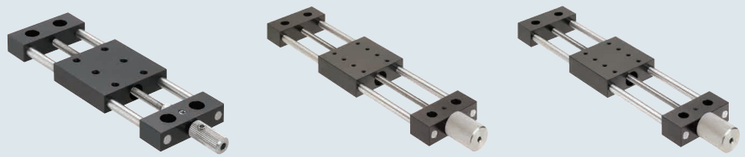
Simplified Adjustments (X Axis Feed Screw)

Configurable Type – Standard Handle / Large Handle / M6 Mounting Holes

Simplified Adjustments (X Axis Feed Screw) – Configurable Type



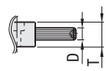
RoHS 10

	Type		Main Body		Shaft	Knob	Feed Screw	Accessories
	Standard Handle	Large Handle	Material	Surface Treatment	Material	Material	Material	
Standard	XKNEF	XKFL	Aluminum Alloy	Black Anodize	304 Stainless Steel	303 Stainless Steel	304 Stainless Steel	T=10 SCB4-10, 4pcs. T=20 SCB5-20, 4pcs.
M6 Mounting Holes	XKFM	XKFML						

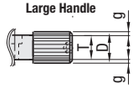
Type	T	D	(H)	C	M x Pitch	M_1	d_1	d_2	ℓ	R	g	t
XKNEF	10	7	16	15	M4 x P0.7	3	4.5	7.5	4.2	2.5	—	5
XKFM	20	10	30	25	M6 x P1.0	4	5.5	9	5.2	4	—	10
XKFL	10	15	16	15	M4 x P0.7	3	4.5	7.5	4.2	5	2.5	5
XKFML	20	24	30	25	M6 x P1.0	4	5.5	9	5.2	8	2	10

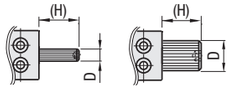
Handle Shape Comparisons

Standard Handle

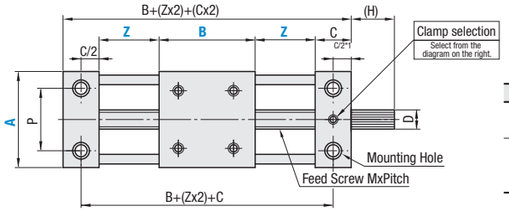


Large Handle



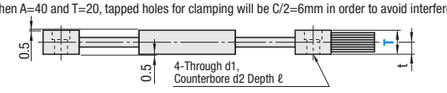


XKNEF (Standard Handle, M4 Mounting Holes)
XKFM (Standard Handle, M6 Mounting Holes)
XKFL (Large Handle, M4 Mounting Holes)
XKFML (Large Handle, M6 Mounting Holes)



T	A	P	Z
10	40	18	Selection Table on the next page
	60	30	
20	40	14	
	60	30	
	80		

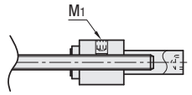
*1 When A=40 and T=20, tapped holes for clamping will be C/2=6mm in order to avoid interferences with the counterbored holes.



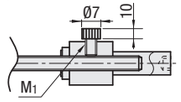
Hex Wrench Hole Details

Clamp Selection

S (Standard Set Screw)

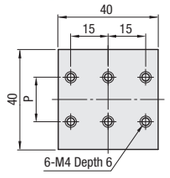


K (Knurled Knob)

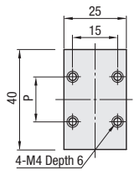


Stage Top Mounting Hole Dimensions (A-B) (*marked only for XKFM and XKFML)

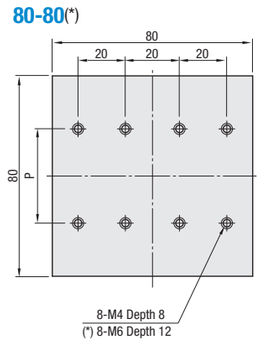
40-40



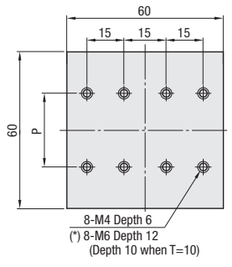
40-25



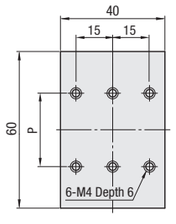
80-80(*)



60-60(*)



60-40

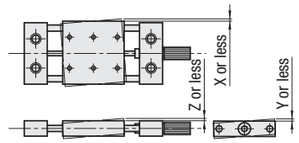


(80-80) Travel Distance Per Handle Rotation: 0.7 mm (T=10) / 1.0 mm (T=20)
Table's top and bottom surfaces are designed to be 0.5 mm higher than the end brackets.
See the right page for accuracy standards.
Due to its larger height, Large Handle can cause interference when used with main body plate.
When Large Handle is required, interference can be avoided by choosing Alteration-Code MMR.

Simplified Adjustments (X Axis Feed Screw)

Configurable Type – Standard Handle / Large Handle / M6 Mounting Holes, *continued*

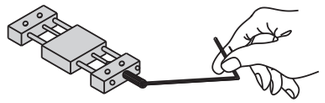
Accuracy Standards



T	X	Y	Z
10	0.1	0.1	0.1
20	0.15	0.15	0.15

There are some mechanical clearances as shown above, and not recommended for positioning applications requiring accuracies.

Application Example Long stroke moves can be made easier with use of ball-point hex wrench.



Part Number			Load Capacity (N)			
			Z	Clamp Selection	T=10	T=20
Type	T	A-B	Travel Distance (Z x 2)		Z=10–30 / Z=40–70	Z=10–30 / Z=40–70
XKNEF XKFL	10 20	40-40	(10) 25 40 60	Standard S	39.2 (Horizontal) 19.6 (Vertical)	34.3 (Horizontal) 17.2 (Vertical)
		40-25	10 25 40 60			
		60-60	(15) 30 50 70			
		60-40	15 30 50 70			
		80-80 (T=20 Only)	15 30 50 70	Knurled Knob K	—	—
XKFM XKFML	10 20	60-60	(15) 30 50 70		39.2 (Horizontal) 19.6 (Vertical)	34.3 (Horizontal) 17.2 (Vertical)
		80-80 (T=20 Only)	15 30 50 70		—	—

Dimensions in ( ) are not selectable when T=10.
Travel per Rotation: 0.7 mm (T=10), 1.0 mm (T=20)

T	A-B	Mass (kg) XKNEF XKFM Z: 10	15	25	30	40	50	60	70	XKFL XKFML Z: 10	15	25	30	40	50	60	70
10	40-40	—	—	0.11	—	0.12	—	0.14	—	—	—	0.2	—	0.23	—	0.26	—
	40-25	0.08	—	0.09	—	0.1	—	0.12	—	0.14	—	0.17	—	0.2	—	0.24	—
	60-60	—	—	—	0.19	—	0.2	—	0.22	—	—	—	0.29	—	0.33	—	0.36
	60-40	—	0.14	—	0.15	—	0.17	—	0.18	—	0.22	—	0.24	—	0.28	—	0.32
20	40-40	0.2	—	0.21	—	0.22	—	0.23	—	0.28	—	0.3	—	0.33	—	0.37	—
	40-25	0.17	—	0.18	—	0.19	—	0.2	—	0.24	—	0.27	—	0.29	—	0.33	—
	60-60	—	0.36	—	0.37	—	0.39	—	0.41	—	0.45	—	0.48	—	0.52	—	0.56
	60-40	—	0.3	—	0.31	—	0.32	—	0.54	—	0.38	—	0.41	—	0.45	—	0.49
	80-80	—	0.57	—	0.58	—	0.6	—	0.61	—	0.67	—	0.7	—	0.74	—	0.78

Part Number Example

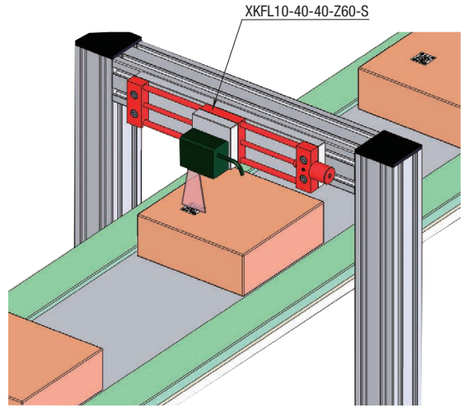
Part Number	-	Z	-	Clamp Selection
XKNEF10-40-25	-	Z40	-	S
XKFM20-60-60	-	Z50	-	K

Part Number Alterations

Part Number	-	Z	-	Clamp Selection	-	(MMR)
XKNEF10-40-25	-	Z40	-	S	-	MMR

Application Example

Bar-code Reader Position Adjustment



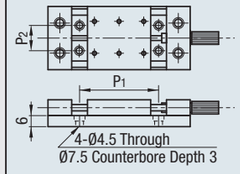
Alteration	Mount a Plate with Scaled Label on the Stage
Code	MMR

Spec.

Mounts a scaled plate on the stage

Minimum Graduation: 0.5 mm

Scaled plate alteration will change the mounting hole pitch since a plate is attached to the stage



Material: Aluminum Alloy
Surface Treatment: Black Anodize
Accessories: CBSST4-8 x 4 pcs.

Large Handle

T	A	P_2
10	40	18
	60	30
20	40	14
	60	30
	80	

A-B	Z	P_1
40-40	10 25	50
	40 60	110
40-25	10 25	35
	40 60	95
60-60	15 30	75
	50 70	145
60-40	15 30	55
	50 70	125
80-80	15 30	95
	50 70	165