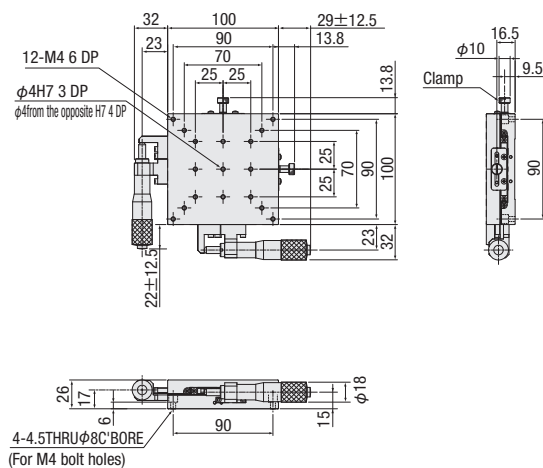
BSS23-80C



BSS23-100A



BSS23-100C



Manual linear stage

X

XY

Z

Horizontal
Z

XZ

Horizontal
XZ

XYZ

Horizontal

References

Unit

Accessories

Linear Ball

Cross Roller

Dovetail

25

30

40

50

60

70

80

100

120

Other

2

042

XY-axis Linear Ball Guide (SS) Stage □25: BSS26-25/BSB26-25

BSS26-25C



BSB26-25C



RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

Cost reduction

Feeding screw



Prevention error • Space-saving

Feeding screw hexagonal wrench operation



*Image is for X-axis.

Configuration

Model	BSS (BSB) 26-	25A	25C	Reference page
X,Y	BSS (BSB) 16-	25A	25C	▶P.2-017~

* Combination is model of BSS or BSB.

* R (opposite-hand) means configuration for X or Y axis of R.

1 Model

BSS26

BSB26-25CR

Option code

2 3 4 5 Select the option code as below.

	2 Feeding position		4 Feeding type						5 Grease specification		
Specification	Standard micrometer	Standard	Opposite attached micrometer	Standard micrometer (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)	Feeding screw (Knob) (P=0.25mm)	Feeding screw (Hex wrench) (P=0.5mm)	Feeding screw (Hex wrench) (P=0.25mm)	Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
	A 				 *Refer to below in the case of BSB						
	C 										
Code	A/C Center/Side	Blank	R	Blank	1	FP	SH	FH	Blank	J	L

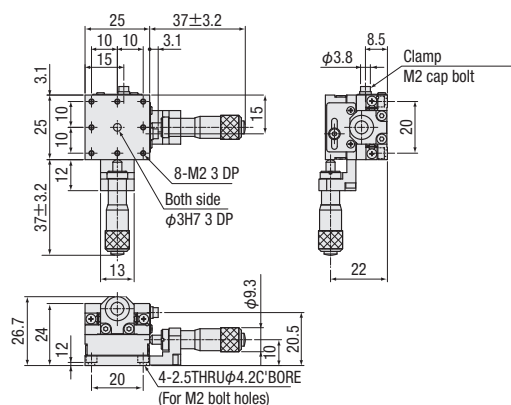
⚠ A color of the parts may be silver due to the option model.

SPEC				
Model	BSS26-25A	BSS26-25C	BSB26-25A	BSB26-25C
(Opposite hand)	BSS26-25AR	BSS26-25CR	BSB26-25AR	BSB26-25CR
Stage table size	25×25mm			
Feeding position	Center	Side	Center	Side
Travel distance	±3.2mm			
Minimum reading of micrometer	10μm			
Guide	Linear ball guide			
Load capacity	3.9kgf [38.2N]			
Travel accuracy	Straightness	Within 3μm		
	Pitching	Within 30"		
	Yawing	Within 25"		
Allowable load for moment	Pitch	2.0N・m		
	Yaw	2.0N・m		
	Roll	3.5N・m		
Moment rigidity	Pitch	3.0"/N・cm		
	Yaw	2.2"/N・cm		
	Roll	2.2"/N・cm		
Parallelism	Within 30μm			
Motion parallelism	Within 10μm			
Squareness	Within 10μm			
Weight	0.14kg			
Main material—Surface finishing	Stainless—Electroless nickel plating		Stainless—Low temperature black chrome plating	
Provided screws (Hex socket screws)	4 of M2—4			

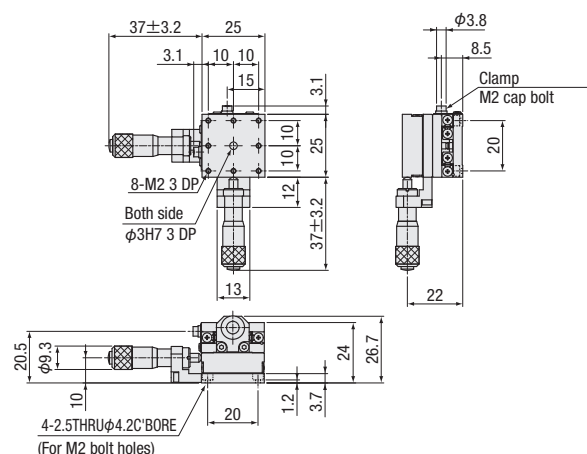
Dimensional outline drawings

📍 Center bore tolerance H7 will be H8 in BSB.

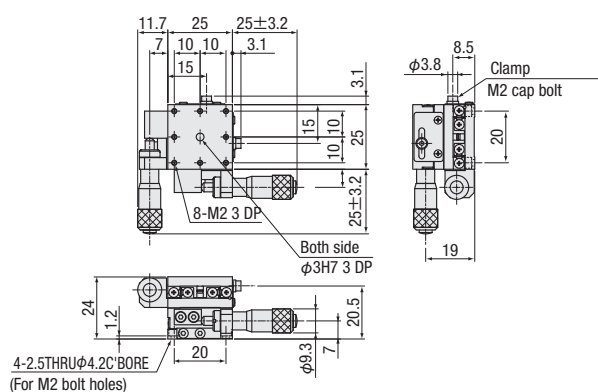
BSS26-25A/BSB26-25A



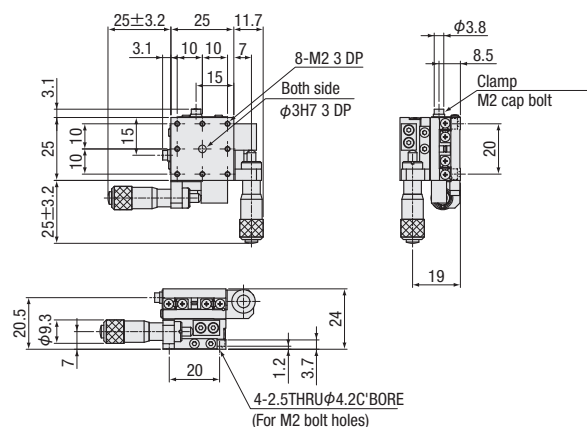
BSS26-25AR/BSB26-25AR



BSS26-25C/BSB26-25C



BSS26-25CR/BSB26-25CR



Manual linear stage

X

XY

Z

Horizontal
Z

XZ

Horizontal
XZ

XYZ

Horizontal

Goniometer

Rotary

Unit

Accessories

Linear Ball

Cross Roller

Dovetail

25

30

40

50

60

70

80

100

120

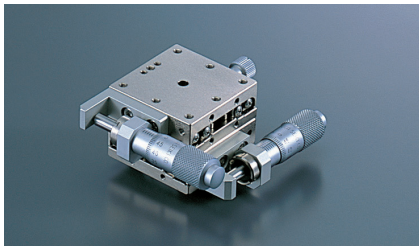
Other

2

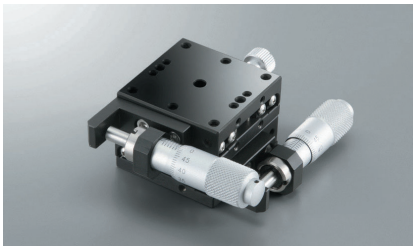
046

XY-axis Linear Ball Guide (SS) Stage □40/□50: BSS26-40/50/BSB26-40

BSS26-40C



BSB26-40C



Low prices

Linear ball guide
BYT series

P.2-043~

RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. P.2-009~

Precise positioning

Coarse-fine micrometer



*Minimum scale 0.5μm.
*Image is for X-axis.

Cost reduction

Feeding screw



Prevention error • Space-saving

Feeding screw hexagonal wrench operation



*Image is for X-axis.

Reduce the reading time

Degimatic micrometer



*Image is for X-axis □80.

Improve the fixing accuracy

Disk clamp



*Image is for X-axis.

Improve the holding power

Opposite clamp



*Image is for X-axis.

Configuration

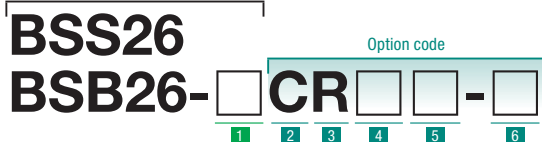
Model	BSS (BSB) 26-	40A	40C	Reference page	50A	50C	Reference page
X,Y	BSS (BSB) 16-	40A	40C	P.2-019~	50A	50C	P.2-021~

* Combination is model of BSS or BSB.

* BSB is only for 40.

* R (opposite-hand) means configuration for X or Y axis of R.

1 Model



Select the option code as below.

1 Stage table size

40*	40×40mm
50	50×50mm

*BSB is only for □40

6 Grease specification

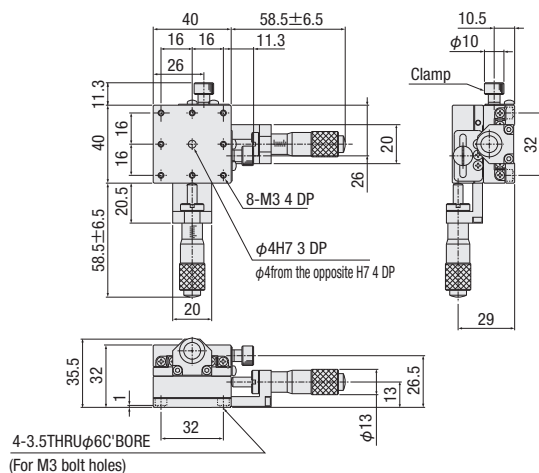
Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
Feeding position No B/D No feeding type 4.	Feeding position No B/D No feeding type 4.	Feeding position No B/D No feeding type 4.
Blank	J	L

	2 Feeding position	3 Operating position	4 Feeding type (Not available feeding position B/D when selecting)	5 Clamp type
Specification	Standard micrometer A Coarse-fine micrometer B Standard C Opposite attached micrometer D Minimum reading 0.5μm	Standard Opposite attached micrometer R	Standard micrometer (P=0.5mm) Feeding screw (Knob) (P=0.5mm) Feeding screw (Knob) (P=0.25mm) Feeding screw (Knob) (P=1.0mm) Feeding screw (Hex wrench) (P=0.5mm) Feeding screw (Hex wrench) (P=0.25mm) Degimatic Micrometer Only feeding position C Not available combination use R	Standard clamp Disk clamp Opposite clamp Apply only feeding position C - CR-D-DR Not available combination use feeding type 4 Apply only feeding position C - CR and feeding type Blank - FH Apply only SH
Code	A/C Center/Side B/D Center/Side	Blank R	Blank 1 FP LP SH FH 4	Blank 5 6

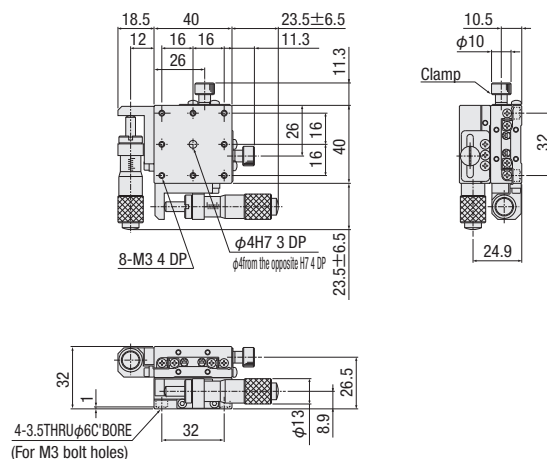
A color of the parts may be silver due to the option model.

SPEC								
Model	BSS26-40A		BSS26-40C	BSS26-50A	BSS26-50C	BSB26-40A	BSB26-40C	
(Opposite hand)	BSS26-40AR		BSS26-40CR	BSS26-50AR	BSS26-50CR	BSB26-40AR	BSB26-40CR	
Stage table size	40×40mm			50×50mm		40×40mm		
Feeding position	Center		Side	Center		Side	Center	Side
Travel distance	±6.5mm							
Minimum reading of micrometer	10μm							
Guide	Linear ball guide							
Load capacity	9.7kgf [95.1N]			14.7kgf [144.1N]		9.7kgf [95.1N]		
Travel accuracy	Straightness	Within 1μm				Within 3μm		
	Pitching	Within 25"						
	Yawing	Within 15"						
Allowable load for moment	Pitch	5.0N・m		6.0N・m		5.0N・m		
	Yaw	5.0N・m		6.8N・m		5.0N・m		
	Roll	5.0N・m		6.0N・m		5.0N・m		
Moment rigidity	Pitch	0.63"/N・cm		0.24"/N・cm		0.63"/N・cm		
	Yaw	0.70"/N・cm		0.28"/N・cm		0.70"/N・cm		
	Roll	0.63"/N・cm		0.24"/N・cm		0.63"/N・cm		
Parallelism	Within 30μm							
Motion parallelism	Within 12μm							
Squareness	Within 10μm							
Weight	0.46kg			0.56kg		0.46kg		
Main material—Surface finishing	Stainless—Electroless nickel plating					Stainless—Low temperature black chrome plating		
Provided screws (Hex socket screws)	4 of M3—6							

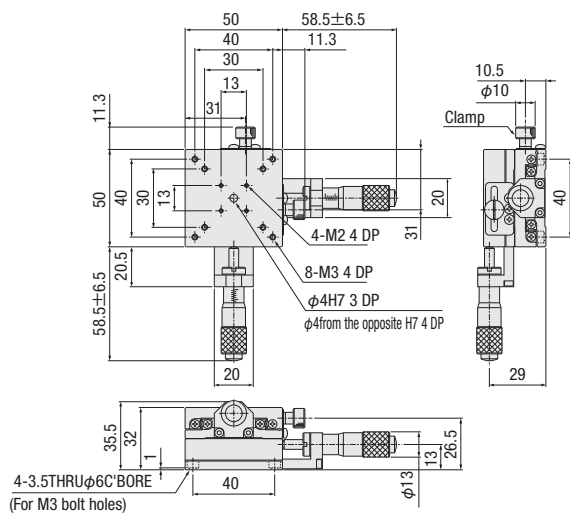
BSS26-40A/BSB26-40A



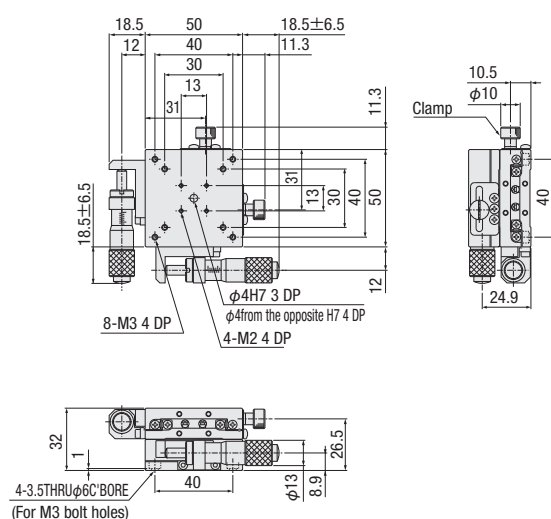
BSS26-40C/BSB26-40C



BSS26-50A



BSS26-50C



X

XY

Z

Horizontal
Z

XZ

Horizontal
XZ

XYZ

Horizontal

Goniometer

Rotary

Unit

Accessories

Linear Ball

Cross Roller

Dovetail

25

30

40

50

60

70

80

100

120

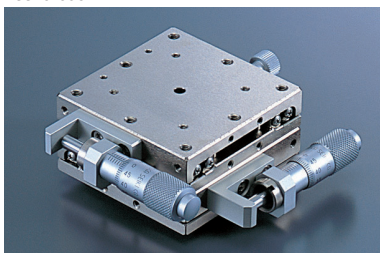
Other

2

048

XY-axis Linear Ball Guide (SS) Stage □60/□70: BSS26-60/70/BSB26-60

BSS26-60C



BSB26-60C



Low prices

Linear ball guide
BYT series



▶ P.2-043~

RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶ P.2-009

Precise positioning

Coarse-fine micrometer



*Minimum scale 0.5μm.
*Image is for X-axis.

Cost reduction

Feeding screw



Prevention error • Space-saving

Feeding screw hexagonal wrench operation



*Image is for X-axis.

Reduce the reading time

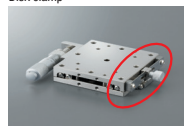
Degimatic micrometer



※Image is for X-axis □80.

Improve the fixing accuracy

Disk clamp



*Image is for X-axis.

Improve the holding power

Opposite clamp



*Image is for X-axis.

Configuration

Model	BSS (BSB) 26-	60A	60C	Reference page	70A	70C	Reference page
X,Y	BSS (BSB) 16-	60A	60C	▶ P.2-023~	70A	70C	▶ P.2-025~

* Combination is model of BSS or BSB.

* BSB is only for 60.

* R (opposite-hand) means configuration for X or Y axis of R.

1 Model

BSS26
BSB26-

Option code



Select the option code as below.

1 Stage table size

60*	60×60mm
70	70×70mm

*BSB is only □60

6 Grease specification

Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
Feeding position No B/D No feeding type 4.	Feeding position No B/D No feeding type 4.	Feeding position No B/D No feeding type 4.
Blank	J	L

	2 Feeding position	3 Operating position	4 Feeding type (Not available feeding position B/D when selecting)	5 Clamp type
Specification	Standard micrometer Coarse-fine micrometer Standard Opposite attached micrometer	Standard Opposite attached micrometer	Standard micrometer (P=0.5mm) Feeding screw (Knob) (P=0.5mm) Feeding screw (Knob) (P=0.25mm) Feeding screw (Hex wrench) (P=1.0mm) Feeding screw (Hex wrench) (P=0.5mm) Feeding screw (Hex wrench) (P=0.25mm) Degimatic Micrometer	Standard clamp Disk clamp Opposite clamp
Code	A/C Center/Side B/D Center/Side	Blank R	Blank 1 FP LP SH FH 4	Blank 5 6

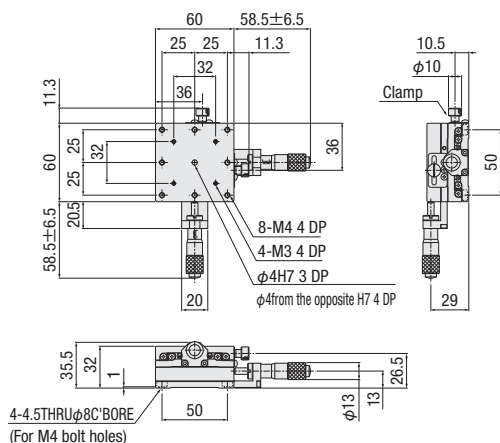
⚠ A color of the parts may be silver due to the option model.

SPEC								
Model	BSS26-60A		BSS26-60C	BSS26-70A	BSS26-70C	BSB26-60A	BSB26-60C	
(Opposite hand)	BSS26-60AR		BSS26-60CR	BSS26-70AR	BSS26-70CR	BSB26-60AR	BSB26-60CR	
Stage table size	60×60mm			70×70mm		60×60mm		
Feeding position	Center		Side	Center		Side	Center	Side
Travel distance	±6.5mm							
Minimum reading of micrometer	10μm							
Guide	Linear ball guide							
Load capacity	19.6kgf [192.1N]			22.4kgf [219.5N]		19.6kgf [192.1N]		
Travel accuracy	Straightness	Within 1μm				Within 3μm		
	Pitching	Within 25"						
	Yawing	Within 15"						
Allowable load for moment	Pitch	9.0N・m		12.9N・m		9.0N・m		
	Yaw	10.0N・m		13.8N・m		10.0N・m		
	Roll	9.0N・m		12.9N・m		9.0N・m		
Moment rigidity	Pitch	0.13"/N・cm		0.09"/N・cm		0.13"/N・cm		
	Yaw	0.16"/N・cm		0.10"/N・cm		0.16"/N・cm		
	Roll	0.13"/N・cm		0.09"/N・cm		0.13"/N・cm		
Parallelism				Within 30μm				
Motion parallelism				Within 12μm				
Squareness				Within 10μm				
Weight	0.8kg			1.16kg		0.8kg		
Main material—Surface finishing	Stainless—Electroless nickel plating					Stainless—Low temperature black chrome plating		
Provided screws (Hex socket screws)	4 of M4—6							

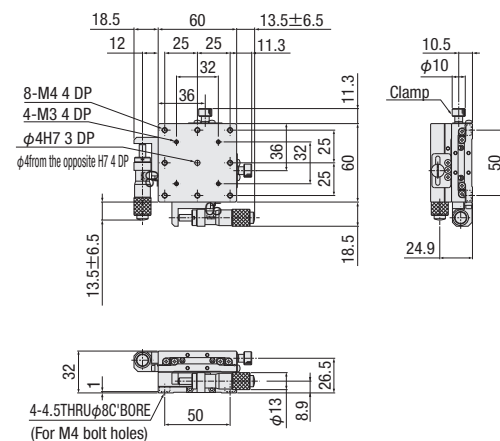
Dimensional outline drawings

❗ The center hole tolerance H8 for BSB.

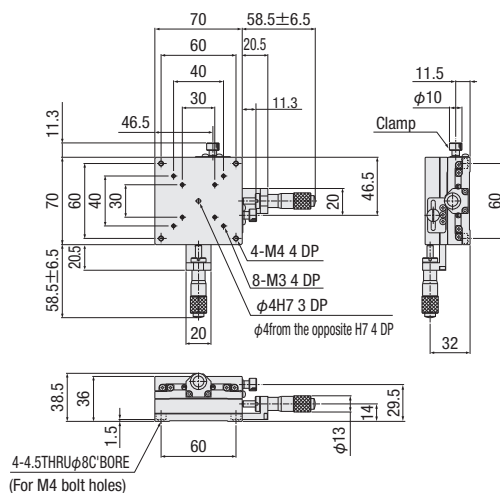
BSS26-60A/BSB26-60A



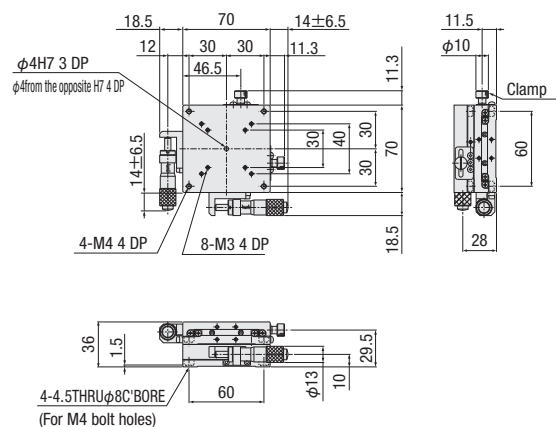
BSS26-60C/BSB26-60C



BSS26-70A



BSS26-70C



Manual linear stage

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

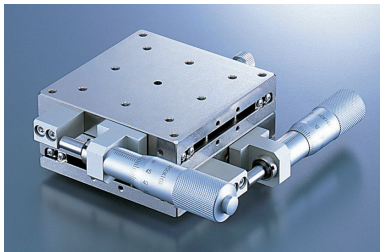
Other

2

050

XY-axis Linear Ball Guide (SS) Stage □80/□100: BSS26-80/100/BSB26-80

BSS26-80C



BSB26-80C



RoHS

Optional sample *The photo is for illustrative purpose only.
Please refer to optional introduction pages for details. ▶P.2-009~

Precise positioning

Coarse-fine micrometer



*Minimum scale 0.5μm.
*Stroke is ±6.5mm.
*Image is for X-axis.

Cost reduction

Feeding screw



Reduce the reading time

Degimatic micrometer



*Image is for X-axis.

Improve the fixing accuracy

Disk clamp



*Image is for X-axis.

Configuration

Model	BSS (BSB) 26-	80A	80C	Reference page	100A	100C	Reference page
X,Y	BSS (BSB) 16-	80A	80C	▶P.2-027~	100A	100C	▶P.2-029~

* Combination is model of BSS or BSB.
* BSB is only for 80.
* R (opposite-hand) means configuration for X or Y axis of R.

1 Model

BSS26
BSB26-

Option code



Select the option code as below.

1 Stage table size

80*	80×80mm
100	100×100mm

*BSB is only □80

6 Grease specification

Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
Blank	J	L

	2 Feeding position		3 Operating position		4 Feeding type (Not available feeding position B/D when selecting)				5 Clamp type	
Specification	Standard micrometer A	Coarse-fine micrometer B	Standard C	Opposite attached micrometer D	Standard micrometer (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)	Feeding screw (Knob) (P=1.0mm)	Degimatic Micrometer	Standard clamp	Disk clamp
Code	A/C Center/Side	B/D Center/Side	Blank	R	Blank	TP	GP	4	Blank	5

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

SPEC								
Model	BSS26-80A		BSS26-80C	BSS26-100A	BSS26-100C	BSB26-80A	BSB26-80C	
(Opposite hand)	BSS26-80AR		BSS26-80CR	BSS26-100AR	BSS26-100CR	BSB26-80AR	BSB26-80CR	
Stage table size	80×80mm			100×100mm		80×80mm		
Feeding position	Center		Side	Center		Side	Center	Side
Travel distance	±12.5mm							
Minimum reading of micrometer	10μm							
Guide	Linear ball guide							
Load capacity	26.1kgf [255.8N]			33.6kgf [329.3N]		26.1kgf [255.8N]		
Travel accuracy	Straightness	Within 3μm						
	Pitching	Within 25"						
	Yawing	Within 15"						
Allowable load for moment	Pitch	17.7N・m		30.7N・m		17.7N・m		
	Yaw	18.2N・m		31.8N・m		18.2N・m		
	Roll	17.7N・m		30.7N・m		17.7N・m		
Moment rigidity	Pitch	0.06"/N・cm		0.03"/N・cm		0.06"/N・cm		
	Yaw	0.08"/N・cm		0.04"/N・cm		0.08"/N・cm		
	Roll	0.06"/N・cm		0.03"/N・cm		0.06"/N・cm		
Parallelism	Within 40μm							
Motion parallelism	Within 15μm							
Squareness	Within 10μm							
Weight	1.8kg			2.66kg		1.8kg		
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



PART
COMMUNITY

CAD
DATA

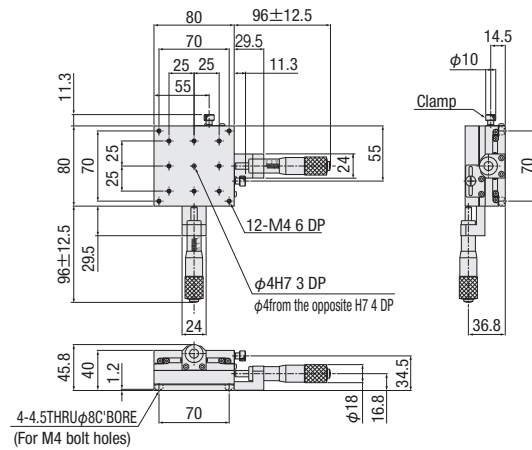
SURUGA
SEIKI

CAD
3D・2D

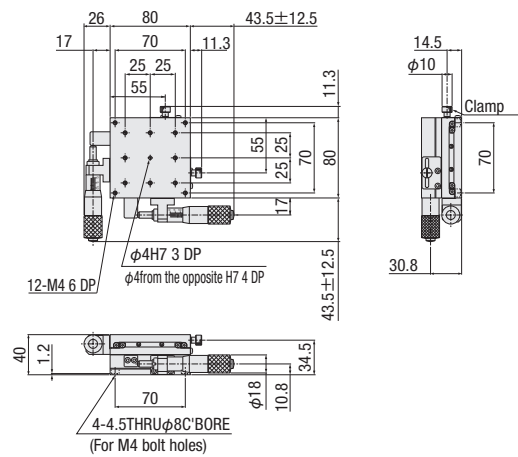
Dimensional outline drawings

The center hole tolerance H8 for BSB.

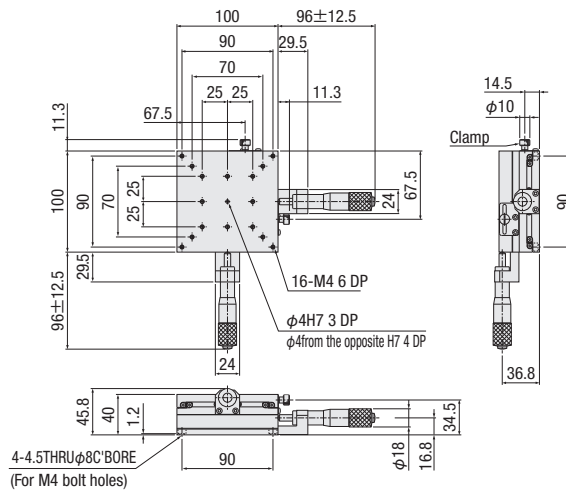
BSS26-80A/BSB26-80A



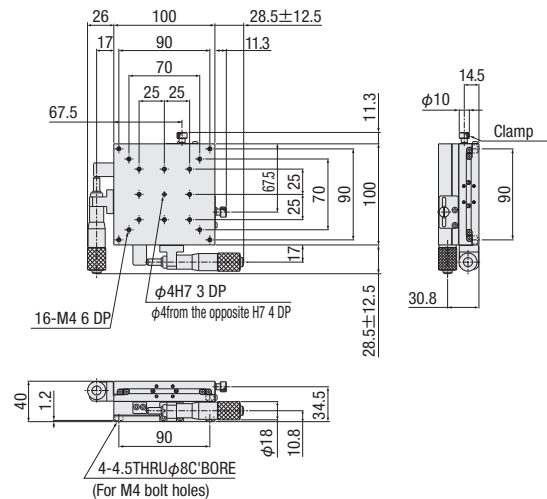
BSS26-80C/BSB26-80C



BSS26-100A



BSS26-100C



Manual linear stage

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

2

052

Z-axis Linear Ball Guide (SS) Stage □25~□80: BSS36/BSB36 Series

BSS36-60A



BSB36-60A



Low prices Linear ball guide
BZT series

P.2-053~

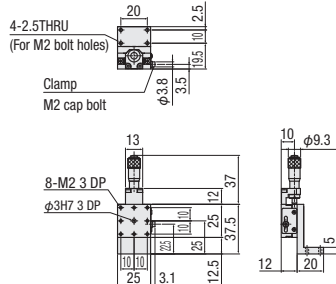
RoHS

Dimensional outline drawings

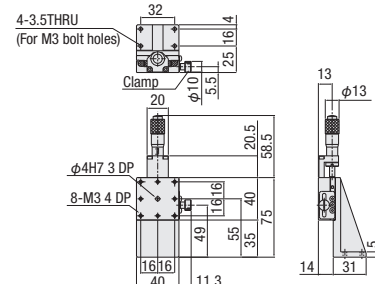
The center hole
tolerance H8 for BSB.



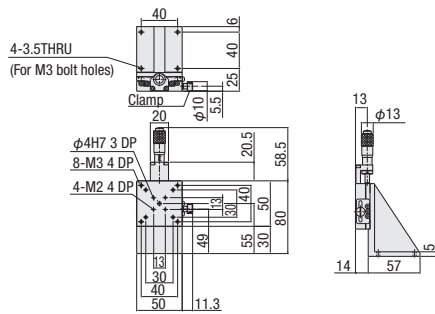
BSS36-25A/BSB36-25A



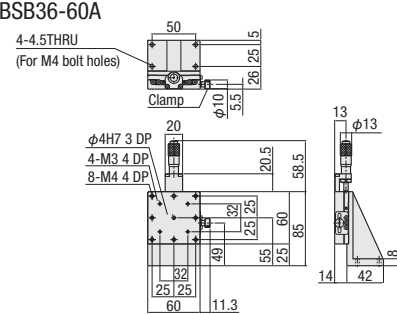
BSS36-40A/BSB36-40A



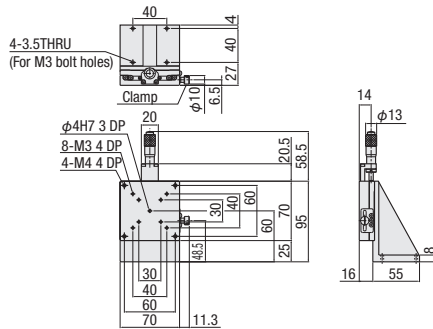
BSS36-50A



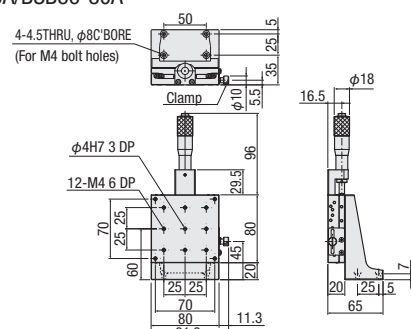
BSS36-60A/BSB36-60A



BSS36-70A



BSS36-80A/BSB36-80A

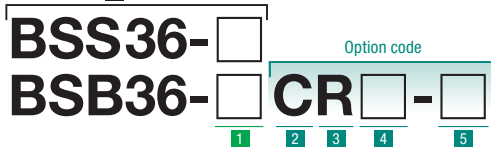


Configuration

Model	BSS (BSB) 36-25A	25C	25CU※	Reference page	40A	40C	40CU※	Reference page	50A	50C	50CU	Reference page	60A	60C	60CU※	Reference page	70A	70C	70CU	Reference page	80A	80C	80CU※	Reference page
X	BSS (BSB) 16-25AZ	25C	25CZ※	P.2-017~	40AZ	40C	40CZ※	P.2-019~	50AZ	50C	50CZ	P.2-021~	60AZ	60C	60CZ※	P.2-023~	70AZ	70C	70CZ	P.2-025~	80AZ	80C	80CZ※	P.2-027~
Bracket	BSS	ASS25Z-1	—	P.2-180	ASS40Z-1	—	P.2-180	P.2-180	ASS50Z-1	—	P.2-180	P.2-181	ASS60Z-1	—	P.2-181	P.2-181	ASS70Z-1	—	P.2-181	P.2-181	ASS80Z-1	—	P.2-181	P.2-181
	BSB	ASB25Z-1	—	P.2-180	ASB40Z-1	—	P.2-180	P.2-180	—	—	—	—	ASB60Z-1	—	P.2-181	P.2-181	—	—	—	—	A47-6	—	P.2-181	P.2-181

※The end of CU is available for only BSS.
※BSB is only for 25・40・60・80.

1 Model



Select the option code as below.

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

5 Grease specification

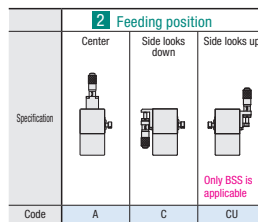
Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
Blank	J	L

1 Stage table size

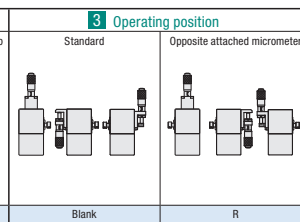
25*	25×25mm
40*	40×40mm
50	50×50mm
60*	60×60mm
70	70×70mm
80*	80×80mm

※BSB is only for *.

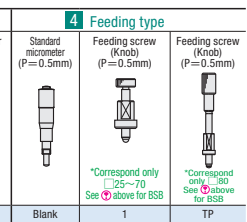
2 Feeding position



3 Operating position



4 Feeding type



SPEC * Minimum reading of micrometer 10μm/Scale • Main material: Stainless • Surface finishing: BSS (Electroless nickel plating) BSB (Low temperature black chrome plating)

Model		Travel distance (mm)	Load capacity	Travel accuracy (Within)			Allowable load for moment (N·m)			Moment rigidity (N / N·cm)			Verticality (Within)	Motion varicity (Within)	Weight (kg)	Provided screws (Hex socket screws)
				Straightness	Pitching	Yawing	Pitch	Yaw	Roll	Pitch	Yaw	Roll				
BSS36- (only for ※)	25 ※	±3.2	1.0kgf [9.8N]	3μm	30"	25"	2.0	2.0	3.5	1.90	1.10	1.10	50μm	15μm	0.23	4 of M2 – 8
	40 ※			5.0	5.0	5.0	0.42	0.35	0.21				0.32	4 of M3 – 10		
	50	±6.5	5.0kgf [49N]	1μm ※ BSB 3μm	25"	15"	6.8	6.8	6.0	0.15	0.14	0.09	65μm	25μm	0.44	
	60 ※						10.0	10.0	9.0	0.08	0.08	0.05			0.58	4 of M4 – 12
	70						13.8	13.8	12.9	0.06	0.05	0.03			0.84	4 of M3 – 12
	80 ※	±12.5		3μm			18.2	18.2	17.7	0.04	0.04	0.02	70μm	30μm	1.20	4 of M4 – 12

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

2

057

XZ-axis Linear Ball Guide (SS) Stage □25~□80: BSS66/BSB66 Series

BSS66-60A



BSB66-60A



Dimensional outline drawings

⚠ The center hole tolerance H8 for BSB.

*Refer CAD data about □50~70



PART
COMMUNITY

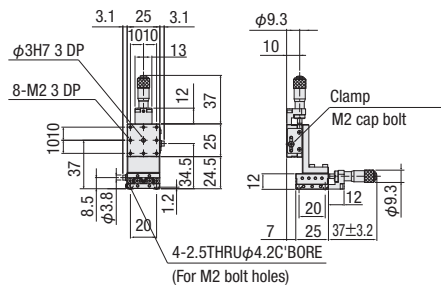
CAD
DATA

SURUGA
SEIKI

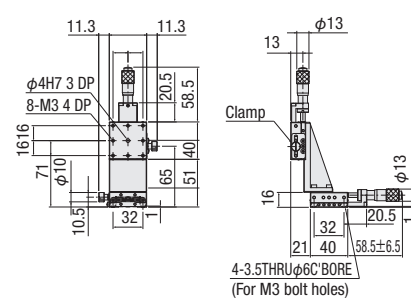
RoHS

CAD
3D・2D

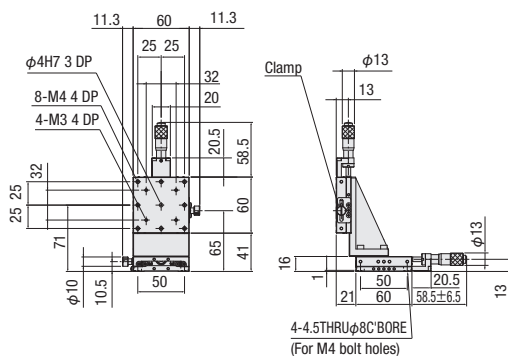
BSS66-25A/BSB66-25A



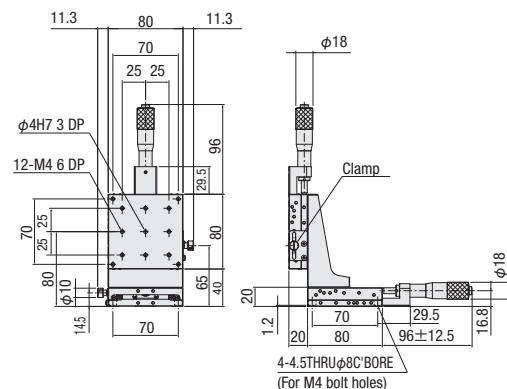
BSS66-40A/BSB66-40A



BSS66-60A/BSB66-60A



BSS66-80A/BSB66-80A

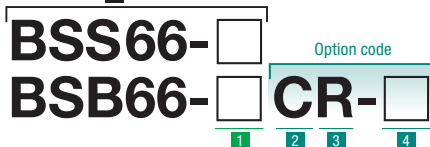


Configuration

Model	BSS (BSB) 66-	25A	25C	40A	40C	50A	50C	60A	60C	70A	70C	80A	80C	Reference page (Z)
Z	BSS (BSB) 36-	25A	25C	40A	40C	50A	50C	60A	60C	70A	70C	80A	80C	P.2-057
X	BSS (BSB) 16-	25A	25C	40A	40C	50A	50C	60A	60C	70A	70C	80A	80C	—
	Reference page	P.2-017~		P.2-019~		P.2-021~		P.2-023~		P.2-025~		P.2-027~		

※BSB is only for 25・40・60・80.
※Combine with each BSS/BSB.
※R means both of X, Z-axis is configured R.

1 Model



Select the option code as below.

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

4 Grease specification

Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
Blank	J	L

1 Stage table size

25*	25×25mm
40*	40×40mm
50	50×50mm
60*	60×60mm
70	70×70mm
80*	80×80mm

※BSB is only for *

2 Feeding position

Specification	Center	Side looks down	Standard	Operating position
Code	A	C	Blank	R

SPEC * Minimum reading of micrometer 10μm/Scale • Main material: Stainless • Surface finishing: BSS (Electroless nickel plating) BSB (Low temperature black chrome plating)

Model	Travel distance (mm)	Load capacity	Travel accuracy (Within)			Allowable load for moment (N・m)			Moment rigidity (N・cm)			Verticality (Within)	Motion varicacity (Within)	Weight (kg)	Provided screws (If socket screws)	
			Straghtness	Pitching	Yawing	Pitch	Yaw	Roll	Pitch	Yaw	Roll					
BSS66- (only for *)	25 *	±3.2	1.0kgf [9.8N]	3μm	30"	25"	2.0	2.0	3.5	3.80	2.20	2.20	80μm	25μm	0.30	4 of M2 – 4
	40 *			1μm *BSS is 3μm	25"	15"	5.0	5.0	5.0	0.84	0.56	0.56				
	50						6.8	6.0	6.0	0.30	0.23	0.23				
	60 *						10.0	9.0	9.0	0.16	0.13	0.13				
BSS66- (only for *)	70	±6.5	5.0kgf [49N]	3μm	30"	25"	13.8	12.9	12.9	0.12	0.08	0.08	90μm	38μm	2.10	4 of M4 – 6
	80 *						18.2	17.7	17.7	0.08	0.06	0.06				

Manual linear stage

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

2

058

XYZ-axis Linear Ball Guide (SS) Stage □25~□80: BSS76/BSB76 Series

BSS76-60A



BSB76-60A



Dimensional outline drawings

⚠ The center hole tolerance H8 for BSB.



PART
COMMUNITY

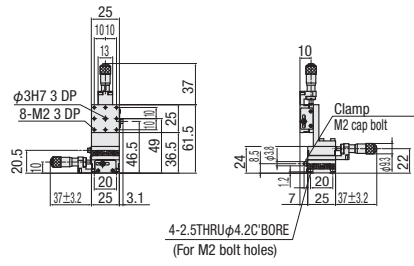
CAD
DATA

SURUGA
SEIKI

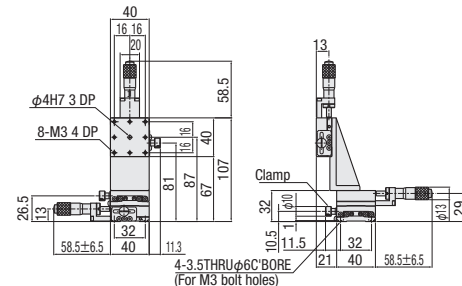
RoHS

CAD
3D・2D

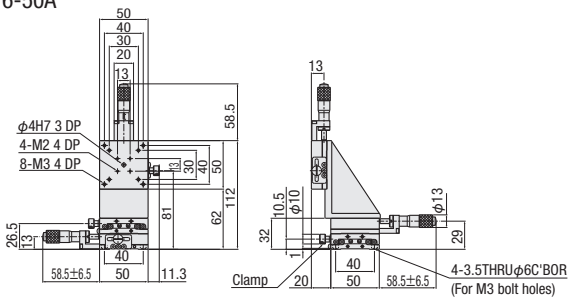
BSS76-25A/BSB76-25A



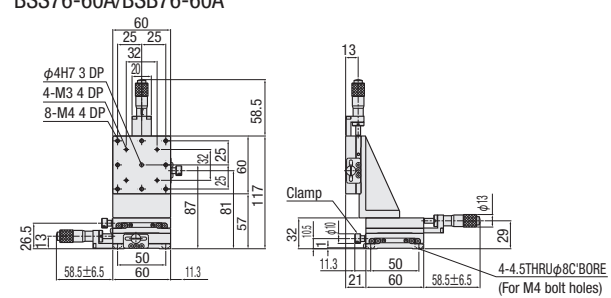
BSS76-40A/BSB76-40A



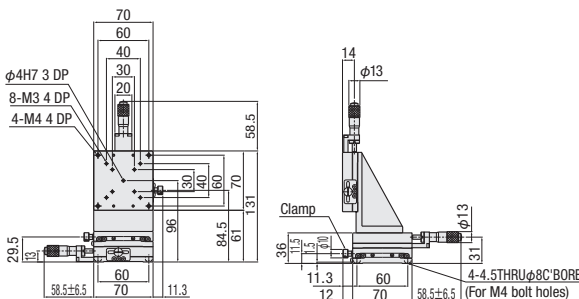
BSS76-50A



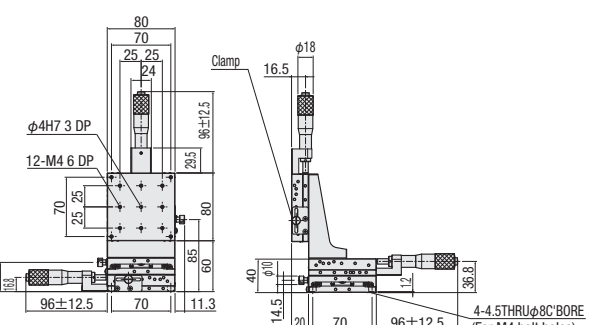
BSS76-60A/BSB76-60A



BSS76-70A



BSS76-80A/BSB76-80A

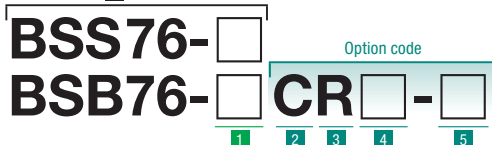


Configuration

Model	BSS (BSB) 76-	25A	25C	25CU	Reference page	40A	40C	40CU	Reference page	50A	50C	50CU	Reference page	60A	60C	60CU	Reference page	70A	70C	70CU	Reference page	80A	80C	80CU	Reference page
Z	BSS (BSB) 36-	25A	25C	25CU	ⒸP2-057	40A	40C	40CU	ⒸP2-057	50A	50C	50CU	ⒸP2-057	60A	60C	60CU	ⒸP2-057	70A	70C	70CU	ⒸP2-057	80A	80C	80CU	ⒸP2-057
X,Y	BSS (BSB) 16-	25A	25C		ⒸP2-045~	40A	40C		ⒸP2-047~	50A	50C		ⒸP2-047~	60A	60C		ⒸP2-049~	70A	70C		ⒸP2-049~	80A	80C		ⒸP2-051~

※R (opposite-hand) means configuration for X or Y or Z-axis of R. ※BSB is only for 25・40・60・80.

1 Model



1 Stage table size

25*	25×25mm
40*	40×40mm
50	50×50mm
60*	60×60mm
70	70×70mm
80*	80×80mm

※BSB is only for *.

Select the option code as below.

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

5 Grease specification

Standard grease	Clean environment grease AFF	Grease for the vacuum FOMBLIN
Blank	J	L

Specification	2 Feeding position			3 Operating position		4 Feeding type		
	Center	Side looks down	Side looks up	Standard	Opposite attached micrometer	Standard micrometer (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)	Feeding screw (Knob) (P=0.5mm)
Code	A	C	CU	Blank	R	Blank	1	TP

SPEC

* Minimum reading of micrometer 10μm・Scale・Main material: Stainless・Surface finishing: BSS (Electroless nickel plating) BSB (Low temperature black chrome plating)

Model	Travel distance (mm)	Load capacity	Travel accuracy (Within)			Allowable load for moment (N・m)			Moment rigidity (N・cm)			Verticality (Within)	Motion verticality (Within)	Weight (kg)	Provided screws (Hex socket screws)
			Straightness	Pitching	Yawing	Pitch	Yaw	Roll	Pitch	Yaw	Roll				
BSS76- (only for *)	25*	±3.2	1.0kgf (9.8N)	3μm	30"	2.0	2.0	3.5	4.10	3.30	4.90	80μm	25μm	0.37	4 of M2 - 4
	40*					5.0	5.0	5.0	0.98	0.91	1.05			0.78	4 of M3 - 6
	50	±6.5	5.0kgf (49N)	1μm	25"	6.0	6.0	6.0	0.38	0.37	0.39	95μm	35μm	1.00	
	60*			3μm	15"	9.0	9.0	9.0	0.21	0.21	0.21			1.38	4 of M4 - 6
BSB76- (only for *)	70					12.9	12.9	12.9	0.14	0.13	0.15			2.00	
	80*	±12.5				17.7	17.7	17.7	0.10	0.10	0.10	110μm	45μm	3.00	

Manual linear stage

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

2

060