

New Product
for
SPE
Industry

High precision X-Y Stage

Designed by a machine tool manufacturer

In addition to less than 1 μ m repeatability, our X-Y stage has focused on fine dynamic accuracy. This X-Y stage is suitable for processes that need constant axes movement speed and synchronized accuracy of two or more axes.

Displayed at

**SEMICON[®]
JAPAN**

2024 exhibition

New Product

High precision X-Y stage

for Semiconductor Process Equipment

YASDA's X-Y stage improved its rolling and pitching accuracy and minimized its waving errors.

Our high precision X-Y stage draws out high dynamic performance using fine servo optimization.

Referential Accuracy of one Linier Axis in ± 150 mm

- Straightness (Vertical) : 1.0 μ m
- Straightness (Horizontal) : 1.0 μ m
- Pitching accuracy : 1.3''
- Yawing accuracy : 1.3''
- Repeatability : $\pm 0.1 \mu$ m

Machine Specifications

- X axes Travel : 730mm
- Y axes Travel : 780mm
- Maximum velocity : 250mm /sec
- Maximum acceleration : 3m /s²

This unit is a demonstration model. We can customize our stages meeting customers' specifications and requirements.

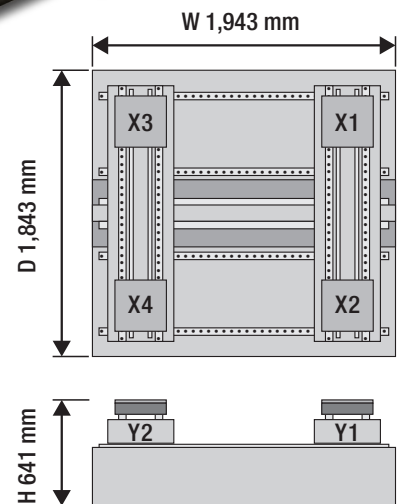
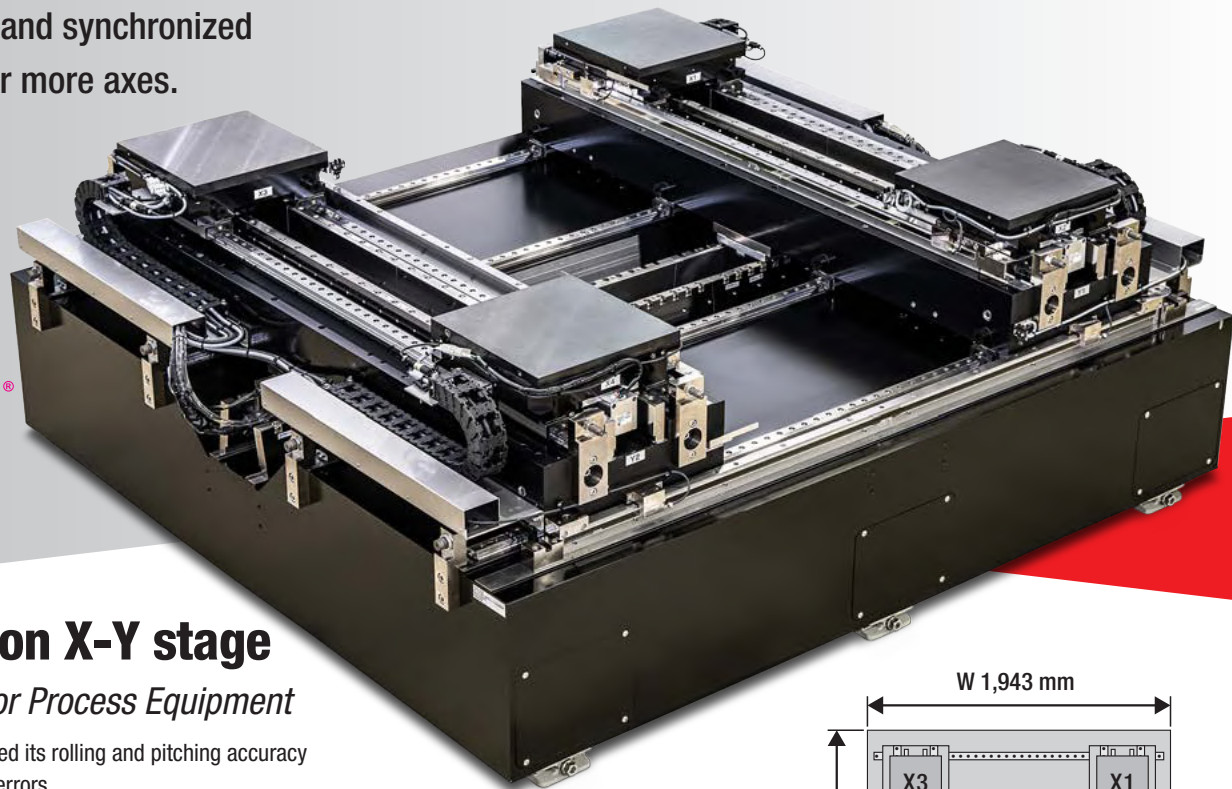


Table □305 mm



Why **YASDA**, a machining center manufacture makes X-Y Stage?

Technology to realize *precision of machining less than 0.001mm.*

Machining centers are indispensable equipment for variety of industries such as automotive, aerospace, medical and semiconductor.

Aiming for the Best, not for the biggest

YASDA supports manufacturing around the world, providing customers with high quality, high-precision solutions to the cutting edge of technology using our ultra-high-precision machines.



High-end micromachining center
YMC 430 Ver.III



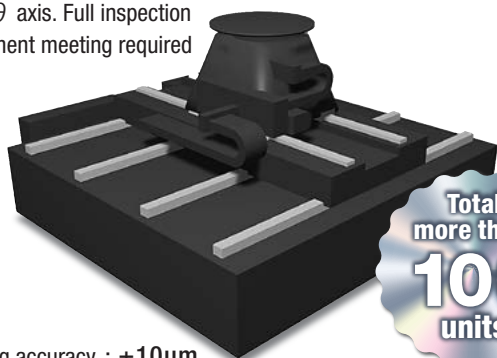
Contract Manufacturing Examples

YASDA, a top-level machining center manufacture has deep know-how and technologies of machine design and development. Utilizing these competences, we expand our business field to high-precision positioning unit manufacture for semiconductor industries.

*Product image for illustration purposes only. Actual products may vary.

OEM Stage for semiconductor test equipment

X Y Z and θ axis. Full inspection and adjustment meeting required accuracy.

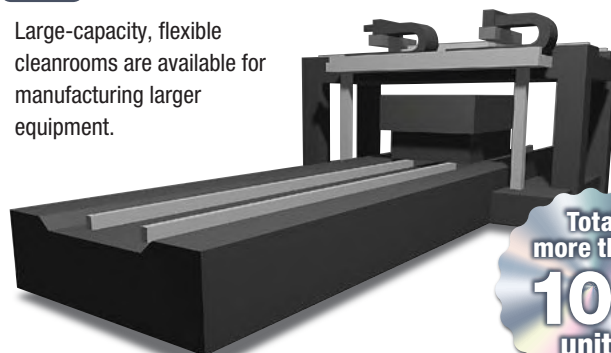


Total
more than
100
units

- Positioning accuracy : $\pm 10\mu\text{m}$
- Straightness (Vertical) : $\pm 5\mu\text{m}$
- Repeatability : $\pm 2.5\mu\text{m}$
- X axis Travel : 400mm
- Y axis Travel : 500mm

OEM Stage for Flat Panel Display process equipment

Large-capacity, flexible cleanrooms are available for manufacturing larger equipment.



Total
more than
100
units

- X axis Travel : 3,000mm
- Y axis Travel : 5,000mm
- Pitching accuracy : $\leq 15''$
- Repeatability : $\pm 2\mu\text{m}$

Assembly equipment



Stone surface plate : JIS 0 Class

- 1,200 × 2,000mm 6units
- 1,800 × 3,600mm 1units
- 1,000 × 1,500mm 3units
- 2,000 × 3,000mm 1units



Autocollimator (Taylor Hobson) : 2 units

For adjustment and measurement of linier guides' straightness at the hand-scraping process.



Laser calibration system (Keysight) : 2 units

For calibration and measurement of repeatability, positioning accuracy etc. of the finished table units. These laser systems are held in a precisely temperature-controlled room.

Please contact us.

YASDA Precision Tools K.K. Factory No. 2

<https://ypos.jp>

TEL:0865-64-2516 / FAX:0865-64-2358

1160 Hamanaka, Satoshio-cho, Asakuchi-gun, Okayama, 719-0303 Japan

E-mail : ypos@yasda.co.jp

