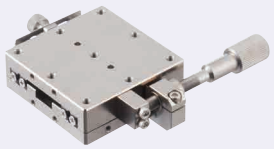
MISUMI VALUE [Standard] X-Axis Cross Roller

Steel, High Load Capacity

Features: Have the load capacity higher than Aluminum stages (P.1981). Have locating pin-based assembly workability improved and are provided with the reinforced clamp by standard.

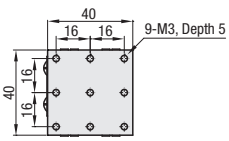
X-Axis



RoHS 10

Mounting Hole Dimensions of the Top Table

40



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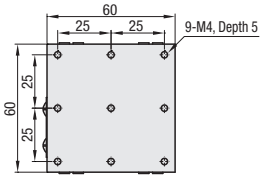

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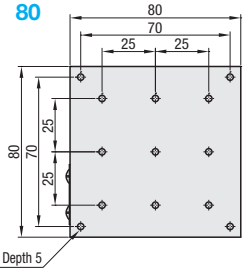
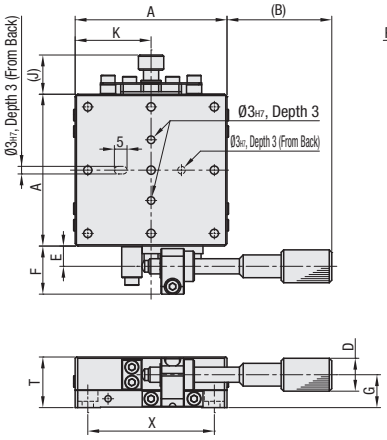
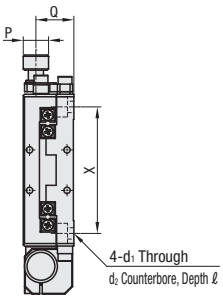


Feed Screw

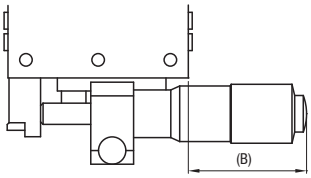
XSTCG (Pitch 0.5)
XSTBG (Pitch 1.0)





Micrometer Head

XSTL (for □40 Size only)



For Micro Type, the B dim. differs from the value indicated above.

M Material: S45C
S Surface Treatment: Electroless Nickel Plating

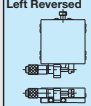
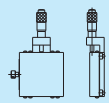
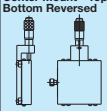
Type	A	Top View (B) Micrometer	Top View (B) Feed Screw	Top View Travel Distance (mm)	Top View E	Top View F	Top View J	Top View K	Front View D	Front View G	Front View T	Side View P	Side View Q	Side View X	Side View d_1	Side View d_2	Side View ℓ
XSTL (* only) XSTCG XSTBG	40*	27	43	±6.5	8	19	15	20	13	13	20	10	15	32	3.3	6.5	4.5
	60	-	39.4		8	19	15	30	13	13	20	10	15	50	4.5	8	4.4
	80	-	45.4		8	19	15	40	13	13	20	10	15	70	4.5	8	4.4

A	Stage Surface (mm)	Load Capacity (N)* Horizontal	Load Capacity (N)* Vertical	Travel Accuracy (μm) Straightness	Travel Accuracy (μm) Motion Parallelism	Allowable Moment (N·m) Pitching	Allowable Moment (N·m) Yawing	Allowable Moment (N·m) Rolling	Parallelism (μm)	Weight (kg) Micrometer	Weight (kg) Feed Screw	Unit Price Micrometer	Unit Price Feed Screw
40	40x40	58.8(68.6)	49(49)	20	20	2.75	2.5	3	30	0.26	0.29		
60	60x60	147(196)		20	20	5.8	5.8	5.8	30	-	0.54	-	
80	80x80	294(392)		20	20	19.2	15.1	17.3	30	-	0.95	-	

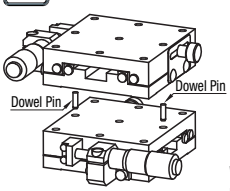
Micrometer Head Resolution: 10μm/division
* In the MISUMI catalog, the static load value is provided in ( ) for the referential purpose. For details, see P.1953.

Ordering Example: Model (Type, A) — XSTCG60

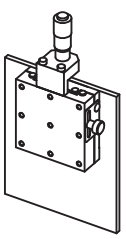
Alterations: Part Number - (CR, A···etc.)
XSTCG60 - CR
XSTL40 - AZ

Alterations	Micrometer Head Position		
	Side Mount - Right/ Left Reversed	Center	Center Mount - Top/ Bottom Reversed
Spec.			
Code	CR	A	AZ

ex



By using locating pins, an XY-Axis stage can be created easily.



When the feed mechanism is required to be positioned on the center of a stage vertically mounted, select AZ stage. For such an assembly, form a proper relief or level difference as shown on the above figure. Otherwise, the feed bracket will protrude from the bottom plate of the stage.

Notes on Vertical Use of X-Axis Stages

- When the X-axis stage is mounted vertically in such a way that, for the micrometer head having its position specified to be "Standard," "CR" or "A," its tip is orientated downward, the carriage may drop. (A load exceeding the spring pull force will cause the carriage to drop.)
- When the X-axis stage is mounted in the same manner as mentioned above, except where "AZ is specified as the micrometer head position, the resulting load is supported by the micrometer head and thus, the carriage does not drop. However, since, when the load is applied by exceeding the specified vertical load capacity for X-Axis, it may decrease the accuracy, do not mount the stage in the above manner.