

Motion Control

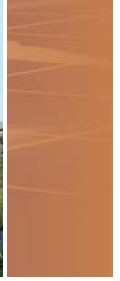
World-Class Photonics Brand
Service Worldwide



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Zolix

- Motorized Linear Stages
- Motorized Vertical Stages
- Motorized Rotation Stages
- Motorized Goniometers
- Combinated Stages
- Motion Controller



World-Class Photonics Brand, Service Worldwide

Zolix was established since 1999 and has been a leading global supplier of opto-mechanics and spectroscopy in China. Have strong R&D ,Production,Sales,and after service team with many years experience of industry knowledge and expertise across a broad range of technologies. Our products has been exported to worldwide:Europe,USA,India,Southeast and more than 50 countries;

Products:

- Spectroscopy
- Monochromators and Accessories
- Solar Cell System
- Light Source
- Measurement System
- Motorized Stage
- Manual Stage
- Optical Mirror Mounts
- Optical Table
- Optic

In Addition, Zolix has built a strong history of partnering with OEM customers delivering solutions from sub assemblies to full solutions including design, testing and manufacturing.

Welcome to agents and distributors !

Certification





Motion Control

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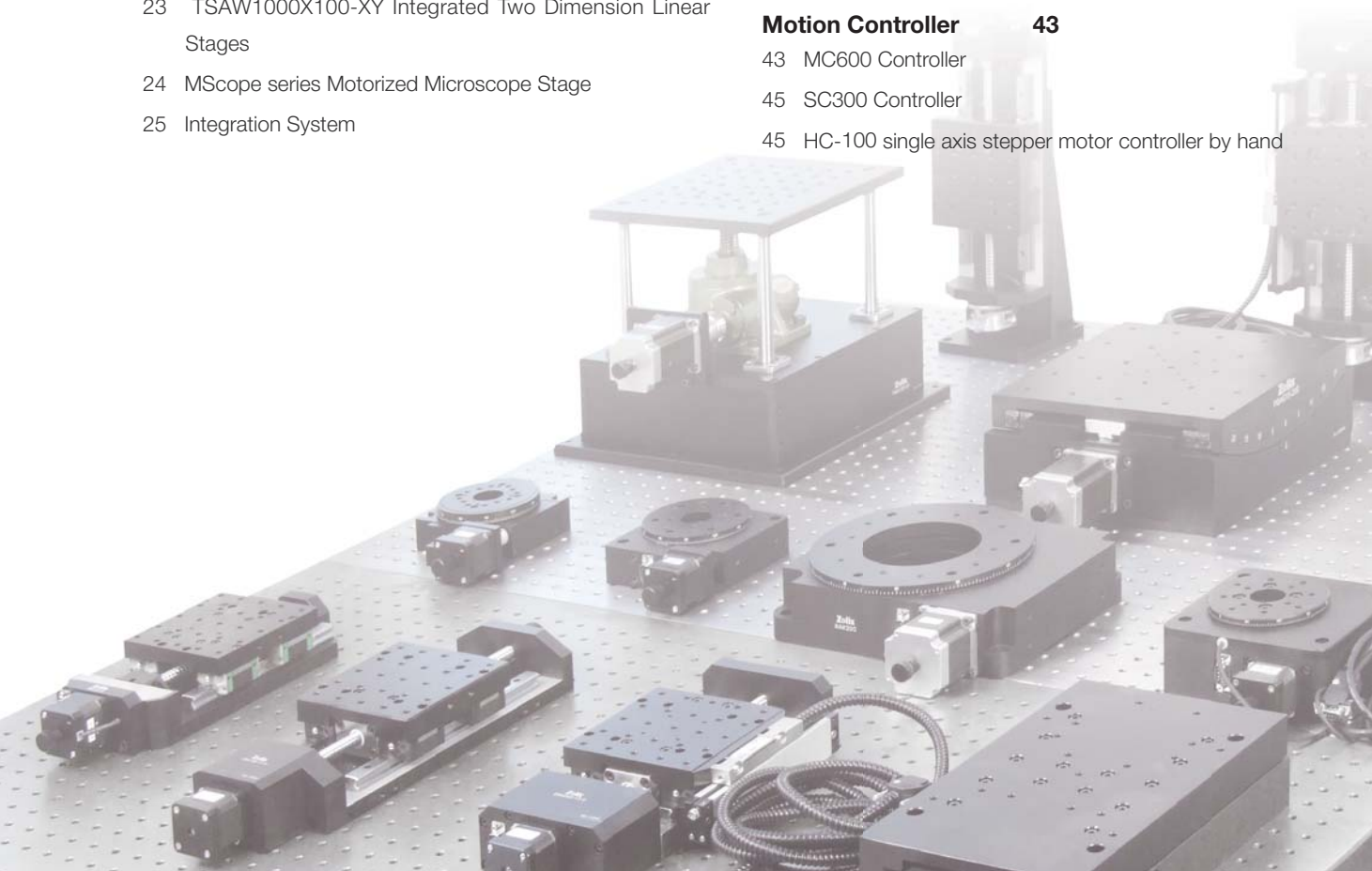
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Motorized Linear Stages

MAR series Ultra- Precision Linear Stages



MAR10-40/20-65 ▲

MAR50-90/100-90 ▲

Specification:

MAR series Ultra- Precision Linear Stages which material is Al has high resolution and positioning accuracy with cross-roller guide and small lead ballscrew ! The precision grinding craft ensure movement precision . MAR has small size and very light weight . The application is for high precision optical experiment/positioning/ processing and related fields.

Model Sheet:

Model	MAR10-40	MAR20-65	MAR50-90	MAR100-90
Travel (mm)	±5	±10	±25	±50
Table size (mm)	40×40	65×65	90×90	90×155
Pitch (mm)	1			
Resolution (µm)	0.625			
Repeatability (µm)	<2			
Backlash (µm)	<3			
Stepper Motor (Angle)	28 (1.8°)	35 (1.8°)	42 (1.8°)	
Current (A)	0.67	1	1.7	
Torque (N•cm)	6	14	40	
Load (Kg)	3	5	8	10
Weight (Kg)	0.3	0.6	1.4	2.4

Related Products:

SC300

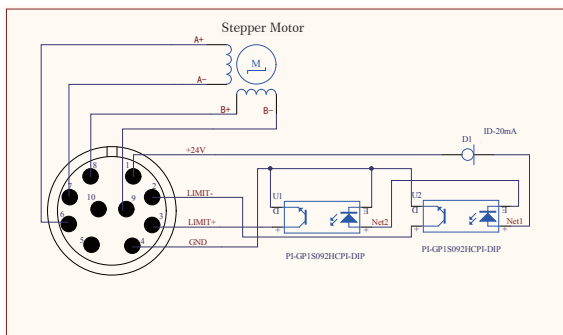


TMC-USB

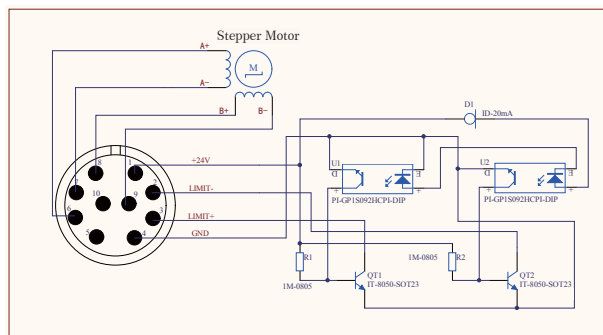


Diagram:

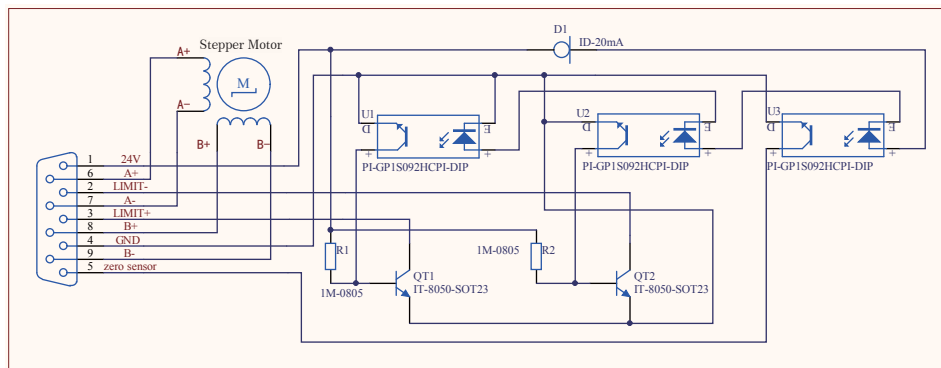
MAR10-40 ▼



MAR20-65 ▼

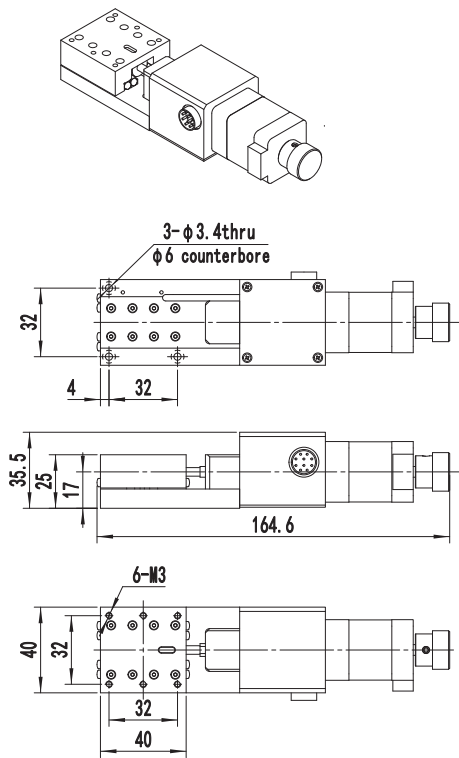


MAR50-90/100-90 ▼

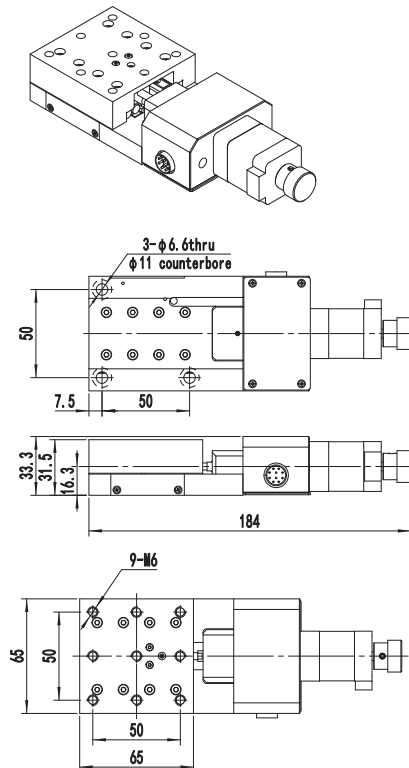


Drawing:

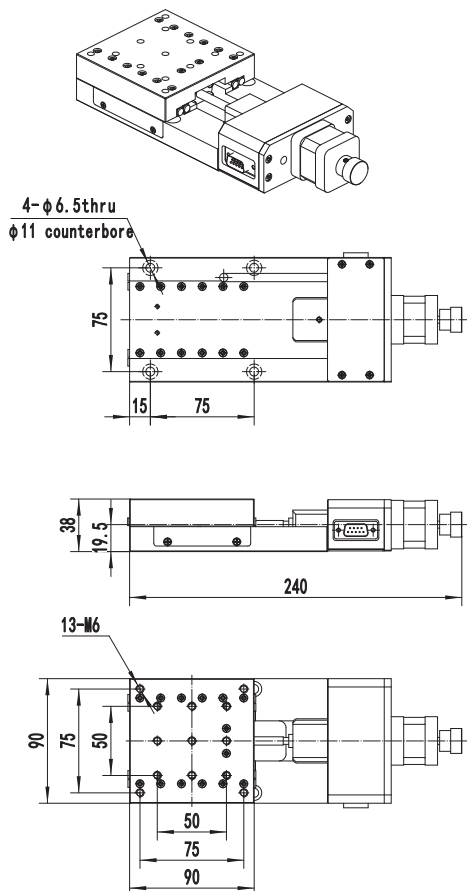
MAR10-40 ▼



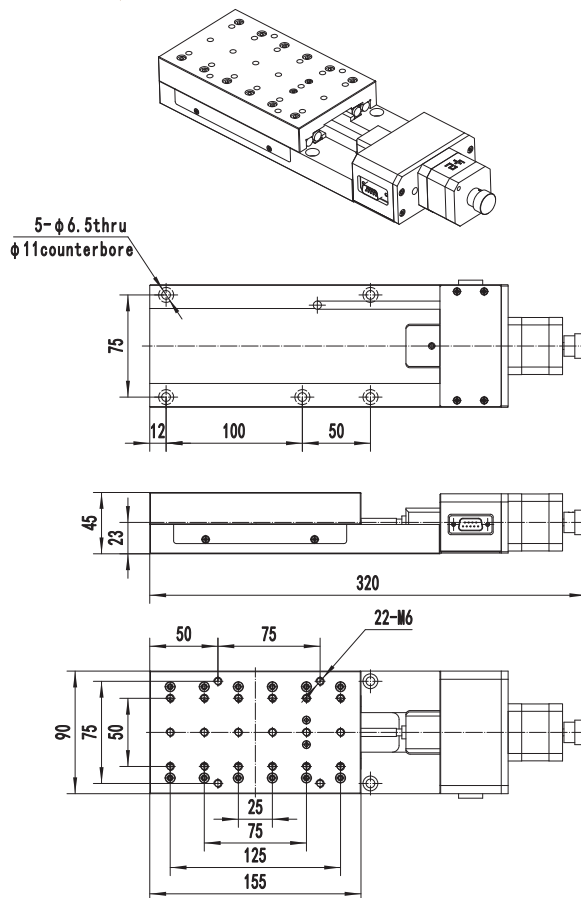
MAR20-65 ▼



MAR50-90 ▼



MAR100-90 ▼



uKSA Series Ultra- Precision Linear Stages



Specification:

- Travel: 50,100,150,200mm
- Motor: 3 Phase Motor
- Resolution (Closed-Loop): 0.1 μ m
- Straightness&Parallism: <6 μ m
- Yaw&Pitch: <15"

Related Products:

MC600 Controller TMC Controller



Application:



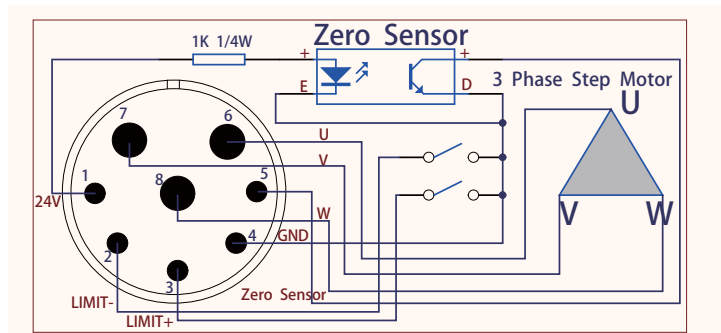
Specification:

uKSA series ultra-high precision motorized translation stage,includes travels are below: 50,100,150,200mm. Application:ultra-high precision filed;for example: ultra-high precision laser marking,laser scanning measurement.

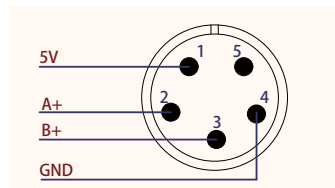
Model Sheet:

Model	uKSA50	uKSA100	uKSA150	uKSA200
Travel (mm)	50	100	150	200
Pitch (mm)	4			
Motor Model	FHB366-D (3 Phase)			
Closed-Loop Resolution (μ m)	0.1			
Max Speed (mm/s)	40			
Repeatability (μ m)	≤ 2		≤ 2	
Backlash (μ m)	≤ 1		≤ 1	
Straightness (μ m)	≤ 6		≤ 10	
Parallism (μ m)	≤ 6		≤ 10	
Weight (Kg)	15	18	22	25
Load (Kg)	30			

Grating Diagram:

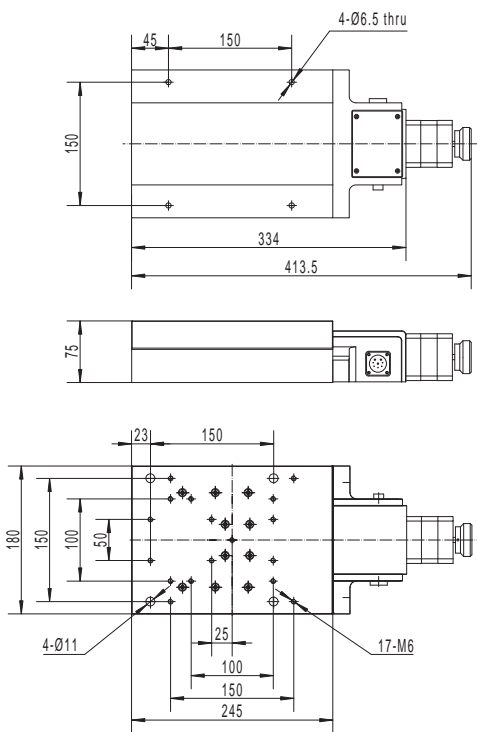


Motor Diagram:

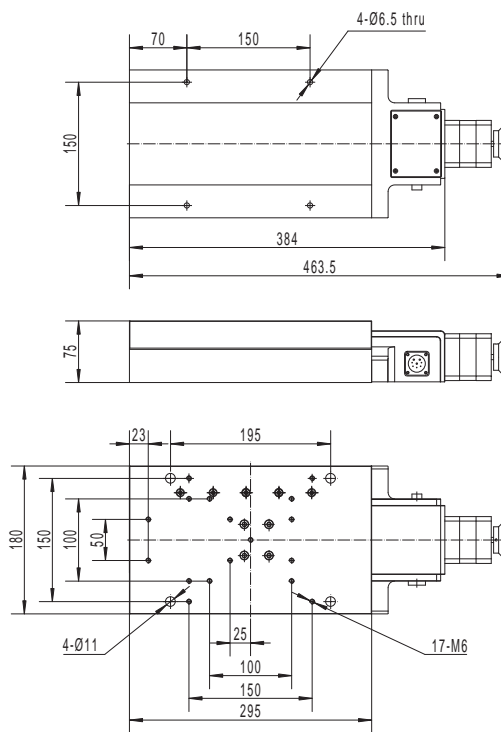


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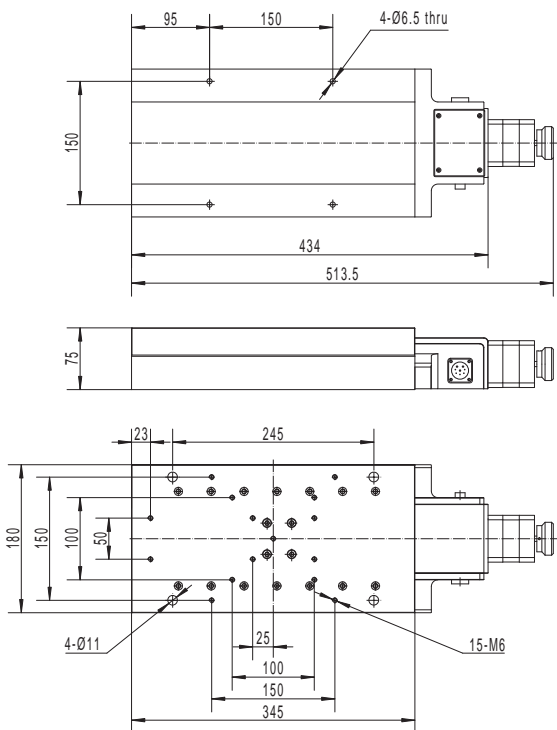
uKSA50 ▼



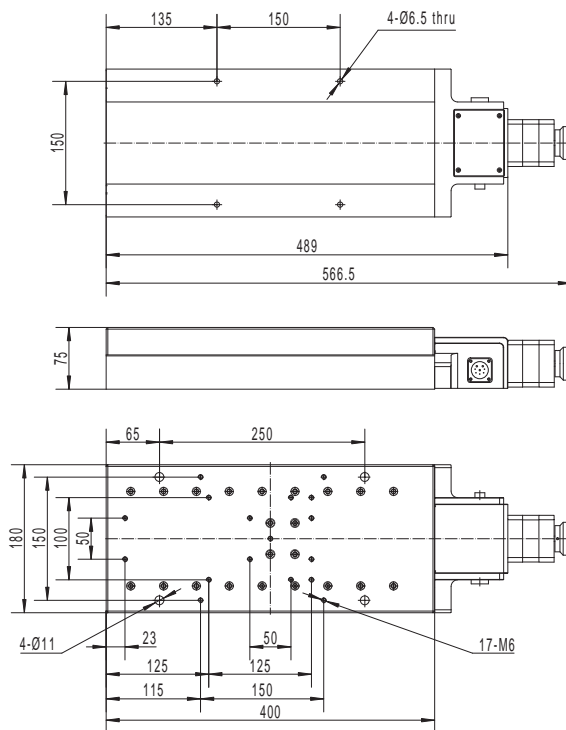
uKSA100 ▼



uKSA150 ▼



uKSA200 ▼



Motorized Linear Stages

Motorized Vertical Stages

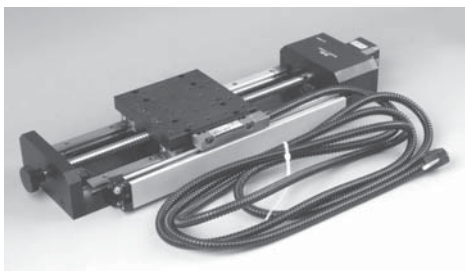
Motorized Rotation Stages

Motorized Convolometers

Combined Stages

Controllers

KSAXXX-11/12-X Stepper Motor ,High-Precision Linear Stages,Application for Labs



Model Sheet:

Model	KSA050-11/12-X	KSA100-11/12-X	KSA150-11/12-X	KSA200-11/12-X	KSA300-11/12-X	KSA400-11/12-X
Travel (mm)	50	100	150	200	300	400
Pitch (mm)	4					5
Closed-loop Resolution (µm)	1					
Resolution (µm)	2.5					3.125
Max Speed (mm/sec)	40					50
Repeatability (µm)	<3					
Backlash (µm)	<5					
Yaw (")	<15		<20		<25	<30
Pitch (")	<15		<25		<30	<40
Straightness (µm)	<10		<12		<15	<20
Parallism (µm)	<10		<12		<15	<20
Stepper Motor (Angle)	42 (1.8°)				57 (1.8°)	
Current (A)	1.7				2.4	
Load Capacity (Kg)	30				50	

Related Products:

MC600 Controller

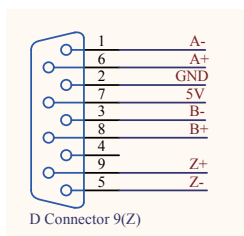
TMC Controller



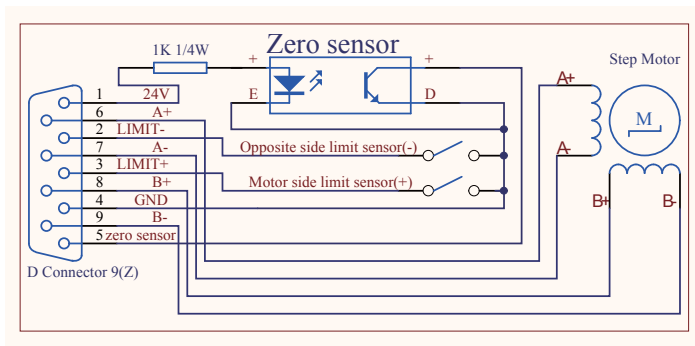
Application:



Grating Diagram:

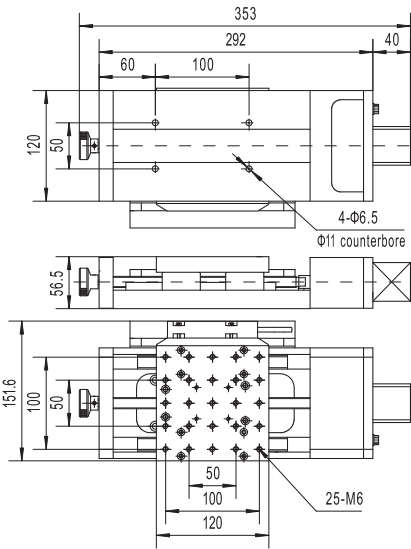


Motor Diagram:

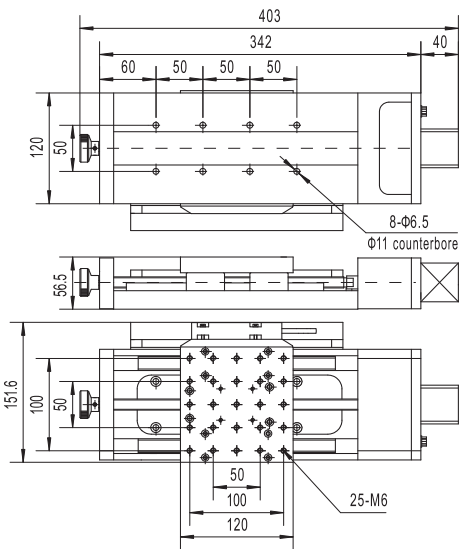


Drawing:

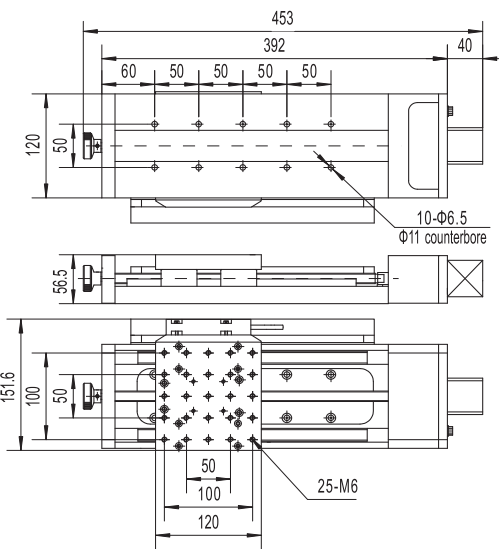
KSA050-11/12-X ▼



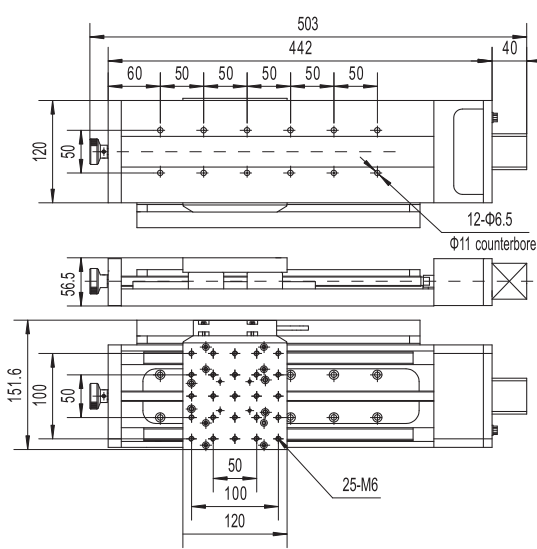
KSA100-11/12-X ▼



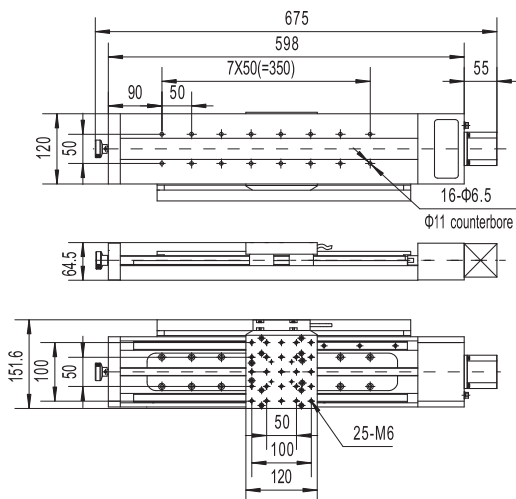
KSA150-11/12-X ▼



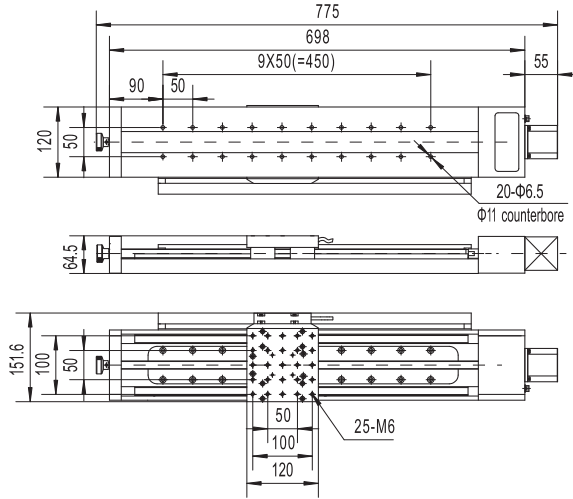
KSA200-11/12-X ▼



KSA300-11/12-X ▼



KSA400-11/12-X ▼



Motorized Linear Stages

Motorized Vertical Stages

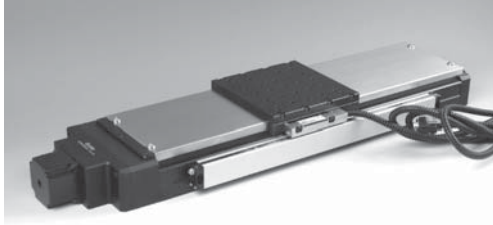
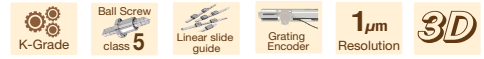
Motorized Rotation Stages

Motorized Goniometers

Combined Stages

Controllers

KSAXXX-13-X Stepper Motor ,High-Precision Linear Stages Application for Industry



Model Sheet:

Model	KSA050-13-X	KSA100-13-X	KSA200-13-X	KSA300-13-X	KSA400-13-X
Travel (mm)	50	100	200	300	400
Pitch (mm)	4				5
Closed-loop Resolution (µm)	1				
Resolution (µm)	2.5				3.125
Max Speed (mm/sec)	40				50
Repeatability (µm)	<3				
Backlash (µm)	<5				
Yaw (")	<15	<20	<25	<30	<30
Pitch (")	<15	<25	<30	<40	<40
Straightness (µm)	<10	<12	<15	<20	<20
Parallism (µm)	<10	<12	<15	<20	<20
Stepper Motor (Angle)	57 (1.8°)				
Current (A)	2.4				

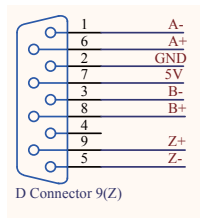
Related Products:

MC600 Controller

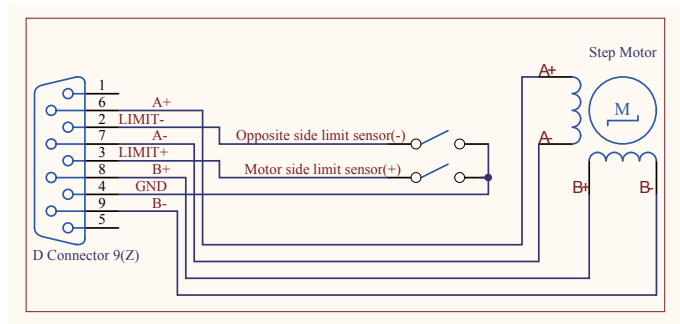
TMC Controller



Grating Diagram:

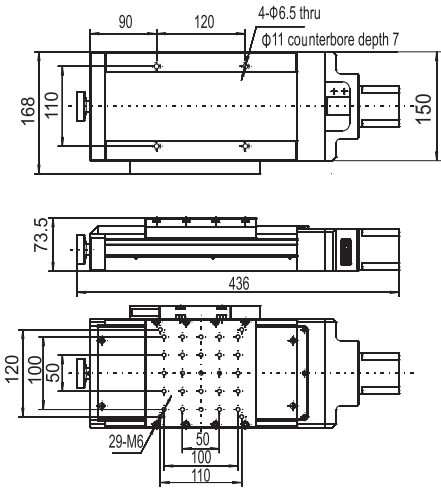


Motor Diagram:

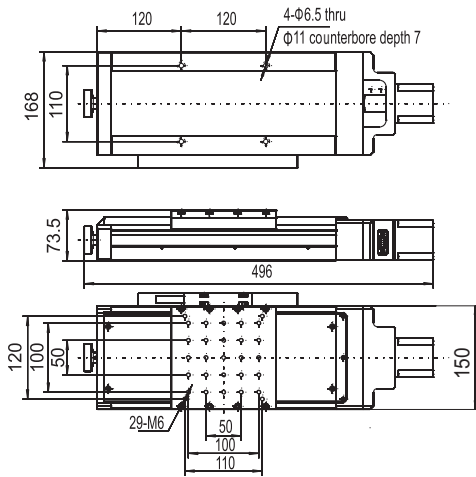


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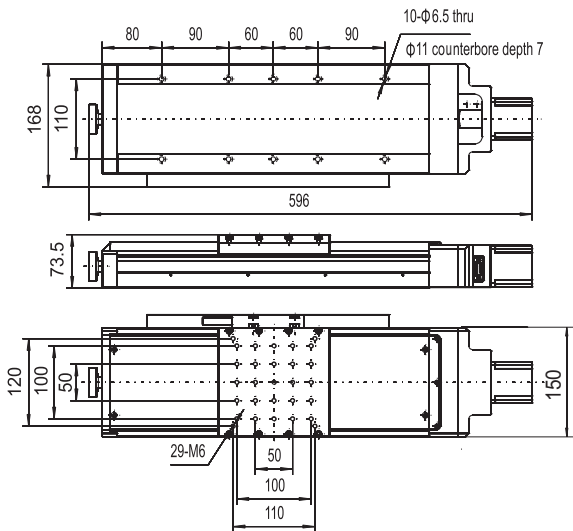
KSA050-13-X ▼



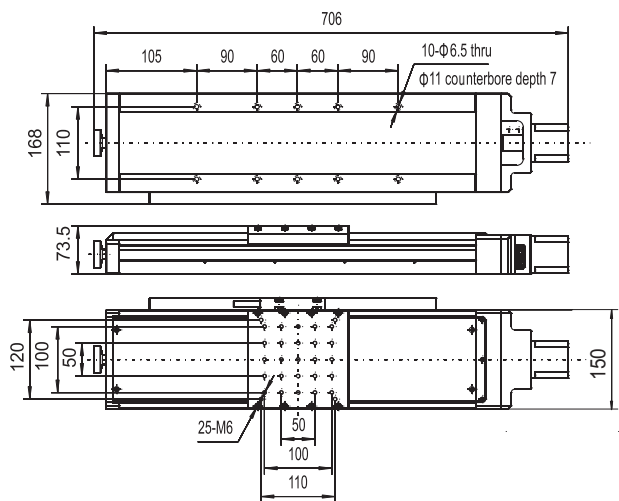
KSA100-13-X ▼



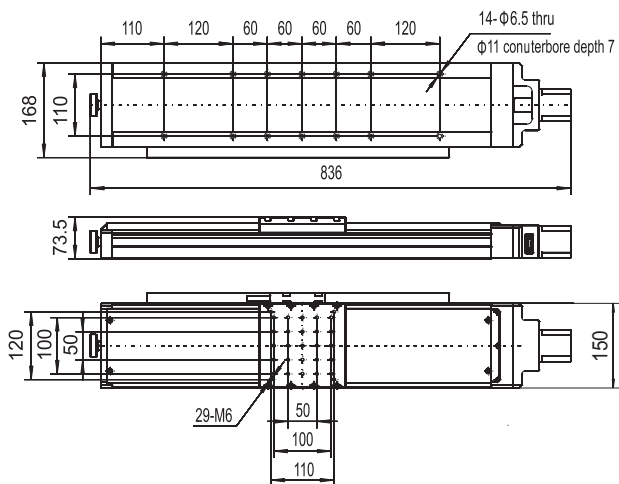
KSA200-13-X ▼



KSA300-13-X ▼



KSA400-13-X ▼



Motorized Linear Stages

Motorized Vertical Stages

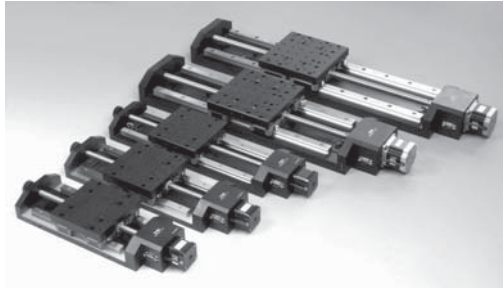
Motorized Rotation Stages

Motorized Conimeters

Combined Stages

Collrollers

PSAXXX-11-X Stepper Motor, Precision Linear Stages Application for Labs



Model Sheet:

Model	PSA050-11-X	PSA100-11-X	PSA150-11-X	PSA200-11-X	PSA300-11-X	PSA400-11-X
Travel (mm)	50	100	150	200	300	400
Pitch (mm)	4					5
Resolution (8 sub-division) (μm)	2.5					3.125
Max Speed (mm/sec)	40					50
Repeatability (μm)	<3					
Backlash (μm)	<5					
Straightness	<10μm	<10μm/100mm				
Parallism	<15μm	<15μm/100mm				
Stepper Motor (Angle)	42 (1.8°)			57 (1.8°)		
Current (A)	1.7			2.4		
Max. Center Load (Kg)	30			50		

Related Products:

SC300

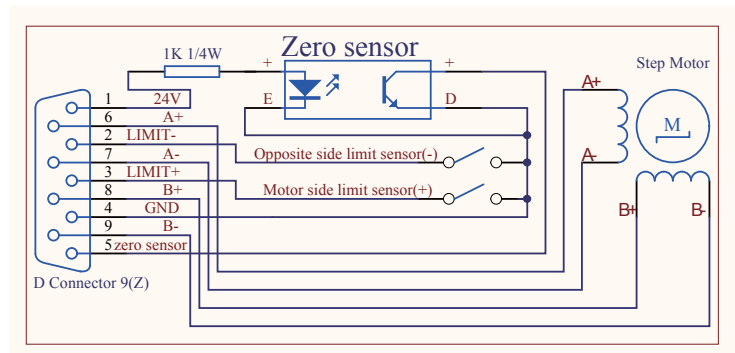
MC600



Application:

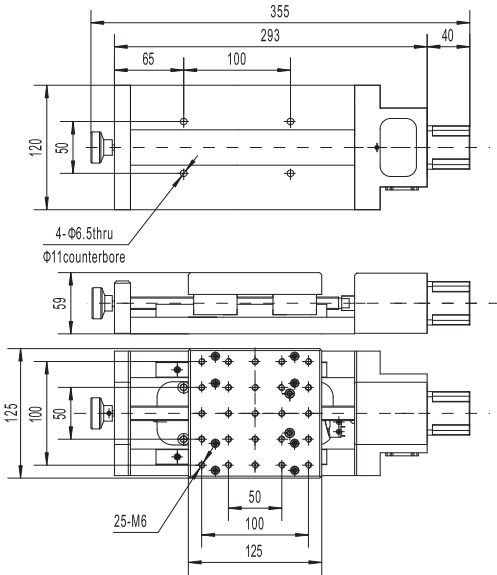


Diagram:

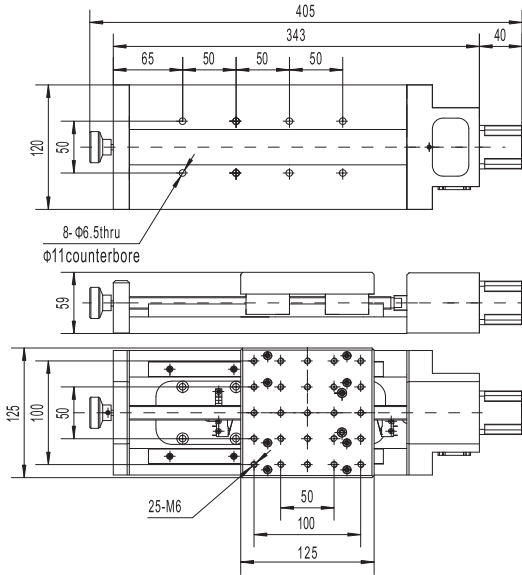


Drawing:

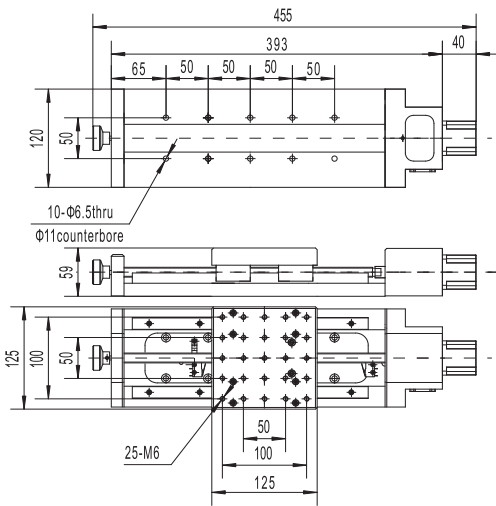
PSA050-11-X ▼



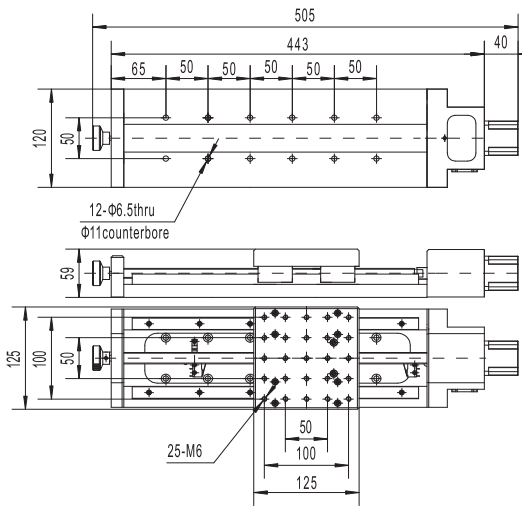
PSA100-11-X ▼



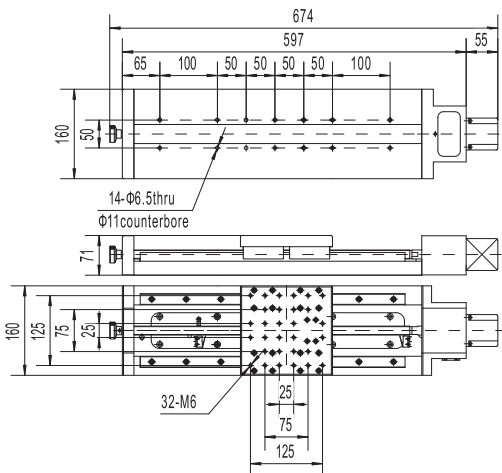
PSA150-11-X ▼



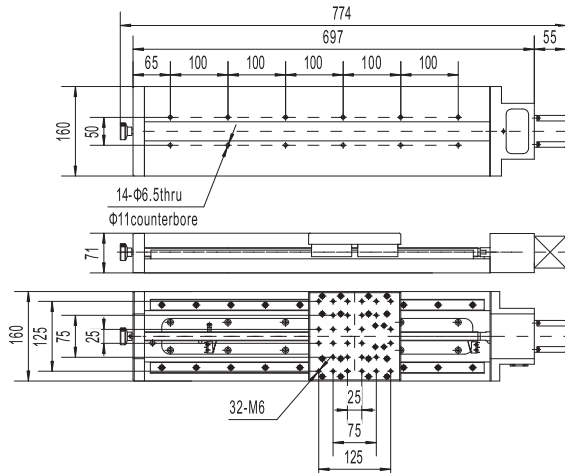
PSA200-11-X ▼



PSA300-11-X ▼



PSA400-11-X ▼



Motorized Linear Stages

Motorized Vertical Stages

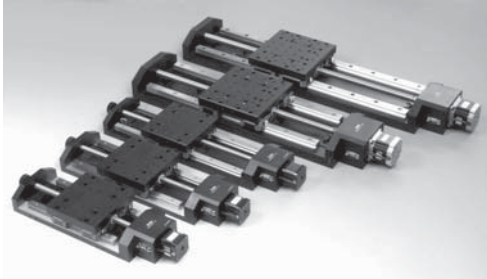
Motorized Rotation Stages

Motorized Conduimeters

Combined Stages

Controllers

PSAXXX-113P-X 3 Phase Stepper Motor, Precision Linear Stages



Model Sheet:

Model	PSA050-113P-X	PSA100-113P-X	PSA150-113P-X	PSA200-113P-X	PSA300-113P-X	PSA400-113P-X
Travel (mm)	50	100	150	200	300	400
Pitch (mm)	4			5		
Resolution (μm)	2.5			3.125		
Max Speed (mm/sec)	40			50		
Repeatability (μm)	<3					
Backlash (μm)	<5					
Straightness	<10μm	<10μm/100mm				
Parallism	<15μm	<15μm/100mm				
Stepper Motor (Angle)	57 (1.2°)					
Current (A)	5.8					
Load Capacity (Kg)	50					

Related Products:

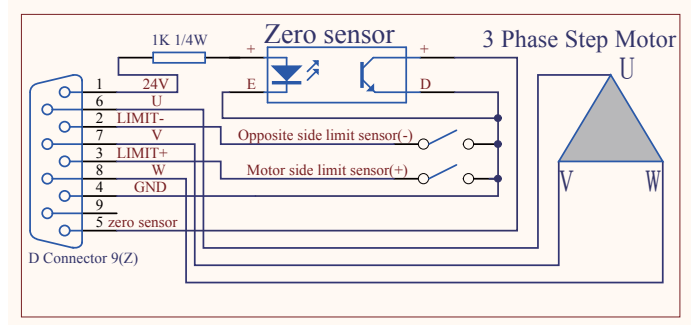
SC300

MC600



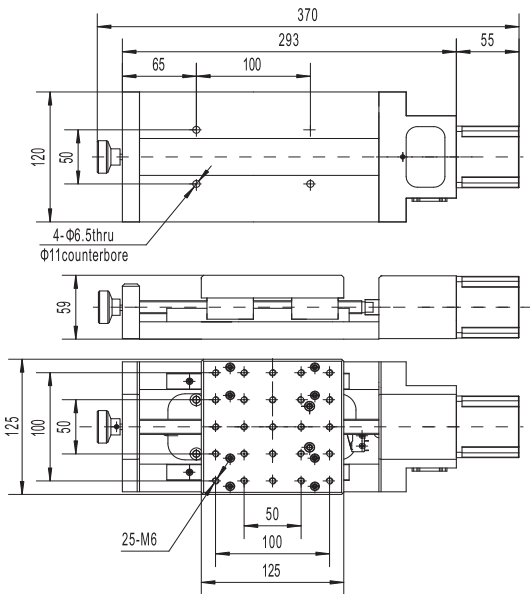
* Note: 1600pulse/rev

Diagram:

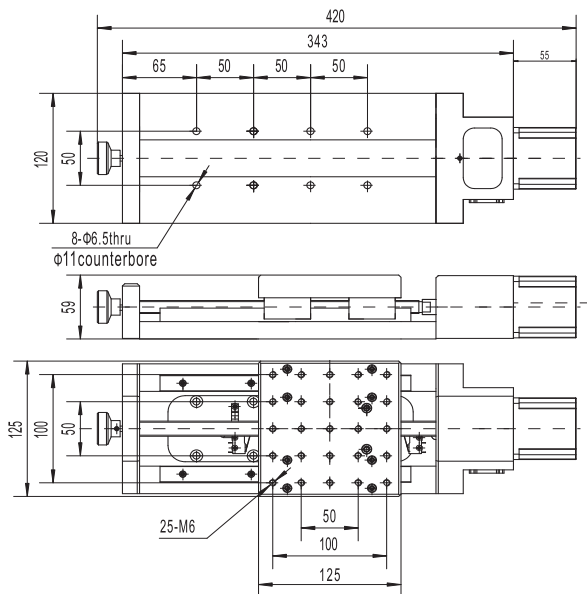


Drawing:

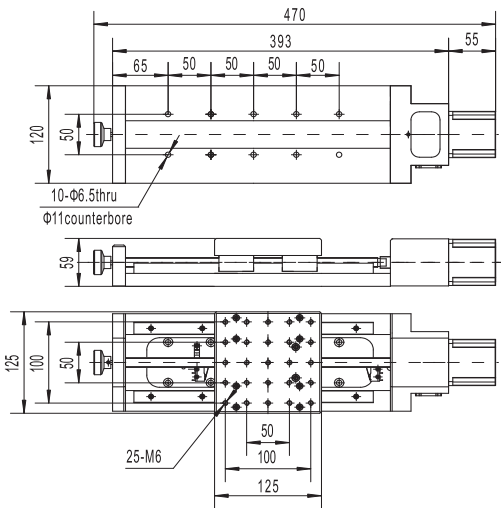
PSA050-113P-X ▼



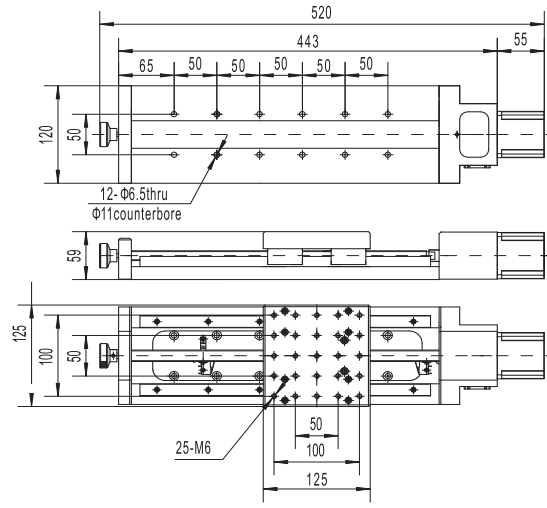
PSA100-113P-X ▼



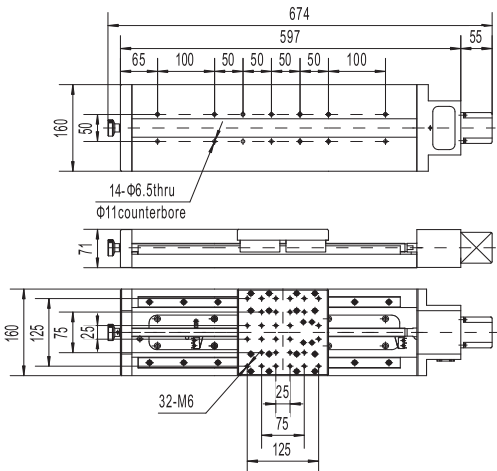
PSA150-113P-X ▼



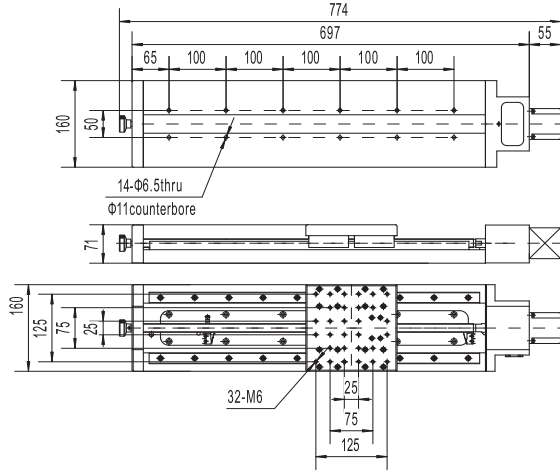
PSA200-113P-X ▼



PSA300-113P-X ▼



PSA400-113P-X ▼



Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combined Stages

Controllers

PSAXXX-11AS-X Servo Motor ,Precision Linear Stages



Model Sheet:

Model	PSA050-11AS-X	PSA100-11AS-X	PSA150-11AS-X	PSA200-11AS-X	PSA300-11AS-X	PSA400-11AS-X
Travel (mm)	50	100	150	200	300	400
Pitch (mm)	4			5		
Resolution (μm)	0.4			0.5		
Max Speed (mm/sec)	200			250		
Repeatability (μm)	<3			<5		
Backlash (μm)	<10μm			<15μm/100mm		
Straightness	<10μm			<15μm/100mm		
Parallism	<10μm			<15μm/100mm		
Servo Motor Power (W)	100			200		
Load Capacity (Kg)	20			30		

Related Products:

MC600ASP Controller

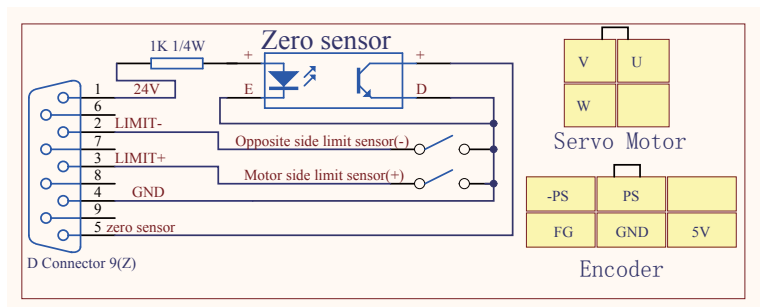


TMC Controller



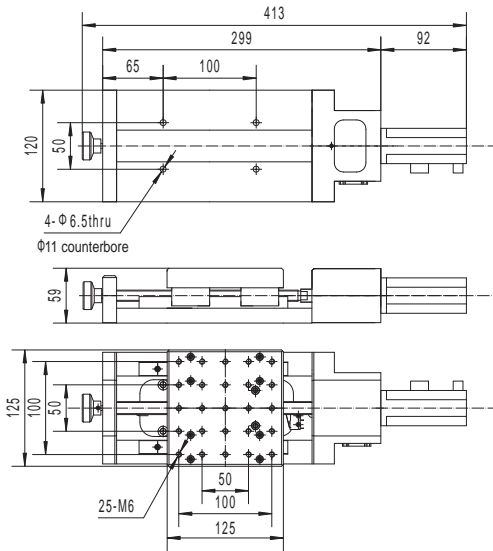
*Note: 1000pulse/rev

Diagram:

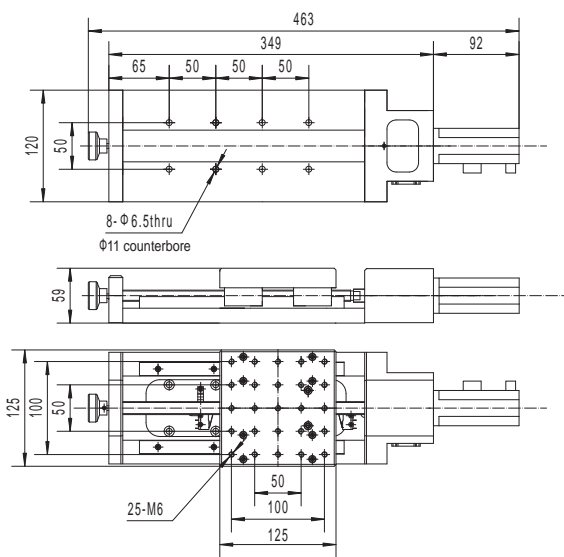


Drawing:

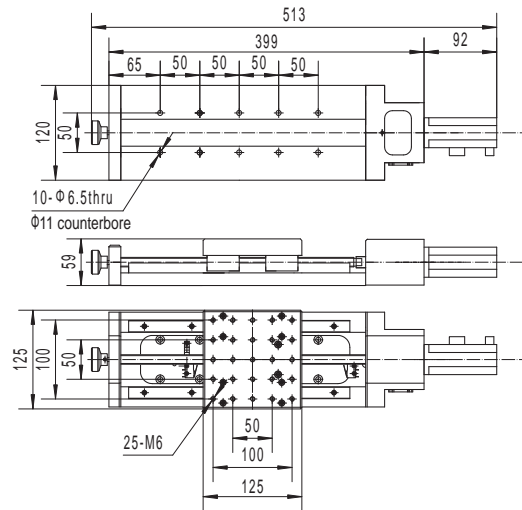
PSA050-11AS-X ▼



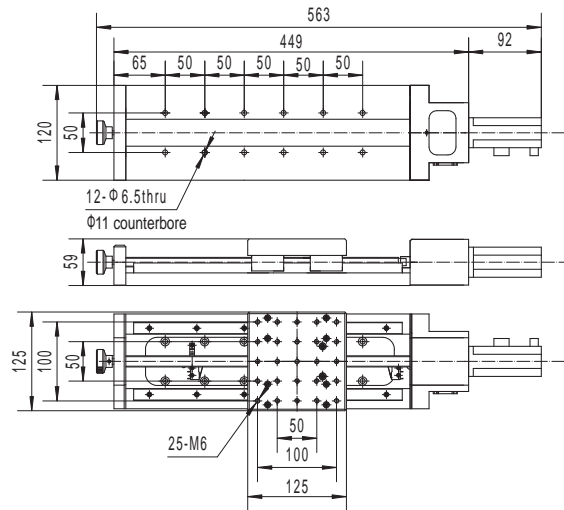
PSA100-11AS-X ▼



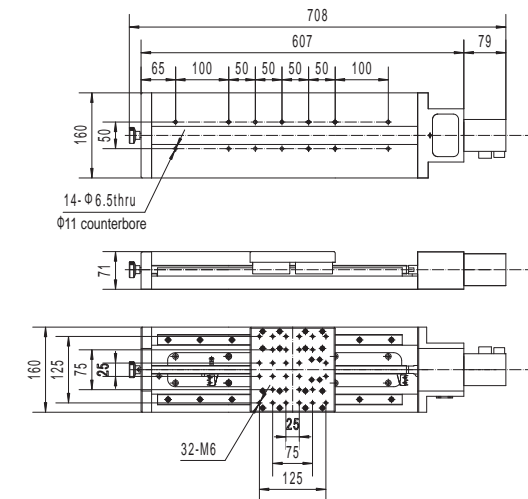
PSA150-11AS-X ▼



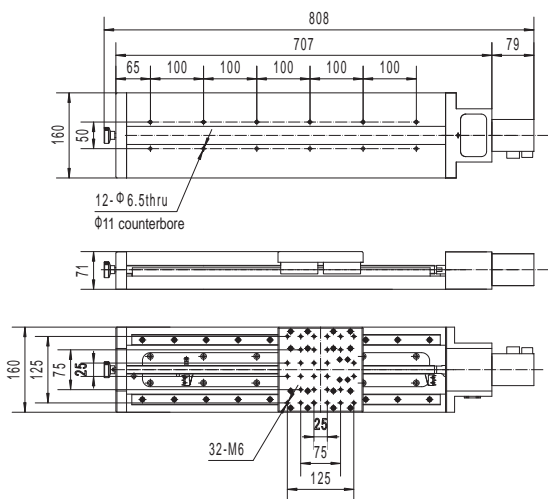
PSA200-11AS-X ▼



PSA300-11AS-X ▼



PSA400-11AS-X ▼



Motorized Linear Stages

Motorized Vertical Stages

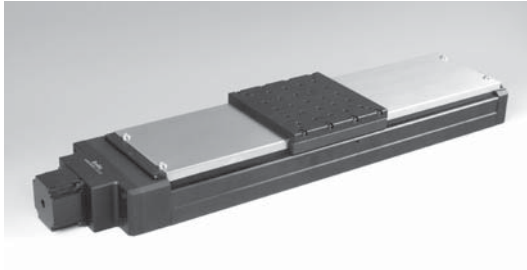
Motorized Rotation Stages

Motorized Conduimeters

Combined Stages

Controllers

PSAXXX-13-X Stepper Motor, Precision Linear Stages Application for Industry



Model Sheet:

Model	PSA050-13-X	PSA100-13-X	PSA200-13-X	PSA300-13-X	PSA400-13-X
Travel (mm)	50	100	200	300	400
Pitch (mm)	4			5	
8 Sub-Resolution (μm)	2.5			3.125	
Max Speed (mm/sec.)	40			50	
Repeatability (μm)	<3				
Backlash (μm)	<5				
Straightness	<10μm	<10μm/100mm			
Parrallism	<15μm	<15μm/100mm			
Stepper Motor	57 (1.8°)				
Current (A)	2.4				
Max. Center Load (Kg)	50			70	

Related Products:

SC300 Controller

TMC Controller

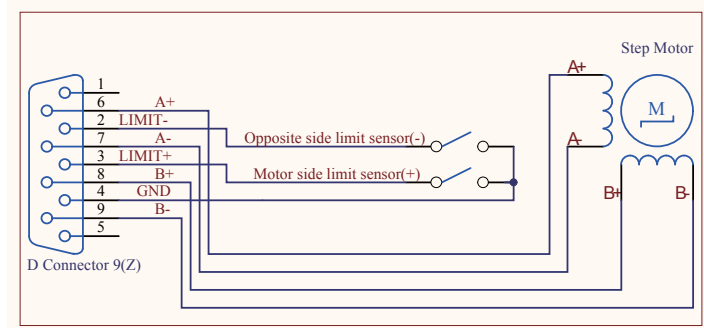


Application:



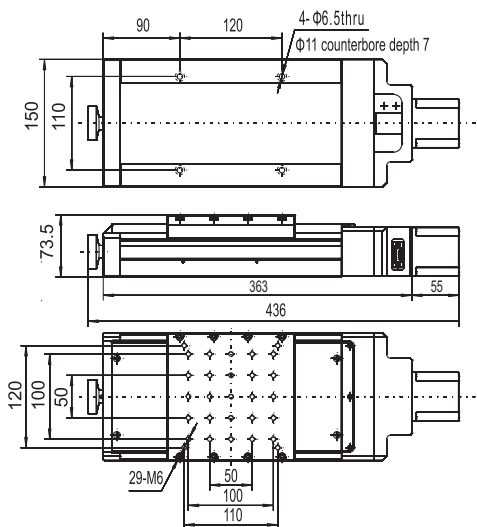
We can customize if you have any special requirement!

Diagram:

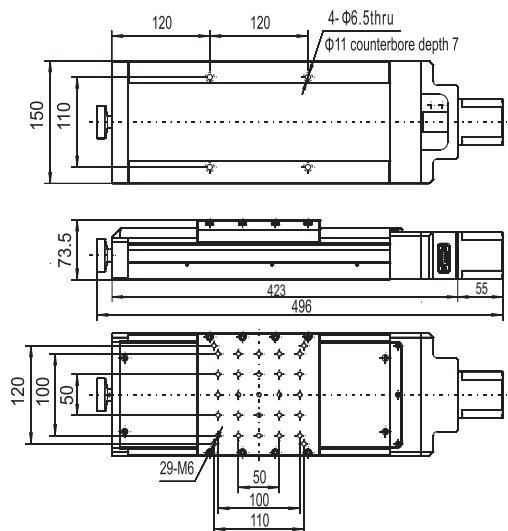


Drawing:

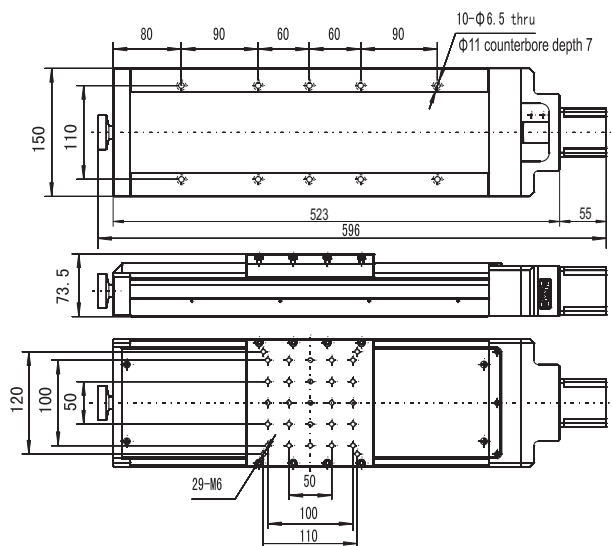
PSA050-13-X ▼



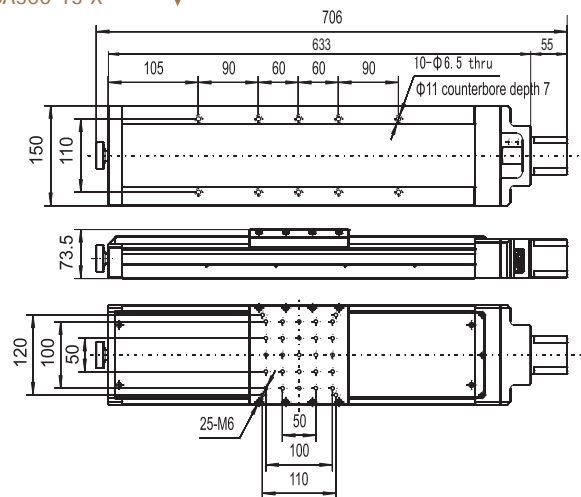
PSA100-13-X ▼



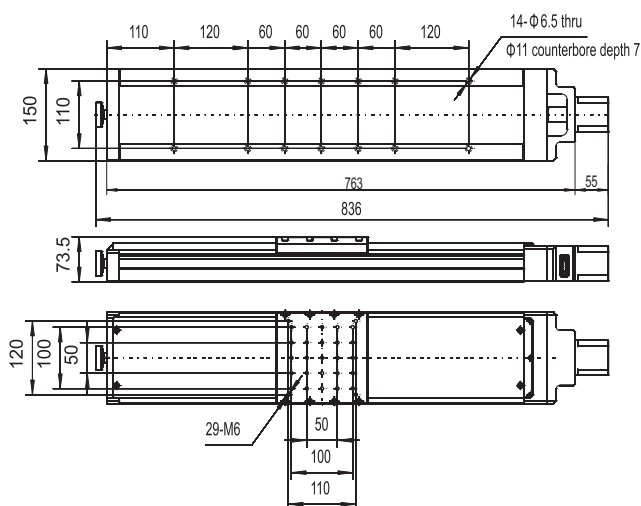
PSA200-13-X ▼



PSA300-13-X ▼



PSA400-13-X ▼



Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combined Stages

Controllers

TSA Series Linear Stages

TSAXXX-C Stepper Motor, Ultra-Thin Linear Stages



Model Sheet:

Model	TSA30-C	TSA50-C
Travel (mm)	30	50
Pitch (mm)		1
Resolution (8 subdivision) (μm)		0.625
Max speed (mm/sec.)		10
Repeatability (μm)		<5
Stepper Motor		42 (1.8°)
Working Current (A)		1.7
Max. Center Load (Kg)		10
Weight (Kg)	1.25	1.4

Please add BP-20 when you integrate TSA50-C

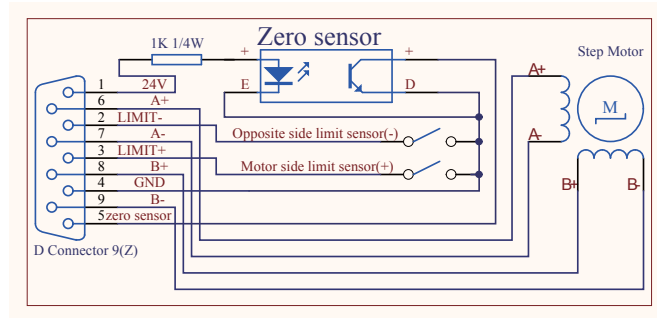
Related Products:

SC300 Controller

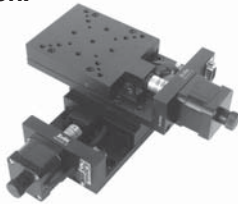
HC-100 Controller



Diagram:

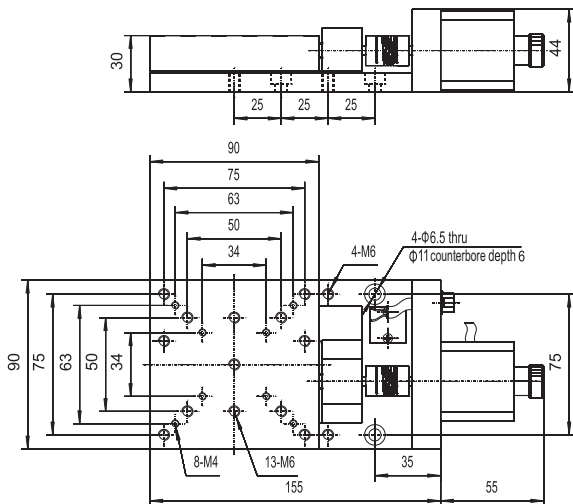


Application:

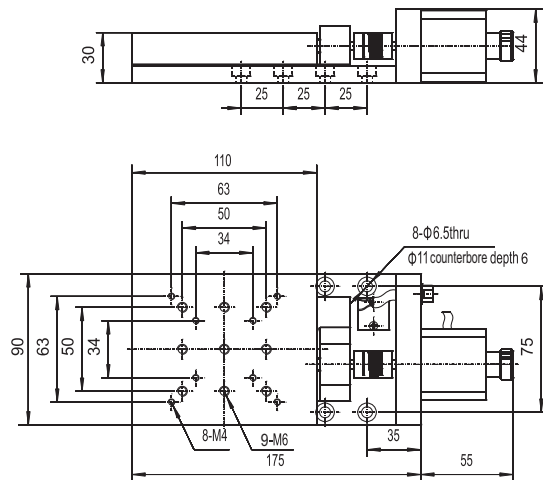


Drawing:

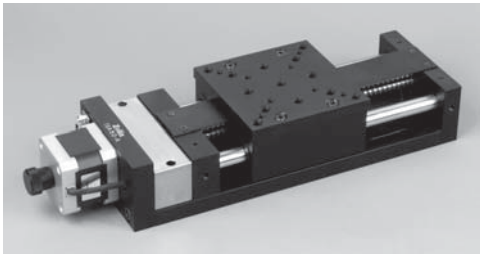
TSA30-C ▼



TSA50-C ▼



TSAX Stepper Motor, Linear Stages



Model Sheet:

Model	TSA50	TSA100	TSA150	TSA200
Travel (mm)	50	100	150	200
Pitch (mm)	4			
Resolution (μm)	1.25		2.5	
Max Speed (mm/sec.)	20		40	
Repeatability (μm)	< 5			
Stepper Motor	42 (0.9°)		42 (1.8°)	
Working Current (A)	1.7			
Max. Center Load (Kg)	15	10	7	7
Weight (Kg)	2.75	3	3.3	3.8

Related Products:

SC300 Controller

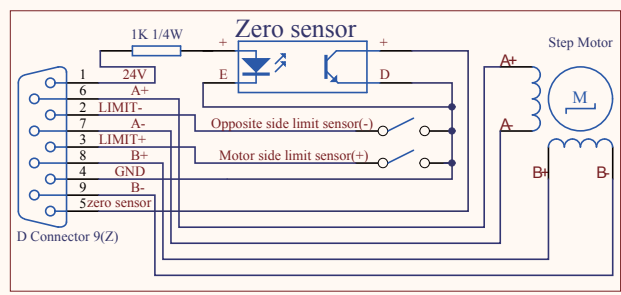
HC-100 Controller



Application:

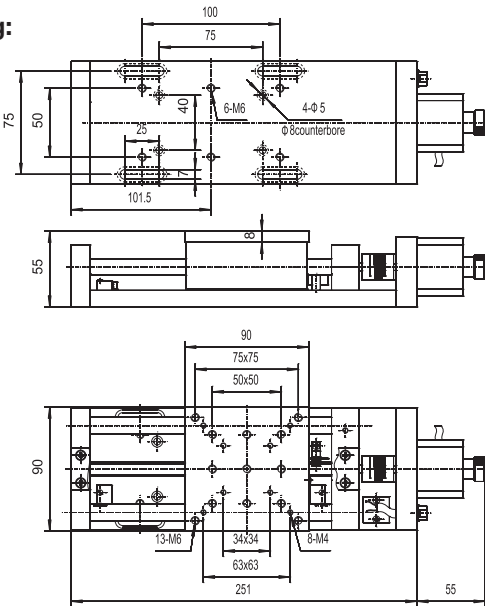


Diagram:

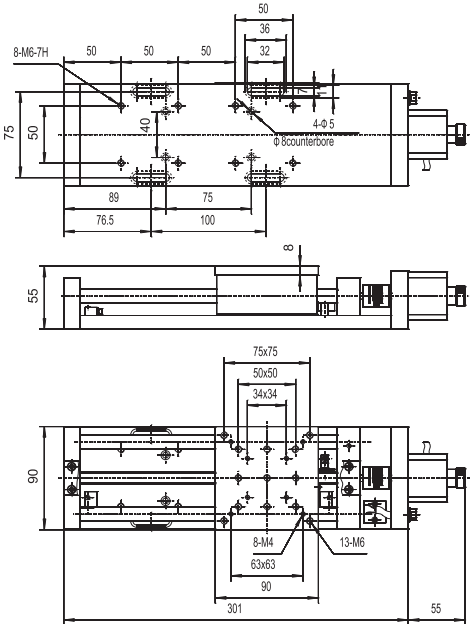


Drawing:

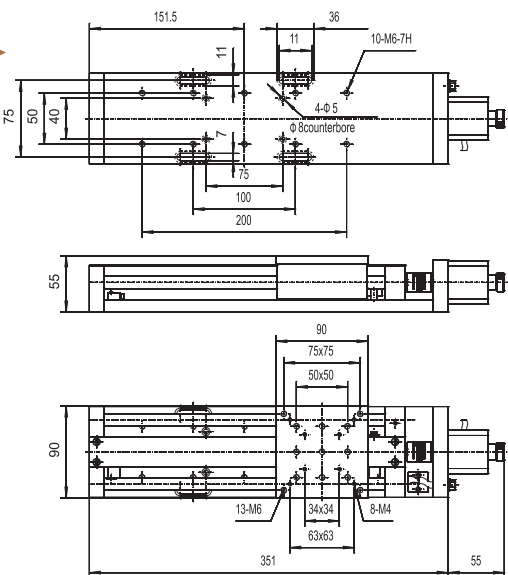
TSA50 ▶



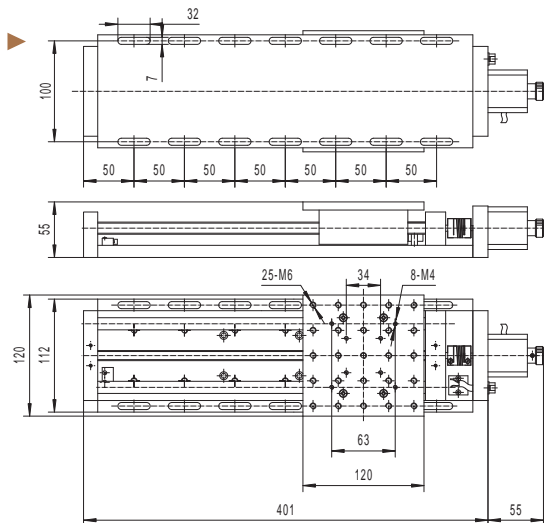
TSA100 ▶



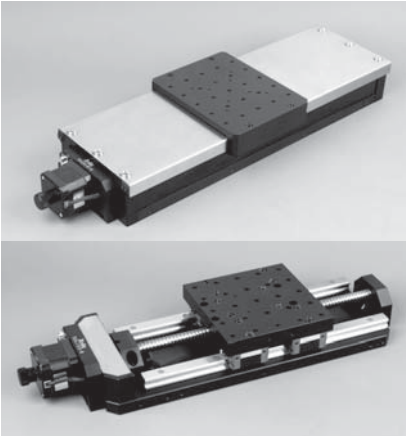
TSA150 ▶



TSA200 ▶



TSAXXX-B (F) Stepper Motor, Linear Stages, Large Load



Model Sheet:

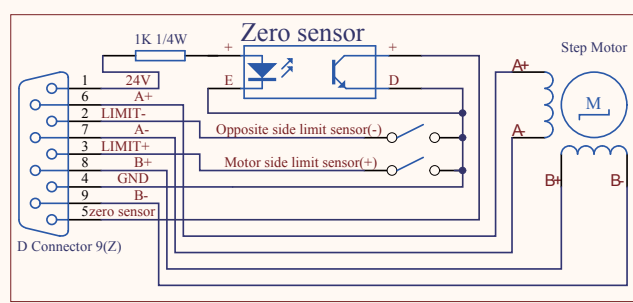
Model	TSA 50-B	TSA 100-B	TSA 150-B	TSA 200-B (F)	TSA 300-B (F)	TSA 400-B (F)	TSA 500-B	TSA 600-B	TSA 800-B	TSA 1000-B
Travel (mm)	50	100	150	200	300	400	500	600	800	1000
Pitch (mm)	4					5				
Resolution (μm)	1.25		2.5			3.125				
Max Speed (mm/s)	20		40			50				
Repeatability (μm)	<5									
Stepper Motor	42 (0.9°)		42 (1.8°)			57 (1.8°)				
Current (A)	1.7			2.4						
Load Capacity (Kg)	30			50						

Related Products:

SC300 Controller

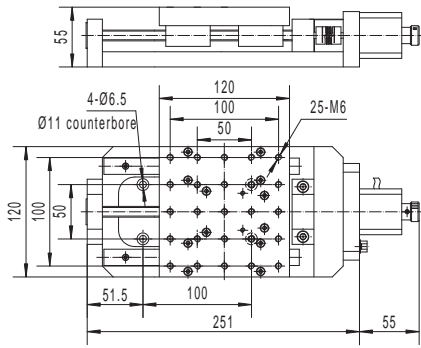


Diagram:

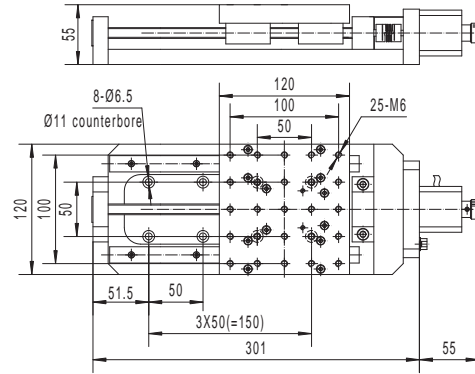


Drawing:

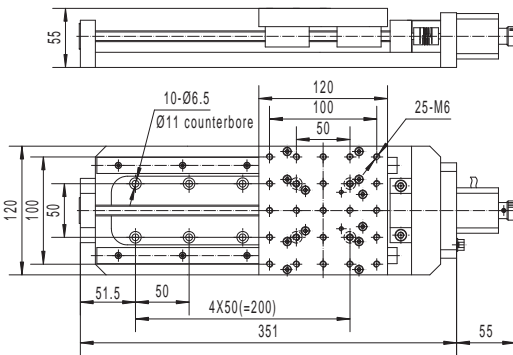
TSA50-B ▼



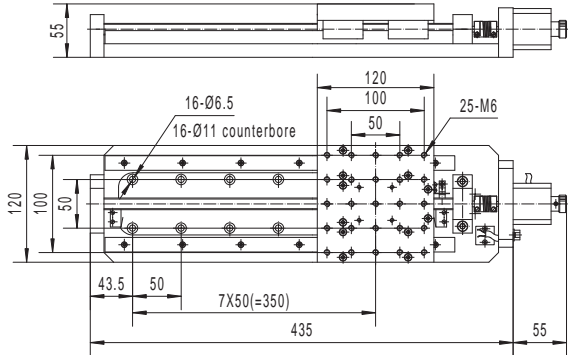
TSA100-B ▼



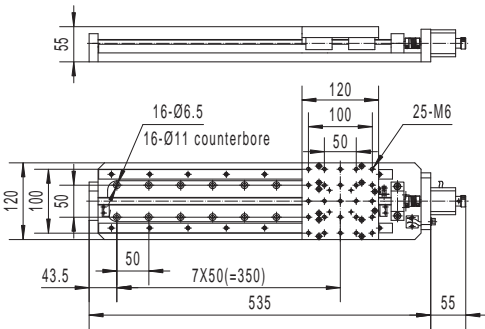
TSA150-B ▼



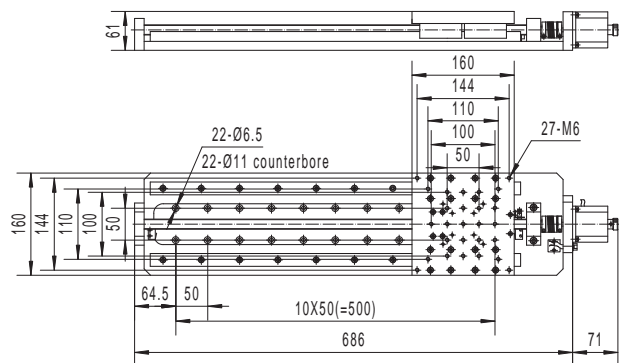
TSA200-B ▼



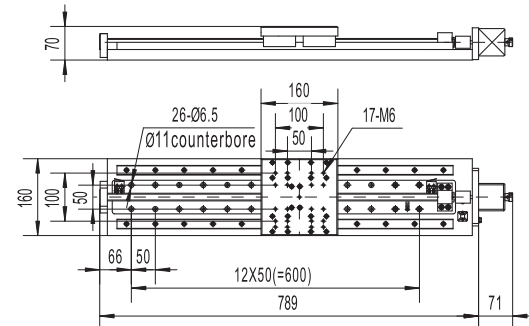
TSA300-B ▼



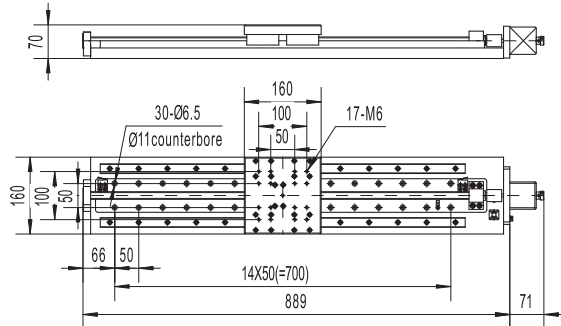
TSA400-B ▼



TSA500-B ▼



TSA600-B ▼



Motorized Linear Stages

Motorized Vertical Stages

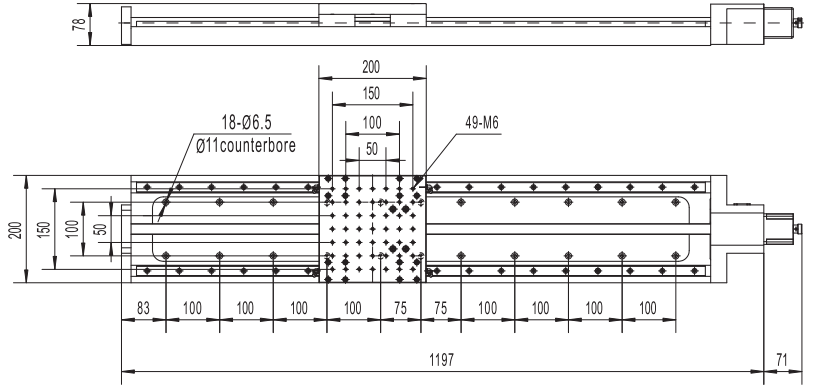
Motorized Rotation Stages

Motorized Goniometers

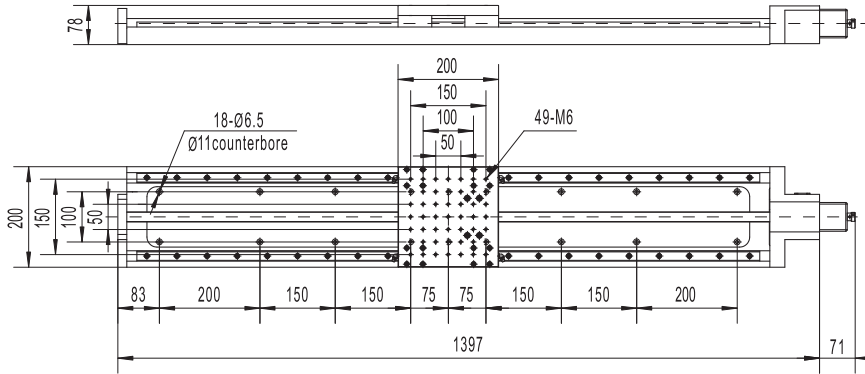
Combined Stages

Controllers

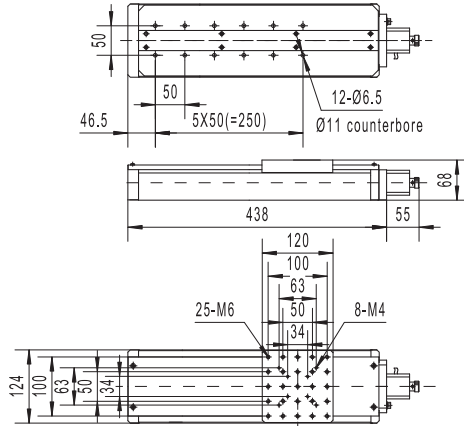
TSA800-B ▶



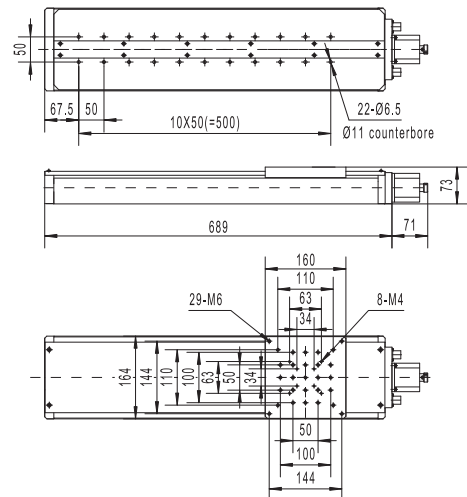
TSA1000-B ▶



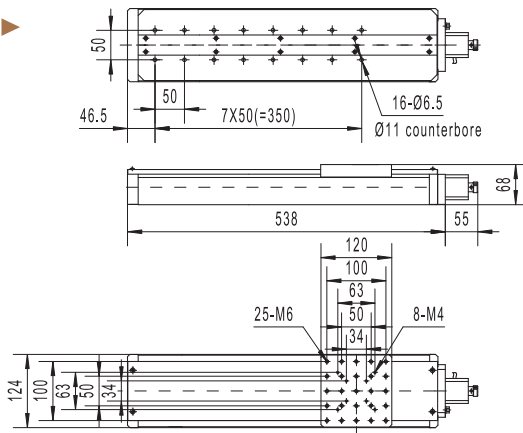
TSA200-BF ▶



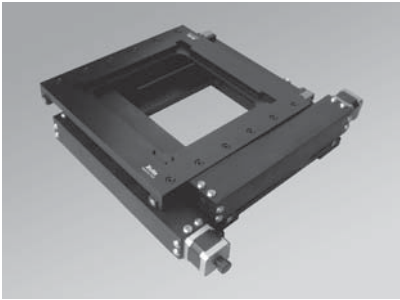
TSA400-BF ▼



TSA300-BF ▶



TSAW100X100-XY Integrated Two Dimension Linear Stages



Model Sheet:

Model	TSAW100×100-XY
Travel (X*Y) (mm)	100×100
Pitch (mm)	4
Repeatability (μm)	<5
8 sub -Resolution (μm)	1.25
Stepper Motor	42 (0.9°)
Working Current (A)	1.7
Max. Center Load (Kg)	20

Related Products:

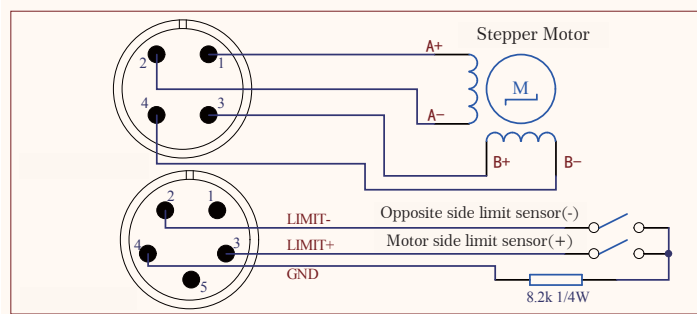
SC300 Controller



Application:

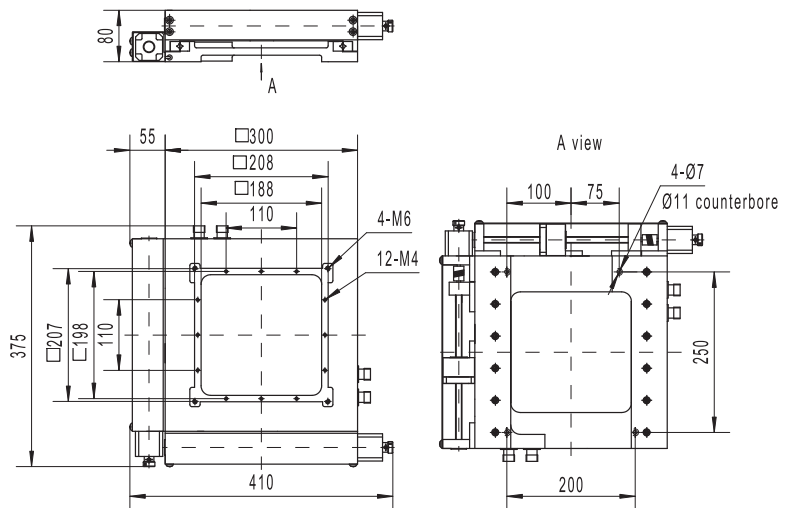


Diagram:



Drawing:

TSAW100×100-XY ▼



MScope series Motorized Microscope Stage



Specification:

Microscope Stage can be fixed to the top or the bottom of Microscope according to lens positions; The applications for Mirco-Raman, Micro-PL and related fields . The adapters can be different according to different microscope suppliers .

Model Sheet:

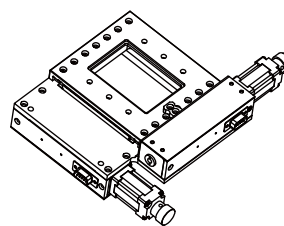
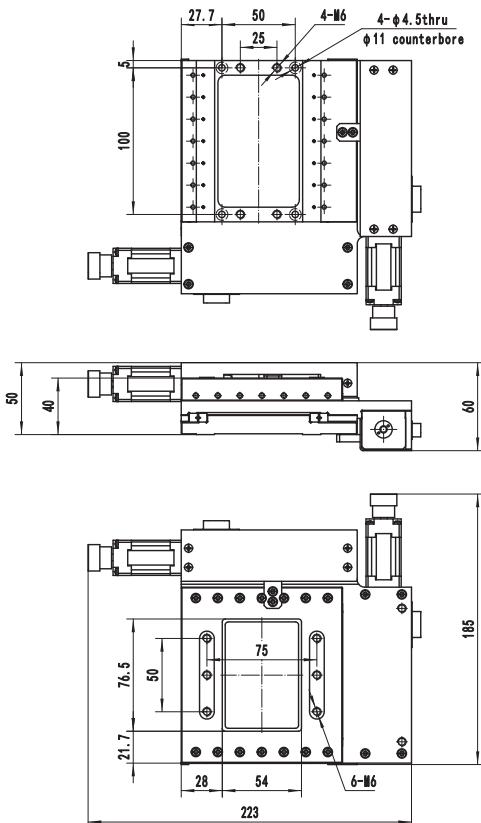
Model	MScopeR-5050
Travel (mm)	50×50
Pitch (mm)	1
Resolution (μm)	1
Max Speed (mm/s)	10
Repeatability (μm)	<2
Backlash (μm)	<3
Step Motor (Angle)	5 Phase Step Motor (0.72°)
Current (A)	0.75
Load (Kg)	5

Application:



Drawing:

MScopeR-5050 ▼



Integration System

Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combinated Stages

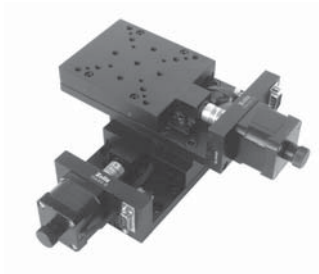
Controllers



KSA XY Stage



PSA-13 XY Stage



XY Ultra-thin Stage



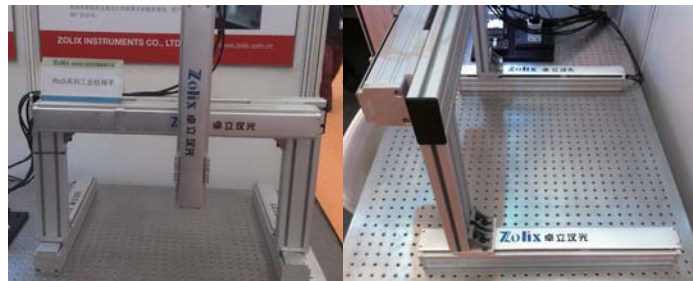
Scanning System



Large Travel Integrated Stage



Integrated 18 Axis Stage



Robert Stage

Customize Stages



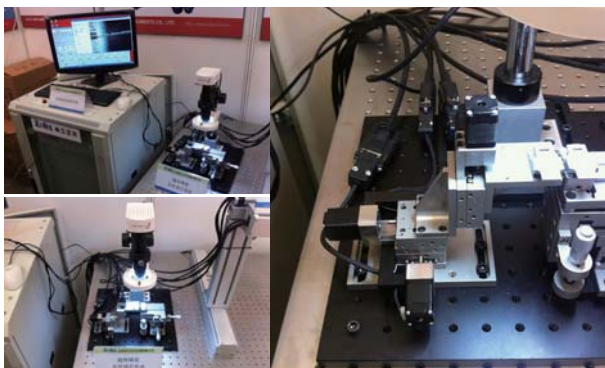
12 Inches Wafer Cutting System



Large Travel Stage (travel 2000mm)



3D Scanning System
(scanning area: 500x500mm)



Fiber Alignment Stage (travel 10-25mm)



Fiber System

Motorized Vertical Stages

KSAV Series Ultra-High Precision Motorized Vertical Stages



Model Sheet:

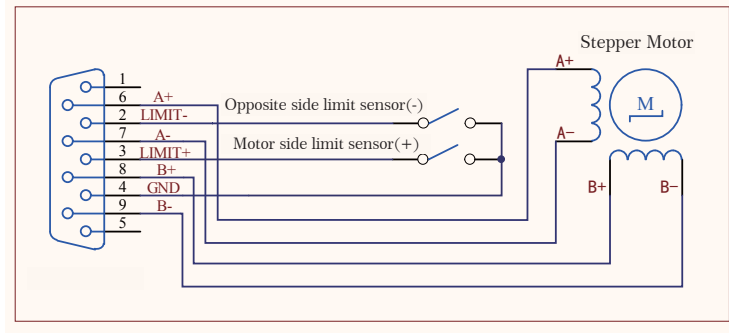
Model	KSAV1010-ZF	KSAV2030-ZF
Travel (mm)	10	30
Pitch (mm)	1	1
Resolution of 8 sub-division (μm)	0.23	0.4
Max Speed (mm/sec)	6	6.5
Repeatability (μm)	<5	<5
Stepper Motor (Angle)	42 (1.8°)	57 (1.8°)
Current (A)	1.7	2.4
Load Capacity (Kg)	10	20

Related Products:

SC300 Controller

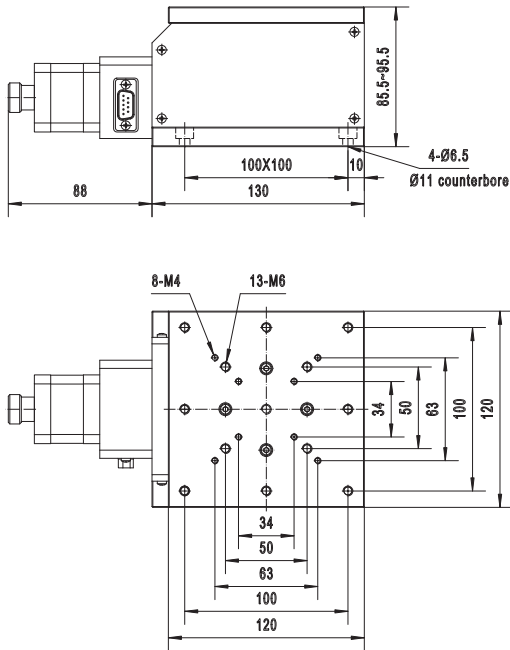


Diagram:

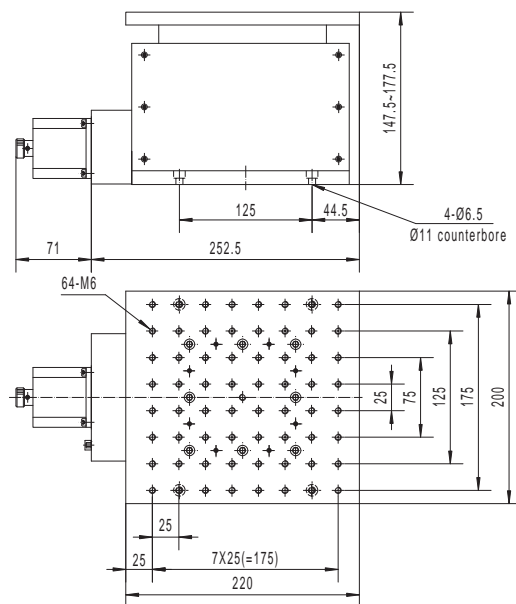


Drawing:

KSAV1010-ZF



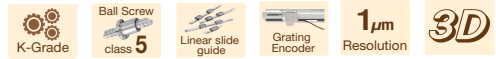
KSAV2030-ZF



KSAXXX-Z High Precision Motorized Vertical Stages

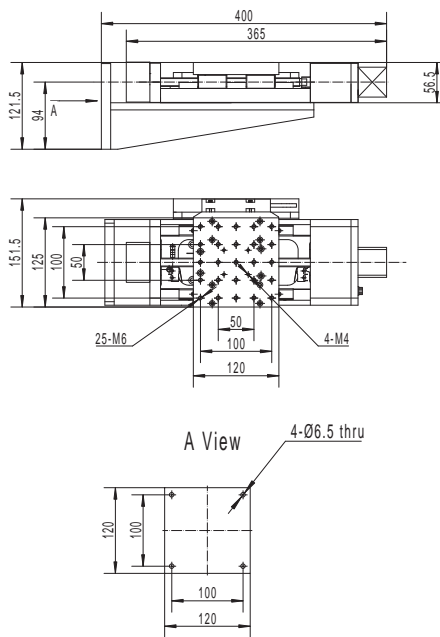
Specification:

KSAXXX-Z is designed on the basis of KSAXXX-11/12-X and used in vertical direction. All the specification are the same with KSAXXX-11/12/13-X except load capacity and moving direction.

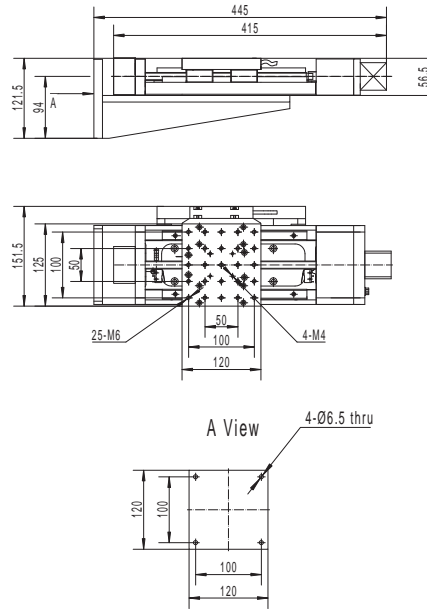


Drawing:

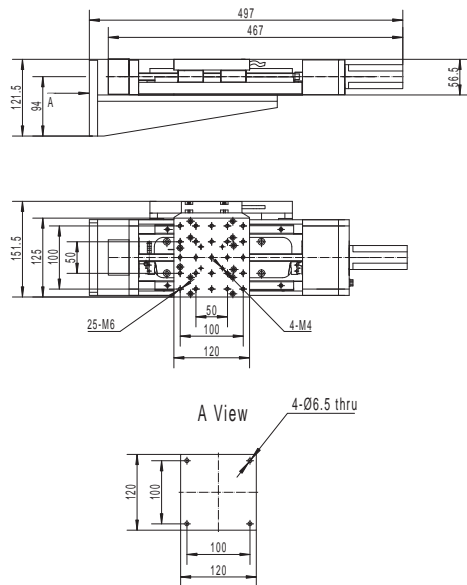
KSA050-12-Z ▼



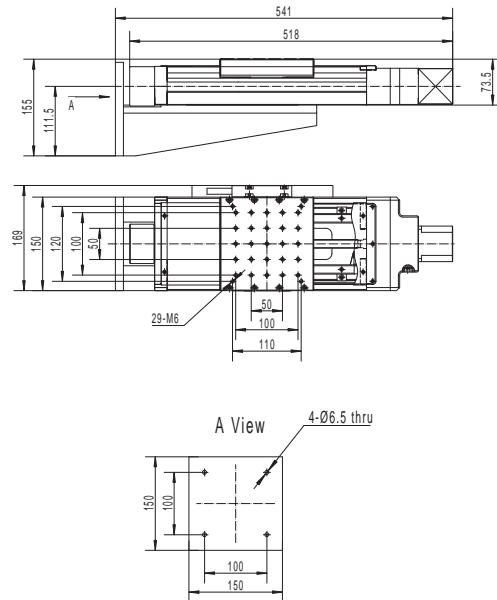
KSA100-11/12-Z ▼



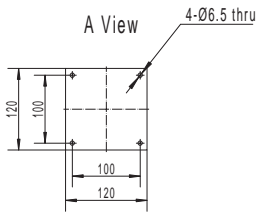
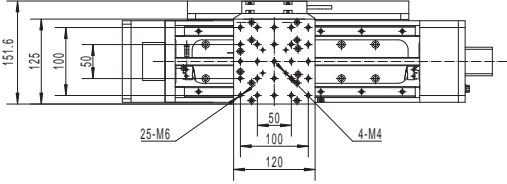
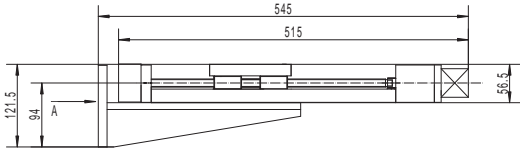
KSA100-11AS-Z ▼



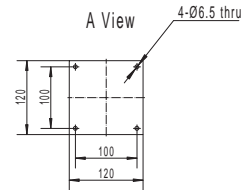
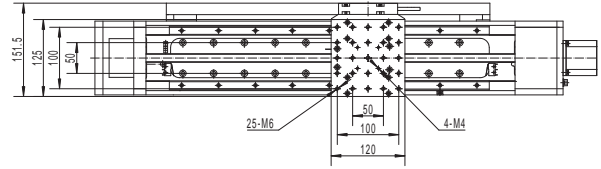
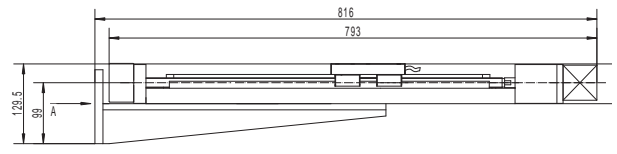
KSA100-13-Z ▼



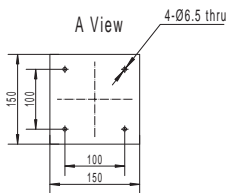
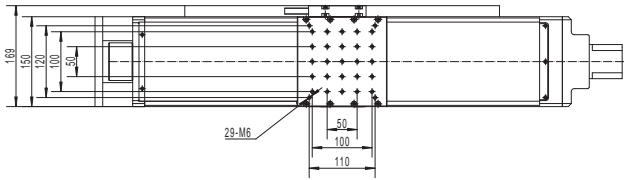
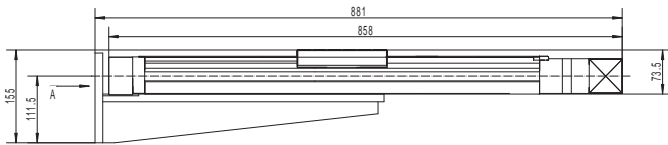
KSA200-11-Z ▼



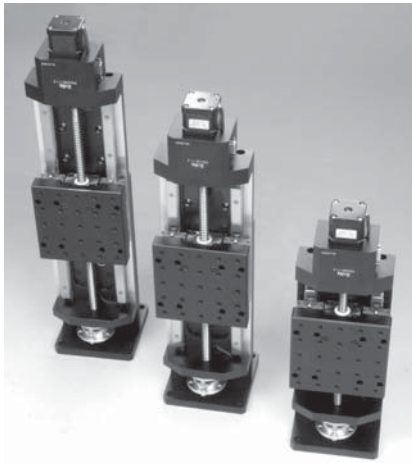
KSA400-12-Z ▼



KSA400-13-Z ▼



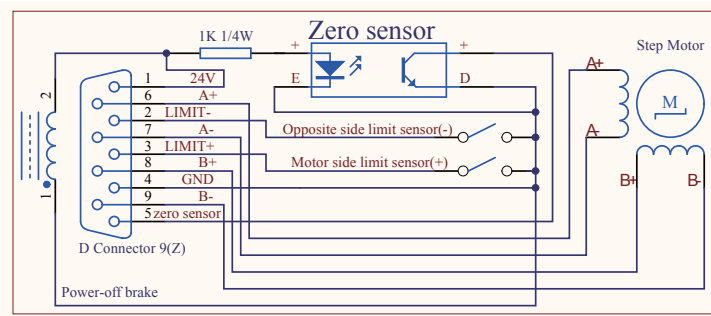
PSAXXX-11-Z Stepper Motor, Precision Linear Stages Application for Industry



Model Sheet:

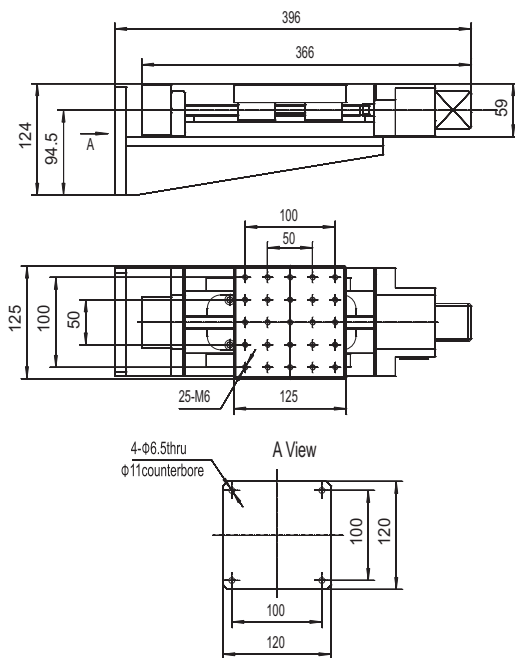
Model	PSA050-11-Z	PSA100-11-Z	PSA150-11-Z	PSA200-11-Z	PSA300-11-Z	PSA400-11-Z
Load (Kg)		5			10	
Max Speed (mm/s)		40			50	
other specification is the same with PSAXXX-11-X						

Diagram:

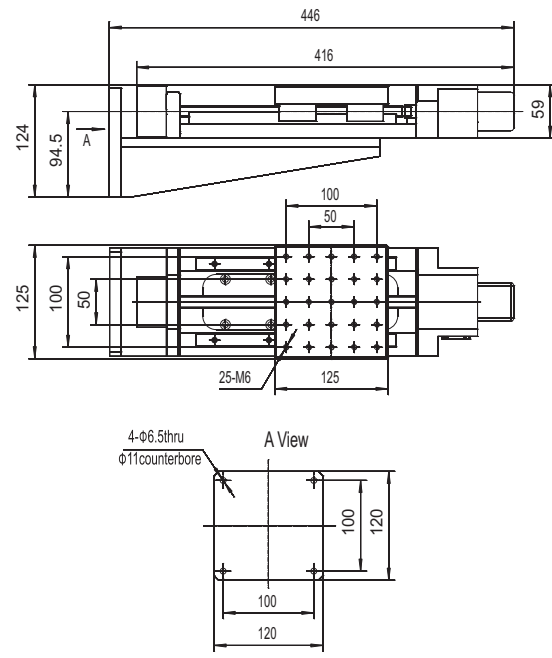


Drawing:

PSA050-11-Z ▼



PSA100-11-Z ▼



Motorized Linear Stages

Motorized Vertical Stages

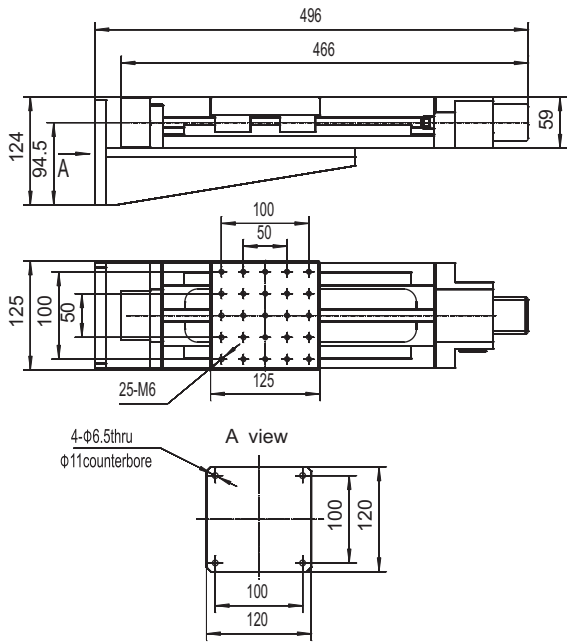
Motorized Rotation Stages

Motorized Conduimeters

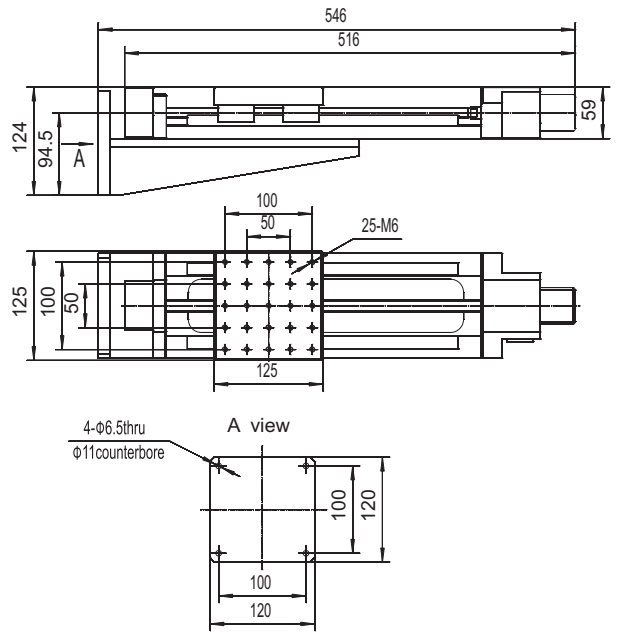
Combined Stages

Controllers

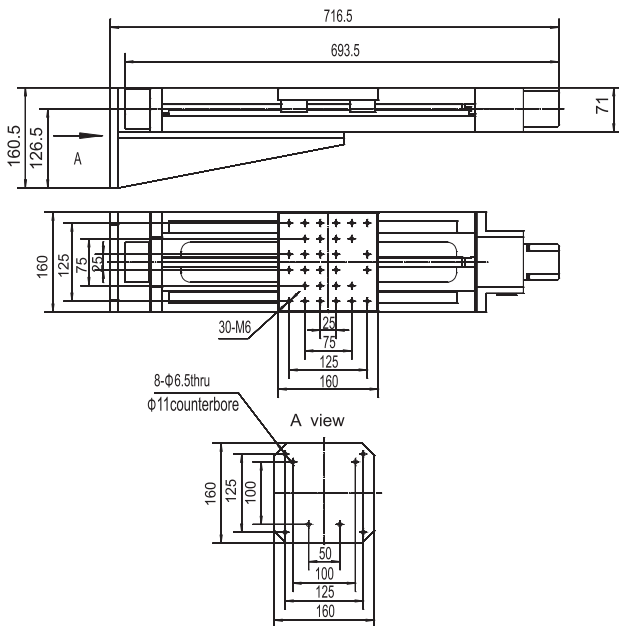
PSA150-11-Z ▼



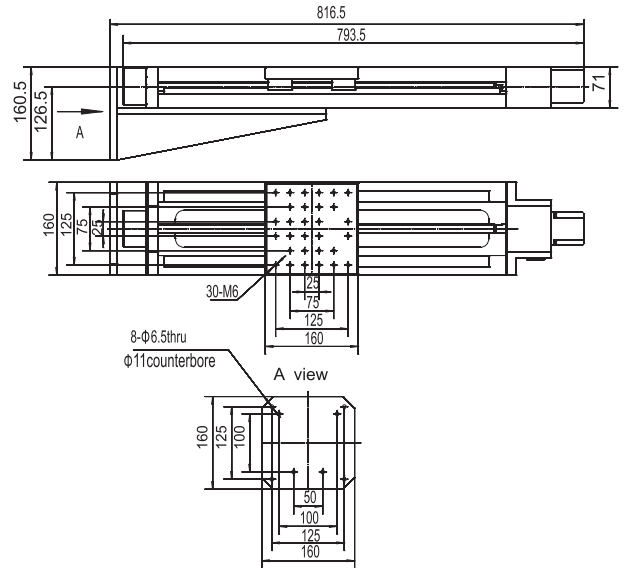
PSA200-11-Z ▼



PSA300-11-Z ▼



PSA400-11-Z ▼



PSAV Series High Precision Motorized Vertical Stages



Model Sheet:

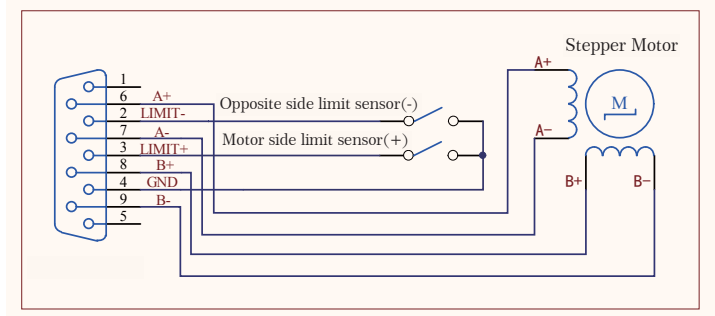
Model	PSAV50-240ZF	PSAV100-240ZF	PSAV200-240ZF	PSAV300-240ZF	PSAV400-240ZF
TravelL (mm)	50	100	200	300	400
Max Speed (mm/s)	12.5				
Pitch (mm)	5				
Ratio	4:1				
Resolution (μm)	0.78				
Load (kg)	200				
Table size (mm)	240×240				
Step Motor (Angle)	57 (1.8°)				
Current (A)	2.4				
Repeatability (μm)	<5		<10	<20	
Backlash (μm)	<20		<30	<50	

Related Products:

SC300 Controller

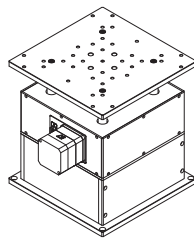
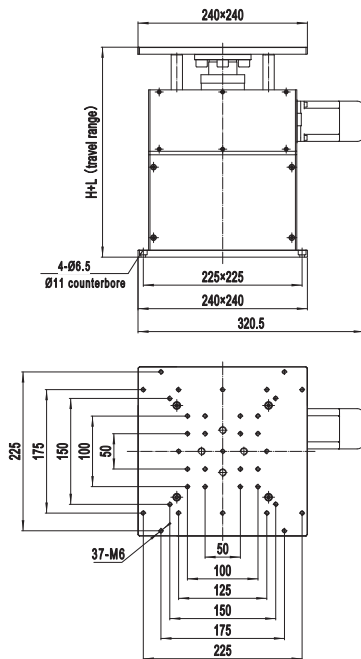


Diagram:



Drawing:

PSAVxx-240ZF



型号	PSAV050-240ZF	PSAV100-240ZF	PSAV200-240ZF	PSAV300-240ZF	PSAV400-240ZF
L	50	100	200	300	400
H	251	308	411	515	627

Motorized Rotation Stages

Selection Guide

Series	Table Size (mm)	Resolution	Max Speed (Deg./seg)	Load Capacity (Kg)	Motor
RAuK Series Ultra-High Precision Motorized Rotation Stages	100/200	1.2-1.8"	25	30/50	Stepper Motor
RAK Series High Precision Motorized Rotation Stages	100/200/350	0.00125°	25	30/50/100	
RAP Series Precision Motorized Rotation Stages	100/125/200/220	0.00125°	25	30-50	
RSA Series Motorized Rotation Stages	60/100/200/300/400	0.0025°	50	30/50/60/80	

RAuK Series Ultra-High Precision Motorized Rotation Stages



Model Sheet:

Model	RAuK100	RAuK200
Resolution of 8 sub-division (°)	0.00125	0.00125
Closed-loop Resolution (")	1.8	1.2
Drive Ratio	180:1	180:1
Max Speed (deg./sec.)	25	25
Repeatability (°)	< 0.005	< 0.005
Radial Runout (μm)	< 15	< 10
Axial Runout (μm)	< 15	< 10
Stepper Motor (Angle)	42 (1.8°)	57 (1.8°)
Current (A)	1.7	2.4
Load Capacity (Kg)	30	50

Related Products:

MC600 Controller TMC Controller

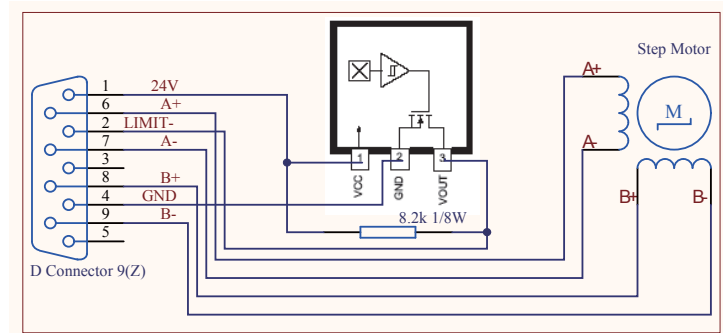


Application:

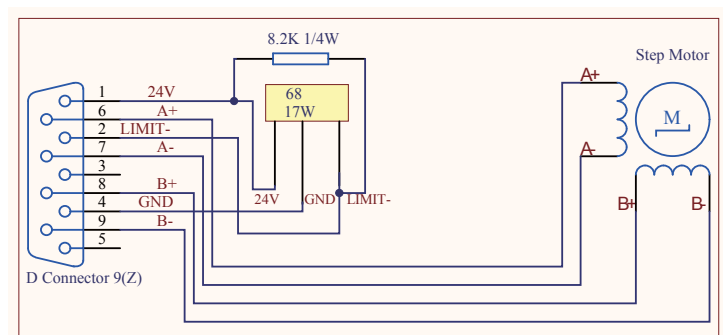


Diagram: It will stop when it comes across zero switch (unclockwise)

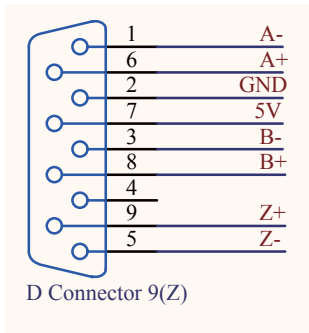
RAuK100 ▼



RAuK200 ▼

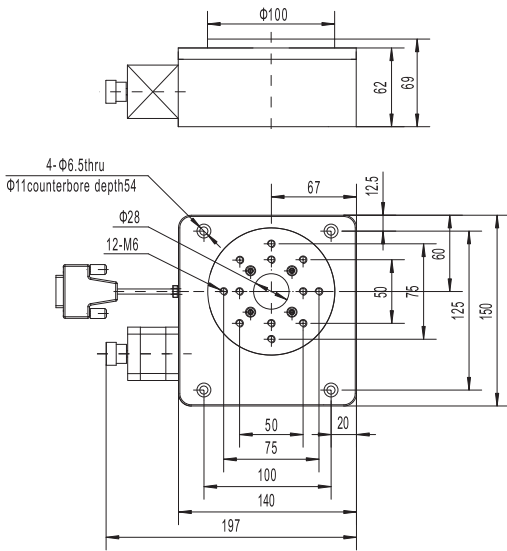


Grating Diagram:

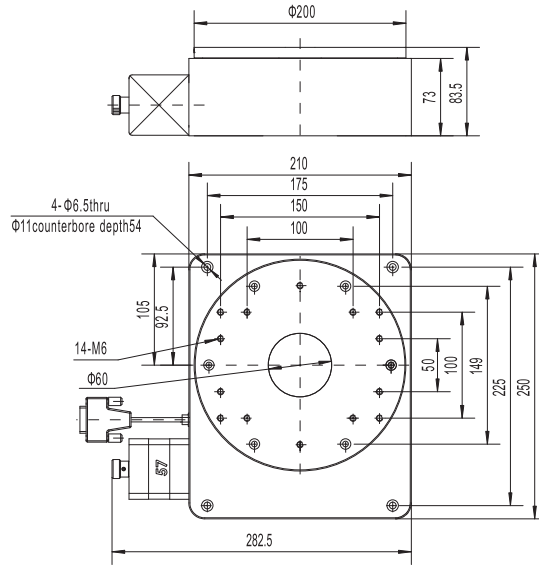


Drawing:

RAuK100 ▼



RAuK200 ▼



Motorized Linear Stages

Motorized Vertical Stages

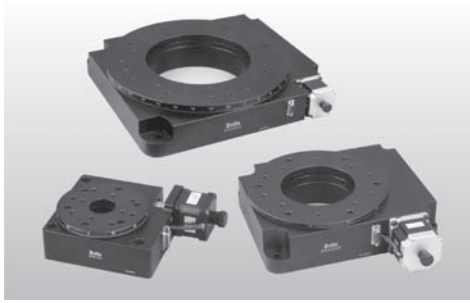
Motorized Rotation Stages

Motorized Conduimeters

Combined Stages

Controllers

RAK Series High Precision Motorized Rotation Stages



Model Sheet:

Model	RAK100	RAK200	RAK350
Worm Gear Ratio	180: 1		
Material	AL		
Stepper Motor	42 (1.8°)	57 (1.8°)	57 (1.8°)
Max. Center Load (Kg)	30	50	100
Resolution (°)	0.00125	0.00125	0.0007
Repeatability (°)	0.005	0.005	0.003
Radial Runout (um)	<15	<10	<20
Axial Runout (um)	<15	<10	<20
Max. Speed (° /Sec.)	25	25	14
Current (A)	1.7	2.4	100
Load Capacity (Kg)	30	50	100

Combinated Products

SC300 Controller

TMC Controller



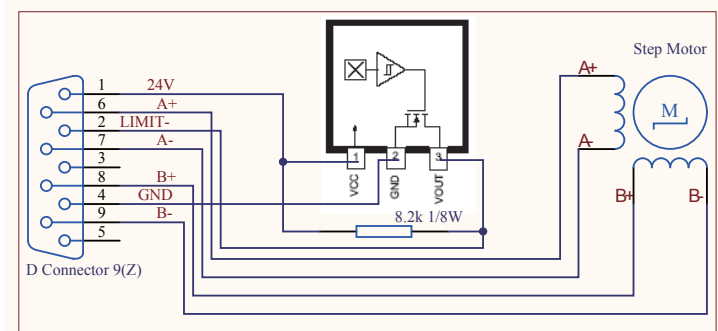
Application:

Satellite Tracking System

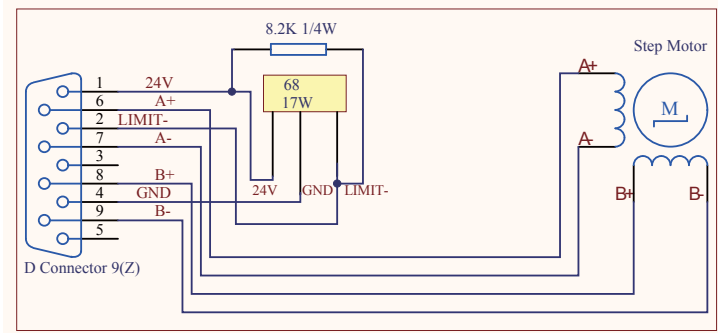


Diagram: It will stop when it come across zero switch (unclockwise)

RAK100 ▼

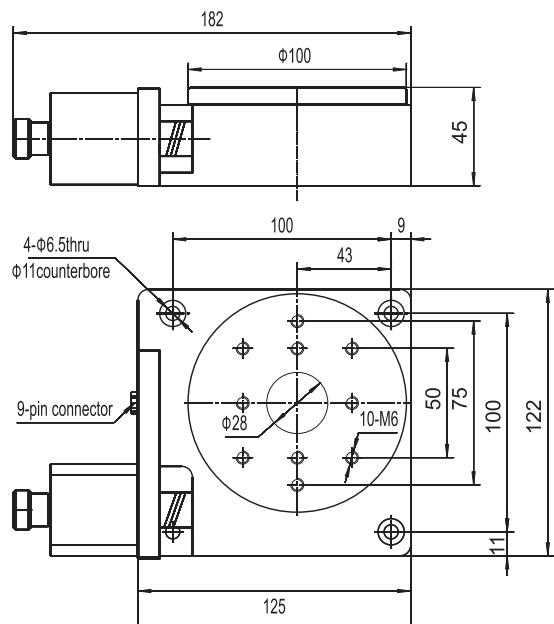


RAK200/350 ▼

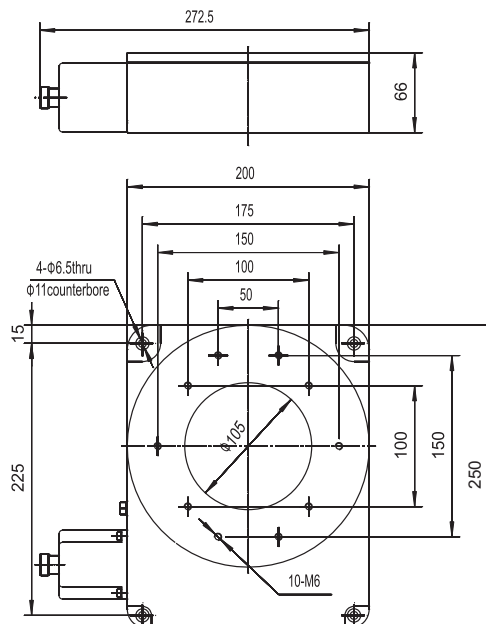


Drawing:

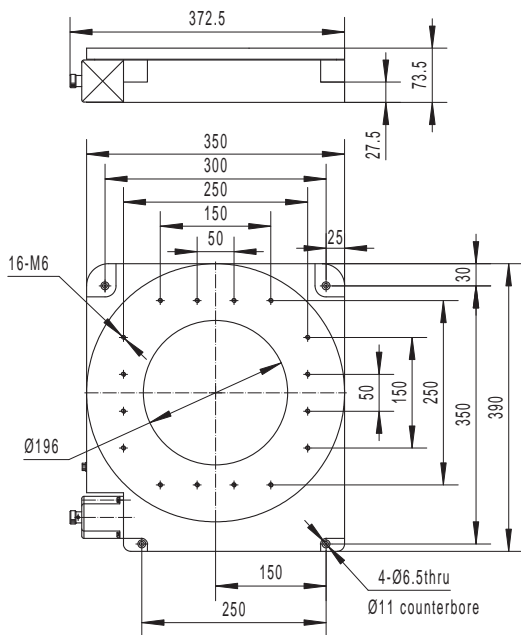
RAK100 ▼



RAK200 ▼



RAK350 ▼



Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Convolometers

Combined Stages

Colliders

RAP Series Precision Motorized Rotation Stages



Related Products:

SC300 Controller

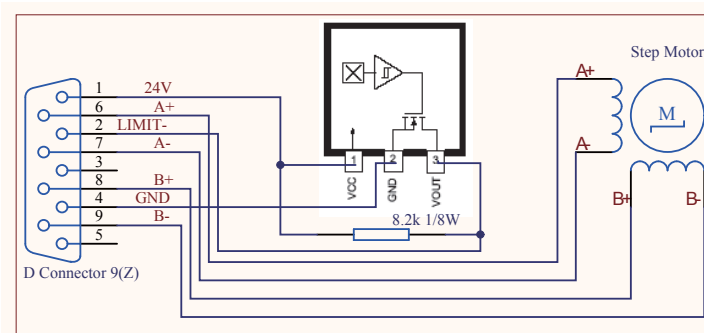


Model Sheet:

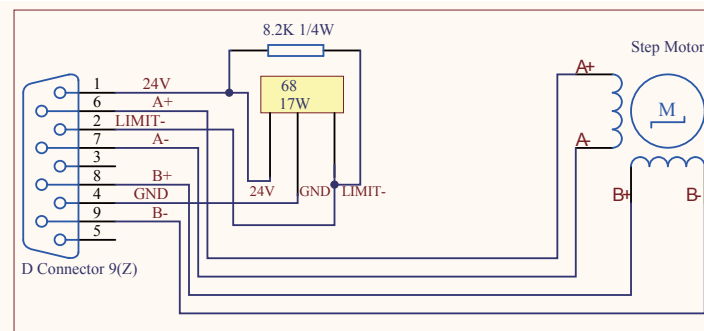
Model	RAP100	RAP125	RAP200	RAP220
Base Material	Al			
Worm and Gear Ratio	180:1			
Resolution (°)	0.00125			
Max Speed (° /sec)	25			
Repeatability (°)	<0.005			
Radial Runout (um)	<20		<25	
Axial Runout (um)	<20		<25	
Stepper Motor (Angle)	42 (1.8°)		57 (1.8°)	
Current (A)	1.7		2.4	
Load Capacity (Kg)	30		50	
Weight (Kg)	2	2.4	7.5	7.5

Diagram: It will stop when it comes across zero switch (unclockwise)

RAP100/125 ▼

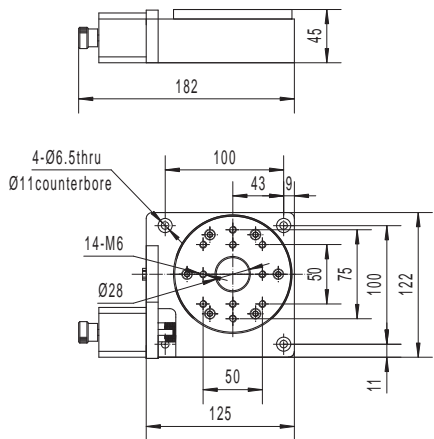


RAP200/220 ▼

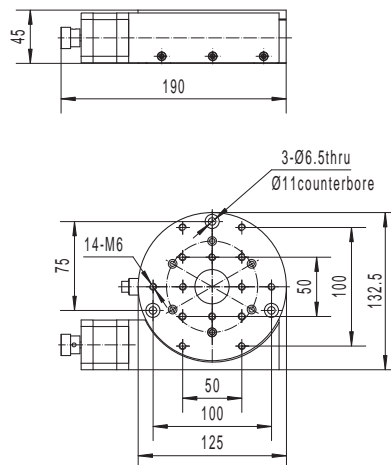


Drawing:

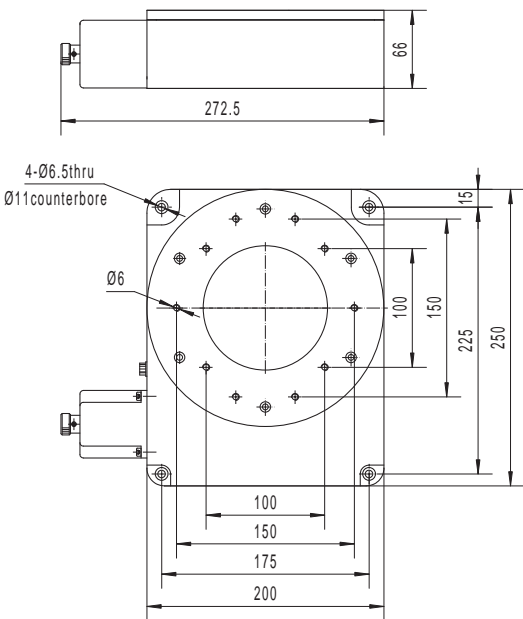
RAP100 ▼



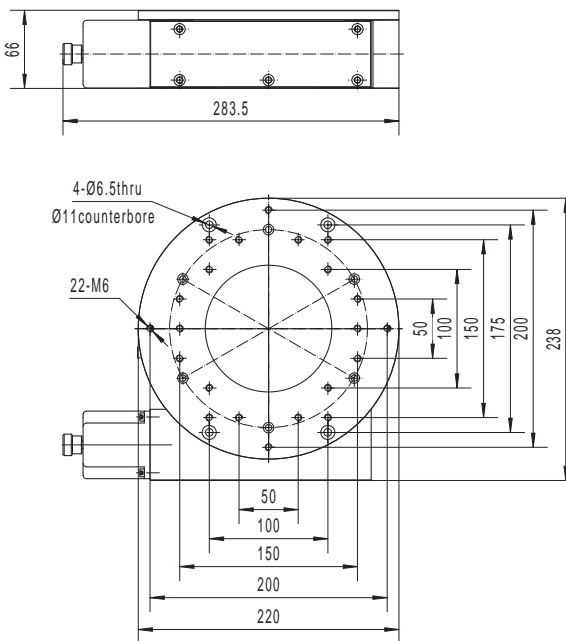
RAP125 ▼



RAP200 ▼



RAP220 ▼



Motorized Linear Stages

Motorized Vertical Stages

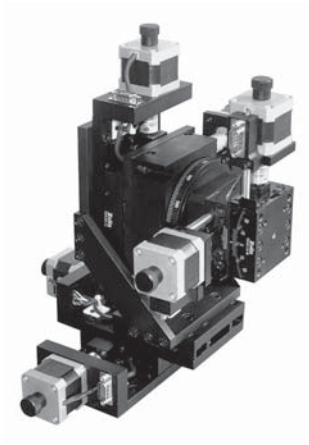
Motorized Rotation Stages

Motorized Conlometers

Combined Stages

Collollers

Integration&Customize System



6 Axes System



Satellite Tracking System



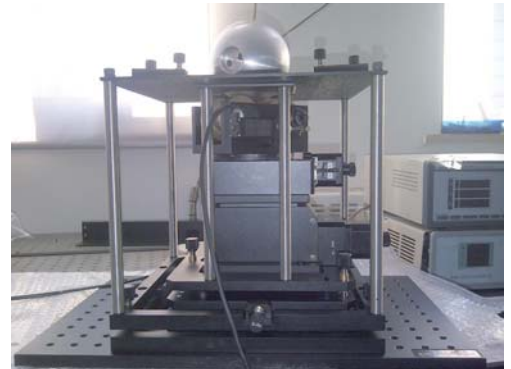
Motorized Gimbal System (Large Size Mirror)



Scanning System



Motorized Mount



Si Scanning System

Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combinated Stages

Controllers

Motorized Goniometers

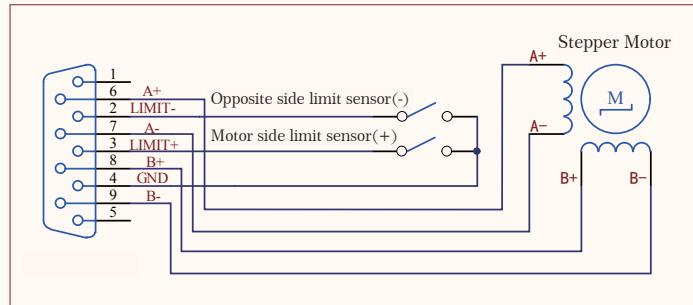
PSAG Series High Precision Motorized Goniometer



Model Sheet:

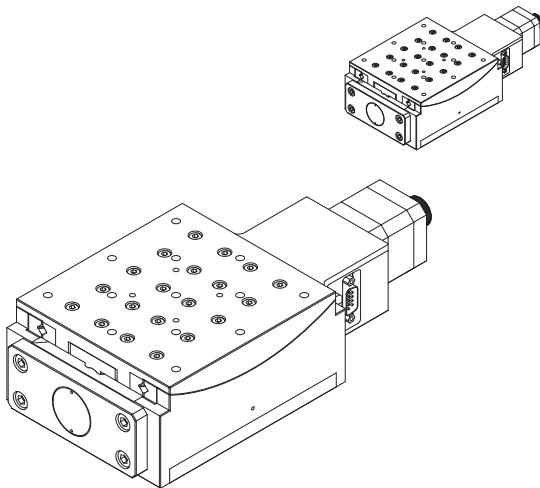
Model	PSAG15-130	PSAG15-195
Angle (°)	± 15	
Table Dimension (mm)	120 × 130	120 × 180
Height of Axis (mm)	130	195
Worm Gear Ratio	320: 1	450: 1
Resolution (8 subdivision) (°)	0.0007	0.0005
Stepper Motor	42 (1.8°)	
Working Current (A)	1.7	
Max Center Load (Kg)	20	

Diagram:

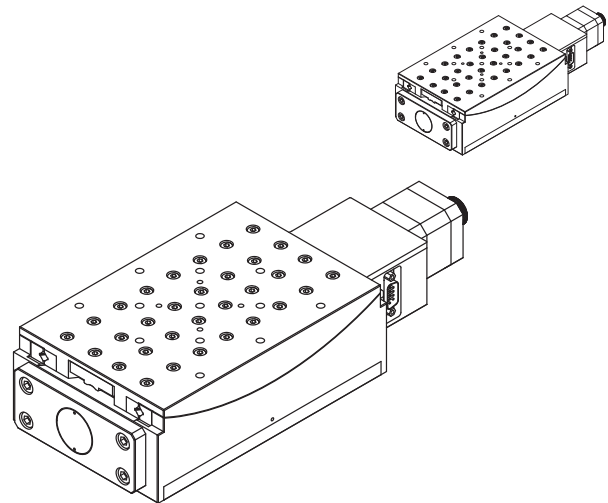


Drawing:

PSAG15-130 ▼



PSAG15-195 ▼



Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combinated Stages

Controllers

PSAG Series High Precision Motorized Goniometers



Model Sheet:

Model	PSAG15-250	PSAG15-370
Angle (°)	± 15	± 15
Table Dimension (mm)	250×250	340×250
Height of Axis (mm)	250	370
Guide	Arc	
Worm Gear Ratio	610:1	870:1
Resolution (8 subdivision) (°)	0.00037	0.00026
Stepper Motor		57 (1.8)
Working Current (A)		2.4
Max Center Load (Kg)		50

Related Products:

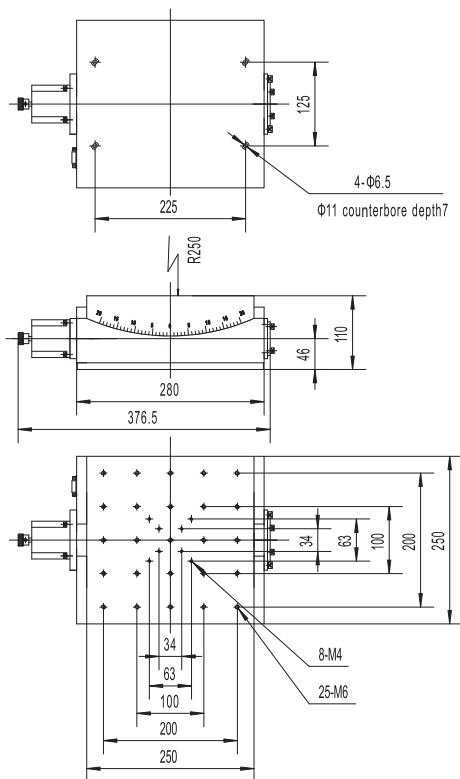
SC300 Controller

TMC Controller

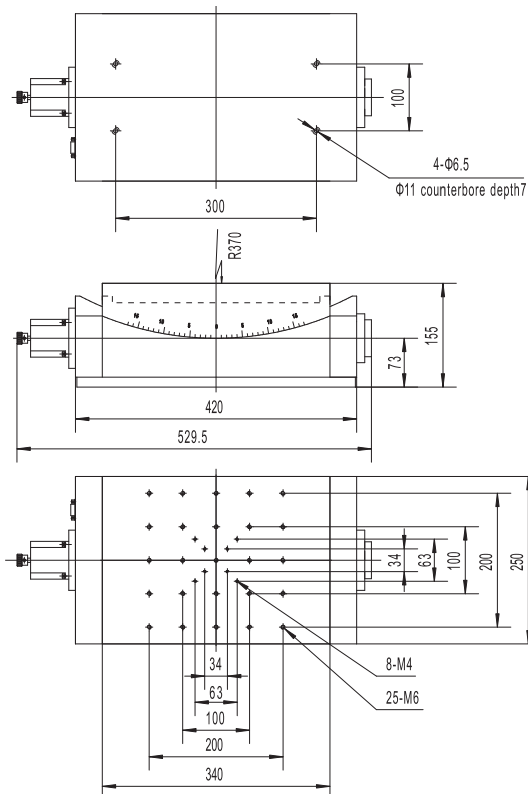


Drawing:

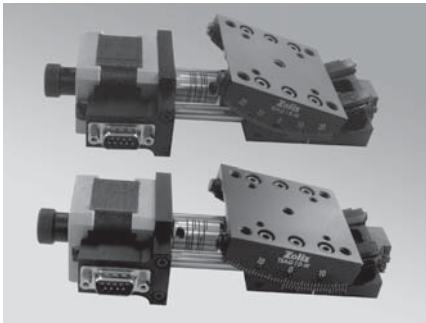
PSAG15-250 ▼



PSAG15-370 ▼



TSAG Series Precision Motorized Goniometers



Model Sheet:

Model	TSAG10-W	TSAG15-W
Travel (mm)	±10°	±15°
Table Size	65 x 65	
Guides	Arc Guide	
Transmission Ratio	352:1	252:1
Resolution (8 sub-division) (μm)	0.00032°	0.00045°
Repeatability (μm)	0.0043°	0.0047°
Stepper Motor	42 (0.9°)	
Working Current (A)	1.7	
Max. Center Load (Kg)	4	
Height of axis (mm)	75	70
Weight (Kg)	0.75	

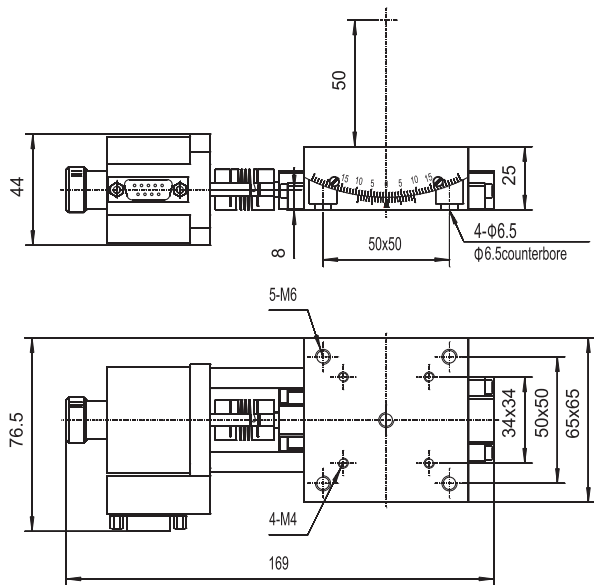
Related Products:

SC300 Controller

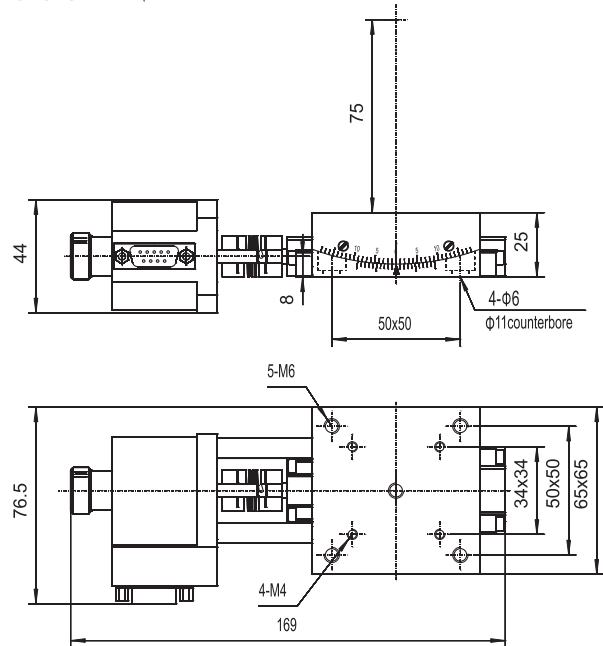


Drawing:

TSAG15-W ▼



TSAG10-W ▼



Motorized Linear Stages

Motorized Vertical Stages

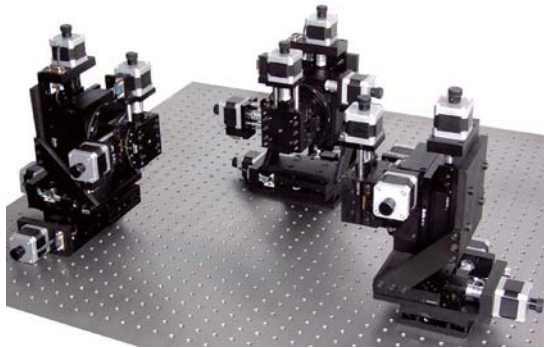
Motorized Rotation Stages

Motorized Goniometers

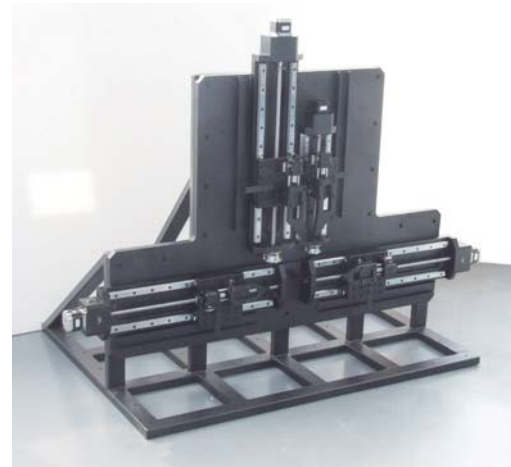
Combined Stages

Controllers

Integrated&Customize System



Three Way Laser Welding System



Laser Alignment System (motorized 8 axis and manual 4 axis)



Multi-axis High Load System
Translation,Rotation,Goniometer of X
Axes,High Load (80Kg) Very Flexible
for configuration: Add the vertical of Y
and Z axes. Application for : Multi-axis
adjustment, high load, high accuracy.



Multi-axis High Load System Application:
High load, Large Travel,Multi-axes
adjustment.



Visual Analogue System uKSA/KSA/PSA/
TSA+RAuK/RAK/RSA+SC300/MC600
Application:Scanning/Tracking



Interference Microscope System



High Load System (3 axis)



High Load System (5 axis)

Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combinated Stages

Controllers

Motion Controller

MC600 Controller

Many years of precision mechanical design, fabrication and motion control experience and expertise, Zolix has developed an extensive catalog of motorized positioning and motion control products. From integrated OEM motion systems used by leading semiconductor equipment manufacturers for wafer inspection,

MC600 includes 3 sub-division :

- 2 phase stepper motor :MC600-2B/4B
- 3 phase stepper motor :MC6003P-2B/4B
- panasonic AC servo-motor controller :
servo-motor high cost, large size,we divide into control cabinet MC600ASP and drive cabinet ASP-XXXX.
- control cabinet is universal product,
drive cabinet includes from 1 to 4 axis product,different servo-motor 100W or 200W,divide below models

Nubers of axis	Model	Specification
1 axis	ASP-1000	100W
	ASP-2000	200W
2 axes	ASP-1100	100W
	ASP-1200	One Axis:100W,another is 200W
	ASP-2200	200W
	ASP-1110	100W
3 axes	ASP-1120	One Axis: 200w,others is 100W
	ASP-1220	One Axis:100w,others is 200W
	ASP-2220	200W
	ASP-1111	100W
4 axes	ASP-1112	One Axis: 200w,others is 100W
	ASP-1122	Two axes :200W,two axes is 100W
	ASP-1222	One Axis: 100w,others is 200W
	ASP-2222	200W

MC series is a multi-functions product,used to measuring and position controlling ,excellent quality and high cost perfomance. MC 600 achieve point to point (control 4 axis or 2 axis) of translation and rotation and goinometers stages.equipped with stepping motor drive or swap-actuaor driver .Aboundant parameters,flexible online communication commands ,make the system easier and more effectiveness, can achieve the linear interporlation of 3 axis and the circle interporlation of 2 axis.

Characteristic:

This system adopted 32 bits DSP processors,achieved high precision control of high arithmetics,the closed-loop control of digital PID ensure deceleration or acceleration of accuracy and position control ;stepping motor drive achieve 128 sub-division,ensure stable ability of low speed stepping positional repeatability

The use of servomotor meet the indication of high speed motion.

- Two models :inching and increment
- ◆ Inching:quickly locate to target ,accelerate process of experiment
- ◆ Increment:suitable for postional locating applications
- Meet to the combination control of many motoried stages and rotation stages
- ◆ Angle value:display of angle displacement
- ◆ Mm unit:display of linear displacement (motorized linear displacement stages
- Four axes have closed-loop control function (achieve by grating ruler/rotation encoder external
- Make the adjustment of positon and position accuration
- The accuracy of position system is depend on accuracy of grating ruler and encoder

■Decided the speed of return original,initial speed constant speed and accelerate speed and software position limit , suitable for different control;For example:the system need limit response time,set up larger original or accelerate speed ; system need stable motion,light force,set up small original or accelerate speed ;system need constant speed can choose constant motion model

Set up any postion as the working origion

■The design of zero simple operation ,composited photonic sensor combine with posiiton arimethic,increase the accuracy of the physical zero

■Read logical position,real position ,driver speed,accelerate speed all the time in motion etc status parameters

■16 road I/O set up output exter or trigger output by program.when I/O is input internal,as stop motion or signal of operate special processing

■When I/O is input I/O as the interface hardware of monitor device status

■Achieve indication of motion control by zolix MC antivex. additionally ,finishing simple programme by MC control software,set up motion parameters and location parameters conveniently

Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combinated Stages

Controllers

- Compare with self-made, reducing workload
- Display surface of 240x128 lattice LCD, abundant content, the design of style of menu is easy to set up parameter
- ◆ Multi-menu function, convenient for set up parameter
- ◆ Display the parameter of x y z t axes simultaneously
- ◆ Choose different model of operating
- ◆ Display measure units
- Store the parameter, non-loss electric, simple operating process

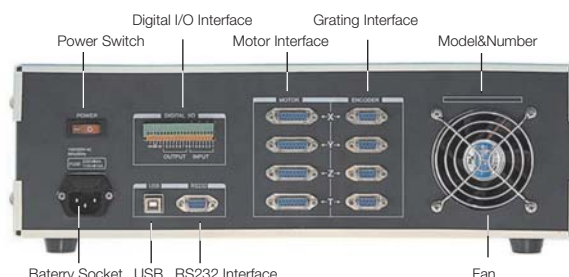
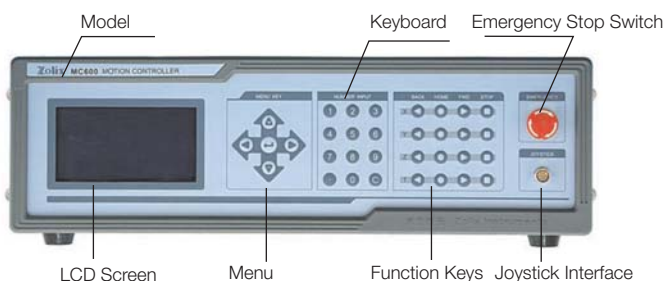
Lead mechanism of translation, radius of rotation and motion

parameter is set up, can memory, avoid the reset parameter when open and close PC, avoiding the error from artificial.

- Joy stick achieve manual scanning of three directions and target tracing, flexible control, it achieve manual control by yaw, pitch, tilt, clockwise rotation, convenient for remote prelocate and range scanning. the speed of joy stick have plus and minus total 8 achieve switch by tilt angle of rotation and stop time. convenient and flexible



MC600 can operate by SD card:



Model Sheet:

Model	MC600-4B	MC600-2B	MC6003PB	MC6003P-2B	MC600ASP+ASP-XXXX
Indication	4axes 2phase stepper motor	2axes 2phase stepper motor	4axes 3phase stepper motor	2axes 3phase stepper motor	Servo-motor cabinet+servo-motor drive cabinet
Motor control	2 phase stepper motor (24V,3.5Amax)		3 phase stepper motor (24V,5.8 A max)		Panasonic AC servo-motor (220V,200W max)
	Open or closed-loop control				
	300kHz pulse frequency			2mHzpulse frequency	
Motion control	128 sub-division max		51200 max,numbers of pulse		1048576max
	32 digital,150Mhz DSP controller				
	PID servo control				
	Terraced speed adjust				
	Point to point,synchronous or dy synchronous motion				
	Inching and increment				
Output trigger	3 axes linear interpolation , 2 axes circle interpolation				
	Open collector output				
Sensor	Zero switch,left and right limited switches				
Option	Joystick				
Software	ZolixMC600 software				
	MC600 control software				
Interface	RS-232,USB2.0				
I/O	16 digital programmable TTL I/O				
Memory	512KB flash non-volatile firmware				
Display pannel	LCD,240X128,105X56MM				
Power	115/220V,60/50Hz,400W (max)				
Size	440x395x145mm				
Weight	4.5Kg				

SC300 Controller



Specification

- Power voltage:220V/50HZ
- Numbers of axis:1-3 axis (each axis has separate function key ,directly control axes)
- Motor and driving:2 phase stepper motor
- Subdivision
SC300A:2,4,8,16,32,64
SC300B:2,4,8,16,32,64,128
- Pulse speed:400PPS-18KPPS
- RS232 standard interface
- Acceleration deceleration model :triangle or terranced
- 8 untis lead display
- Appreance size :365X132X360
- Weight:6Kg

SC300 Model Sheet

SC300-1A	1 axis 42 stepper motor controller (64 sub-division max)
SC300-2A	2 axes 42 stepper motor controller (64 sub-division max)
SC300-3A	3 axes 42 stepper motor controller (64 sub-division max)
SC300-1B	1 axis 57stepper motor controller (128 sub-division max)
SC300-2B	2 axes 57stepper motor controller (128 sub-division max)
SC300-3B	3 axes 57stepper motor controller (128 sub-division max)

SC3003P Model Sheet

SC3003P-1B	1 axis three phase stepper motor
SC3003P-2B	2 axes three phase stepper motor
SC3003P-3B	3 axes three phase stepper motor

HC-100 single axis stepper motor controller by hand



HC-100 is Simple and Robust function motion controller ,low price,outstanding performance,continuous adjust speed, In the single-step operation and can run continuously switch between the built-in high-performance stepper motor drive to support high number of segments (256 segments), support a variety of 2-phase stepper motor, the maximum current of 3.5A, detailed details , please contact us.

Model Sheet

Model	HC-100 (2 phase stepper motor)	HC3P-100 (3 phase stepper motor)
Frequency	5KHz max	
Power	AC220V change to DC24V power adaptor	
Motion mode	Continous mode, single step both can change	
Current	3.5A MAX	5.8A MAX
Division	128 max	51200 pulse /turn
Size (mm)	112×62×158	152×75×160

Motorized Linear Stages

Motorized Vertical Stages

Motorized Rotation Stages

Motorized Goniometers

Combinated Stages

Controllers

You can obtain future information on our website at
http://www.zolix.com.cn/en/index_0.html



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