


[High Precision] Dovetail Slide, Feed Screw

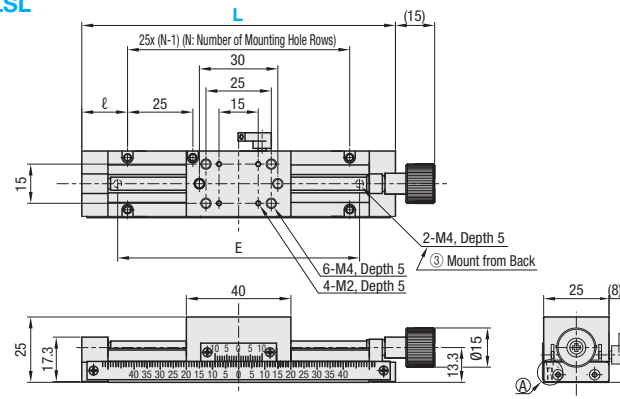
Long (Selectable lead) / Compact Carriage (Lead 4.2mm)

■ **Features:** Dovetail Slide Feed Screw stage with selectable screw lead in 2mm, 5mm, 10mm. Long strokes equivalent of Rack & Pinion stages. Also suitable for vertical uses.

■ **X-Axis Long**
(Selectable lead type)



XLSL



① Mount from Top
Use M2 screws.
② Mount from Bottom
Use M3 screws.
③ Mount from Bottom
Use M4 screws.

A Mounting Hole Enlarged View

① Mount from Front
② Mount from Back

M Material: Aluminum Alloy
S Surface Treatment: Black Anodize

⚠ The scale in the above figure is for L120, and not for L90,150.
⚠ The external dimensions will be the same if L is the same, even if the move distance per knob rotation is different.

Ordering Example **Part Number**
XLSL90-5


Part Number		Travel per	Travel	L	N	Number of Mounting Holes	ℓ	E	Load Capacity (N)		Travel Accuracy (μm)		Weight	Unit Price
Type	No.	Rotation (mm)	Distance (mm)		Number of Mounting Hole Rows	(N×2)	(mm)	(mm)	Horizontal	Vertical	Straightness	Parallelism	(kg)	
XLSL	90	2	±27	90	3	6	20	55	29.4	14.7	30	30	0.14	
		5												
		10												
	120	2	±42	120	4	8	22.5	80					0.16	
		5												
		10												
	150	5	±57	150	5	10	25	110			40	40	0.18	
		10												

⚠ Resolution (Vernier Scale Indication): 0.1mm/division
⚠ Knob Cover HDEV15 (Sold Separately): Ø15 knobs can be increased in diameter by installing the cover. **P2004**
⚠ Adjustable Plate XPLT40: Use this plate when connecting stages with non-matching mounting holes. **P1915**

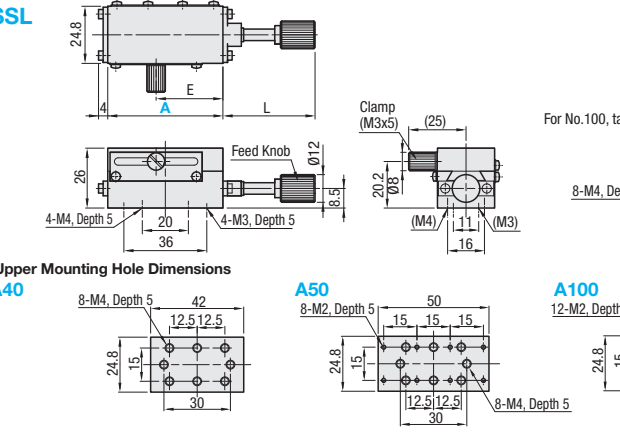
Ordering Example **Part Number**
XLSL90-5

■ **Features:** Smooth feeding dovetails slide stages in 4.2mm lead. A space saving slim shape (24.8mm width) compared to rectangle type XSL (**P1900**).

■ **X-Axis, Compact Carriage**
(Lead 4.2mm)



XSSL



• Upper Mounting Hole Dimensions

A40

A50

A100

M Material: Aluminum Alloy **S** Surface Treatment: Black Anodize

For No.100, tapped mounting holes are as shown below.

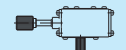
Ordering Example **Part Number**
XSSL50

Part Number Type	A	Stage Surface (mm)	Travel Distance (mm)	Travel per Rotation (mm)	L	E	Load Capacity (N)		Travel Accuracy (μm)		Weight (kg)	Accessory Type M-L Qty.	Unit Price
							Horizontal	Vertical	Straightness	Parallelism			
XSSL	40	24.8x42	±12	4.2	40	25	29.4	14.7	20	30	0.11	SCB4-8 SCB3-6	4
	50	24.8x50	±16		40	29	29.4	14.7	30	30	0.12	SCB4-8 SCB3-6	4
	100	24.8x100	±40		60	54	39.2	19.6	30	30	0.22	SCB4-8 SCB3-6	4

⚠ Resolution (Vernier Scale Indication): 0.1mm/division
⚠ Extension Cover HDEV12 (Sold Separately): Ø12 feed screw knob can be extended. **P2004**
⚠ Adjustable Plate XPLT: Use this plate when connecting stages with non-matching mounting holes. **P1915**

Ordering Example **Part Number**
XSSL50

Alterations **Part Number** - (R)
XSSL100 - R


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

[High Precision] X-Axis Dovetail Slide, Feed Screw / [Simplified Adjustments] X-Axis Rack & Pinion

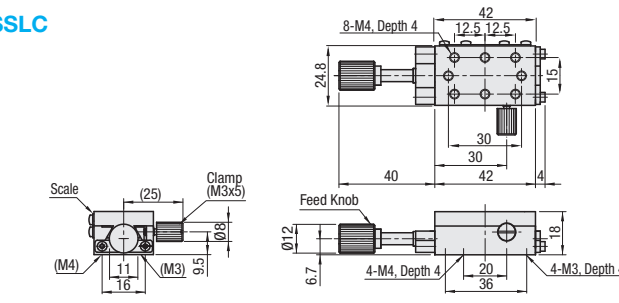
Compact Carriage, Low Profile (Lead 4.2mm) / Standard

■ **Features:** Travel distance per knob rotation is approx. 1/4 of the Rack & Pinion Type. Suitable for fine pitch positioning over a long stroke.

■ **X-Axis, Compact Carriage, Low Profile**
(Lead 4.2mm)



XSSLC




M Material: Aluminum Alloy
S Surface Treatment: Black Anodize

Resolution (Vernier Scale Indication): 0.1mm/division
Extension Cover HDEV12 (Sold Separately): Ø12 feed screw knob can be extended. **P2004**
Adjustable Plate XPLT: Use this plate when connecting stages with non-matching mounting holes. **P1915**

Ordering Example **Part Number**
XSSLC40


Part Number Type	No.	Stage Surface (mm)	Travel Distance (mm)	Travel per Rotation (mm)	Load Capacity (N)		Travel Accuracy (μm)		Weight (kg)	Accessory Type M-L Qty.		Unit Price
					Horizontal	Vertical	Straightness	Parallelism		SCB4-6	4	
XSSLC	40	24.8x42	±12	4.2	19.6	9.8	30	30	0.08			

Ordering Example **Part Number**
XSSLC40


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

■ **Features:** Simplified construction stages with large rapid feeds. Select from Standard or Precision grades based on application needs.

■ **Standard Grade XKRG**



■ **Precision Grade XKRKG**



■ **Accuracy Standards** ⚠ There are some mechanical clearances as shown below, and not recommended for positioning applications requiring accuracies.

Standard Grade XKRG

Precision Grade XKRKG

XY-Axis **P1937**

Travel per Rotation: approx. 19mm

Ordering Example **Part Number**
XKRG40

Part Number Type	No.	Stage Surface (mm)	Travel Distance (mm)	B	X	P	Load Capacity (N)	Weight (kg)	Unit Price	
									XKRG	XKRKG
XKRG XKRKG	40	25x40	±12	25	31	-	29.4	0.10		
	60	40x60	±14	40	45	15	39.2	0.21		
	90	40x90	±23	40	75	15	39.2	0.30		

⚠ Travel per Rotation: Approx. 19mm ⚠ Minimum Graduation: 0.5mm

Ordering Example **Part Number**
XKRG60

M Material: Aluminum Alloy
S Surface Treatment: Black Anodize
A Accessory:
(XKRG)
Hex Socket Low Head Cap Screw (CBS4-6) 4pcs.
(XKRKG)
Hex Socket Cap Screw (SCB4-6) 4pcs.
* 2pcs for No.40