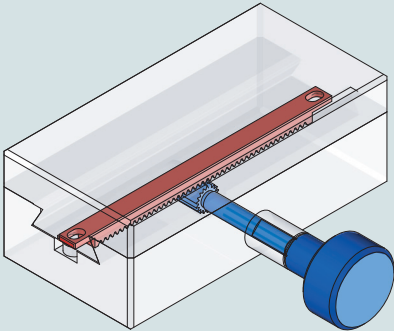
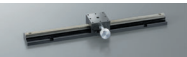
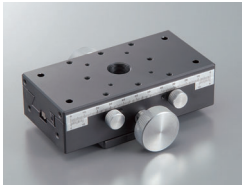
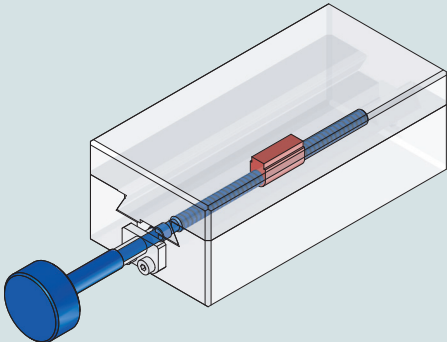
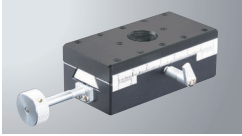
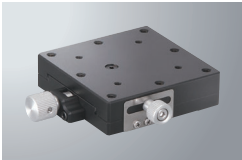


Dovetail Stage Guidance/Line-up

[Features]

- Wide variety of size, stroke and feeding pitch.
- We have 2 types of feeding mechanism "rack and pinion" or "feeding screw".

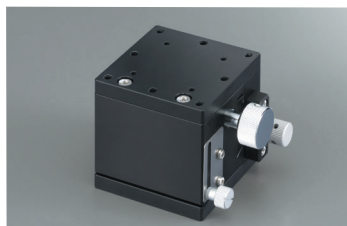
	Series	Stage table size (mm)	Travel distance per rotation (mm)	Load capacity (kgf [N])	Main material
Rack and pinion rail type This is integrate with rack rail and pinion gear. It would be suitable in positioning and retreating because it moves widely and quickly. 	Rack rail 	□40	20	~3 [29.4]	Aluminum
	Rack and pinion 	□25	5~20	~3 [29.4]	Brass
		□40			
		□60		~4 [39.2]	Aluminum
		40×80			
		60×120		~5 [49]	
Feeding screw type Integrated stage with nut and feeding screw. Unables a fine adjustment in comparison with the rack and pinion type. 	Long lead feeding screw 	□40	4.2	~2.5 [24.5]	Aluminum
		40×80		~4 [39.2]	
	Short lead feeding screw 	□25	0.5	~3 [29.4]	Brass
		□40			
		□60		~4 [39.2]	
		18×60		~2 [19.6]	Aluminum

*Amount shows for single axis

★Composite stage

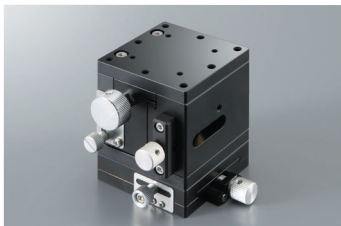
This is the compact stages with rack and pinion type and feeding screw type.

XZ-axis



▶ P.2-123~

XYZ-axis

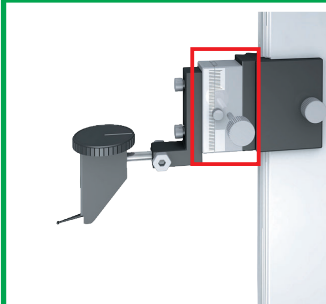


▶ P.2-129~

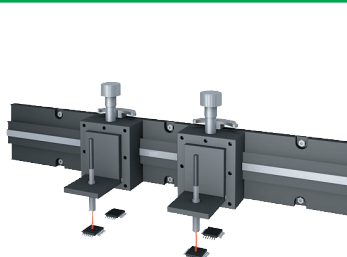
Series	Size	Stroke (X-axis/mm)												Axis configuration • Listing page							
		~5	~10	~15	~20	~30	~40	~50	~75	~100	~150	~250	~360	X	XY	Z	Horizontal Z	XZ	Horizontal XZ	XYZ	Horizontal XYZ
Rack Rail	□40													●							
		▶ P.2-097~																			
Rack and pinion	□25													●	●	●	●	●		●	
		▶ P.2-099~	▶ P.2-107~	▶ P.2-113~	▶ P.2-121~	▶ P.2-123~			▶ P.2-129~												
	□40												●	●	●	●	●		●		
		▶ P.2-101~	▶ P.2-109~	▶ P.2-115~	▶ P.2-121~	▶ P.2-125~			▶ P.2-131~												
	□60												●	●	●	●					
		▶ P.2-103~	▶ P.2-111~	▶ P.2-117~	▶ P.2-121~																
	40×80												●		●						
		▶ P.2-105~		▶ P.2-119~																	
	60×120												●								
		▶ P.2-105~																			
Long lead feeding screw	□40												●		●						
		▶ P.2-101~		▶ P.2-115~																	
	40×80												●		●						
		▶ P.2-105~		▶ P.2-119~																	
Short lead feeding screw	□25												●	●	●		●		●		
		▶ P.2-099~	▶ P.2-107~	▶ P.2-113~		▶ P.2-123~		▶ P.2-129~													
	□40												●	●	●		●		●		
		▶ P.2-101~	▶ P.2-109~	▶ P.2-115~		▶ P.2-125~		▶ P.2-131~													
	□60												●	●	●		●		●		
		▶ P.2-103~	▶ P.2-111~	▶ P.2-117~		▶ P.2-127~		▶ P.2-133~													
	18×60												●	●							
		▶ P.2-099~	▶ P.2-107~																		

Application example

Fine adjustment for dial gauge



Change the sensor position

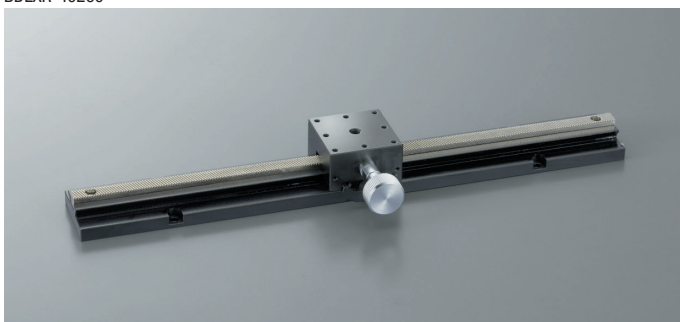


Inspection Jig for a sample



Rack Rail X-axis Dovetail Stage □40: BDLXR/BDLXB

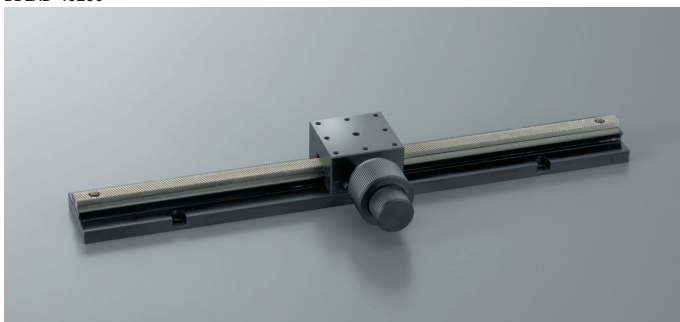
BDLXR-40260



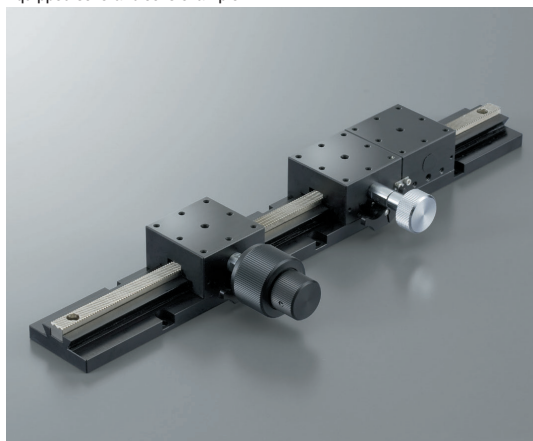
【Features】

- Dovetail rack and pion long stroke stage.
- Equipping several blocks of □40mm table is available.
- Selectable coarse-fine motion type.
- Equipping larger size blocks without handle is available.

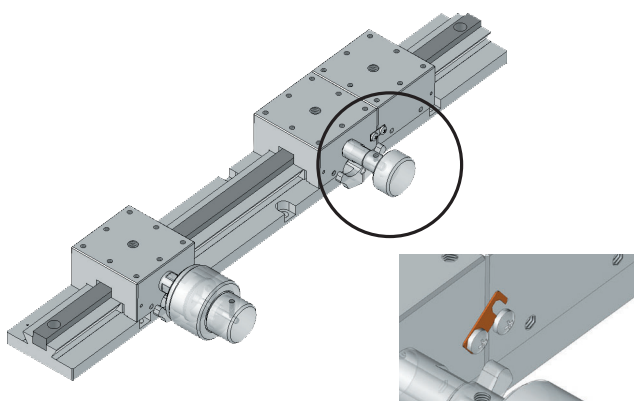
BDLXB-40260



Equipped several blocks example



- Available several blocks. Please ask us.
- ※This cannot be sold separately.



※Please connect each blocks (without handle) with attached hook.

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

SPEC

■X-axis dovetail stage (one block)

Model	BDLXR-4060	BDLXR-40160	BDLXR-40260	BDLXR-40360	BDLXB-4060	BDLXB-40160	BDLXB-40260	BDLXB-40360
Stage table size	40×40mm							
Handle specification	Standard handle				Coarse-fine motion handle			
Travel distance per rotation	20mm				Rough: 20mm micromotion: ≒2.6mm			
Travel distance	60mm	160mm	260mm	360mm	60mm	160mm	260mm	360mm
Load capacity	3.0kgf [29.4N]							
Weight	0.27kg	0.41kg	0.55kg	0.69kg	0.31kg	0.45kg	0.59kg	0.74kg
Main material—Surface finishing	Aluminum—Black alumite processing							
Provided screws (Hex socket screws)	4 of M4—8		6 of M4—8		4 of M4—8		6 of M4—8	

Dovetail Stage □25: B05/B08/BDBXS/BDBXR (18×60)

RoHS

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

Type

Product image

Features

Rack and pinion

Stage table size □25mm

B05-01



【Features】

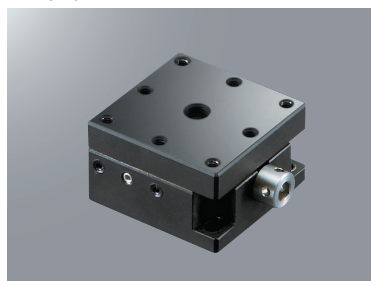
- Table size □25mm small type.

Stage table size □25mm

B08-1

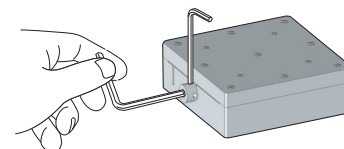


BDBXS-25



【Features】

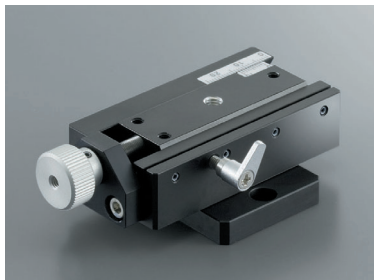
- Short lead type feeding screw 0.5mm.
- Saving-space and prevention error operation by using hex wrench type.



BDBXS series

Stage table size 18×60mm

BDBXR-1815



【Features】

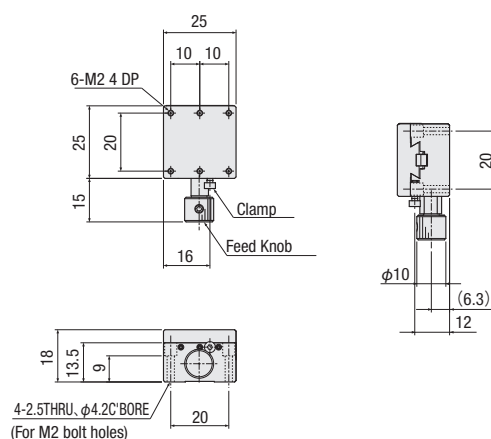
- Compact but travel distance ±7.5mm.

Feeding screw

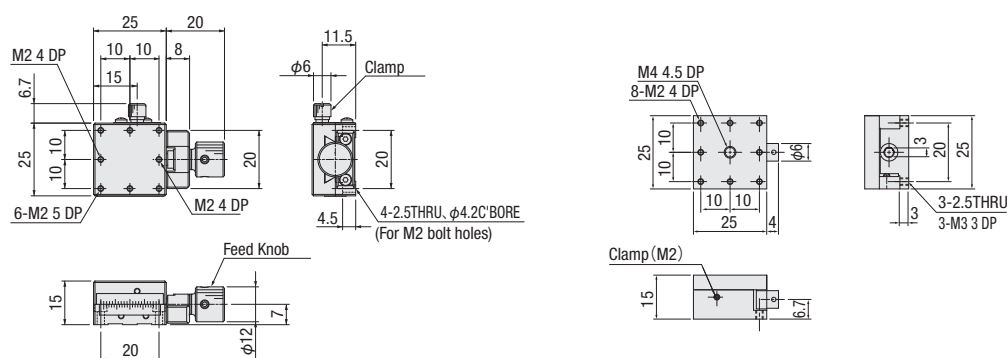
Short lead

SPEC				
Model	B05-01	B08-1	BDBXS-25	BDBXR-1815
(Opposite hand)	—	B08-1R	—	—
Stage table size	25×25mm			18×60mm
Travel distance	±5mm		±3mm	±7.5mm
Travel distance per rotation of knob	17mm	0.5mm		
Minimum reading capability	Vernier scale 0.1mm		—	Vernier scale 0.1mm
Load capacity	3.0kgf [29.4N]			2.0kgf [19.6N]
Travel accuracy	30μm			
Allowable load for moment	Straightness	30μm		
	Pitch	0.5N · m	2.0N · m	—
	Yaw	0.5N · m	1.5N · m	—
	Roll	0.5N · m	1.3N · m	—
Parallelism	50μm	40μm	50μm	—
Motion parallelism	80μm	30μm	80μm	—
Weight	0.09kg	0.07kg	0.06kg	0.22kg
Main material—Surface finishing	Brass—Black coating finish			Aluminum—Black alumite processing
Provided screws (Hex socket screws)	4 of M2—12	4 of M2—8	3 of M2—6	2 of M4—8

B05-01

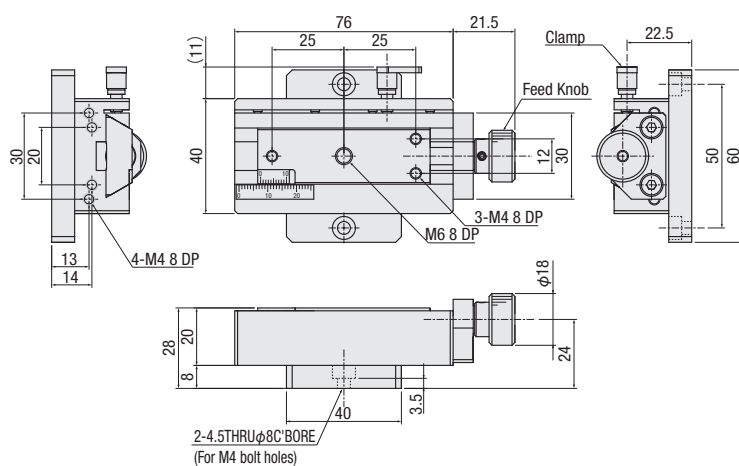


B08-1



BDBXS-25

BDBXR-1815



Dovetail Stage □40: B05/B08/BDBXS

RoHS

Manual linear stage

Type

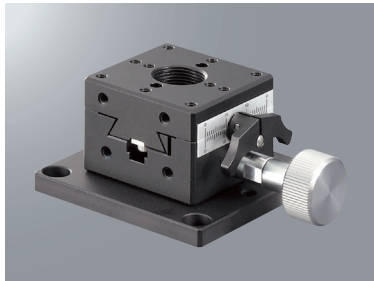
Product image

Features

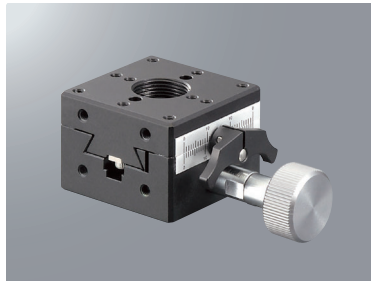
Rack and pinion

Stage table size □40mm

B05-1NH

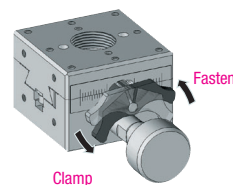


B05-1NHM (Type without undersurface plate)



【Features】

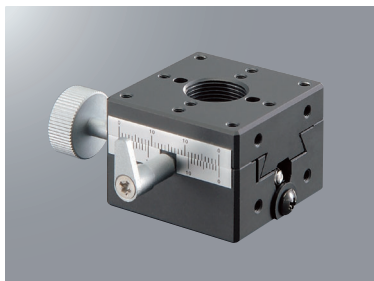
- Rack and pinion rail type.
- Original clamp is adapted.
- With vernier scale(0.1mm).



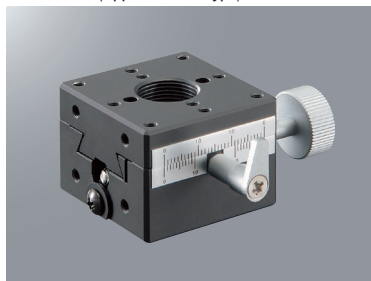
Long lead

Stage table size □40mm

B05-41NM



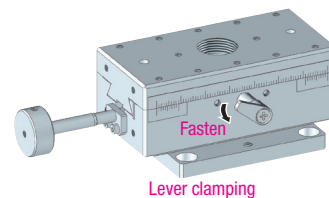
B05-41NRM (Opposite hand type)



(Adaptor plate ▶ P.2-184)

【Features】

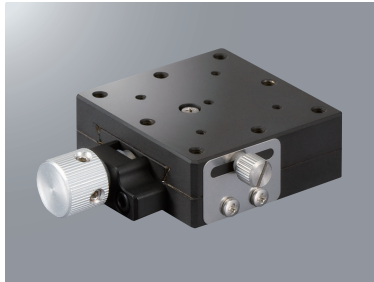
- Long lead type feeding screw 4.2mm.
- With vernier scale(0.1mm).
- Lever type clamp is adapted.



Short lead

Stage table size □40mm

B08-11

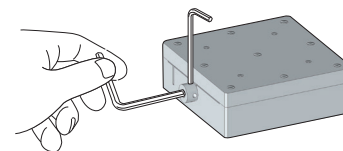


BDBXS-40



【Features】

- Short lead type feeding screw 0.5mm.
- Saving-space and prevention error operation by using hex wrench type.



BDBXS series

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

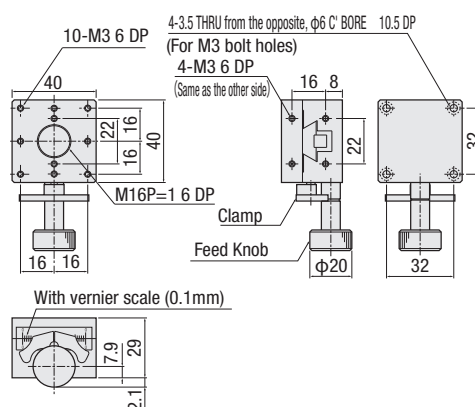
□100

□120

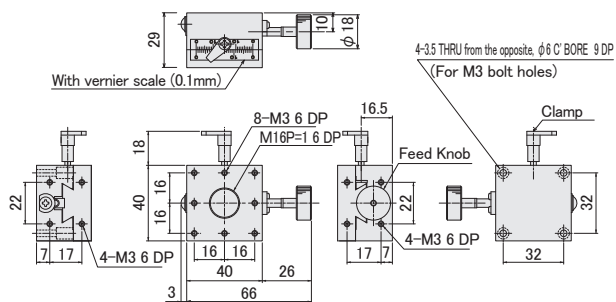
Other

SPEC

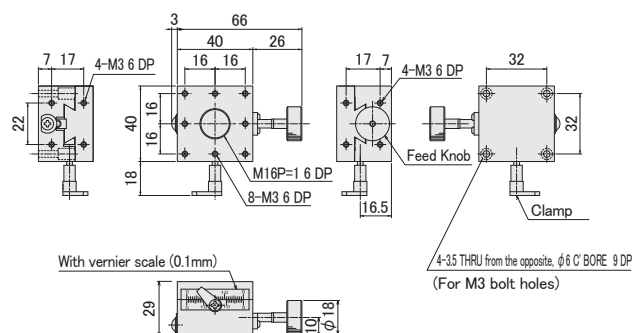
Model	B05-1NH	B05-1NHM	B05-41NM	B08-11	BDBXS-40
(Opposite hand)	—	—	B05-41NRM	B08-11R	—
Stage table size	40×40mm				
Travel distance	±10mm			±7mm	±5mm
Travel distance per rotation of knob	20mm		4.2mm	0.5mm	
Minimum reading capability	Vernier scale 0.1mm				—
Load capacity	3.0kgf [29.4N]		2.5kgf [24.5N]	3.0kgf [29.4N]	
Travel accuracy	Straightness 20μm			30μm	
Allowable load for moment	Pitch 3.0N・m			4.0N・m	
	Yaw 3.0N・m			3.0N・m	
	Roll 2.0N・m			3.0N・m	
Parallelism	40μm	30μm		40μm	50μm
Motion parallelism	30μm	20μm		30μm	80μm
Weight	0.21kg	0.15kg	0.16kg	0.19kg	0.22kg
Main material—Surface finishing	Aluminum—Black alumite processing			Brass—Black coating finish	
Provided screws (Hex socket screws)	4 of M4—6		4 of M3—14	4 of M3—6	4 of M3—8



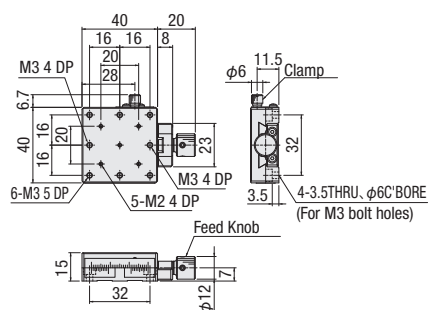
B05-41NM



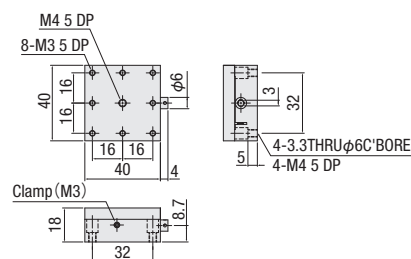
B05-41NRM



B08-11



BDBXS-40



Dovetail Stage □60: B06/B08/BDBXS

RoHS

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

Type

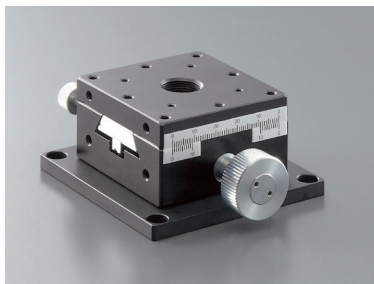
Product image

Features

Rack and pinion

Stage table size □60mm

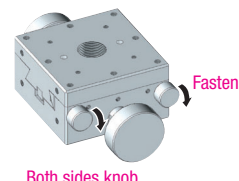
B06-11



Type without undersurface plate: B06-11M
(Adaptor plate P.2-184)
Coarse-fine handle type: B06-11BM
(Adaptor plate P.2-184)

【Features】

- Table size □60mm high rigidity type.
- Improvement operation with knob on both side.
- With vernier scale(0.1mm).



Both sides knob

Feeding screw

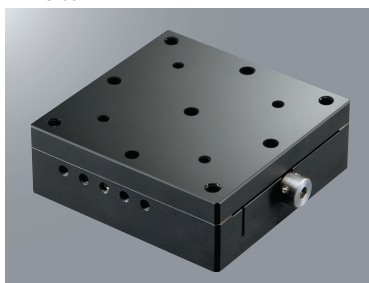
Short lead

Stage table size □60mm

B08-111

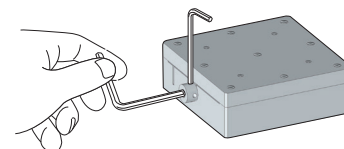


BDBXS-60



【Features】

- Short lead type feeding screw 0.5mm.
- Saving-space and prevention error operation by using hex wrench type.



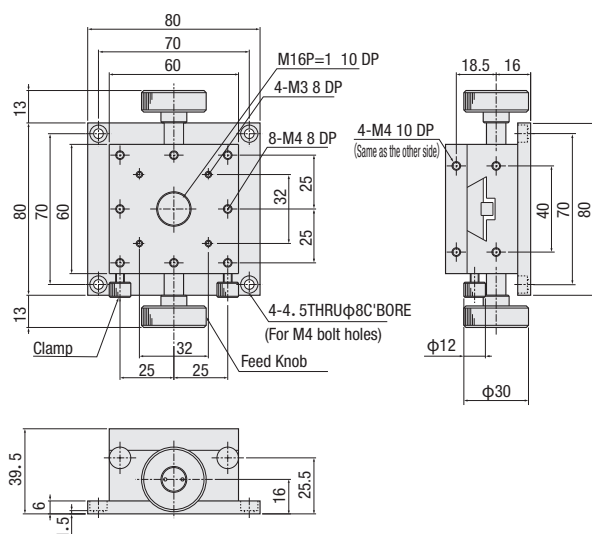
BDBXS series

SPEC

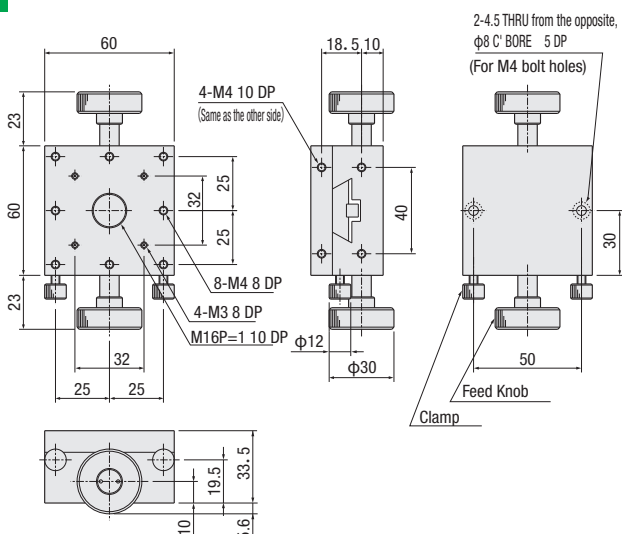
SPEC					
Model	B06-11	B06-11M	B06-11BM	B08-111	BDBXS-60
(Opposite hand)	—	—	—	B08-111R	—
Stage table size	60×60mm				
Travel distance	±20mm			±9mm	±7mm
Travel distance per rotation of knob	18mm		Rough:18mm micromotion: ≒2.3mm	0.5mm	
Minimum reading capability	Vernier scale 0.1mm				—
Load capacity	4.0kgf [39.2N]				
Travel accuracy	30μm				
Allowable load for moment	Straightness				
	Pitch	7.0N・m		5.0N・m	
	Yaw	5.0N・m		4.0N・m	
	Roll	7.0N・m		4.0N・m	
Parallelism	60μm	40μm			50μm
Motion parallelism	50μm	30μm			80μm
Weight	0.64kg	0.54kg	0.41kg	0.6kg	0.52kg
Main material—Surface finishing	Aluminum—Black alumite processing			Brass—Black coating finish	
Provided screws (Hex socket screws)	4 of M4—6	2 of M4—10		4 of M4—6	4 of M4—10

Dimensional outline drawings

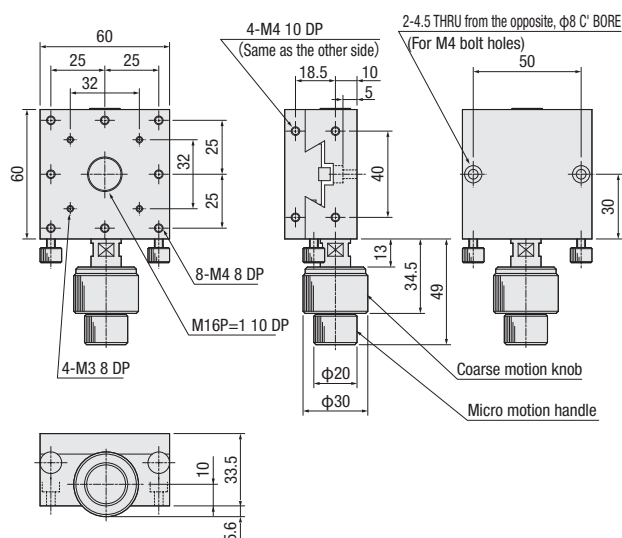
B06-11



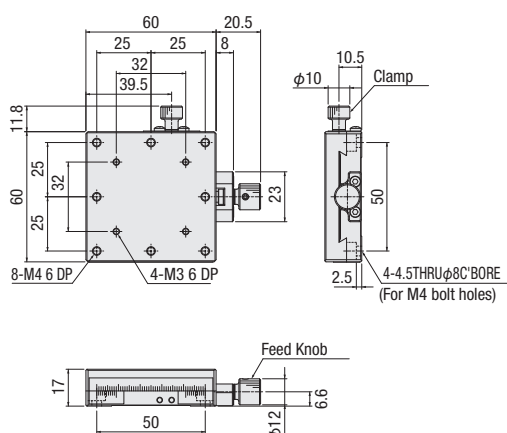
B06-11M



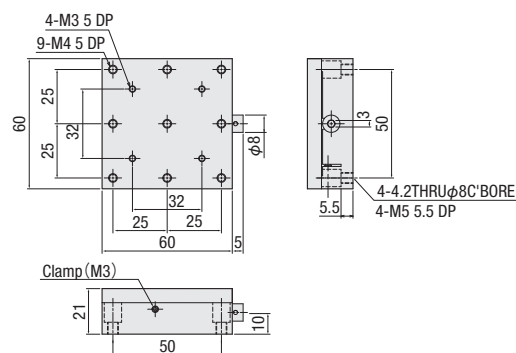
B06-11BM



B08-111



BDBXS-60



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

Dovetail Stage 40×80/60×120: B05/B06

RoHS

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

Type

Product image

Features

Stage table size 40×80mm

B05-11NHM

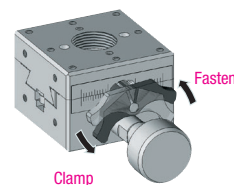


Coarse-fine motion handle type: B05-11BM
(Undersurface plate ▶ P.2-184)

(Undersurface plate ▶ P.2-184)

【Features】

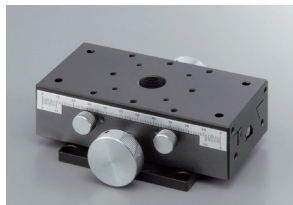
- Original clamp is adapted.
- With vernier scale(0.1mm).



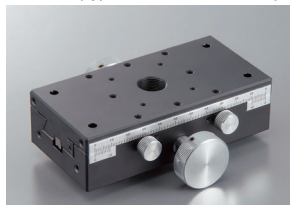
Back and pinion

Stage table size 60×120mm

B06-1W

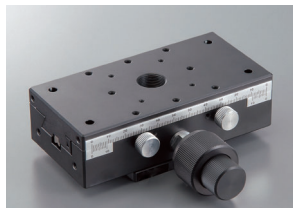


B06-1NM (Type without undersurface plate)



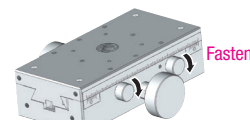
B06-1B

(Undersurface plate ▶ P.2-184)



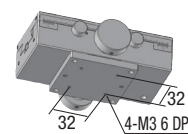
【Features】

- Table size □60mm x 120mm high rigidity type.
- Improvement operation with knob on both side.
- With vernier scale(0.1mm).



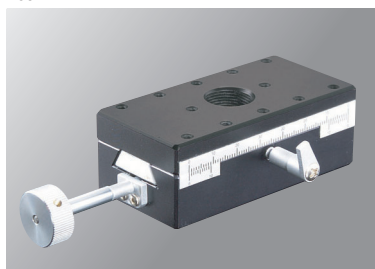
Both sides knob

Can be mounted from the other side for B06-1B



Stage table size 40×80mm

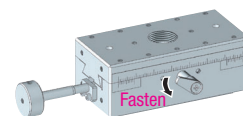
B05-21KM



(Undersurface plate ▶ P.2-184)

【Features】

- Feeding screw long lead type 4.2mm.
- With vernier scale(0.1mm).
- Lever type clamp is adapted.



Lever clamping

Feeding screw

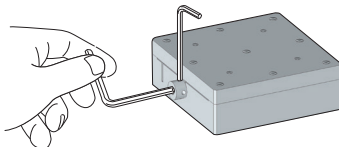
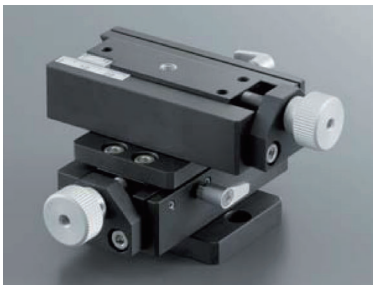
Long lead

SPEC													
Model	B05-11NHM		B05-11BM		B06-1W		B06-1NM		B06-1B		B05-21KM		
(Opposite hand)	—		—		—		—		—		B05-21KRM		
Stage table size	40×80mm				60×120mm				40×80mm				
Travel distance	±30mm				±50mm				±30mm				
Travel distance per rotation of knob	20mm		Rough:20mm micromotion:±2.6mm		18mm				Rough:18mm micromotion:±2.3mm		4.2mm		
Minimum reading capability	Vernier scale 0.1mm												
Load capacity	4.0kgf [39.2N]				5.0kgf [49.0N]						4.0kgf [39.2N]		
Travel accuracy	Straightness	30μm				40μm						30μm	
	Pitch	4.0N・m				10.0N・m						4.0N・m	
	Yaw	3.0N・m				8.0N・m						3.0N・m	
	Roll	2.0N・m				10.0N・m						2.0N・m	
Parallelism	50μm				80μm		60μm		80μm		50μm		
Motion parallelism	40μm				90μm		50μm		90μm		40μm		
Weight	0.28kg		0.33kg		1.03kg		0.92kg		0.79kg		0.31kg		
Main material—Surface finishing	Aluminum—Black alumite processing												
Provided screws (Hex socket screws)	4 of M3—14				4 of M4—6		2 of M4—10		4 of M4—6		4 of M3—14		

106

XY-axis Dovetail Stage □25: B05/B08/BDBYS/BDBYR (18×60)

RoHS

Type	Product image	Features
Rack and pinion	Stage table size 25×25mm B05-02 	【Features】 Table size □25mm small type.
Feeding screw	Stage table size 25×25mm B08-2  BDBYS-25 	【Features】 - Feeding screw XY-axis type lead 0.5mm. - Saving-space and prevention error operation by using hex wrench type.  BDBYS series
Short lead	Stage table size 18×60mm BDBYR-1815 	【Features】 Compact but travel distance ±7.5mm.

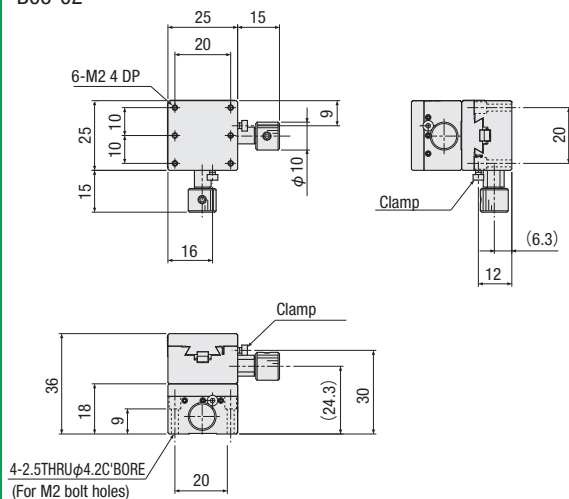
Configuration

Model	B05-02	B08-2	BDBYS-25	BDBYR-1815
Y-axis/Reference page	B05-01/CP.2-099~	B08-1/CP.2-099~	BDBXS-25/CP.2-099~	—
X-axis/Reference page	B05-01/CP.2-099~	B08-1/CP.2-099~	BDBXS-25/CP.2-099~	—

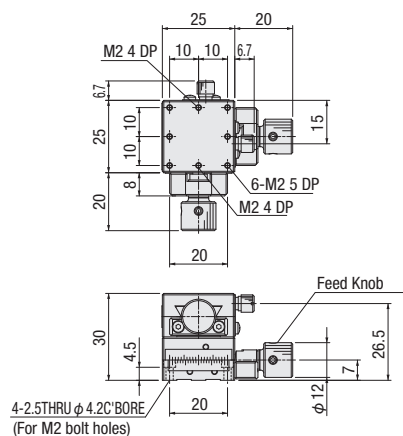
SPEC				
Model	B05-02	B08-2	BDBYS-25	BDBYR-1815
(Opposite hand)	B05-02R	B08-2R	—	—
Stage table size	25×25mm			18×60mm
Travel distance	XY:±5mm		XY:±3mm	XY:±7.5mm
Travel distance per rotation of knob	17mm	0.5mm		
Minimum reading capability	Vernier scale 0.1mm		—	Vernier scale 0.1mm
Load capacity	2.9kgf [28.4N]			1.5kgf [14.7N]
Travel accuracy	Straightness			30μm
Allowable load for moment	Pitch	0.5N · m	1.3N · m	—
	Yaw	0.5N · m	1.5N · m	—
	Roll	0.5N · m	1.3N · m	—
	XY orthogonality	70μm		—
Weight	0.18kg	0.15kg	0.12kg	0.44kg
Main material—Surface finishing	Brass—Black coating finish			Aluminum—Black alumite processing
Provided screws (Hex socket screws)	4 of M2—12	4 of M2—8	3 of M2—6	2 of M4—8

Dimensional outline drawings

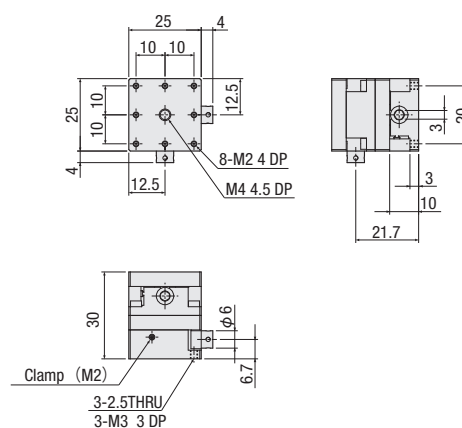
B05-02



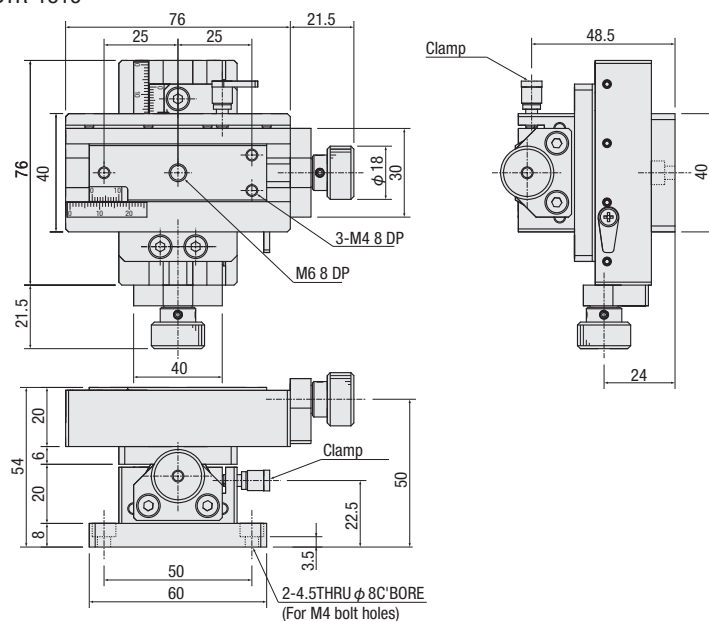
B08-2



BDBYS-25



BDBYR-1815



XY-axis Dovetail Stage □40: B05/B08/BDBYS

RoHS

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

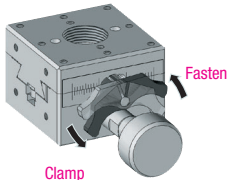
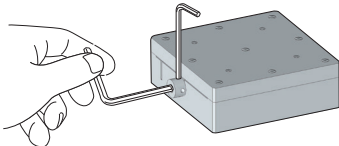
□80

□100

□120

Other

2
109

Type	Product image	Features
Rack and pinion	Stage table size □40mm B05-2NH 	【Features】 - Unit type of rack and pinion. - With vernier scale(0.1mm). - Original clamp is adapted. 
	Stage table size □40mm B08-12  BDBYS-40 	【Features】 - Lead 0.5mm feeding screw XY-axis stage. - Saving-space and prevention error operation by using hex wrench type.  BDBYS series
Feeding screw		
Short lead		

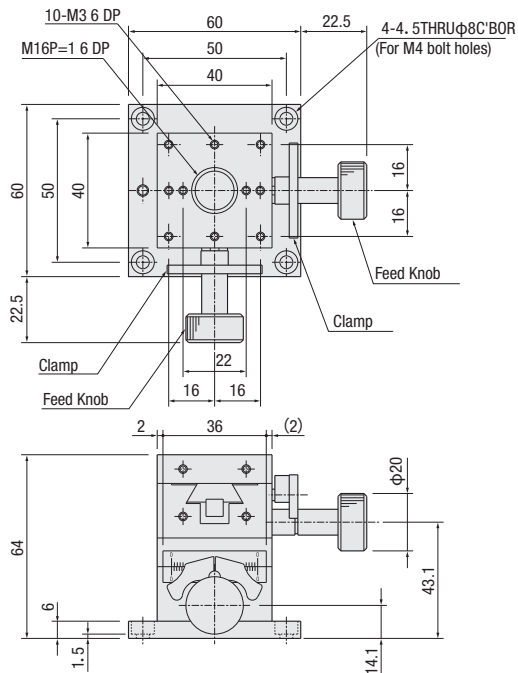
Configuration

Model	B05-2NH	B08-12	BDBYS-40
Y-axis/Reference page	B05-1NHM/CP.2-101~	B08-11/CP.2-101~	BDBXS-40/CP.2-101~
X-axis/Reference page	B05-1NH/CP.2-101~	B08-11/CP.2-101~	BDBXS-40/CP.2-101~

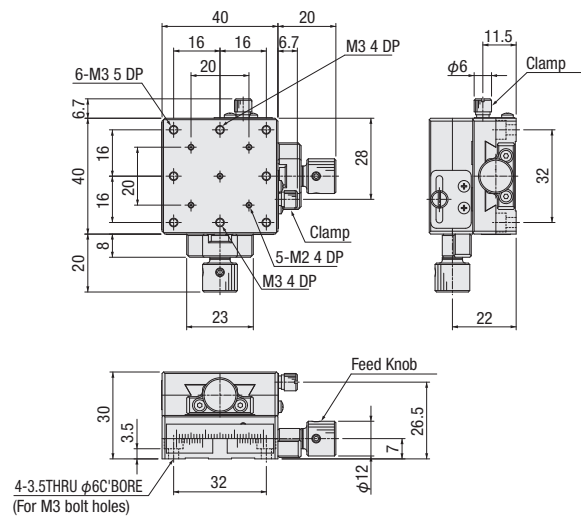
SPEC				
Model	B05-2NH		B08-12	
(Opposite hand)	B05-2NHR		B08-12R	
Stage table size			40×40mm	
Travel distance	XY:±10mm		XY:±7mm	
Travel distance per rotation of knob	20mm		0.5mm	
Minimum reading capability	Vernier scale 0.1mm		—	
Load capacity			2.8kgf [27.4N]	
Travel accuracy	Straightness		—	
Allowable load for moment	Pitch	2.0N・m	3.0N・m	
	Yaw	2.0N・m	3.0N・m	
	Roll	2.0N・m	3.0N・m	
	XY orthogonality	100μm	70μm	
Weight	0.37kg		0.38kg	0.44kg
Main material — Surface finishing	Aluminum — Black alumite processing		Brass — Black coating finish	
Provided screws (Hex socket screws)	4 of M4—6		4 of M3—6	4 of M3—8

Dimensional outline drawings

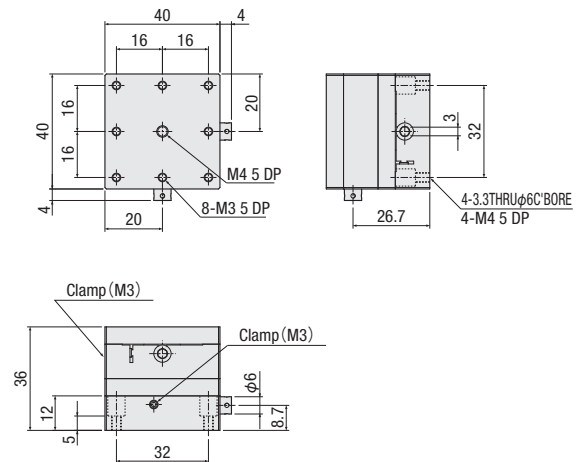
B05-2NH



B08-12



BDBYS-40



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

110

XY-axis Dovetail Stage □60: B06/B08/BDBYS

RoHS

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
111

Type

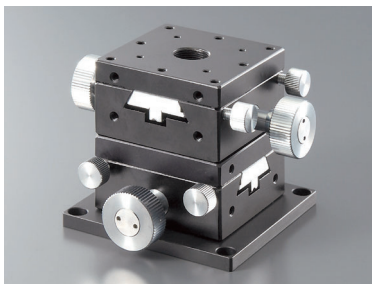
Product image

Features

Rack and pinion

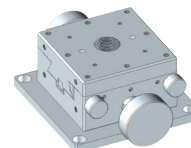
Stage table size □60mm

B06-12



【Features】

- Unit type of rack and pinion.
- Table size □60mm High rigidity type.
- With vernier scale(0.1mm).
- Improvement operation with knob on both side.



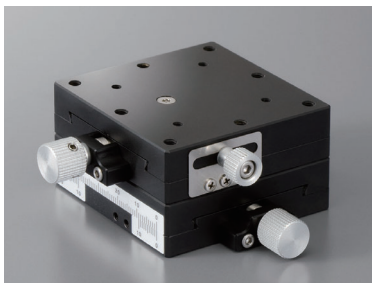
Both sides knob

Feeding screw

Short lead

Stage table size □60mm

B08-112

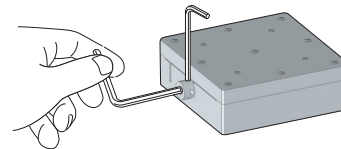


BDBYS-60



【Features】

- Lead 0.5mm feeding screw XY-axis stage.
- Saving-space and prevention error operation by using hex wrench type.



BDBYS series

Configuration

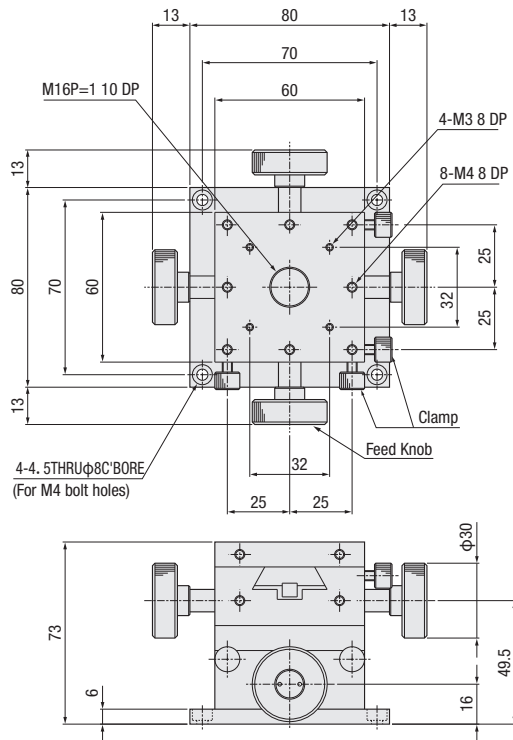
Model	B06-12	B08-112	BDBYS-60
Y-axis/Reference page	B06-11M/ P.2-103~	B08-111/ P.2-103~	BDBXS-60/ P.2-103~
X-axis/Reference page	B06-11/ P.2-103~	B08-111/ P.2-103~	BDBXS-60/ P.2-103~

SPEC

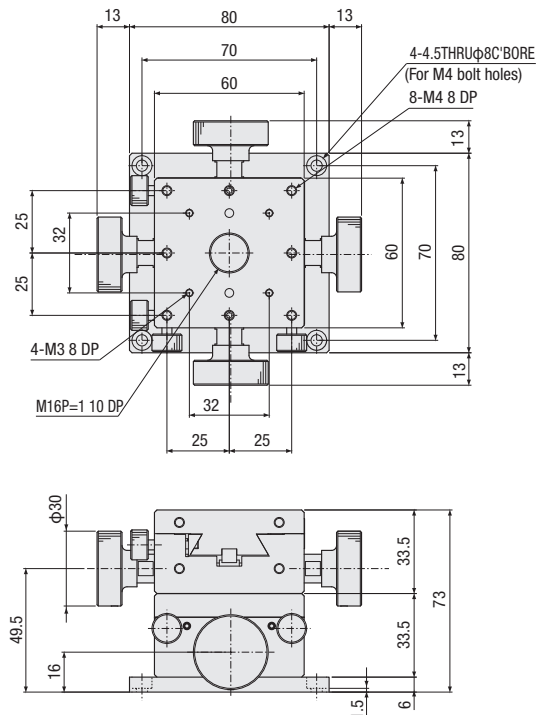
SPEC				
Model		B06-12	B08-112	BDBYS-60
(Opposite hand)		B06-12R	B08-112R	—
Stage table size		60×60mm		
Travel distance		XY:±20mm	XY:±9mm	XY:±7mm
Travel distance per rotation of knob		18mm	0.5mm	
Minimum reading capability		Vernier scale 0.1mm		
Load capacity		3.0kgf [29.4N]	3.4kgf [33.3N]	3.5kgf [34.3N]
Travel accuracy	Straightness	—		
Allowable load for moment	Pitch	7.0N • m	4.0N • m	
	Yaw	5.0N • m	4.0N • m	
	Roll	7.0N • m	4.0N • m	
XY orthogonality		100μm	70μm	
Weight		1.19kg	1.2kg	1.04kg
Main material — Surface finishing		Aluminum — Black alumite processing	Brass — Black coating finish	
Provided screws (Hex socket screws)		4 of M4—6		4 of M4—10

Dimensional outline drawings

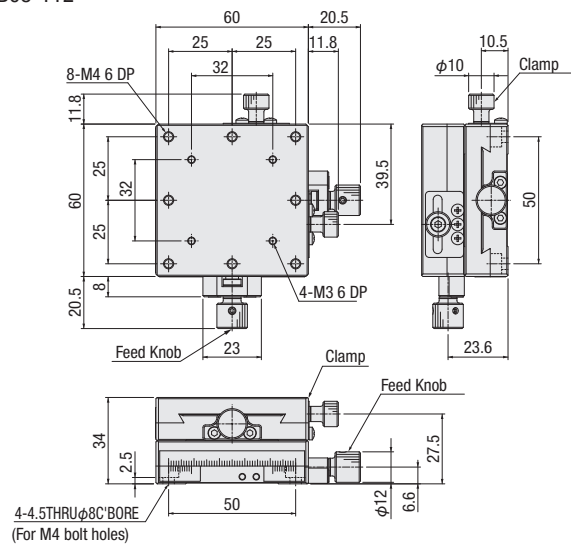
B06-12



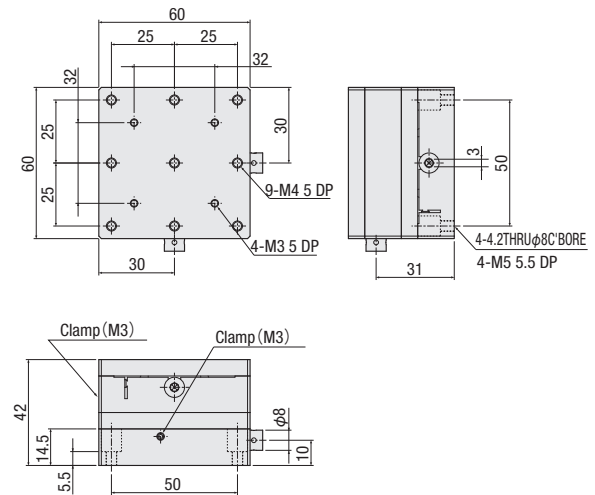
B06-12R



B08-112



BDBYS-60



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

112

Z-axis Dovetail Stage □25: B05/B08/BDBZS

RoHS

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

113

Type

Product image

Features

Rack and pinion

Stage table size □25mm

B05-03



【Features】

- Small size rack and pinion stage.

Feeding screw

Short lead

Stage table size □25mm

B08-3

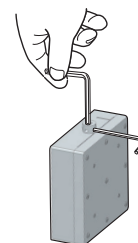


BDBZS-25



【Features】

- Lead 0.5mm feeding screw XY-axis stage with Z-axis bracket.
- Saving-space and prevention error operation by using hex wrench type.



Multiple-direction type with hex wrench.

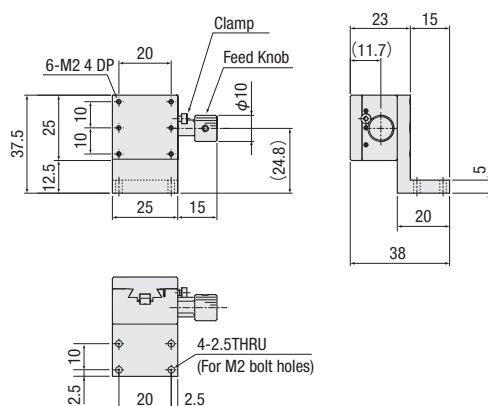
Configuration

Model	B05-03	B08-3	BDBZS-25
Bracket/Reference page	A47-1N/ P.2-179	A47-1N/ P.2-179	A47-1N/ P.2-179
X-axis/Reference page	B05-01/ P.2-099~	B08-1/ P.2-099~	BDBXS-25/ P.2-099~

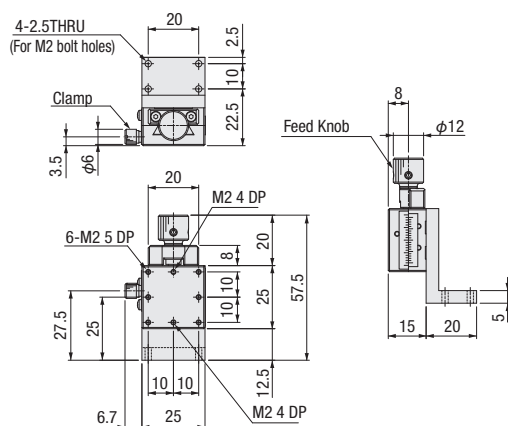
SPEC				
Model		B05-03	B08-3	BDBZS-25
(Opposite hand)		B05-03R	B08-3R	—
Stage table size		25×25mm		
Travel distance		±5mm		±3mm
Travel distance per rotation of knob		17mm	0.5mm	
Minimum reading capability		Vernier scale 0.1mm		
Load capacity		0.7kgf [6.9N]	1.0kgf [9.8N]	
Travel accuracy	Straightness	30μm		
Allowable load for moment	Pitch	0.5N・m	2.0N・m	
	Yaw	0.5N・m	1.5N・m	
	Roll	0.5N・m	1.5N・m	1.3N・m
Weight		0.11kg	0.09kg	0.08kg
Main material—Surface finishing		Brass—Black coating finish		
Provided screws (Hex socket screws)		4 of M2—8		

Dimensional outline drawings

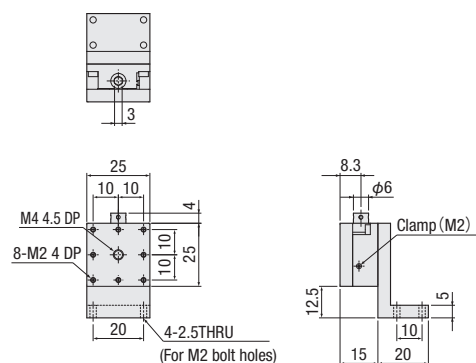
B05-03



B08-3



BDBZS-25



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

114

Z-axis Dovetail Stage □40: B05/B08/BDBZS

RoHS

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

Type

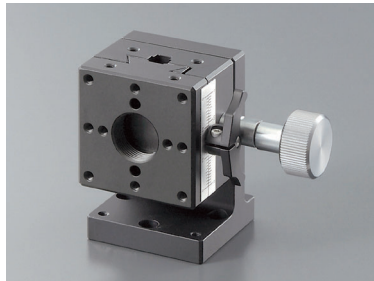
Product image

Features

Rack and pinion

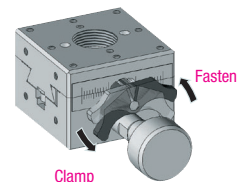
Stage table size □40mm

B05-3NH



【Features】

- Original clamp is adapted.



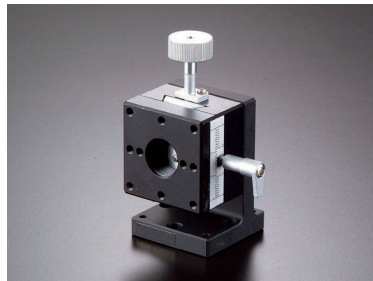
Long lead

Stage table size □40mm

B05-43N

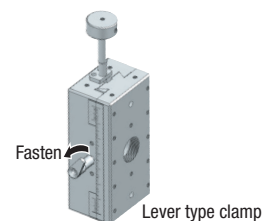


B05-43NR (Opposite hand type)



【Features】

- Feeding screw(long-lead) XY-axis stage is mounted to Z-axis bracket.
- Excellent for operation from upper.



Short lead

Stage table size □40mm

B08-13

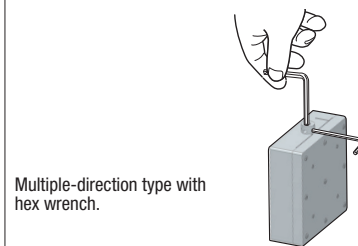


BDBZS-40



【Features】

- Lead 0.5mm feeding screw XY-axis stage with Z-axis bracket.
- Saving-space and prevention error operation by using hex wrench type.



Configuration

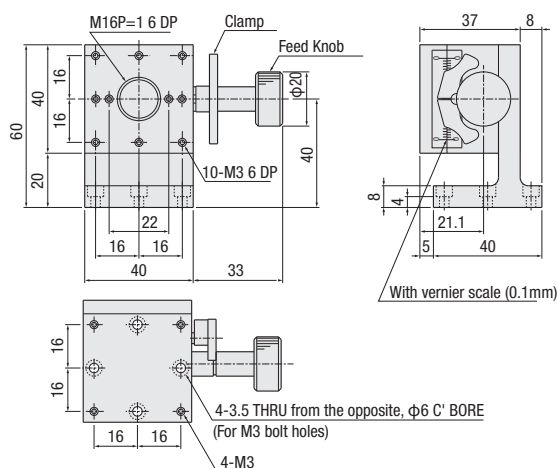
Model	B05-3NH	B05-43N	B08-13	BDBZS-40
Bracket /Reference page	A47-2/ P.2-179	A47-2/ P.2-179	A47-2/ P.2-179	A47-2/ P.2-179
X-axis/Reference page	B05-1NH/ P.2-101~	B05-41NM-1/ P.2-101~	B08-11/ P.2-101~	BDBXS-40/ P.2-101~

SPEC				
Model	B05-3NH	B05-43N	B08-13	BDBZS-40
(Opposite hand)	B05-3NHR	B05-43NR	B08-13R	—
Stage table size	40×40mm			
Travel distance	±10mm		±7mm	±5mm
Travel distance per rotation of knob	20mm	4.2mm	0.5mm	
Minimum reading capability	Vernier scale 0.1mm			—
Load capacity	1.5kgf [14.7N]		1.0kgf [9.8N]	
Travel accuracy	Straightness	20μm	30μm	
Allowable load for moment	Pitch	3.0N・m	4.0N・m	
	Yaw	2.0N・m	3.0N・m	
	Roll	2.0N・m	3.0N・m	
Weight	0.23kg	0.24kg	0.26kg	0.29kg
Main material—Surface finishing	Aluminum—Black alumite processing		Brass—Black coating finish	
Provided screws (Hex socket screws)	4 of M3—8			

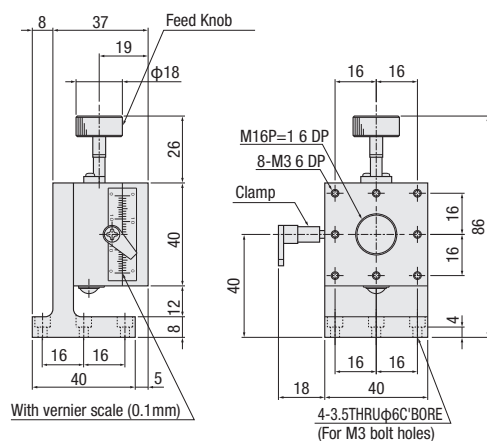
4 of M3—8

Dimensional outline drawings

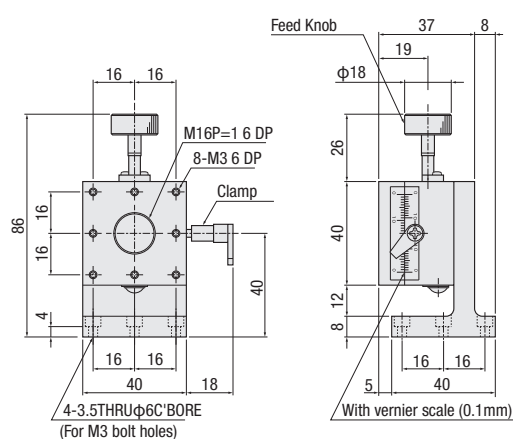
B05-3NH



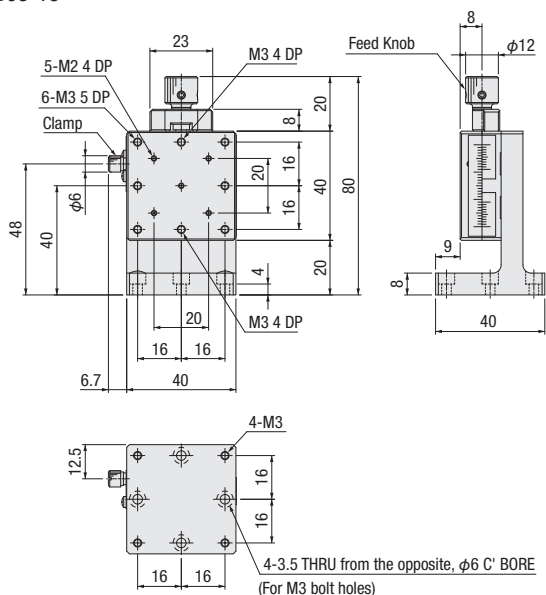
B05-43N



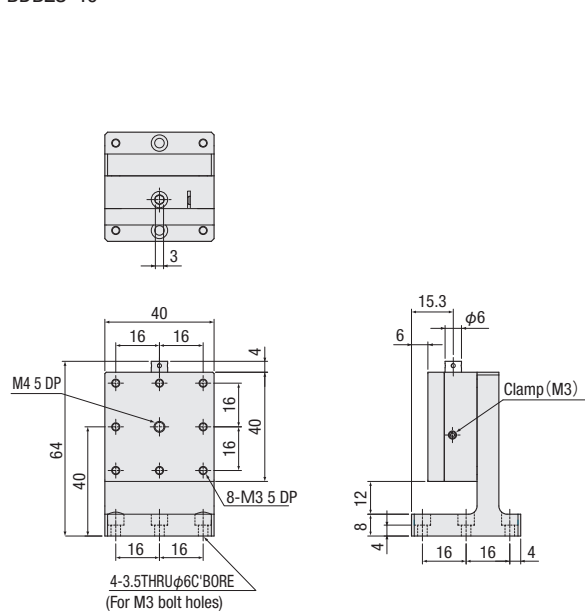
B05-43NR



B08-13



BDBZS-40



Z-axis Dovetail Stage □60: B06/B08/BDBZS

RoHS

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

Type

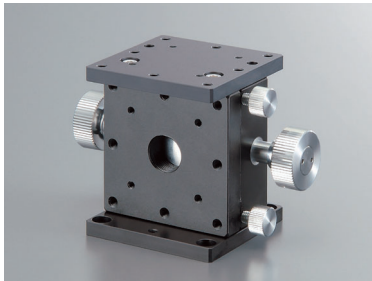
Product image

Features

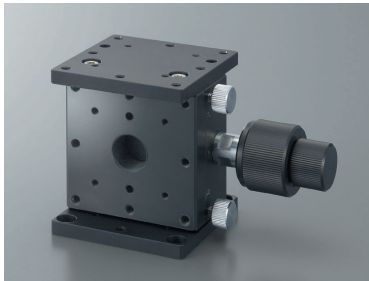
Rack and pinion

Stage table size □60mm

B06-13Z



B06-13BZ



【Features】

- Available mounting horizontal and vertical.

Feeding screw

Short lead

Stage table size □60mm

B08-113

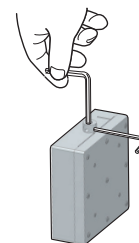


BDBZS-60



【Features】

- Lead 0.5mm feeding screw XY-axis stage with Z-axis bracket.
- Saving-space and prevention error operation by using hex wrench type.



Multiple-direction type with hex wrench.

Configuration

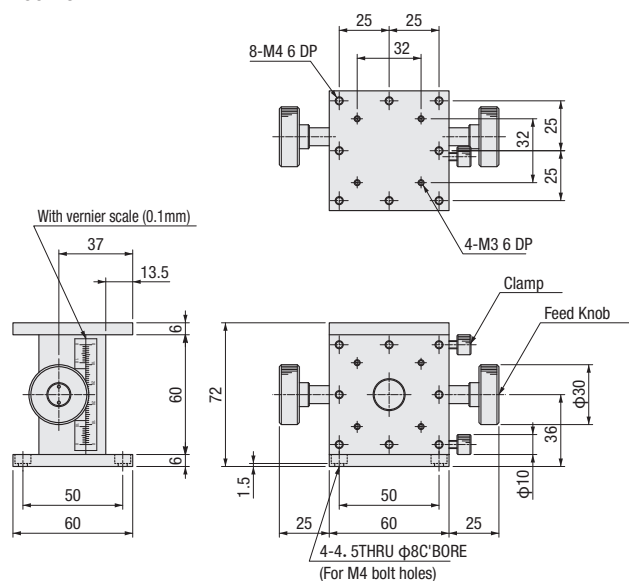
Model	B06-13Z	B06-13BZ	B08-113	BDBZS-60
Bracket /Reference page	—	—	A47-3/ P.2-179	A47-3/ P.2-179
X-axis/Reference page	—	—	B08-111/ P.2-103~	BDBXS-60/ P.2-103~

SPEC

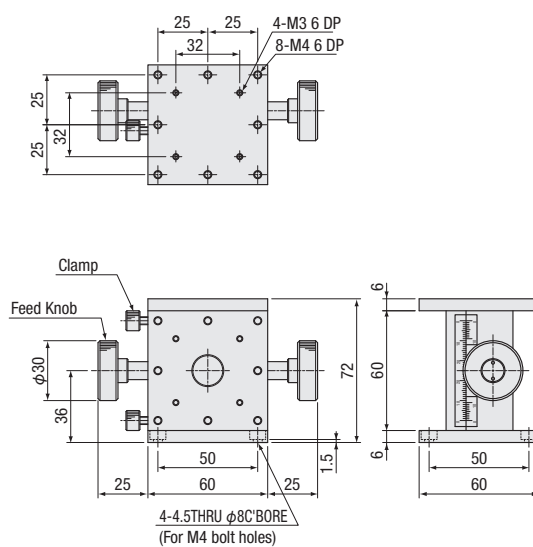
Model		B06-13Z		B06-13BZ		B08-113		BDBZS-60	
(Opposite hand)		B06-13ZR		B06-13BZR		B08-113R		—	
Stage table size		60×60mm							
Travel distance		+20mm				±9mm		±7mm	
Travel distance per rotation of knob		18mm		Rough:18mm micromotion: ≒2.3mm		0.5mm			
Minimum reading capability		Vernier scale 0.1mm							
Load capacity		2.0kgf [19.6N]							
Travel accuracy		Straightness		30μm					
Allowable load for moment	Pitch	7.0N・m				5.0N・m			
	Yaw	5.0N・m				4.0N・m			
	Roll	7.0N・m				4.0N・m			
Weight		0.60kg		0.52kg		0.75kg		0.67kg	
Main material — Surface finishing		Aluminum — Black alumite processing				Brass — Black coating finish			
Provided screws (Hex socket screws)		4 of M4—6				4 of M4—10			

Dimensional outline drawings

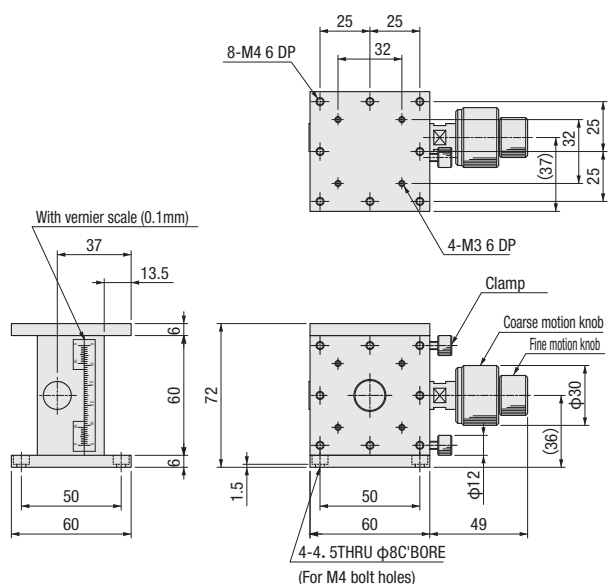
B06-13Z



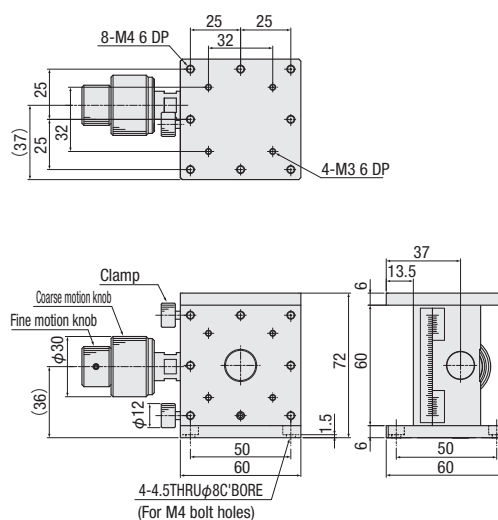
B06-13ZR



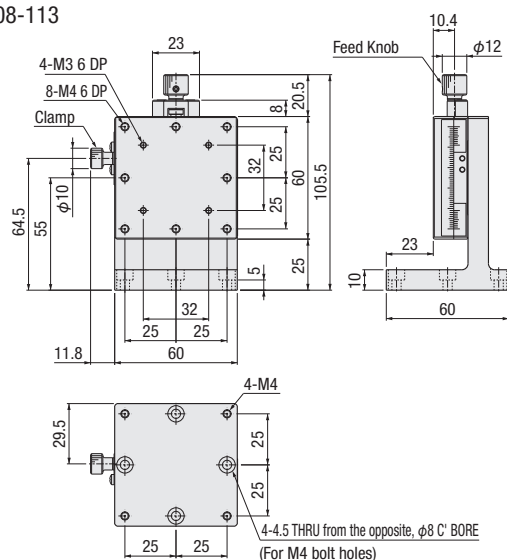
B06-13BZ



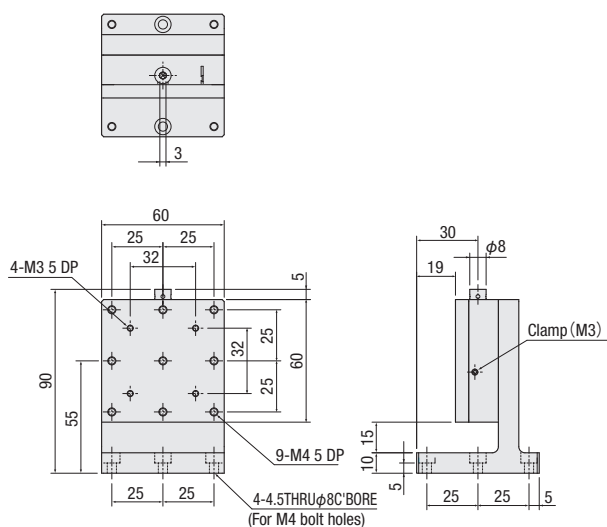
B06-13BZR



B08-113



BDBZS-60



X

XY

Z

Horizontal

XZ

Horizontal

XYZ

Horizontal

Geniometer

Rotary

Unit

Linear Ball

Cross Roller

Dovetail

25

30

40

50

60

70

80

☐ 100☐ 120
Other _____

Other

2
118

110

Z-axis Dovetail Stage 40×80: B05

RoHS

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

Type

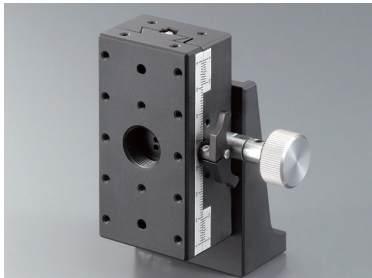
Product image

Features

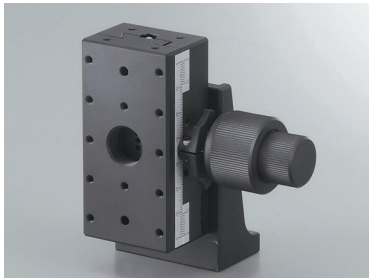
Rack and pinion

Stage table size 40×80mm

B05-13NH

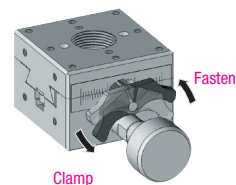


B05-13B



【Features】

- Original clamp is adapted.
- With vernier scale(0.1mm).



Feeding screw

Long lead

Stage table size 40×80mm

B05-23K

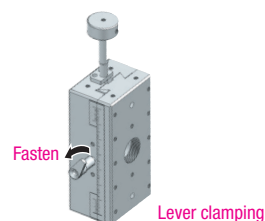


B05-23KR (Opposite hand type)



【Features】

- Feeding screw(long-lead) XY-axis stage is mounted to Z-axis bracket.
- Excellent for operation from upper.
- Fix stage firmly.



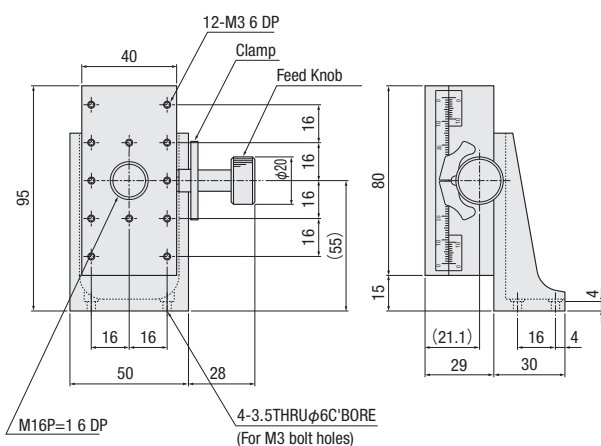
Configuration

Model	B05-13NH	B05-13B	B05-23K
Bracket /Reference page	A47-4/ P.2-179	A47-4/ P.2-179	A47-4/ P.2-179
X-axis/Reference page	B05-11NH/ P.2-105~	B05-13BM/ P.2-105~	B05-21KM/ P.2-105~

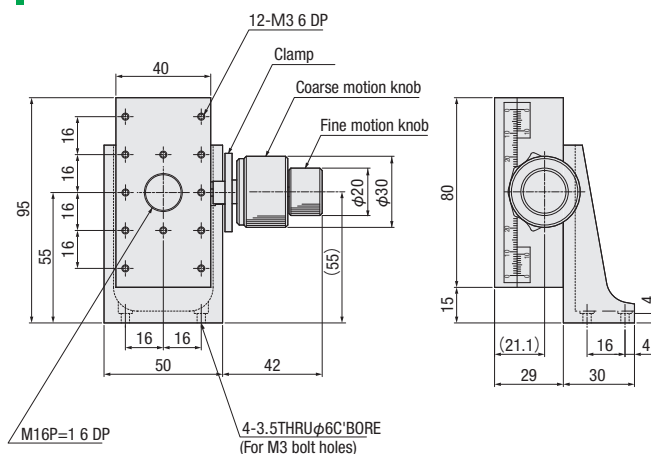
SPEC					
Model	B05-13NH		B05-13B		B05-23K
(Opposite hand)	B05-13NHR		B05-13BR		B05-23KR
Stage table size	40×80mm				
Travel distance	+30—15mm				
Travel distance per rotation of knob	20mm	Rough:20mm micromotion: ≒2.6mm			4.2mm
Minimum reading capability		Vernier scale 0.1mm			
Load capacity		1.5kgf [14.7N]			
Travel accuracy	Straightness	30μm			
Allowable load for moment	Pitch	4.0N・m			
	Yaw	3.0N・m			
	Roll	2.0N・m			
Weight	0.46kg				0.39kg
Main material—Surface finishing		Aluminum—Black alumite processing			
Provided screws (Hex socket screws)		4 of M3—8			

Dimensional outline drawings

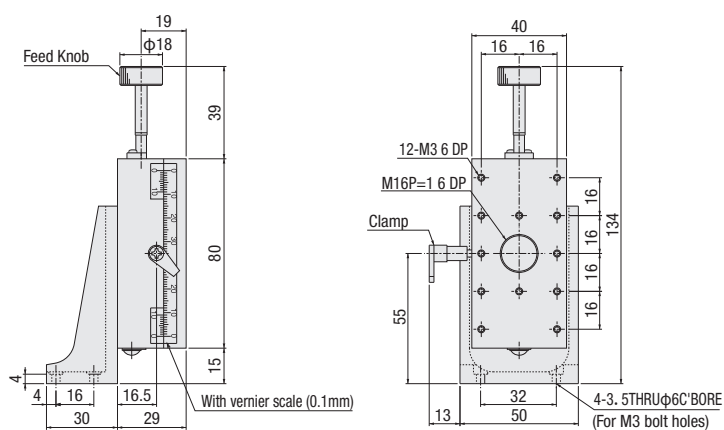
B05-13NH



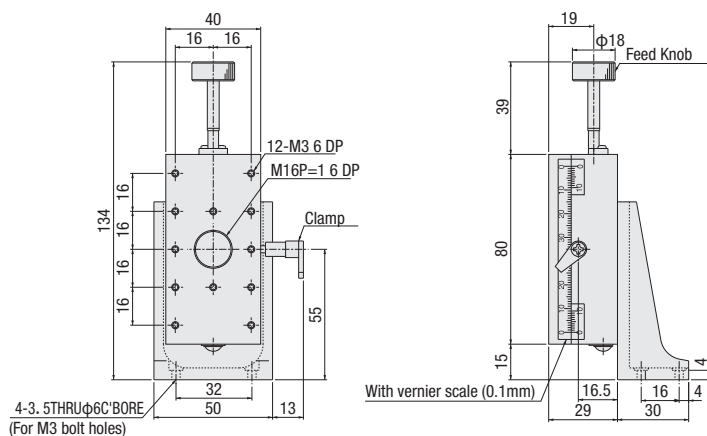
B05-13B



B05-23K



B05-23KR



Horizontal Z-axis Dovetail Stage □25/□40/□60: B07/BDBHR

RoHS

X

XY

Z

Horizontal Z

XZ

Horizontal XZ

XYZ

Horizontal XYZ

Goniometer

Rotary

Unit

Accessories

Linear Ball

Cross Roller

Dovetail

Type

Product image

Features

Stage table size □25mm

B07-1N

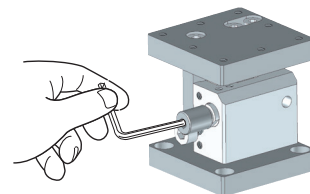


BDBHR-25



【Features】

- Rack and pinion Z-axis stage that stage surface is liftable horizontal.
- Saving-space and prevention error operation by using hex wrench type.



BDBHR-25 can be operated using hex wrench

Stage table size □40mm

B07-2N

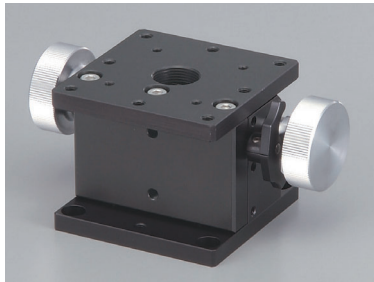


【Features】

- Rack and pinion Z-axis stage that stage surface is liftable horizontal.

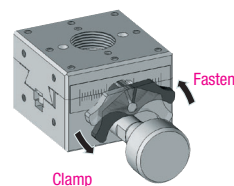
Stage table size □60mm

B07-3N



【Features】

- Rack and pinion Z-axis stage that stage surface is liftable horizontal.
- Original clamp is adapted.

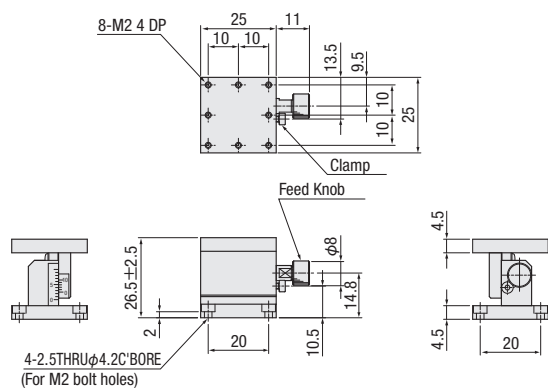


Rack and pinion

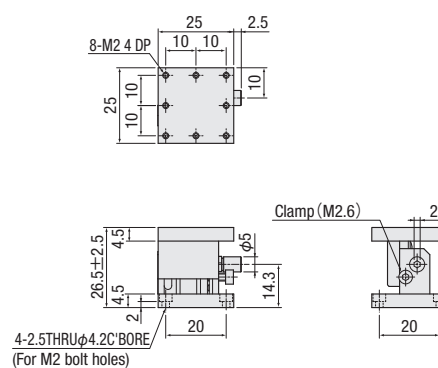
SPEC				
Model	B07-1N	BDBHR-25	B07-2N	B07-3N
Stage table size	25×25mm		40×40mm	60×60mm
Travel distance	±2.5mm		±5mm	±10mm
Travel distance per rotation of knob	8mm	8mm	13mm	18mm
Minimum reading capability	Vernier scale 0.1mm			
Load capacity	0.7kgf [6.9N]	1.0kgf [9.8N]	1.0kgf [9.8N]	1.5kgf [14.7N]
Travel accuracy	30μm			
Allowable load for moment	Straightness			
	Pitch	0.6N · m	0.6N · m	4.0N · m
	Yaw	1.0N · m	1.0N · m	4.0N · m
	Roll	1.5N · m	1.2N · m	2.5N · m
Parallelism	—	150μm	—	—
Motion parallelism	—	30μm	—	—
Weight	0.08kg		0.12kg	0.47kg
Main material—Surface finishing	Brass—Black coating finish		Aluminum—Black alumite processing	
Provided screws (Hex socket screws)	4 of M2—5		4 of M3—6	4 of M4—6

Dimensional outline drawings

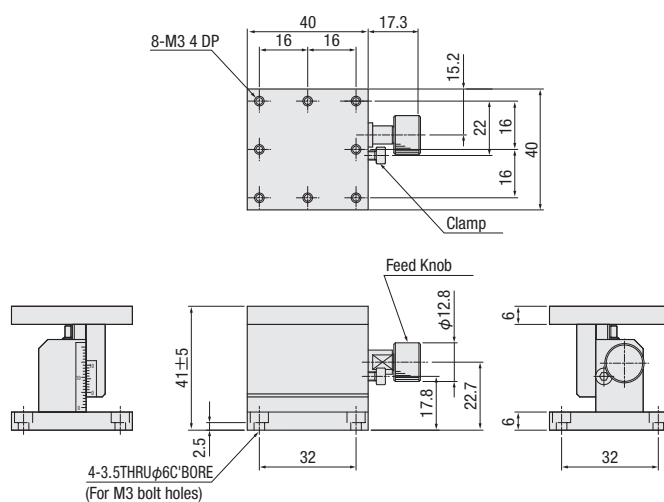
B07-1N



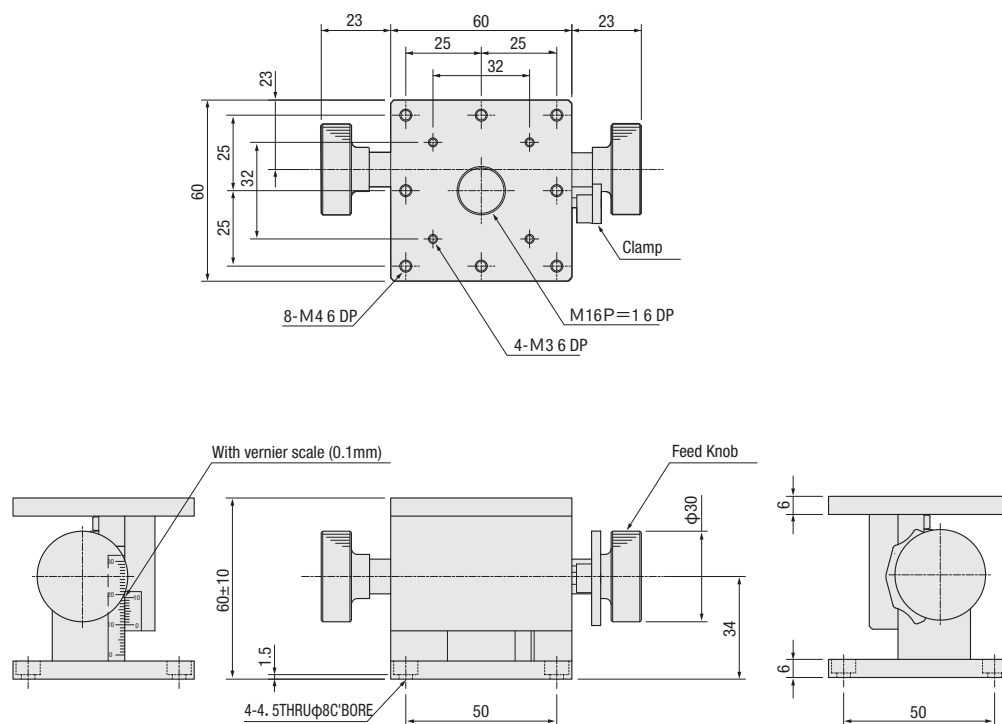
BDBHR-25



B07-2N

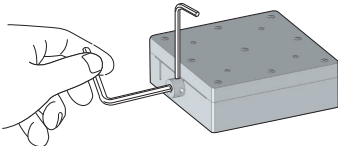
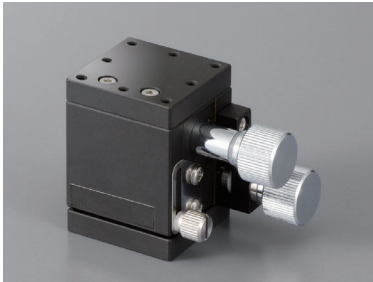


B07-3N



XZ-axis Dovetail Stage□25: B05/B08/BDBUS/B09

RoHS

Type	Product image	Features
Rack and pinion	Stage table size □25mm B05-04 	【Features】 Rack and pinion B05-01 is combined to XZ-axis.
Feeding screw	Stage table size □25mm B08-4  BDBUS-25 	【Features】 - Lead 0.5mm feeding screw XZ-axis stage. - Saving-space and prevention error operation by using hex wrench type.  BDBUS series
Composite shaft	Stage table size □25mm B09-27U 	【Features】 It is compact model to combine rack and pinion and feeding screw.

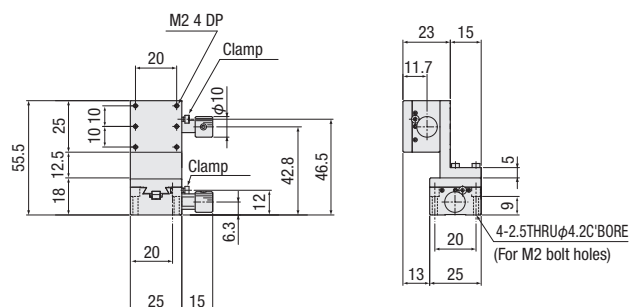
Configuration

Model	B05-04	B08-4	BDBUS-25	B09-27U
Z-axis/Reference page	B05-03/ P.2-113~	B08-3/ P.2-113~	BDBZS-25/ P.2-113~	—
X-axis/Reference page	B05-01/ P.2-099~	B08-1/ P.2-099~	BDBXS-25/ P.2-099~	—

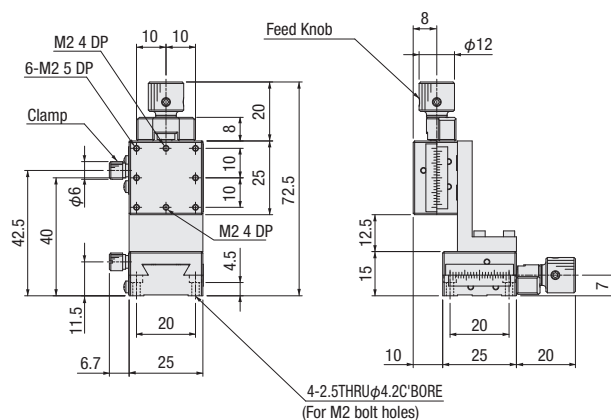
SPEC					
Model		B05-04	B08-4	BDBUS-25	B09-27U
(Opposite hand)		B05-04R	B08-4R	—	—
Stage table size		25×25mm			
Travel distance		XZ: ±5mm		XZ: ±3mm	X: ±5mm Z: +10mm
Travel distance per rotation of knob		17mm	0.5mm		X: 0.5mm Z: 14mm
Minimum reading capability		Vernier scale 0.1mm		—	
Load capacity		0.7kgf [6.9N]	1.0kgf [9.8N]		
Travel accuracy	Straightness	—			30μm
Allowable load for moment	Pitch	0.5N • m	2.0N • m	2.0N • m	0.4N • m
	Yaw	0.5N • m	1.5N • m	1.3N • m	0.4N • m
	Roll	0.5N • m	1.5N • m	1.3N • m	0.4N • m
Parallelism		—			200μm
Weight		0.2kg	0.17kg	0.14kg	0.17kg
Main material—Surface finishing		Brass—Black coating finish			
Provided screws (Hex socket screws)		4 of M2—12	4 of M2—8	3 of M2—6	4 of M2—5

Dimensional outline drawings

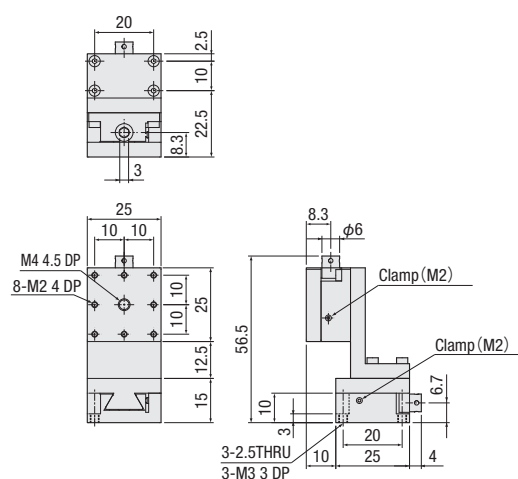
B05-04



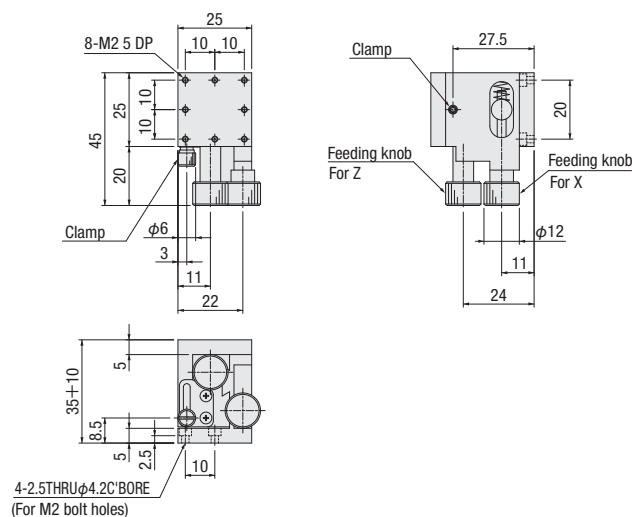
B08-4



BDBUS-25



B09-27U



X

XY

Z

Horizontal
Z

XZ

Horizontal
XZ

XYZ

Horizontal

11/11/2016

Notary

Unit

Accessories

Linear Ball

Cross Roller

Dovetail

25

30

40

50

60

70

80

100

120

Other

2

124

XZ-axis Dovetail Stage □40: B05/B08/BDBUS/B09

RoHS

Type

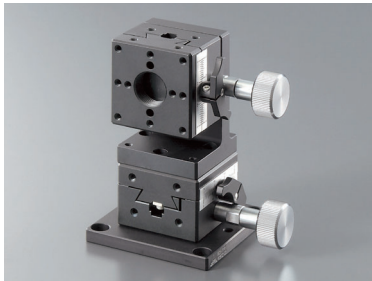
Product image

Features

Rack and pinion

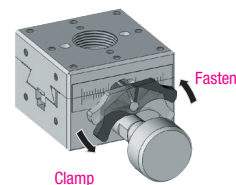
Stage table size □40mm

B05-4NH



【Features】

- Rack and pinion is combined to XZ-axis.
- Original clamp is adapted.



Feeding screw

Short lead

Stage table size □40mm

B08-14

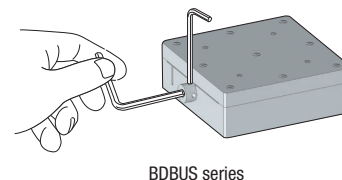


BDBUS-40



【Features】

- Lead 0.5mm feeding screw XZ-axis stage.
- Saving-space and prevention error operation by using hex wrench type.



Composite shaft

Stage table size □40mm

B09-37U



【Features】

- It is compact model to combine rack and pinion and feeding screw.

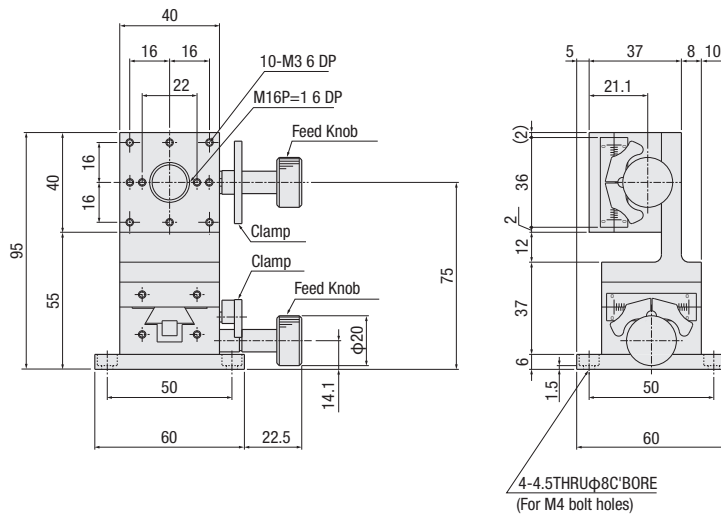
Configuration

Model	B05-4NH	B08-14	BDBUS-40	B09-37U
Z-axis/Reference page	B05-3NH/ P.2-115~	B08-13/ P.2-115~	BDBZS-40/ P.2-115~	—
X-axis/Reference page	B05-1NH/ P.2-101~	B08-11/ P.2-101~	BDBXS-40/ P.2-101~	—

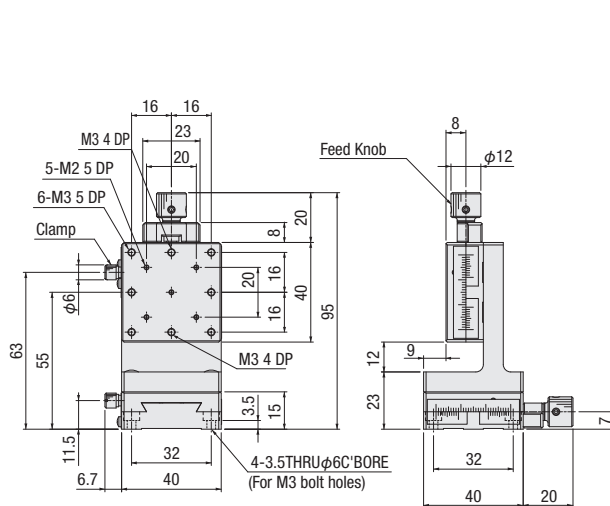
SPEC				
Model	B05-4NH	B08-14	BDBUS-40	B09-37U
(Opposite hand)	B05-4NHR	B08-14R	—	—
Stage table size	40×40mm			
Travel distance	XZ: ±10mm	XZ: ±7mm	XZ: ±5mm	X: ±7mm Z: +10mm
Travel distance per rotation of knob	20mm	0.5mm		X: 0.5mm Z: 14mm
Minimum reading capability	Vernier scale 0.1mm		—	
Load capacity	1.5kgf [14.7N]		1.0kgf [9.8N]	
Travel accuracy	Straightness			30μm
	Pitch			0.8N • m
	Yaw			0.8N • m
	Roll			0.8N • m
Parallelism	—			200μm
Weight	0.45kg	0.46kg	0.51kg	
Main material—Surface finishing	Aluminum—Black alumite processing		Brass—Black coating finish	
Provided screws (Hex socket screws)	4 of M4—6	4 of M3—6	4 of M3—8	4 of M3—6

Dimensional outline drawings

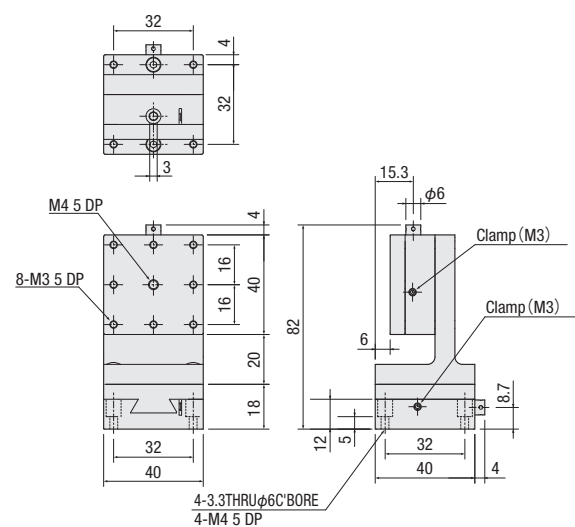
B05-4NH



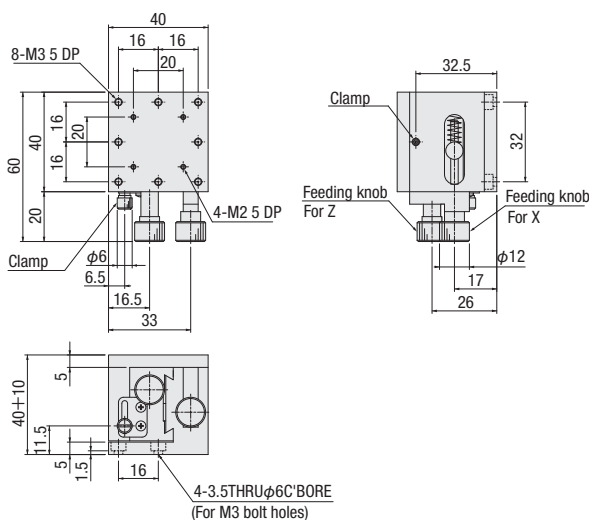
B08-14



BDBUS-40



B09-37U



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

126

XZ-axis Dovetail Stage □60: B08/BDBUS/B09

RoHS

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
127

Type

Product image

Features

Stage table size □60mm

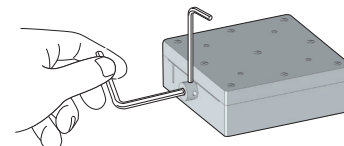
B08-114

BDBUS-60



【Features】

- Lead 0.5mm feeding screw XZ-axis stage.
- Saving-space and prevention error operation by using hex wrench type.



BDBUS series

Stage table size □60mm

B09-47U



【Features】

- It is compact model to combine rack and pinion and feeding screw.

Configuration

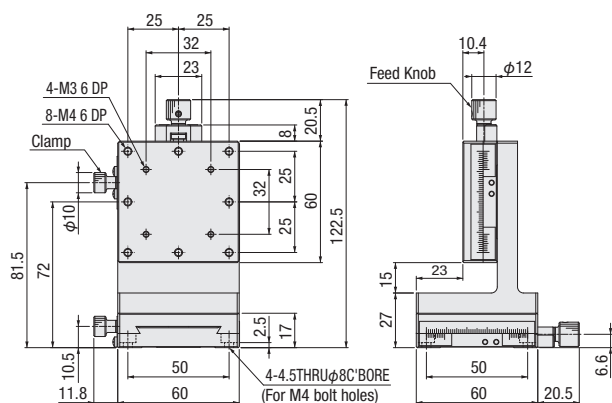
Model	B08-114	BDBUS-60	B09-47U
Z-axis/Reference page	B08-113/ P.2-117~	BDBZS-60/ P.2-117~	—
X-axis/Reference page	B08-111/ P.2-103~	BDBXS-60/ P.2-103~	—

SPEC				
Model	B08-114		BDBUS-60	
(Opposite hand)	B08-114R		—	
Stage table size	60×60mm		—	
Travel distance	XZ: ±9mm		XZ: ±7mm	
Travel distance per rotation of knob	0.5mm		X: 0.5mm Z: 20mm	
Minimum reading capability	Vernier scale 0.1mm		—	
Load capacity	2.0kgf [19.6N]		1.0kgf [9.8N]	
Travel accuracy	Straightness		30μm	
	Pitch		2.0N • m	
	Yaw		1.0N • m	
	Roll		1.3N • m	
Parallelism	—		200μm	
Weight	1.35kg		1.19kg	
Main material — Surface finishing	Brass — Black coating finish		Aluminum — Black alumite processing	
Provided screws (Hex socket screws)	4 of M4 — 6		4 of M4 — 10	

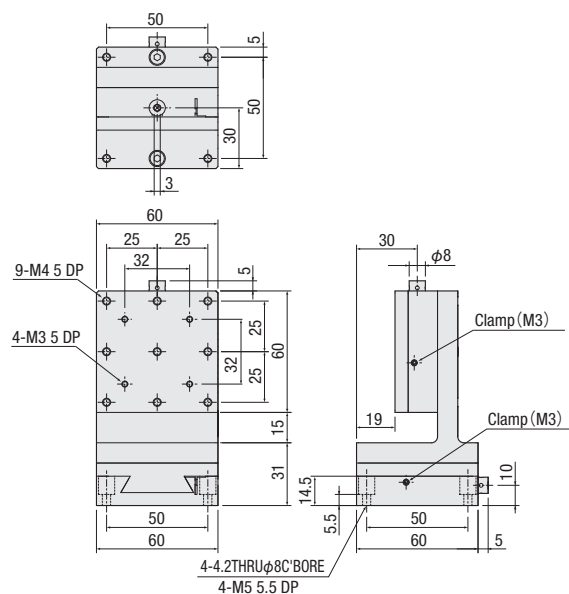
2
127

Dimensional outline drawings

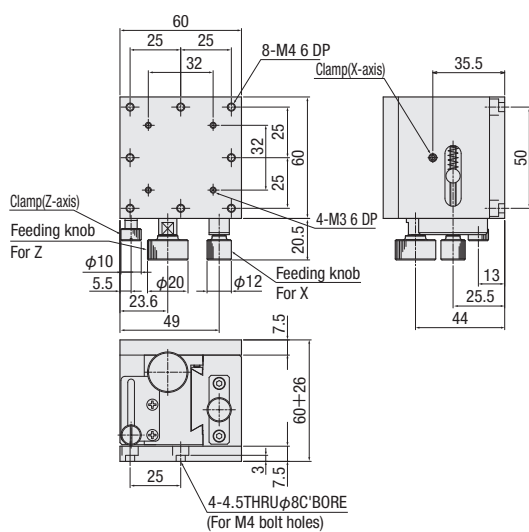
B08-114



BDBUS-60



B09-47U



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
100

128

XYZ-axis Dovetail Stage □25: B05/B08/BDBVS/B09

RoHS

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

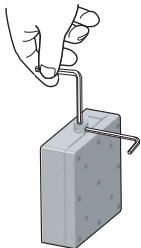
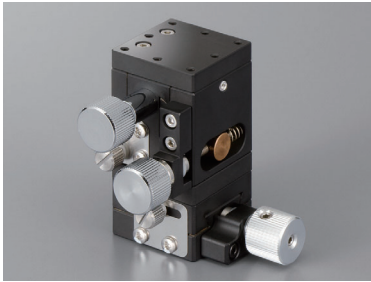
□100

□120

Other

2

129

Type	Product image	Features
Rack and pinion	Stage table size □25mm B05-07 	【Features】 Rack and pinion B05-01 is combined to XYZ-axis.
Feeding screw	Stage table size □25mm B08-7  BDBVS-25 	【Features】 - Lead 0.5mm feeding screw XZ-axis stage of B08/BDB series. - Saving-space and prevention error operation by using hex wrench type.  BDBVS series
Composite shaft	Stage table size □25mm B09-27 	【Features】 It is compact model to combine rack and pinion and feeding screw.

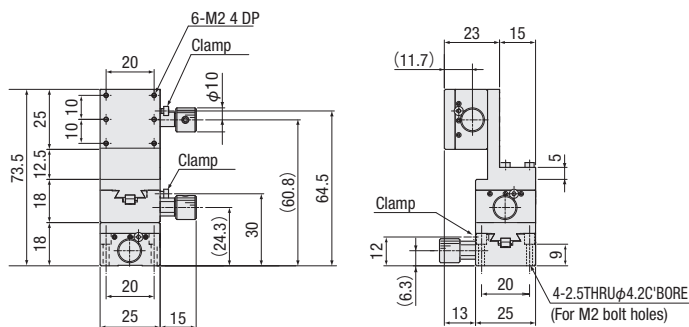
Configuration

Model	B05-07	B08-7	BDBVS-25	B09-27
Z-axis/Reference page	B05-03/ P.2-113~	B08-3/ P.2-113~	BDBZS-25/ P.2-113~	B09-27U/ P.2-123~
Y-axis/Reference page	B05-01/ P.2-099~	B08-1/ P.2-099~	BDBXS-25/ P.2-099~	
X-axis/Reference page	B05-01/ P.2-099~	B08-1/ P.2-099~	BDBXS-25/ P.2-099~	B08-1R/ P.2-099~

SPEC				
Model	B05-07	B08-7	BDBVS-25	B09-27
(Opposite hand)	B05-07R	B08-7R	—	—
Stage table size	25×25mm			
Travel distance	XYZ: ±5mm		XYZ: ±3mm	XY: ±5mm Z: +10mm
Travel distance per rotation of knob	17mm	0.5mm	—	XY: 0.5mm Z: 14mm
Minimum reading capability	Vernier scale 0.1mm		—	Vernier scale 0.1mm (only x)
Load capacity	0.7kgf [6.9N]	1.0kgf [9.8N]		
Travel accuracy	Straightness	—		
Allowable load for moment	Pitch	0.5N・m	1.5N・m	0.4N・m
	Yaw	0.5N・m	1.5N・m	0.4N・m
	Roll	0.5N・m	1.5N・m	0.4N・m
Weight	0.29kg	0.24kg	0.2kg	0.24kg
Main material — Surface finishing		Brass — Black coating finish		
Provided screws (Hex socket screws)		4 of M2 — 12	4 of M2 — 8	3 of M2 — 6
				4 of M2 — 8

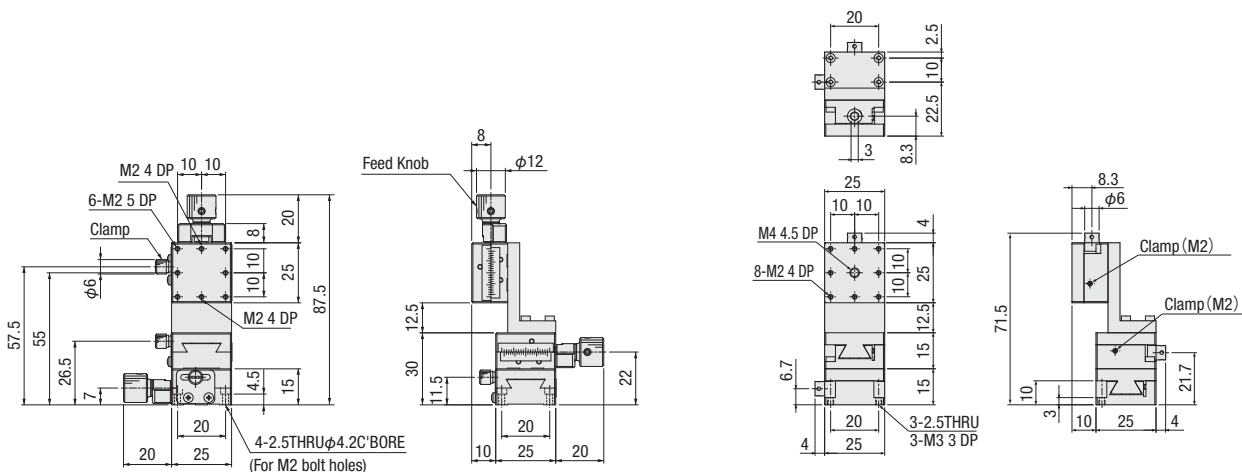
Dimensional outline drawings

B05-07

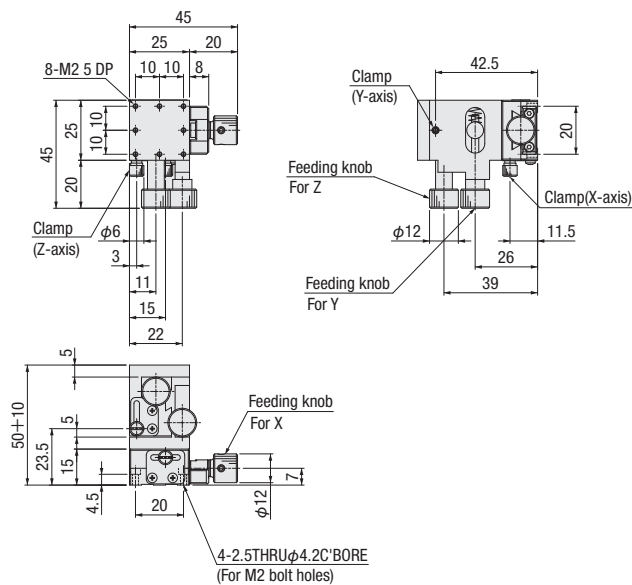


B08-7

BDBVS-25



B09-27



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

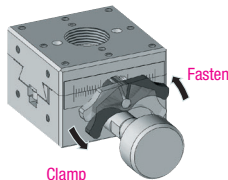
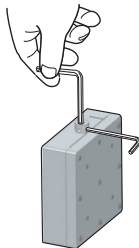
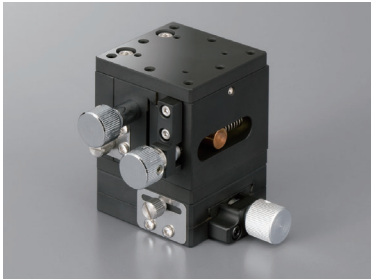
Other

2

130

XYZ-axis Dovetail Stage □40: B05/B08/BDBVS/B09

RoHS

Type	Product image	Features
Rack and pinion	Stage table size □40mm B05-7NH 	【Features】 - Rack and pinion B05-01 is combined to XYZ-axis. - Original clamp is adapted. 
Feeding screw	Stage table size □40mm B08-17  BDBVS-40 	【Features】 - Lead 0.5mm feeding screw XZ-axis stage of B08/BDB series. - Saving-space and prevention error operation by using hex wrench type.  BDBVS series
Composite shaft	Stage table size □40mm B09-37 	【Features】 It is compact model to combine rack and pinion and feeding screw.

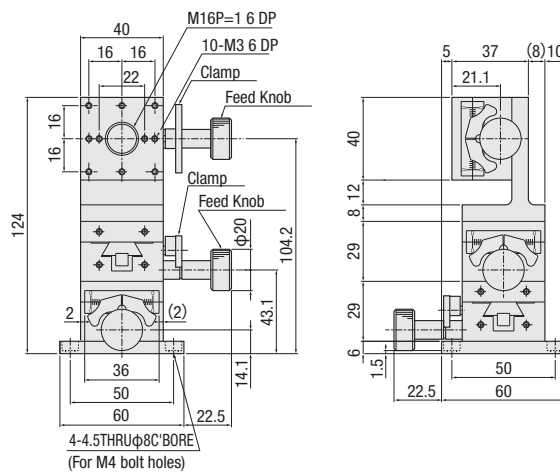
Configuration

Model	B05-7NH	B08-17	BDBVS-40	B09-37
Z-axis/Reference page	B05-3NH/CP.2-101~	B08-13/CP.2-101~	BDBZS-40/CP.2-101~	B09-37U/CP.2-125~
Y-axis/Reference page	B05-1NH/CP.2-101~	B08-11/CP.2-101~	BDBXS-40/CP.2-101~	
X-axis/Reference page	B05-1NH/CP.2-101~	B08-11/CP.2-101~	BDBXS-40/CP.2-101~	

SPEC				
Model	B05-7NH	B08-17	BDBVS-40	B09-37
(Opposite hand)	B05-7NHR	B08-17R	—	—
Stage table size	40×40mm			
Travel distance	XYZ: ±10mm	XYZ: ±7mm	XYZ: ±5mm	XY: ±7mm Z: +10mm
Travel distance per rotation of knob	20mm	0.5mm		XY: 0.5mm Z: 14mm
Minimum reading capability	Vernier scale 0.1mm		—	Vernier scale 0.1mm (only x)
Load capacity	1.5kgf [14.7N]	1.0kgf [9.8N]		
Travel accuracy	Straightness	—		
Allowable load for moment	Pitch	2.0N・m		0.8N・m
	Yaw	2.0N・m		0.8N・m
	Roll	2.0N・m		0.8N・m
Weight	0.61kg	0.65kg	0.73kg	0.7kg
Main material—Surface finishing	Aluminum—Black alumite processing		Brass—Black coating finish	
Provided screws (Hex socket screws)	4 of M4—6	4 of M3—6	4 of M3—8	4 of M3—6

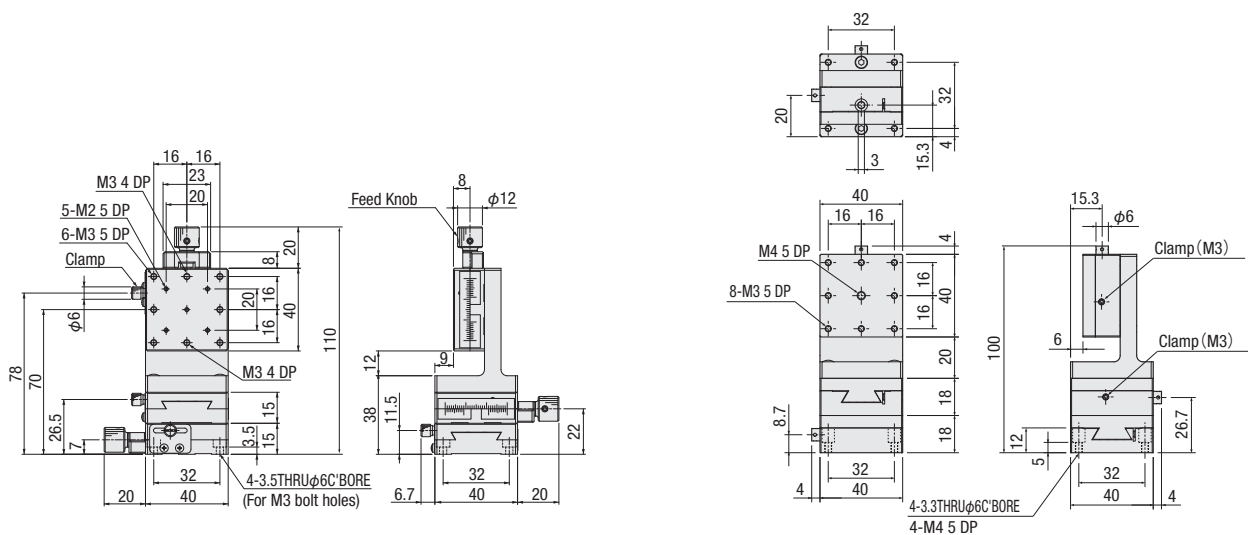
Dimensional outline drawings

B05-7NH

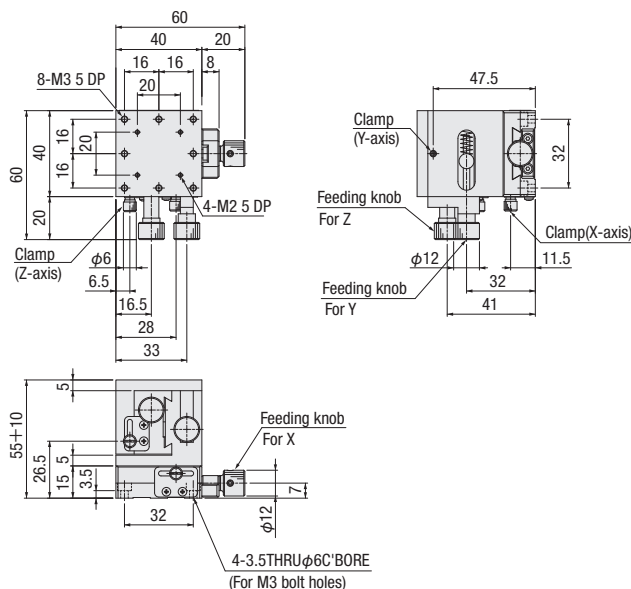


B08-17

BDBVS-40



B09-37



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

132

XYZ-axis Dovetail Stage □60: B08/BDBVS/B09

RoHS

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

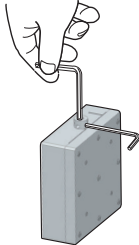
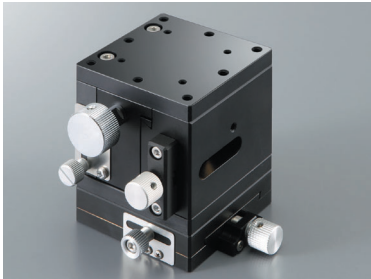
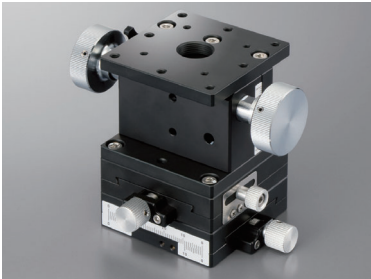
□80

□100

□120

Other

2
133

Type	Product image	Features
Feeding screw	Stage table size □60mm B08-117  BDBVS-60 	【Features】 - Lead 0.5mm feeding screw XZ-axis stage of B08/BDB series. - Saving-space and prevention error operation by using hex wrench type.  BDBVS series
Composite shaft	Stage table size □60mm B09-47L  B09-47 	【Features】 It is compact model to combine rack and pinion and feeding screw.

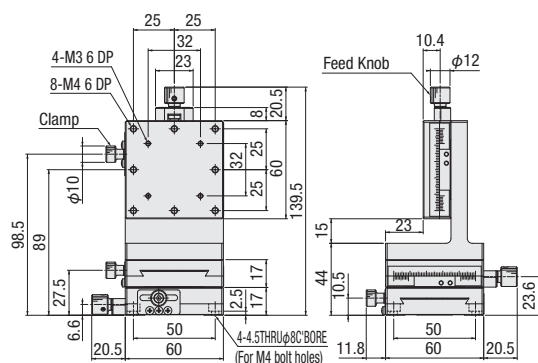
Configuration

Model	B08-117	BDBVS-60	B09-47L	B09-47
Z-axis/Reference page	B08-113/ P.2-117~	BDBVS-60/ P.2-117~	B09-47U/ P.2-127~	B07-3N/ P.2-121~
Y-axis/Reference page	B08-111/ P.2-103~	BDBVS-60/ P.2-103~		B08-112/ P.2-111~
X-axis/Reference page	B08-111/ P.2-103~	BDBVS-60/ P.2-103~	B08-111R/ P.2-103~	

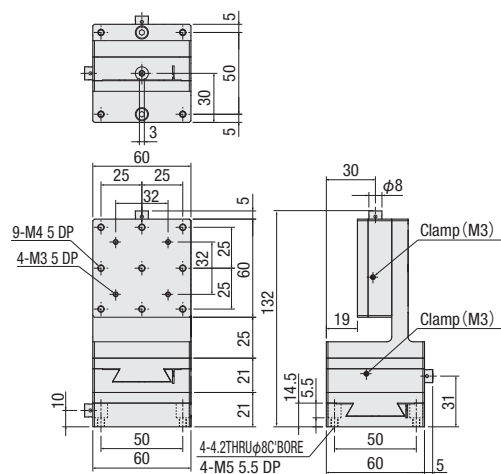
SPEC				
Model	B08-117	BDBVS-60	B09-47L	B09-47
(Opposite hand)	B08-117R	—	—	B09-47R
Stage table size	60×60mm			
Travel distance	XYZ: ±9mm	XYZ: ±7mm	X: ±9mm Y: ±10mm Z: +26mm	XY: ±9mm Z: ±10mm
Travel distance per rotation of knob	0.5mm		XY: 0.5mm Z: 18mm	
Minimum reading capability	Vernier scale 0.1mm	—	Vernier scale 0.1mm (only x)	Vernier scale 0.1mm
Load capacity	2.0kgf [19.6N]		1.0kgf [9.8N]	1.5kgf [14.7N]
Travel accuracy	Straightness —			
Allowable load for moment	Pitch	4.0N · m	1.3N · m	4.0N · m
	Yaw	4.0N · m	1.0N · m	4.0N · m
	Roll	4.0N · m	2.0N · m	2.5N · m
Weight	1.95kg	1.71kg	1.22kg	1.57kg
Main material — Surface finishing	Brass — Black coating finish		Brass/Aluminum — Black coating finish/Black alumite processing	
Provided screws (Hex socket screws)	4 of M4—6	4 of M4—10	4 of M4—6	

Dimensional outline drawings

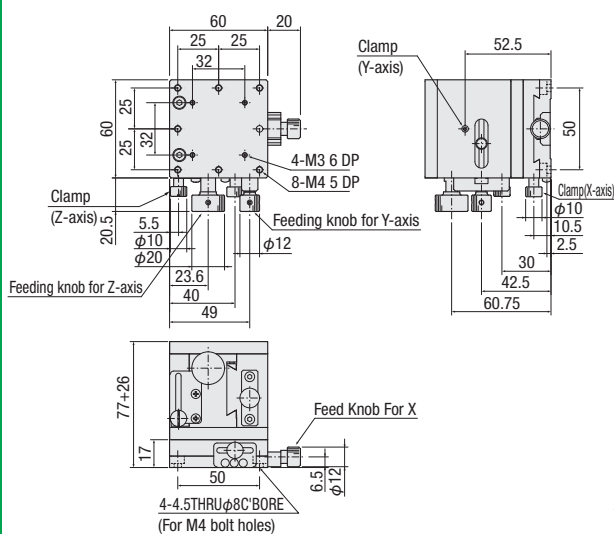
B08-117



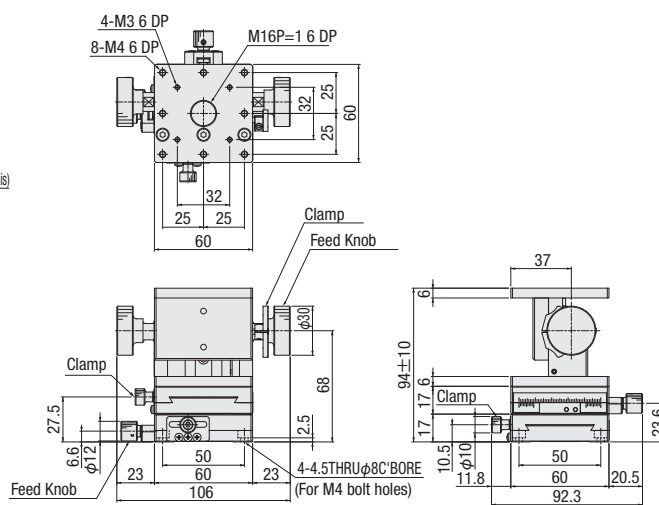
BDBVS-60



B09-47L



B09-47



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

134