

[High Precision] Dovetail, Feed Screw Stages

X-Axis Handle Extension / Clamp Reinforcement (Pitch 0.5 mm)

Travel per Rotation	Small	Medium	Large
Stroke	Short	Medium	Long
Load Capacity	Light	Medium	Heavy

X-Axis Handle Extension
(Pitch 0.5mm)

RoHS 10

Application Example

XEGL60
FWBB6-70-E14-F6
P.2405
KNB6-24
P.3216

XEGL25

6-M2 Depth 5, 2-M2 Depth 4, M6 Depth 14, 10 (Wrench Width), 11.5 Clamp (M2x3.5), 4-Ø2.5 Through, Ø4.2 Counterbore, Depth 2.5

XEGL60

8-M4 Depth 6, 4-M3 Depth 6, M6 Depth 14, 10 (Wrench Width), 10.5 Clamp (M3x4), 4-Ø4.5 Through, Ø8 Counterbore, Depth 4.5

Materials: (Main Body) Low Cadmium Brass
(Feed Knob) Low Cadmium Brass
Surface Treatment: Black Fluororesin Treatment

Part Number Type	No.	Stage Surface (mm)	Travel Distance (mm)	Travel per Knob Rotation (mm)	Load Capacity (N)		Travel Accuracy (µm)		Moment Load Capacity (N·m)			Parallelism	Weight (kg)	Accessories (4 pcs.) Type M-L		
					Horizontal	Vertical	Straightness	Parallelism	Pitching	Yawing	Rolling					
XEGL	25	25 x 25	±5	0.5	29.4	9.8	30	30	2.0	1.5	1.3	40 µm	0.1	SCB2-8		
	40	40 x 40	±7						4.0	3.0	3.0				0.2	SCB3-6
	60	60 x 60	±9						5.0	4.0	4.0				0.5	SCB4-6

- Resolution (Vernier Scale Indication): 0.1 mm/division
- Extension Cover HDEXT12 (Sold Separately): Ø12 feed screw knob can be extended. P.2035
- XY-Axis Mounting Plate XPLTE: Use this plate when connecting stages with non-matching mounting holes. P.2021

Part Number Example

XEGL60

Part Number Alterations

XEGL60 - R

Alteration	Clamp Position Change (Right / Left Reversed)
Spec.	
Code	R

See the CAD data for details.

X-Axis Clamp Reinforcement
(Pitch 0.5mm)

RoHS 10

Application Example

Clamp Reinforcing Method

XEGL60

There will be residual clearances with carriage retaining only with a Reinforced Clamp. Use a Clamp Screw in combination.

XEGCL25

Reinforced Clamp (SCB4-10), 11.5 Clamp, Reinforced Clamp, Clamp (M2x3.5), 6-M2 Depth 5, 2-M2 Depth 4, Feed Handle, 15, 20, 10 (Wrench Width), 11.5 Clamp (M2x3.5), 4-Ø2.5 Through, Ø4.2 Counterbore, Depth 2.5

XEGCL60

Reinforced Clamp (SCB4-12), Reinforced Clamp, 13.2 Clamp, 10.5 Clamp (M3x4), 8-M4 Depth 6, 4-M3 Depth 6, Feed Handle, 17, 50, 10 (Wrench Width), 10.5 Clamp (M3x4), 4-Ø4.5 Through, Ø8 Counterbore, Depth 4.5

Materials: (Body) Low Cadmium Brass
(Feed Handle) Aluminum
Surface Treatment: Black Fluororesin Treatment

Part Number Type	No.	Stage Surface (mm)	Travel Distance (mm)	Travel per Knob Rotation (mm)	Load Capacity (N)		Travel Accuracy (µm)		Moment Load Capacity (N·m)			Parallelism	Weight (kg)	Accessories (4 pcs.) Type M-L		
					Horizontal	Vertical	Straightness	Parallelism	Pitching	Yawing	Rolling					
XEGCL	25	25 x 25	±5	0.5	29.4	9.8	30	30	2.0	1.5	1.3	40 µm	0.08	SCB2-8		
	40	40 x 40	±7						4.0	3.0	3.0				0.20	SCB3-6
	60	60 x 60	±9						5.0	4.0	4.0				0.50	SCB4-6

- Min. reading (Vernier Scale Indication) : 0.1 mm/division
- Extension cover HDEXT12 (Sold separately): Ø12 feed screw knob can be extended. P.2035
- XY-Axis Adapter Plate XPLTE: Use this plate when connecting stages with non-matching mounting holes. P.2021

Part Number Example

XEGCL40

Part Number Alterations

XEGCL60 - R

Alteration	Clamp Position Change (Right / Left Reversed)
Spec.	
Code	R

See the CAD data for details.
Reinforced Clamp position will not change when an alteration R is specified.

Knob Cover / Extension Cover

Travel per Rotation	Small	Medium	Large
Stroke	Short	Medium	Long
Load Capacity	Light	Medium	Heavy

Knob Covers

RoHS 10

*Set of 3 units

HDCVR13

2-M3 Set Screw (For Fixation), 32, 25, 20, 10 (Wrench Width), Ø13.3, Ø21, 20, 7, 25, 30, 20

Material: ABS Resin (Black)

Application Example

Three pieces of Knob Covers (HDCVR13) are included in one order.

Part Number Example

HDCVR13

Extended Knob

RoHS 10

HDEXT

L50

2-C1, Ø20, 50, 2-M3, 20, 20, 20, 20, 20, 20

L65

4-C1, Ø13, 65, 2-M3, 20, 20, 20, 20, 20, 20

L80

4-C1, Ø13, 80, 2-M3, 20, 20, 20, 20, 20, 20

Material: 2017 Aluminum Alloy
Surface Treatment: Clear Anodize
Accessories: Set Screw MSW1-10 Tool Steel-3 (2 pcs.)

Type	Part Number No.	L	Applicable Knob	Handle Outer Diameter	v	ℓ	ℓ ₁
HDEXT	12	50	Ø12	Ø20	12.3	16	8
		65		Ø26			
		80		Ø26			
	13	50	Ø13	Ø20	13.3	14	7
		65		Ø26			
		80		Ø26			

Part Number Example

HDEXT12-65