Fix Stage NEW Series

X / XY / Z / Rotary / Tilt / Two axes tilt

6-axis Fix Stage is now configurable with new line-up.

































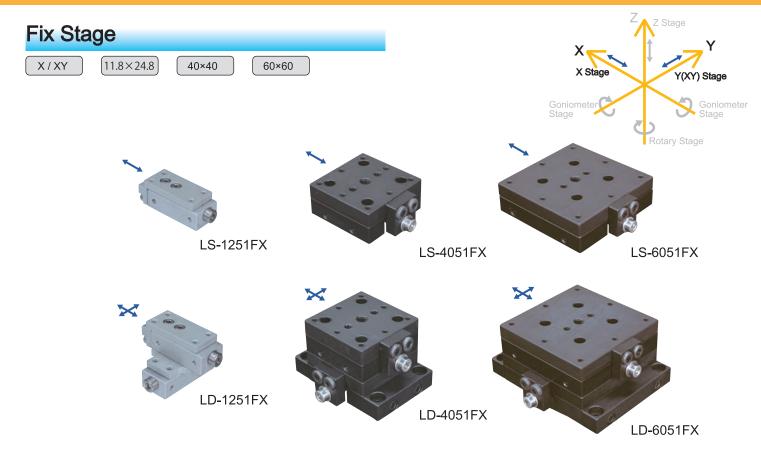












- No clamp mechanism and cannot be moved after positioning.
- Remarkably small backlash by self-locking mechanism.
- Positioning by hexagonal wrench.
 - *)Hexagonal wrench is not standard accessory. To be provided by user.
- Suitable for applications with infrequent position changes, i.e. cameras and/or sensors.
- May not only be used for horizontal but also for vertical and ceiling installation.
 - *)Patented technology.
 - *)Allowable load capacity depends on installation position. Please inquire for details.

Product number	LS-1251FX	LS-4051FX	LS-6051FX	LD-1251FX	LD-4051FX	LD-6051FX
Product name	X axis Fix Stage			XY axes Fix Stage		
Direction of travel	X axis, one-direction			XY axes, two-directions		
Stage size	11.8mm×24.8mm	40mm×40mm	60mm×60mm	11.8mm×24.8mm	40mm×40mm	60mm×60mm
Clamp method	Self-locking mechanism					
Transfer mechanism	Feed screw P=0.5mm	Feed screw P=0.7mm		Feed screw P=0.5mm	Feed screw P=0.7mm	
Travel	±1.5mm	±3.5mm	±5.5mm	±1.5mm	±3.5mm	±5.5mm
Travel / feed screw revolution	Approx. 0.5mm	Approx. 0.7mm		Approx. 0.5mm	Approx. 0.7mm	
Guiding method	Slide guide					
Parallelism	0.05mm			0.075mm		
Load capacity	4.9N(0.5kgf)	39.2N(4kgf)	58.8N(6kgf)	4.9N(0.5kgf)	39.2N(4kgf)	58.8N(6kgf)
Weight	0.01kg	0.09kg	0.19kg	0.02kg	0.19kg	0.41kg
RoHS	Compliant					



- No clamp mechanism and cannot be moved after positioning.
- Remarkably small backlash by self-locking mechanism.
- Positioning by hexagonal wrench.
 - *)Hexagonal wrench is not standard accessory. To be provided by user.
- Suitable for applications with infrequent position changes, i.e. as cameras and / or sensors.
- One axis positioning stage as thin as mounting plate (8mm).
- Head of feed screw is located at the center of the stage and designed flush. Suitable for narrow spaces.
- May not only be used for horizontal but also for vertical and ceiling installation.
 - *)Patented technology.
 - *)Allowable load capacity depends on installation position. Please inquire for details.

Product number	LS-T4052FX	LS-T6052FX	LD-T4052FX	LD-T6052FX	
Product name	Thinnest X axis Fix Stage 40×40	Thinnest X axis Fix Stage 60×60	Thinnest XY axes Fix Stage 40×40	Thinnest XY axes Fix Stage 60×60	
Direction of travel	X axis, one	e-direction	XY axes, two-directions		
Stage size	40mm×40mm	60mm×60mm	40mm×40mm	60mm×60mm	
Height	8m	nm	16mm		
Clamp method	Self-locking mechanism				
Transfer mechanism	Feed screw P=0.7mm				
Travel	±3.5mm	±5.5mm	±3.5mm	±5.5mm	
Travel / feed screw revolution	Approx. 0.7mm				
Guiding method	Slide guide				
Parallelism	0.1r	mm	0.2mm		
Load capacity	24.5N(2.5kgf)				
Weight	0 . 04kg	0.04kg 0.0		0.16kg	
Material / Surface treatment	Aluminum alloy / Black alumite				
RoHS	Compliant				



- No clamp mechanism and cannot be moved after positioning.
- Remarkably small backlash by self-locking mechanism.
- Positioning by hexagonal wrench.
 - *)Hexagonal wrench is not standard accessory. To be provided by user.
- Suitable for applications with infrequent position changes, i.e. as cameras and / or sensors.
- May not only be used for horizontal but also for vertical and ceiling installation.
 - *)Patented technology.
 - *)Allowable load capacity depends on installation position. Please inquire for details.

Product number	LV-4051FX	LV-6051FX	RS-4051FX	RS-6051FX	
Product name	Zaxis Fix Stage 40×40	Zaxis Fix Stage 60×60	Rotary Fix Stage φ 40	Rotary Fix Stage φ 60	
Direction of travel	Z axis, on	e-direction	Rotation		
Stage size	40mm×40mm	40mm×40mm 60mm×60mm		φ 60mm	
Height	30r	nm	20mm		
Clamp method	Self-locking mechanism				
Transfer mechanism	Feed screw P=0.7mm				
Travel	0 to	1mm	±3°		
Travel / feed screw revolution	Approx.	0.1mm	Approx. 4.7°	Approx. 2.7°	
Guiding method	Slide guide				
Parallelism	0.1mm				
Load capacity	24.5N(2.5kgf)				
Weight	0.13kg	0.28kg	0.10kg	0.17kg	
Material / Surface treatment	Aluminum alloy / Black alumite				
RoHS	Compliant				

Rotary Stage

Goniometer Stage

Tilt (Goniometer) Fix Stage

Tilt

40×40

60×60

Two axes Tilt (Goniometer) Fix Stage











Goniometer Stage







- No clamp mechanism and cannot be moved after positioning.
- Remarkably small backlash by self-locking mechanism.
- Positioning by hexagonal wrench.
 - *)Hexagonal wrench is not standard accessory. To be provided by user.
- Suitable for applications with infrequent position changes, i.e. as cameras and / or sensors.
- Two types of tilt stages are available, with rotation centers located at different heights.
- The combination of these two tilt stages provides for a two-axes tilt stage with a single rotation center.
- May not only be used for horizontal but also for vertical and ceiling installation.
 - *)Patented technology.
 - *)Allowable load capacity depends on installation position. Please inquire for details.

Product number	TS-4051FX	TS-4052FX	TS-6051FX	TS-6052FX	TD-4051FX	TD-6051FX
Product name	Tilt(goniometer) Fix Stage 40×40		Tilt(goniometer) Fix Stage 60×60		Two axes tilt (goniometer) Fix Stage 40×40	Two axes tilt (goniometer) Fix Stage 60×60
Direction of travel	Tilt, one-direction			Tilt, two-directions		
Stage size	40mm×40mm		60mm×60mm		40mm×40mm	60mm×60mm
Height	20mm				40mm	
Rotation center distance	60mm	40mm	60mm	40mm	40mm	
Clamp method	Self-locking mechanism					
Transfer mechanism	Feed screw P=0.7mm					
Travel	±3°					
Travel / feed screw revolution	Approx. 33'25"	Approx. 46'16"	Approx. 33'25"	Approx. 46'16"	Upper Approx. 46'16" Lower Approx. 33'25"	
Guiding method	Slide guide					
Load capacity	24.5N(2.5kg)					
Weight	0.08kg		0.1	0.17kg		0.34kg
Material / Surface treatment	Aluminum alloy / Black alumite					
RoHS	Compliant					

Fix Stage cannot be moved after positioning.

"Cannot be moved after positioning" means:

- A hexagonal wrench is required to move the Fix Stage.
- The stage can hardly be pushed or pulled.
- Therefore no clamp is necessary.

Have you made the experiences described below?

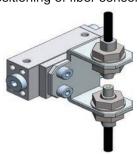
Carefully aligning the position of a component (such as a sensor) takes a long time; obtaining acceptance by a customer needs great effort. Eventually fixing the position requires clamping – however, the component shifts and the position has to be realigned.

How can misalignment by clamping be avoided?

Fix Stage fixes the problem.

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Example of use Positioning of fiber sensor



Example of use Positioning of micro zoom lens



Example of use positioning of CCTV lens



Please find a video of Fix Stage at www.chuo.co.jp You can find it also on YouTube. Please search "CHUOSEIKI"

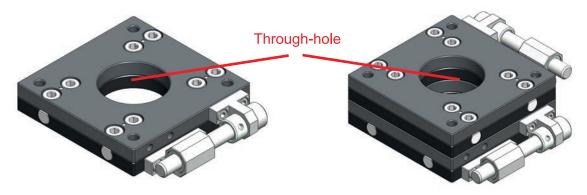




Please contact us if you need a specialized solution.

Example of customized design (4)

Through-hole in the stage



Please provide size of through-hole required.

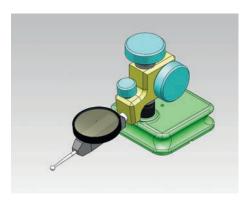
Example of customized design (5)

Cylindrical shape feed screw (with scale)



Feed screw with same advantage as Fix Stage (with scale).

Example of customized design (7)
Precision fine adjustment tool for dial indicator height



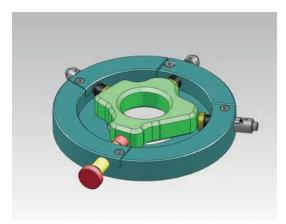
Height of a dial indicator can be fine-adjusted precisely and stably.

Example of customized design (6)
Cylindrical shape feed screw



Feed screw with same advantage as Fix Stage.

Example of customized design (8)
Centering holder



Specialized holder for centering of through hole.

We provide customized fix stage upon request.

Example of customized design (1) Special screw head



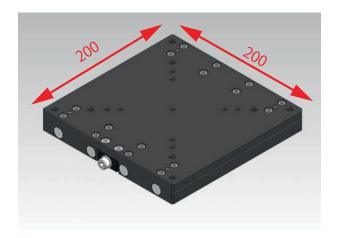
Special screw head can only be moved by authorized operator.

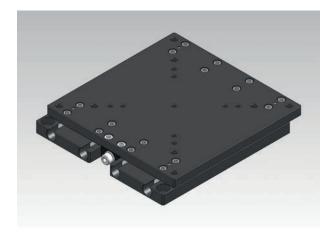
Example of customized design (2) Smaller size (20×20)



Suitable for narrow spaces.

Example of customs design (3) Larger size (200×200)





Good for bigger or heavier work.

Japan:



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