

Alignment Stage Module Type



The module type large-sized XYO stage has been released.

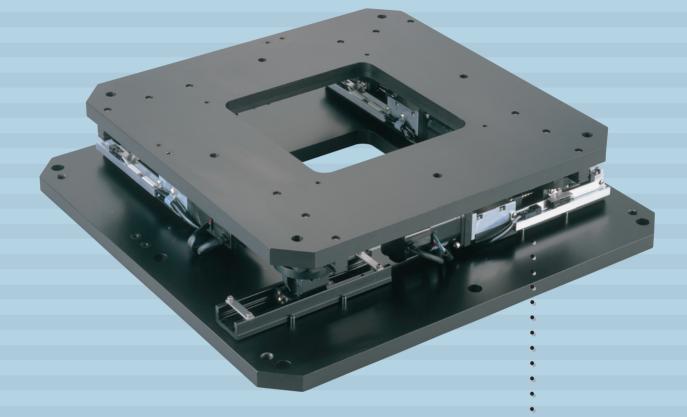




CAT-57135

IKI Alignment Stage Module Type SA···M

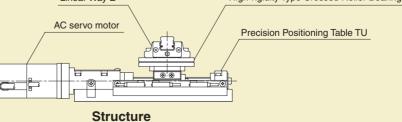
IKO Alignment Stage Module Type SA...M is a low-section and largesized precision positioning stage in which Alignment Module AM having an angle adjustment mechanism is arranged on the same plane, and can perform $XY\theta$ motion.



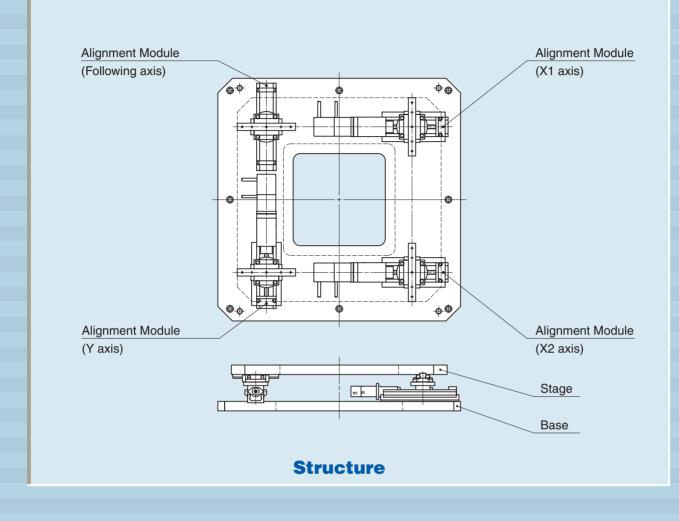
Alignment Module AM

Alignment Module AM is a positioning module developed for Alignment Stage, in which Precision Positioning Table TU, High-Rigidity Crossed Roller Bearing, and Linear Way E are combined.





1



Features

Achievement of diversified operations

Not only linear motion in the XY direction but also swing motion can be performed. In the case of swing motion, especially, an optional desired position can be set as the center of swing. This can achieve diversified operations.

Optimally applicable to large equipment

A combination of Alignment Module AM with an aluminum alloy stage and base can configure a large stage. Alignment Module AM can be easily applicable to a larger stage than the dimensions described in the catalog. Consult INCO about it if necessary.

High accuracy, high rigidity, and high reliability

Alignment Module AM is designed on a basis of IKO Precision Positioning Table TU, High-rigidity Crossed Roller Bearing, and Linear Way E to obtain high accuracy, high rigidity, and high reliability.

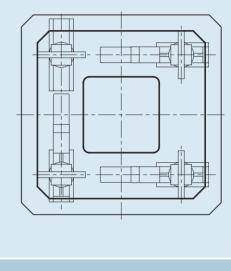
Hollow structure

The stage and base have a hollow structure with a large diameter. This is useful for the measurement of transmitted light from the bottom side, cord wiring of machines and equipment, etc.

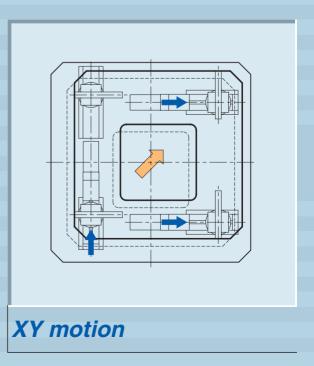
Operating Principle

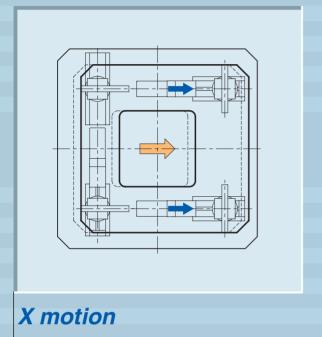
Achievement of diversified movements

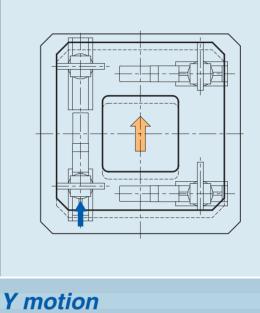
To achieve XY motion and θ motion (swing motion) at the same moment, a combination of XY positioning table and θ stage is normally required. However, IKO Alignment Stage Module Type SA····M adopting Alignment Module AM enables these movements with a low profile single stage.

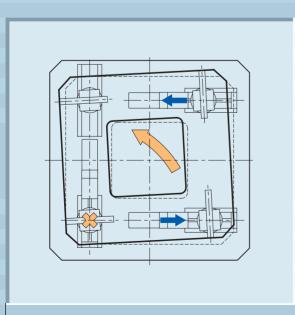


Reference position

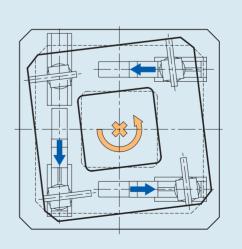








Swing motion at an optional position



Swing motion in the center

Specifications of Alignment Stage Module Type SA····M

Example of Identification Number

1 Туре

SA---M : Alignment Stage Module Type

2 Size

420 : External dimensions of stage 420mm imes 420mm

800 : External dimensions of stage 800mm \times 800mm

③ With or without motor

A : With motor

4 Motor type

A5 : AC servo motor [SGM-A5B512 Yaskawa Electric Corporation] (applicable to SA420M)

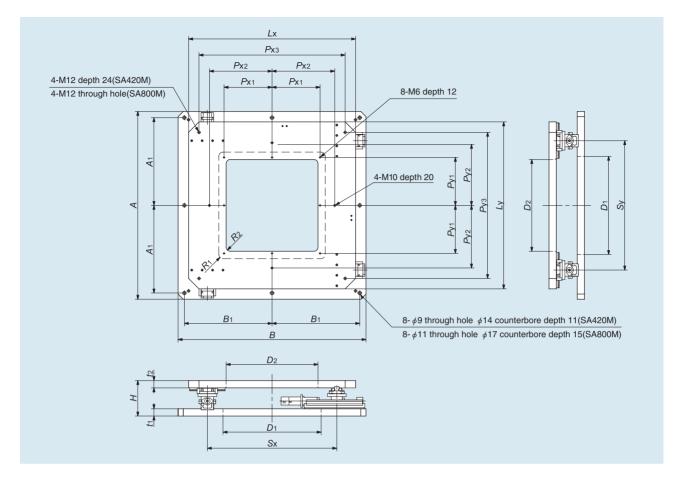
A1 : AC servo motor [SGM-01B512 Yaskawa Electric Corporation] (applicable to SA800M)

Ball screw lead

G4 : Lead 4 mm (applicable to SA420M)

G5 : Lead 5 mm (applicable to SA800M)

Dimensions



Main dimensions

Model number	Mass	Main dimensions mm												
	(Reference) kg	A	В	Lx	Ly	Н	t 1	t 2	<i>D</i> 1	D 2	R 1	R 2	Sx	Sу
SA420M	31	500	500	420	420	120	25	25	230	190	15	15	300	300
SA800M	105	900	900	800	800	170	35	35	490	400	20	20	580	580

Mounting dimensions

Model number	Mounting dimensions mm										
	A 1	<i>B</i> 1	<i>P</i> x 1	Ру1	P x2	P y2	Рхз	Руз			
SA420M	225	225	105	105	160	160	360	360			
SA800M	420	420	220	220	300	300	700	700			

Characteristics

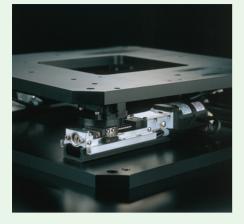
Characteristics

ltem	Maximum stroke	Maximum swing angle	Repea	Parallelism in motion B(1)		
Model number	mm	degree	XY motion μm	Swing motion sec.	XY motion μm	
SA420M	±15	±5	±2	±3	0	
SA800M	±45	±8	12	±1.5	8	

Note (1) : This value is applicable to a single Alignment Module.

SA…M





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