

■ 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

■ Feed Screw

XSTCG (Pitch 0.5)
XSTBG (Pitch 1.0)

■ Micrometer Head

XSTL (for □40 Size only)

4-d: Through
d: Counterbore, Depth 2

Ⓜ Material: S45C
Ⓢ Surface Treatment: Electroless Nickel Plating

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

Type	A	Top View						Front View			Side View						
		(B)		Travel Distance (mm)	E	F	J	K	D	G	T	P	Q	X	d ₁	d ₂	ℓ
		Micrometer	Feed Screw														
XSTL (* only)	40*	27	43	±6.5	8	19	15	20	13	13	20	10	15	32	3.3	6.5	4.5
XSTCG	60	-	39.4		8	19	15	30	13	13	20	10	15	50	4.5	8	4.4
XSTBG	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)*		Travel Accuracy (μm)			Allowable Moment (N·m)			Parallelism (μm)	Weight (kg)		Unit Price	
		Horizontal	Vertical	Straightness	Motion	Parallelism	Pitching	Yawing	Rolling		Micrometer	Feed Screw	Micrometer	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

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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.