

## Manual Precision stages

- RSM** rotation stages
- KSM** high precision translation stages
- PSM** precision translation stages
- TSM** translation stages
- TSMV** vertical stages(Lab jack)
- TSMT** tilt stages
- TSMG** goniometers
- TSMW** whole multi-axis stages
- APFP** precision fibre adjustment mounts
- ASM** combined stages



## RSM56-1/73-1 precision rotation stages

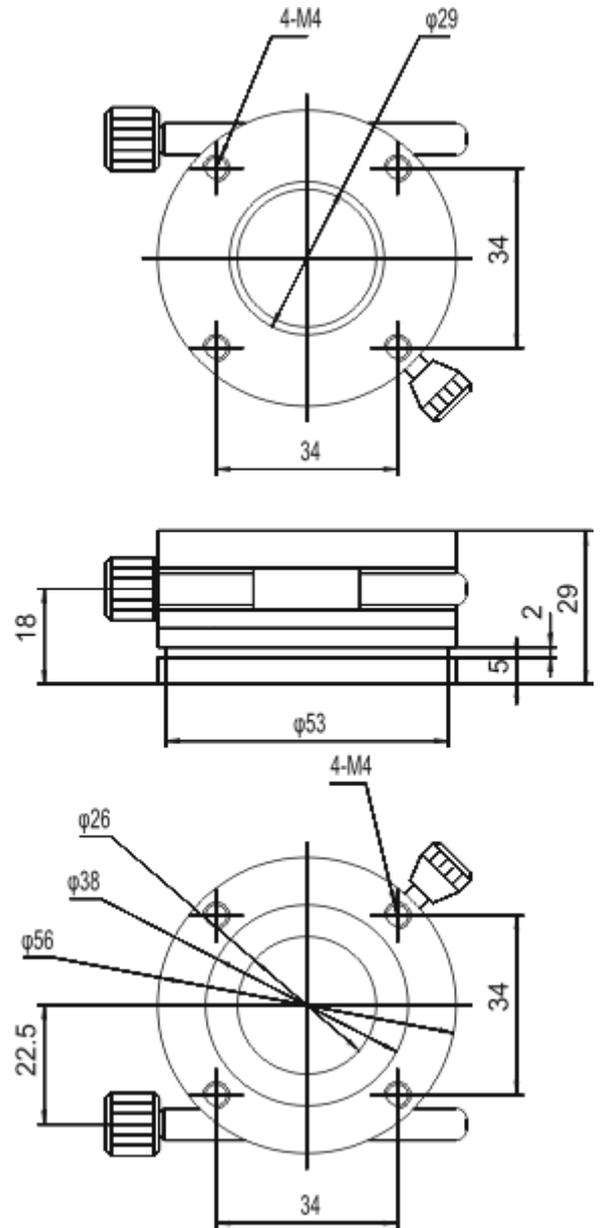
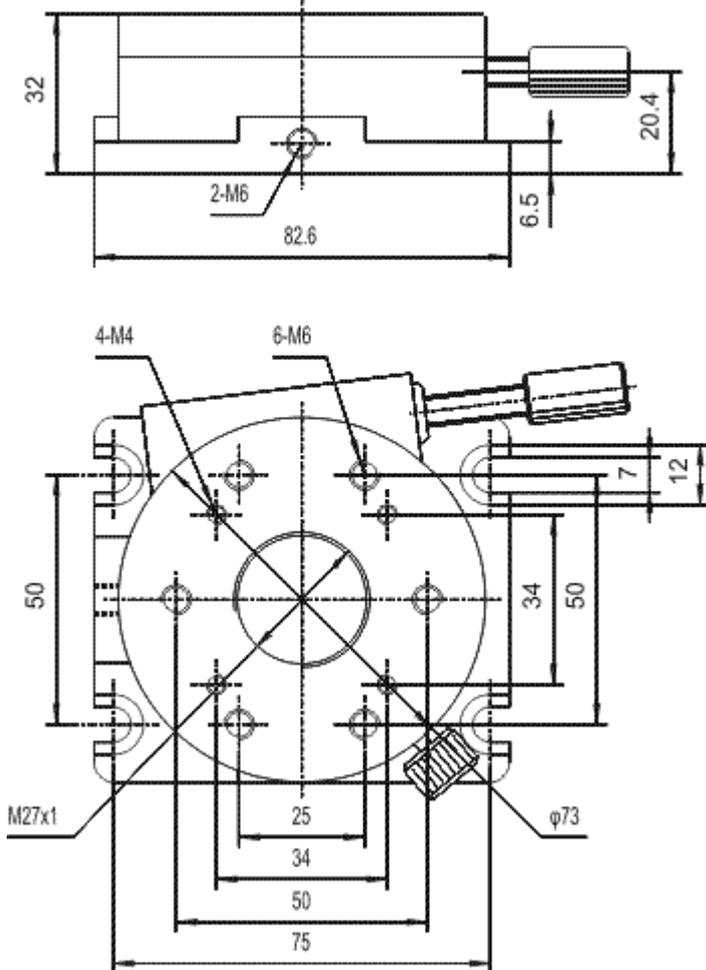
RSM56-1/73-1 has adopted coarse-fine design, circle 360 scale, cursor reading, RSM56-1 adopts precision bearing design, M6x0.25 ultra-fine teeth screw drive, high precision, high stability; the diameter of aperture is 26mm, clear light and attached accessories, connect or fix with other devices

### ■ Specification

Model	RSM56-1	RSM73-1
Table Dimension $\phi$ (mm)	56	73
Drive mechanism	Fine Adjust Screw	Fine Adjust Screw
Diameter	$\phi 26$	M27
Table Hole Pattern	M4	M6, M4
Travel: Coarse	360°	360°
Travel: Fine	$\pm 3^\circ$	5°
Resolution Readable	2°	1°
Resolution	0.2°	5'
Weight	0.15Kg	0.35Kg
Load Capacity	2Kg	5Kg
Side Hole Pattern	M4	M6



RSM73-1 drawing is below, the right is RSM56-1



## RSM82-1A precision rotation stages

RSM82-1A has high precision, high-load standard aperture, all suit for different indications, connect with stages conveniently and composited multi-dimensional stages

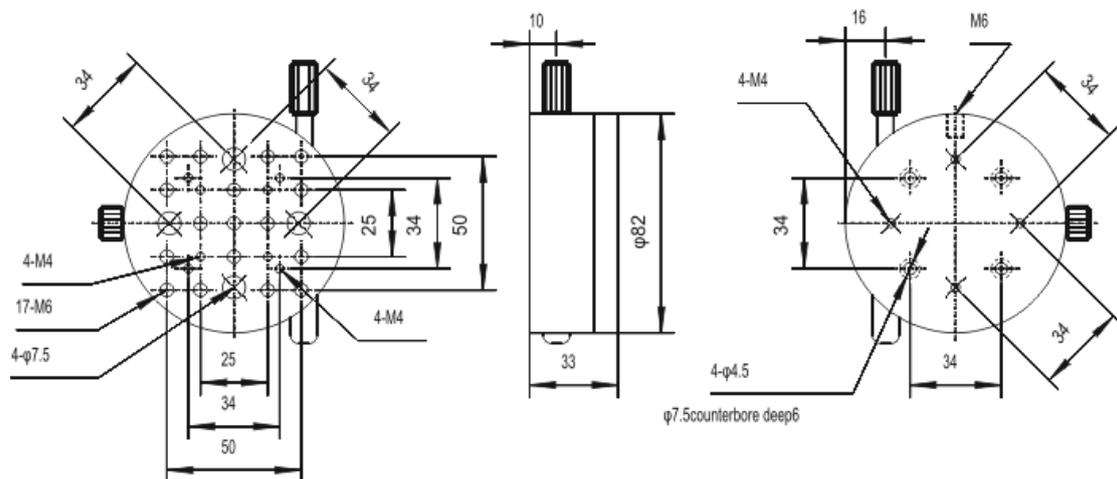


RSM82-1, RSM82-1A

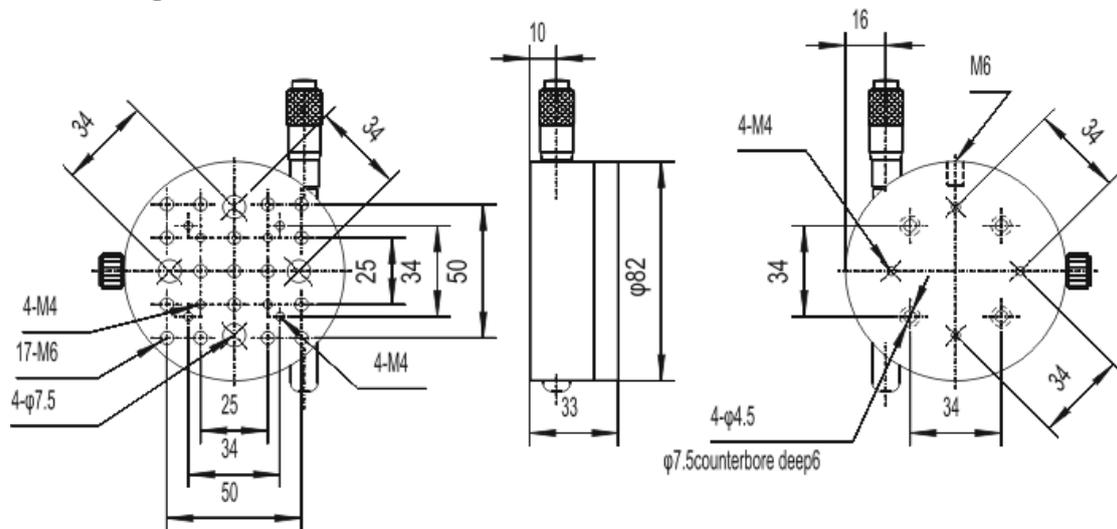
### ■ Specification

Model	RSM82-1	RSM82-1A
Table Dimension $\phi$ (mm)	82	82
Drive mechanism	Fine Adjust Screw	Micrometer
Diameter	x	x
Table Hole Patten	M6, M4	M6, M4
Travel: Coarse	360°	360°
Travel: Fine	$\pm 10^\circ$	$\pm 10^\circ$
Resolution Readable	1°	1°
Resolution	2'	0.002mm
Weight	0.5Kg	0.5Kg
Load Capacity	5Kg	5Kg
Side Hole Patten	M4	M4

### The drawing of RSM82-1



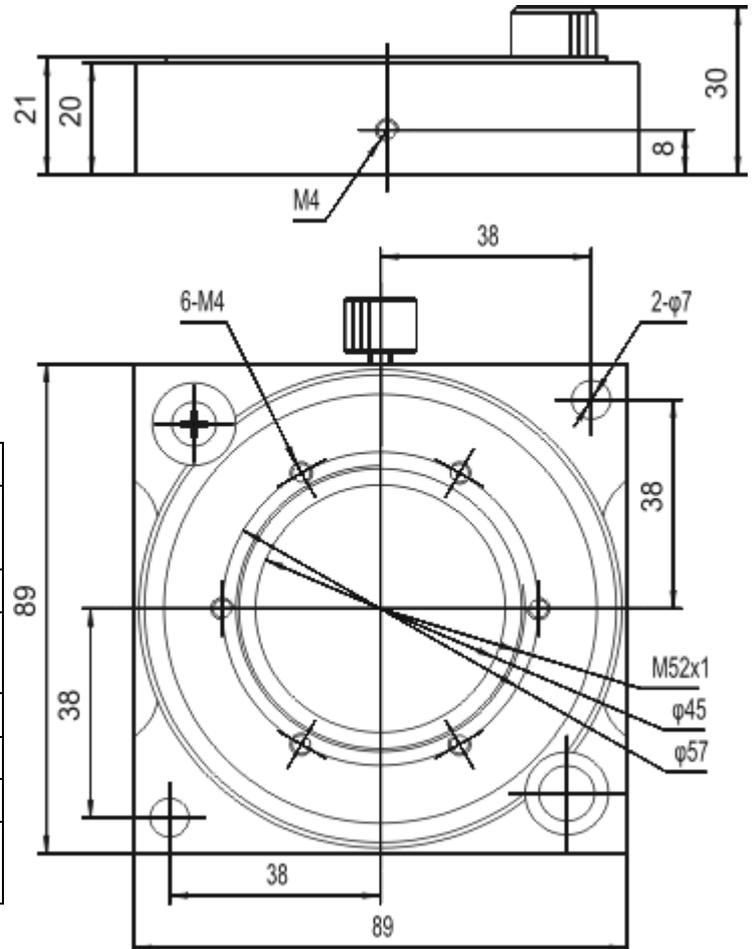
### The drawing of RSM82-1A



### RSM50-1K/2K rotation stages

RSM50-1K and RSM50-2K rotation stages adjust angle quickly, fine-tuning by flexible wheelhand. Thread pressure ring can fix optics of diameter with 2 inch or 50mm in the center of M52x1 or combine with other mirror mounts. The surface of rotation stages is 360 scale; Quantitative visual angle and design of precision bearing, it is stable and comfortable; Used in vertical and horizontal. Locked handwheel ensure safety and reliability. RSM50-2K equips with cursor, make the angle accurate to 0.033.

The right is drawing:



### ■ Specification

Model	RSM50-1K	RSM50-2K
Table Dimension φ (mm)	50	50
Drive mechanism	Thumbscrew	Thumbscrew
Diameter	M52	M52
Table Hole Patten	M4	
Travel: Coarse	360°	360°
Travel: Fine	x	x
Resolution Readable	2°	2°

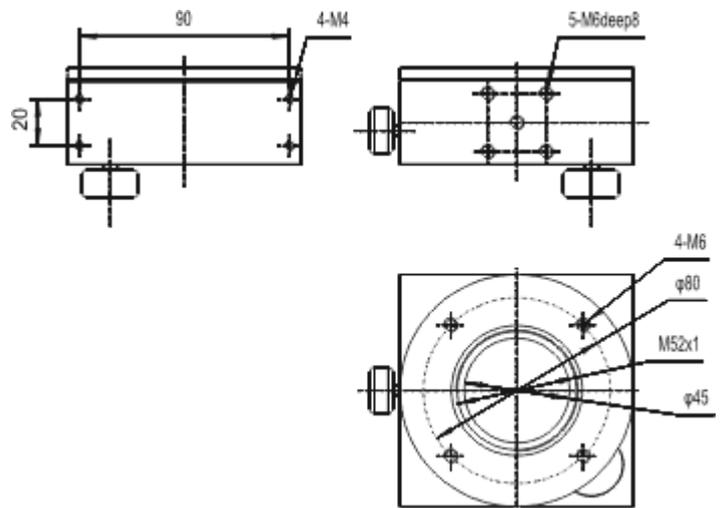
Resolution		0.033°
Weight	0.35Kg	0.35Kg
Load Capacity	2Kg	2Kg
Side Hole Patten	M4	M4

### RSM50-C rotation stages

It adjust angle quickly ,tilt gear drive,increase the accuracy and reliability .Thread pressure ring fix optics of diameter with 2 inch or 50mm in the center of M52x1,;The surface of rotation stages is 360 scale.quantitative visual angle.Design of precision bearing,Ensure stability and comfortability.Uesd in vertical and horizontal.locked handwheel ensure safety and reliability.



below is drawing RSM50-C



installation of electric stepper motor can be turned into motorized rotation stages

### ■ Specification

Model	RSM50-C
Table Dimension $\phi$ (mm)	50
Drive mechanism	Thumbscrew
Diameter	M52
Table Hole Patten	M6
Travel:Coarse	360°
Travel:Fine	x
Resolution Readable	1°
Resolution	0.001°
Weight	0.75Kg
Load Capacity	5Kg
Side Hole Patten	M6

### **RSM 100-W percision rotation stages**

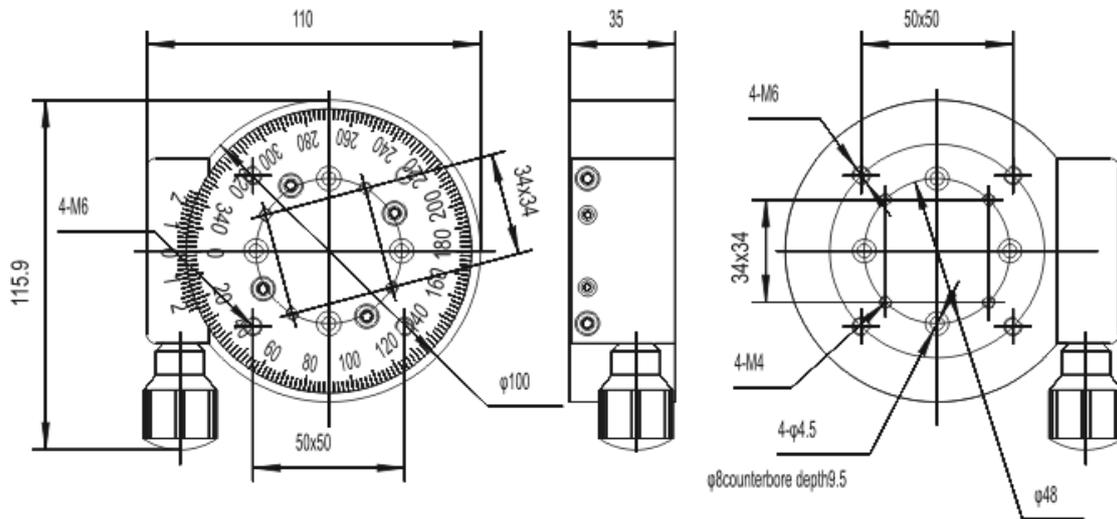
RSM100-W rotation precision manual adjust ,precision processing worm and worm wheel drive. Standard hole connect with our self-made products easily,external ring is scale, ensure angle quantitative



### **■ Specification**

Model	RSM100-1W
Table Dimension $\phi$ (mm)	100
Drive mechanism	Worm Nut
Center Hole Dimension $\phi$	x
Table Hole Patten	M6
Travel:Coarse	360°
Travel:Fine	
Resolution Readable	1°

Resolution	0.001°
Weight	0.85Kg
Load Capacity	15Kg



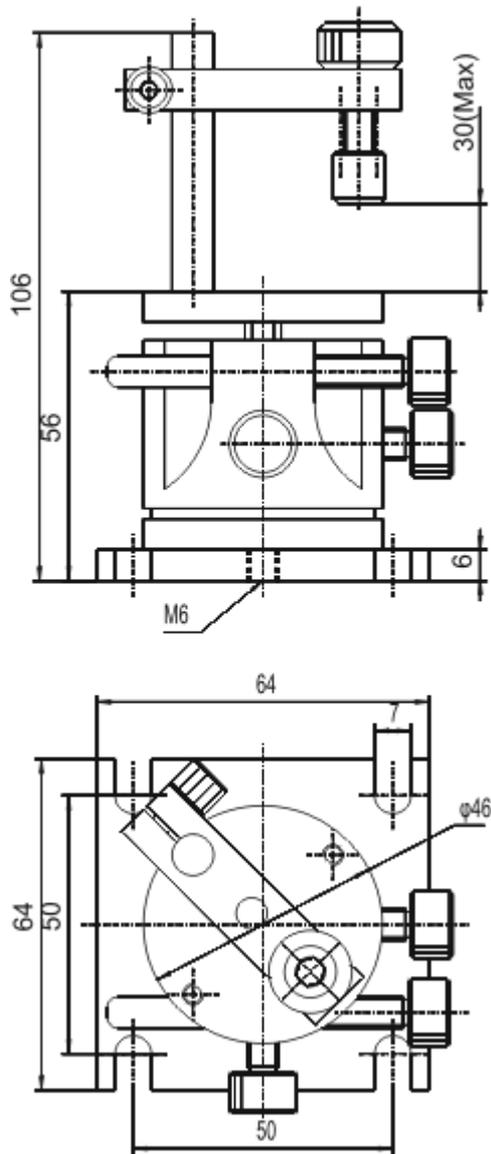
### RSMT-1 tilt rotation stages

The vertical axis as z axis ,providing the angle  $\theta_z$  along with z axis,tilt adjustment  $\theta_y$  and  $\theta_x$  along with y and x axis, Adjust screw is M6x0.25 as the fine teeth screw ,spring reset,achieve fine-tuning.The steel elastic chucking device of the top fix prisms ,It is convenient for load and unload



### ■ Specification

Model	RSM100-W
Adjustment range $\theta_z$	7.5°
Adjustment range $\theta_y$	7°
Adjustment range $\theta_x$	7°
Weight (kg)	0.85



### KSMT high precision stages

Has adopted high precision crossed-roller slide ,flatness move ,high-load ,long life ;Grinding base and tables ensure straightness,yaw and pitch ;adjsument of dispalcement adopts mico-tuning screw,micrometer or differential micrometer drive.You can choose different drivers according to different resolutions;Remove axial gap by spring reset,Application for high-precision displacement adjustment.

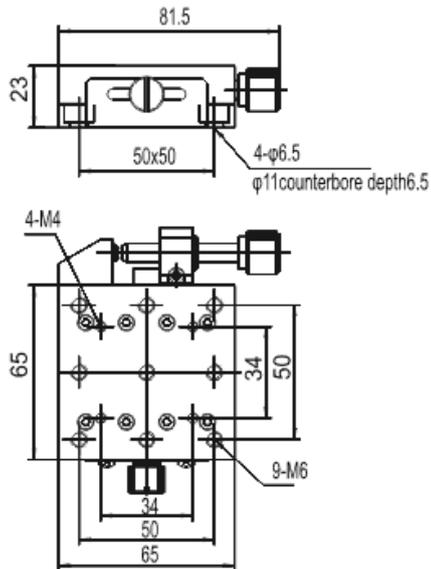


### ■Specifications

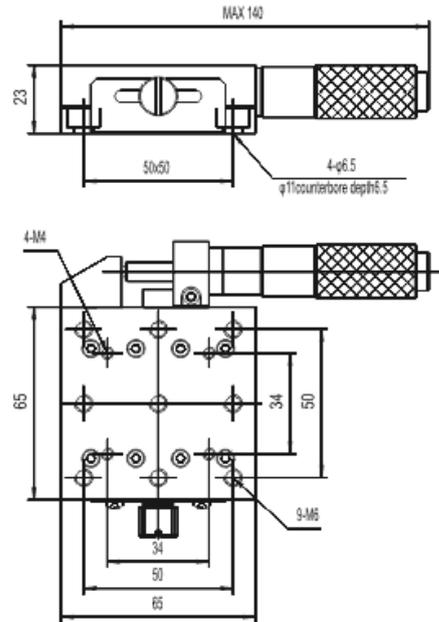
◆Travel Range: +/-12.5mm

- ◆ Table Size: 65x65mm
- ◆ Thickness: 23mm
- ◆ Flatness: <math><10\mu\text{m}</math>
- ◆ Pitch <math><30''</math>
- ◆ Yaw <math><20''</math>
- ◆ Weight: 5kg

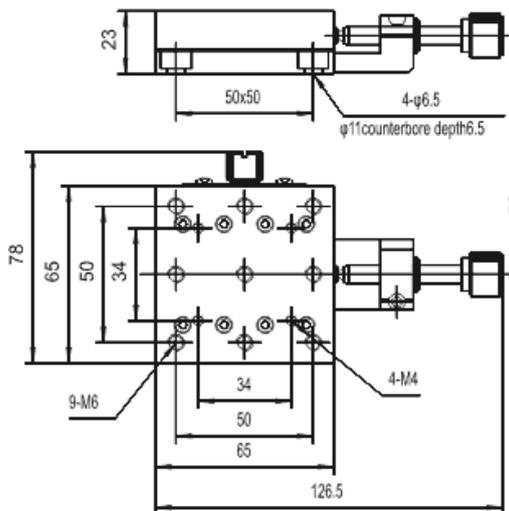
KSMT-325-131R



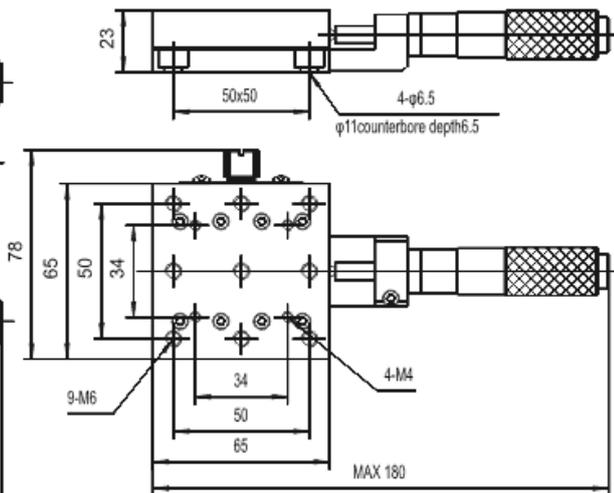
KSMT-325-132R



KSMT-325-131



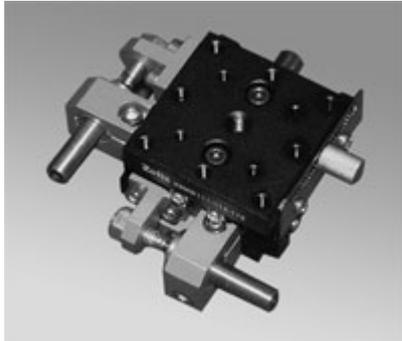
KSMT-325-132



**KSMTW series whole multi-axes stages**

KSMTW series is the top of the below dimension is the base of the above dimension ,composite a multi-axis system of compact constructure,convenience and ,high precision .

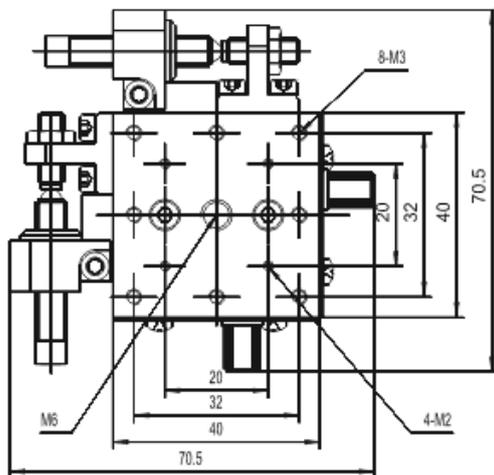
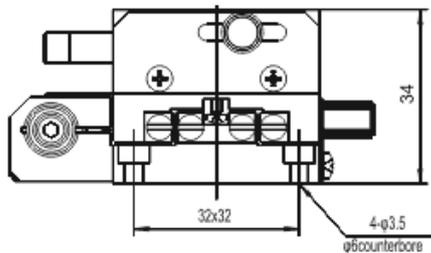
Adopt high precision crossed-roller slide ,flatness move ,high-load and long life ;Grinding base and tables ensure straightness,yaw and pitch , adjustment of displacement adopt mico-tuning screw,micrometer and differential micrometer.Choose different tdrivers according to different resolutions;Remove the axial gap by spring reset;drivers of xy axis is installed on the same horizontal,including type L or type R.



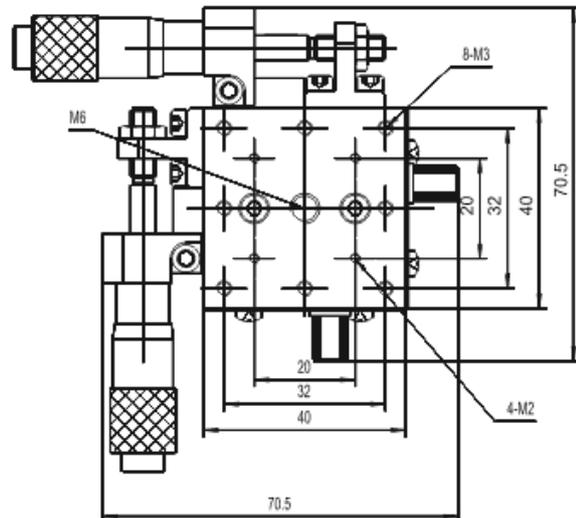
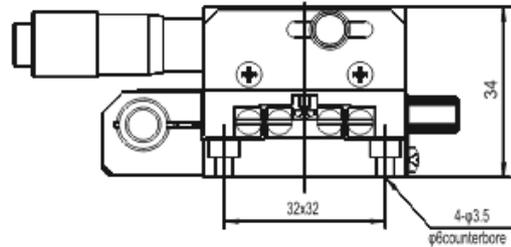
### ■Specifications

- ◆ Travel Range (X,Y) : +/-6.5mm
- ◆ Table Size: 40x40mm
- ◆ Thickness: 34mm
- ◆ Flatness: <math>< 30\mu\text{m}</math>

KSMTW-213-231



KSMTW-213-232



### PSMX series precision stage

PSM series adopt precision linear ball and grinding steel slide ,separately micrometer and screw lead as the M7x0.25 screw drive

The table adopted precision processing,light weight.

High load,spring reset ,remove backlash.drivers including L tiple and R tiple,vertical usages,Application for different fields.

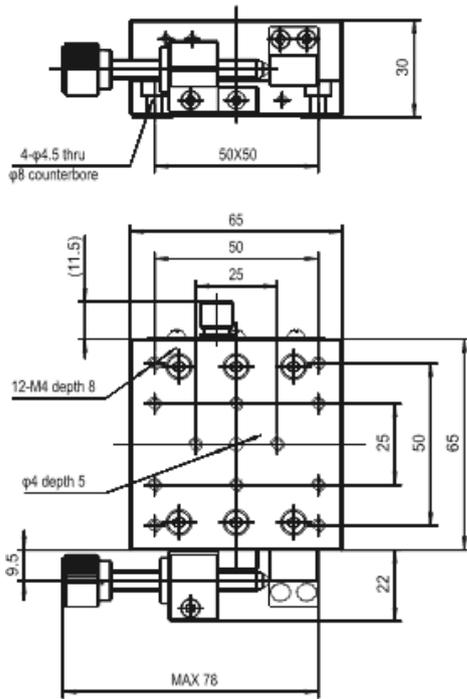


### ■ Specifications

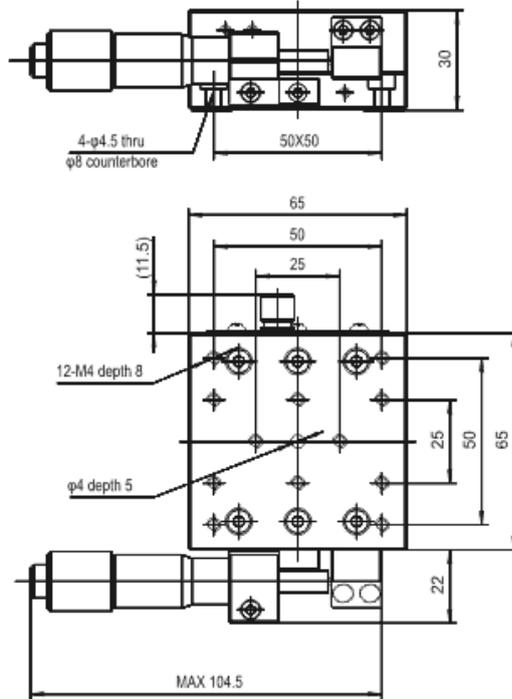
Model	PSMX25-1/L1	PSMX25-C1/C2	PSMX25-1A/L1A	PSMX25-C1A/C2A
Travel Range (mm)	12.5	12.5	12.5	12.5
Drive mechanism	Thread Deputy		Micrometer head	
Minimum reading (mm)	—	—	0.01	0.01
Sensitivity (mm)	0.001	0.001	0.001	0.001
Table size (mm)	65×65	65×65	65×65	65×65
Load (kg)	7.0	2.5	7.0	2.5

■ Besides,has travel range is 13mm.

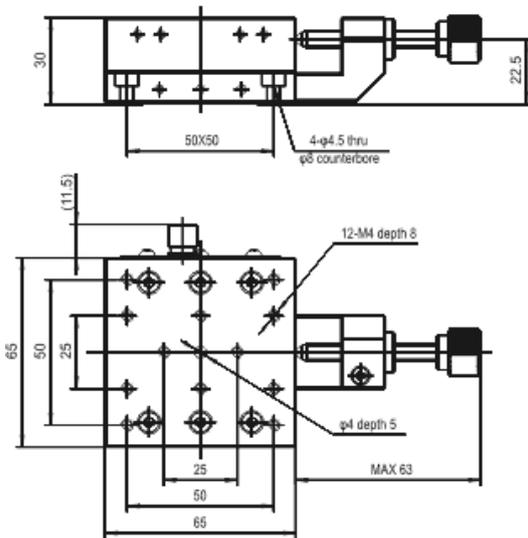
PSMX25-1



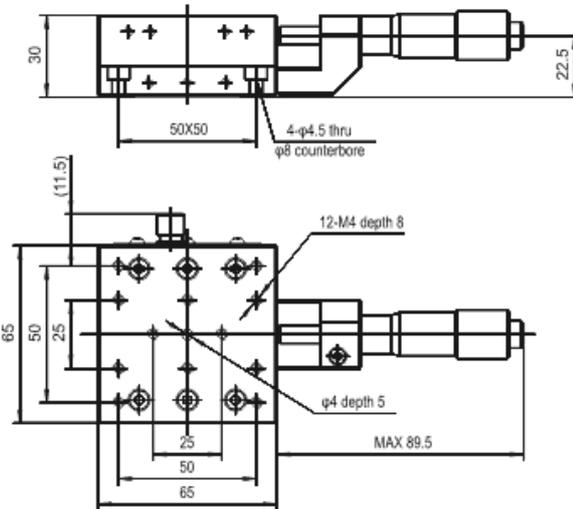
PSMX25-1A



PSMX25-C1



PSMX25-C1A



**TSM13 precision motorized translation stages**



## TSM13-1A TSM13-1



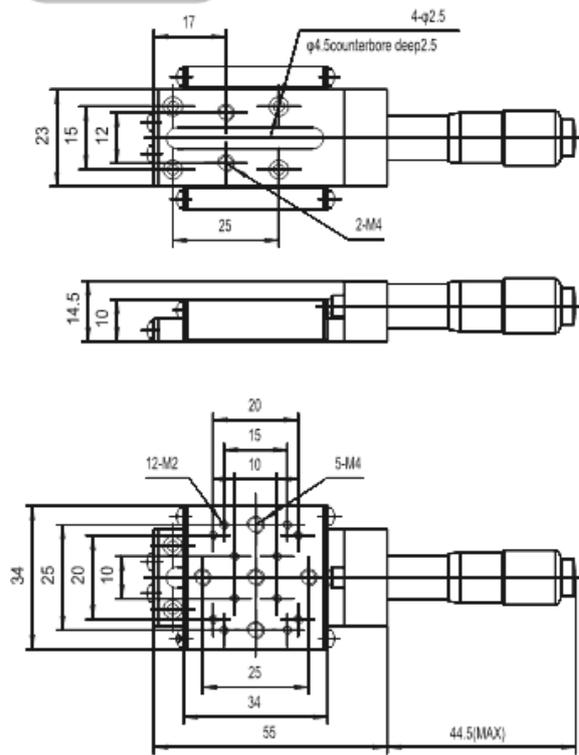
## TSM13-2A,TSM13-2

### ■Specifications

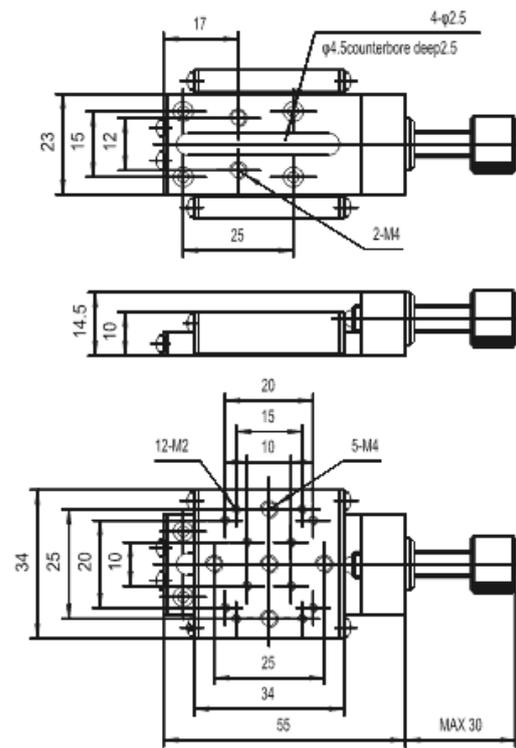
Model	TSM13-1	TSM13-1A	TSM13-2	TSM13-2 A
Travel Range(mm)	13			
Travel Accuracy(mm)	0.005			
Resolution(mm)	0.002			
Table size (mm)	34x34			
Bearing Type	Ball Bearing			
Driver	M6x0.25adjustment screw	Micrometer	M6x0.25adjustment screw	Micrometer
Micrometer Position	Center		Side	
Readable Resolution(mm)		0.01		0.01
Max. Load Capacity(kg)	2			
Weight(kg)	0.05	0.07	0.05	0.07

★ Besides,has travel range is 25mm,please contact us

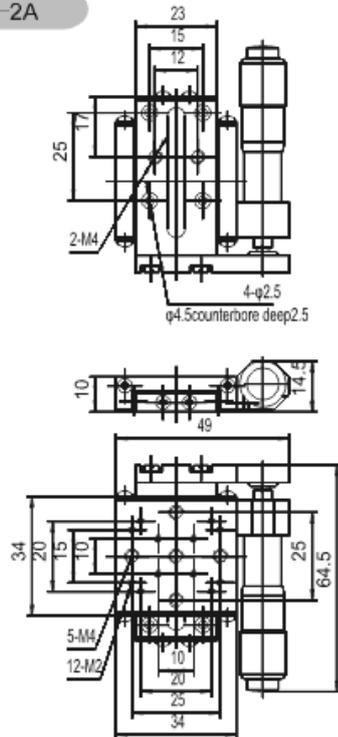
TSM13-1A



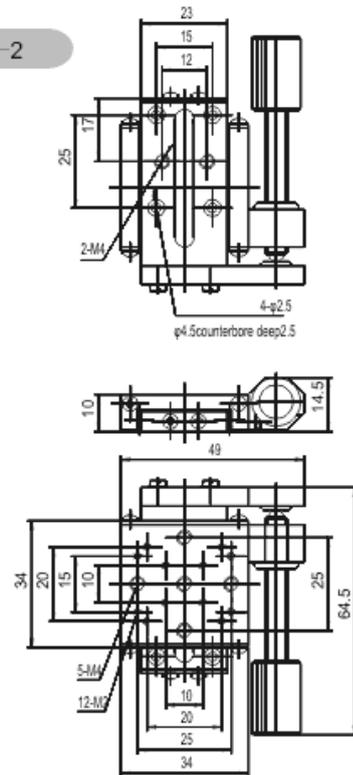
TSM13-1



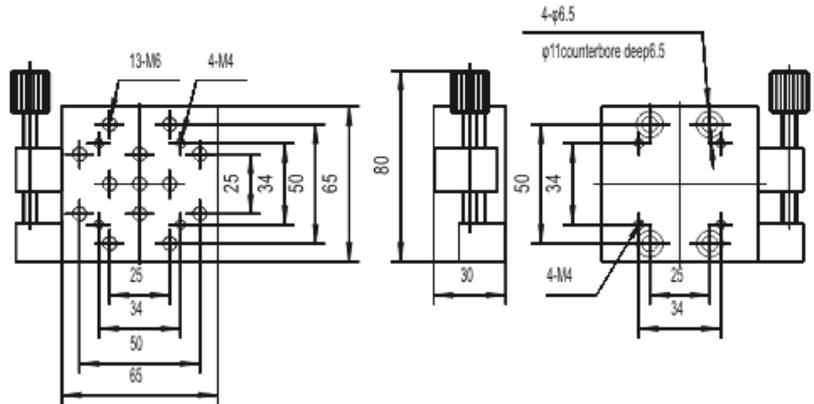
TSM13-2A



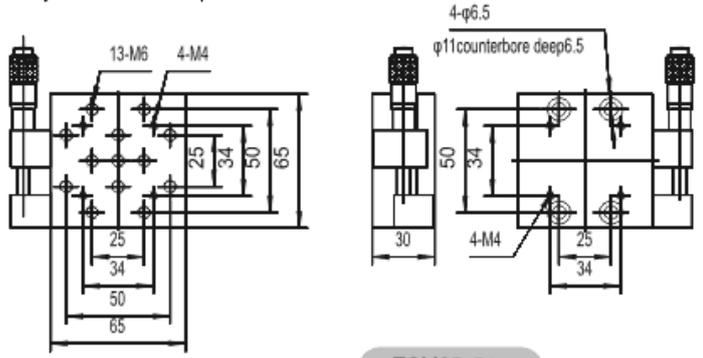
TSM13-2



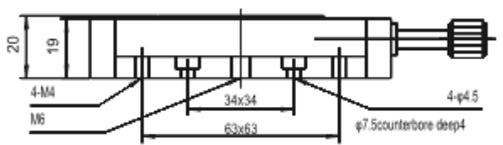
TSM25-1



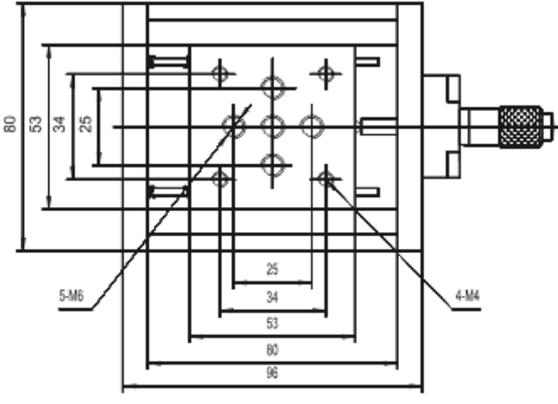
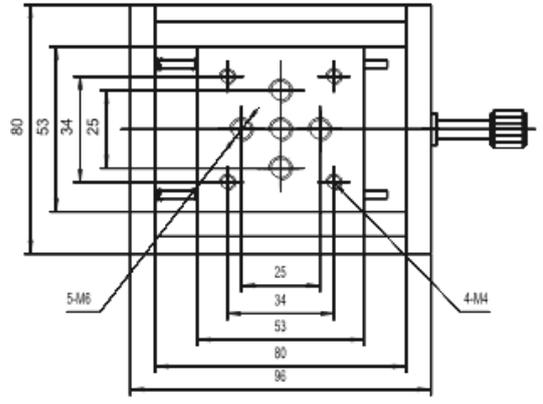
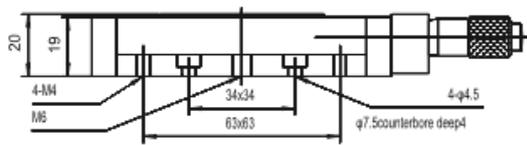
TSM25-1A



TSM25-2



TSM25-2A



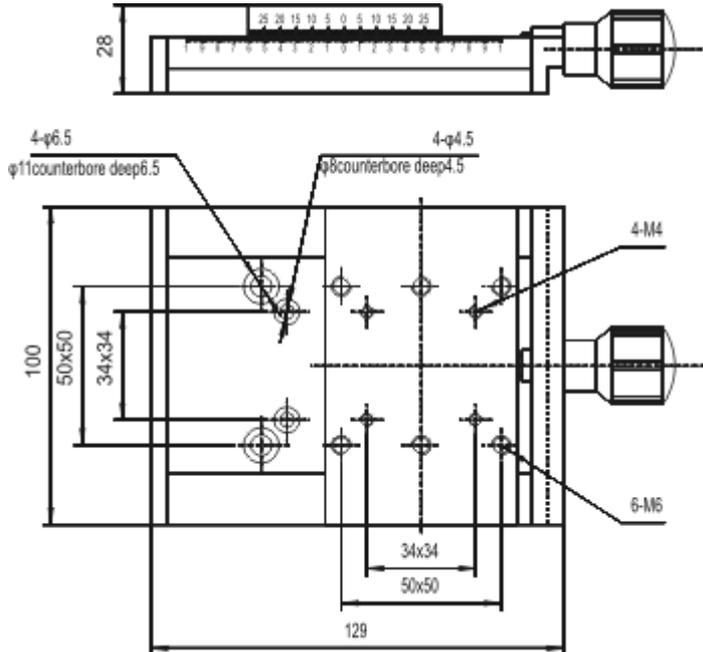
**TSM50D-1S**

TAM50D-1S has scale in side,make the translation quantitative adjustment



■ Specifications

Travel Range(mm)	50
Readable Resolution (mm)	0.01
Table size (mm)	100x60
Bearing Type	Dovetail
Driver	Leadscrew
Micrometer Position	Center
Cursor readings(mm)	0.02
Max. Load Capacity (kg)	10
Weight (kg)	0.65



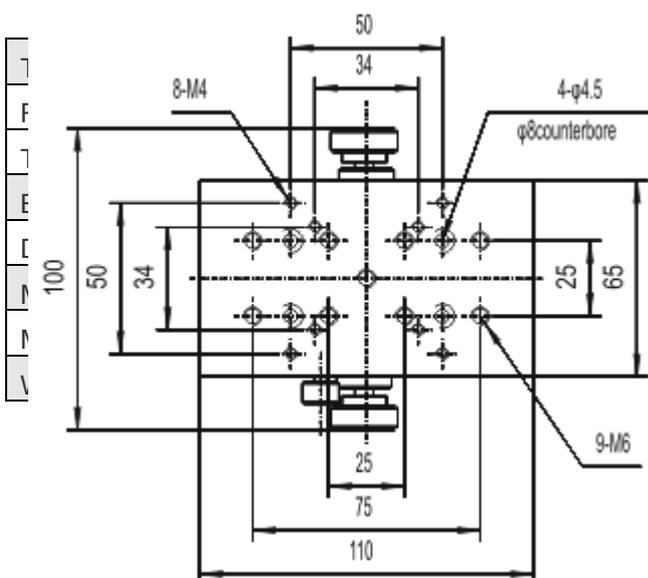
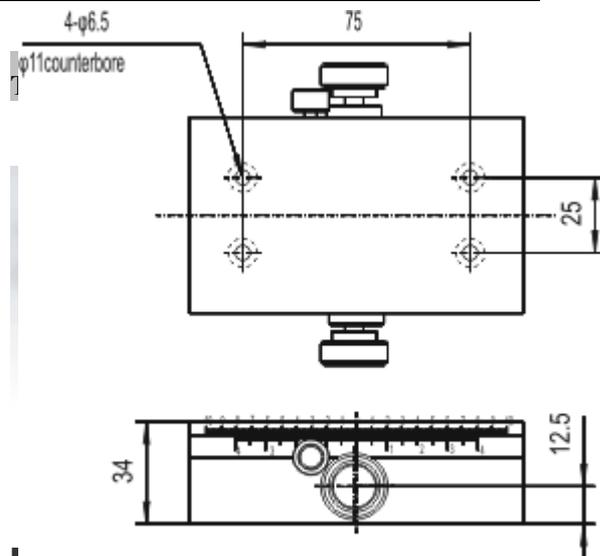
**TSM75D-1C**

- ★Dovetail vice as slide, precisional tilt gear wheel, gear rotation, ensure stability of motion, large driver
- ★High load capacity
- ★Handwheel at two sides are convenient for adjustment, cursor make the translation quantitative, ensure high accuracy of translation

★Different size of aperture is suitable for different installed indications.composite multi-dimensional translation stages



Travel Range(mm)	75
Readable Resolution(mm)	0.01
Table size(mm)	65x110
Bearing Type	Dovetail
Driver	Helical Gear, Rack
Micrometer Position	Center
Cursor readings(mm)	0.02
Max. Load Capacity(kg)	20
Weight(kg)	0.76



This series products has so many rtravel range,please contact us about the details.

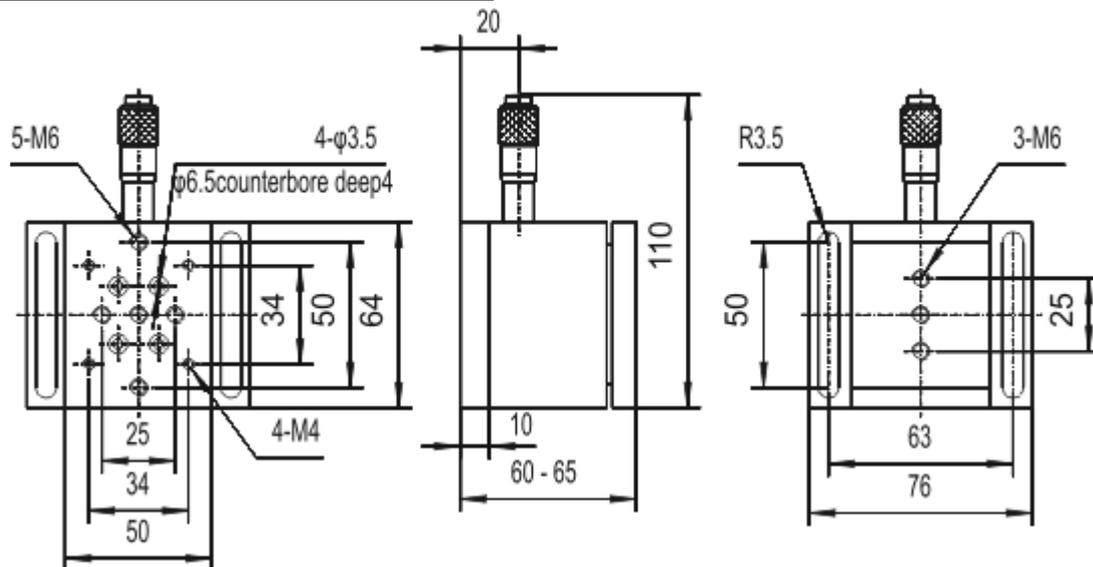
**TAMV5-1A precision vertailcal stages**

Various ratio of wedge technology combine with linear bearing,ultra-precision,high load capacity micrometer straight driver, operating conveniently



■ Specifications

Travel Range(mm)	5
Travel Accuracy (mm)	0.003
Driver	0.5mm Micrometer
Readable Resolution	0.005
Resolution(mm)	0.001
Table size (mm)	64x50
Max. Load Capacity (kg)	10
Weight (kg)	0.6

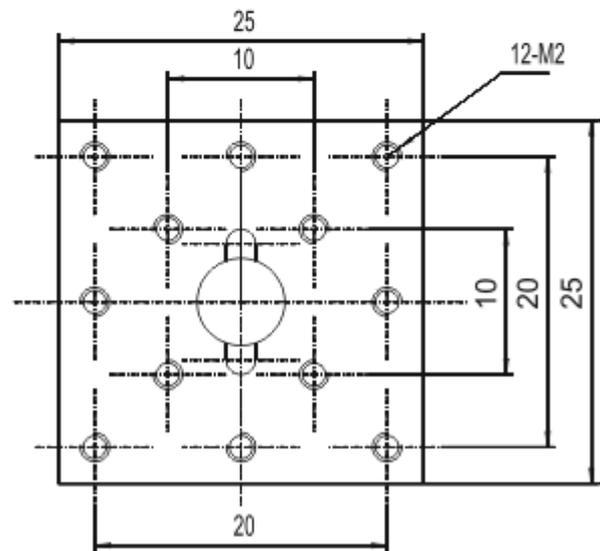
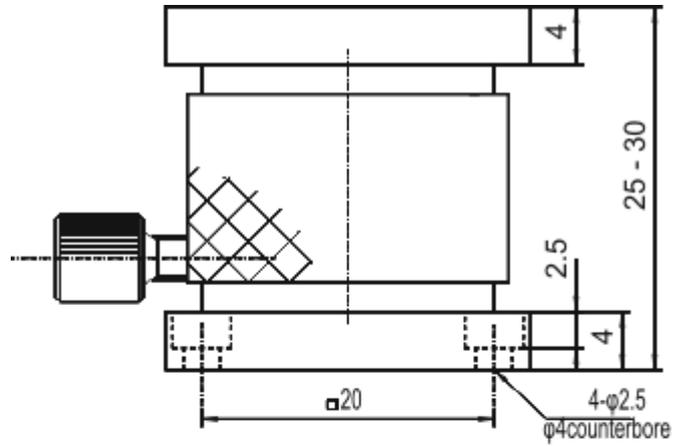
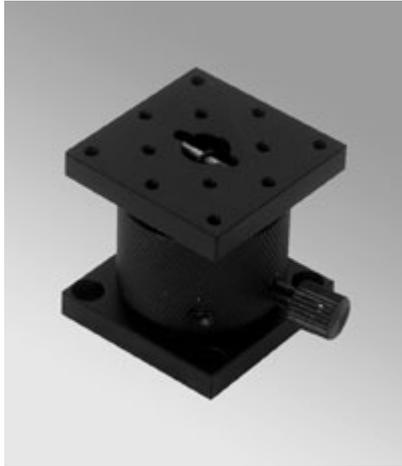


### TSMV5-2S precision vertical stages

Elaborate design, compact construction, ultra-precision screw vice driver, spring tight, remove backlash

Right displacement, connect two-dimensional tilt adjustment mounts

TSMT5-3, TSM13-1(2) conveniently

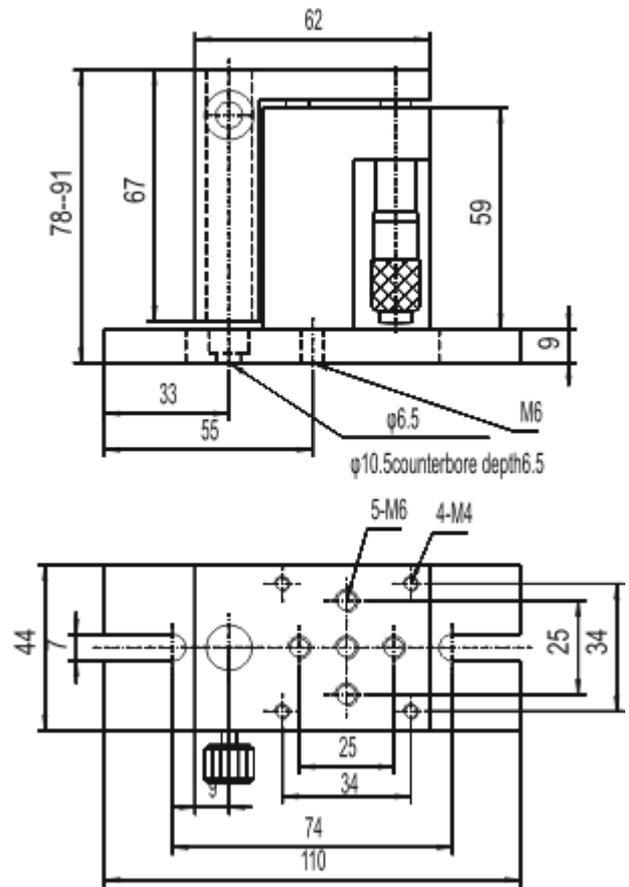


#### ■ Specifications

Travel Range(mm)	5
Driver	Leadscrew
Table size (mm)	25x25
Weight(kg)	0.05

### TSMV13-1A precision vertical stages

High-quality linear ball bearing as the slide, over the guide, ensure the motion stable comfort, high-precision, micrometer driver, visual quantitative design of the aperture table, fix PHSP series directly, strong application

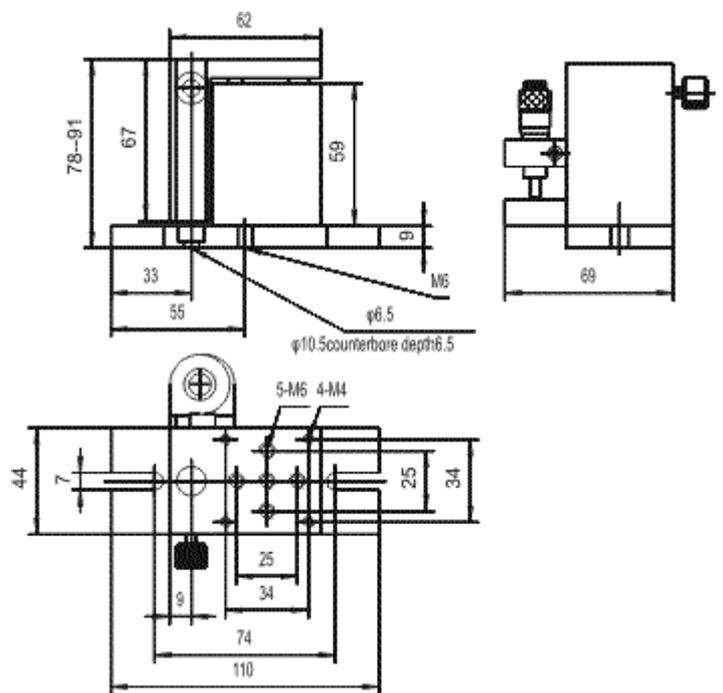


■ Specifications

Travel Range(mm)	13
dable Resolution(mm)	0.005
Cursor readings(mm)	0.01
Resolution (mm)	0.002
Table size (mm)	44x62
Max. Load Capacity(kg)	2
Weight(kg)	0.6

**TAMV13-2A precision vertical stages**

TSMV13-2A precision vertical stage and TSMV13-1A are the same type ,the difference is the external of micrometer drivers,make the vertical driver open and convenient, provides convenience for large space outer.two styles supply more excellent choices



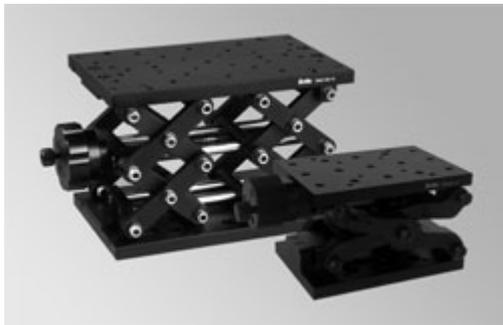
■ Specifications

Travel Range(mm)	13
dable Resolution(mm)	0.005
Cursor readings(mm)	0.01

Resolution (mm)	0.002
Table size (mm)	44x62
Max. Load Capacity(kg)	2
Weight(kg)	0.6

### **TSMV60/120-1S high load lab jack**

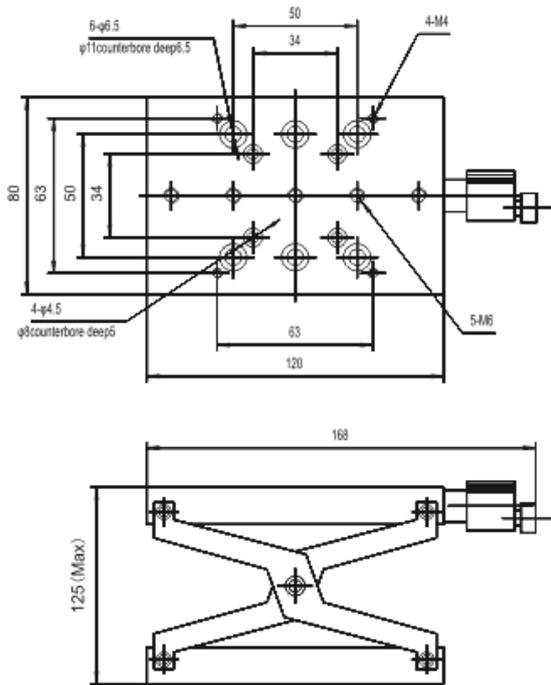
Application for large motion,unquantitative adjustment in lab.TSMV-1S adopt scissors vertical support,grinding screw driver,two slides and 5 axes,TSMV adopt 6 guides scissors vertical frame,grinding two rotation screw drivers,ensure the stability of motion,comfort,high precision,high load capacity,design of many apertures as the surface, equipped with locked wheelhand



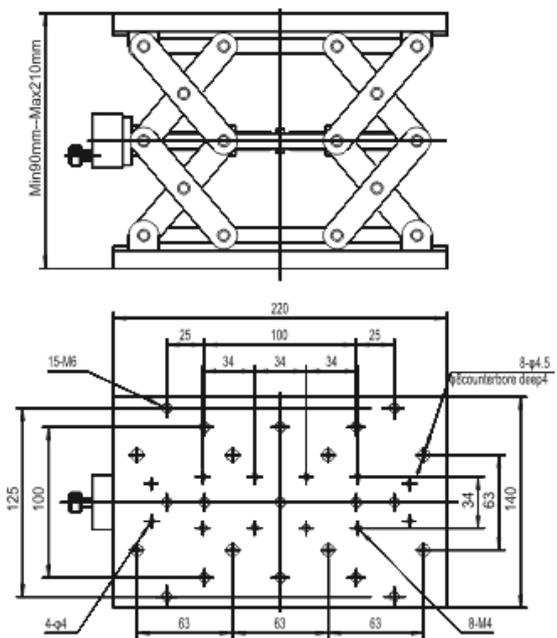
### ■ Specifications

	TSMV60-1S	TSMV120-1S
Travel Range(mm)	60	120
Driver	Leadscrew	
Resolution(mm)	0.01	0.01
Table size (mm)	80x120	140x220
Max. Load Capacity(kg)	20	25
Weight(kg)	1.15	1.85

TSMV60-1S



TSMV120-1S



**TSMT series tilt/TSMG goniometer**

TILT platforms

TSMT series tilt platforms adopt high quality butterfly spring reset,excellent stability.quantitative adjustment of micrometer,high precision,many apertures are convenient for applications

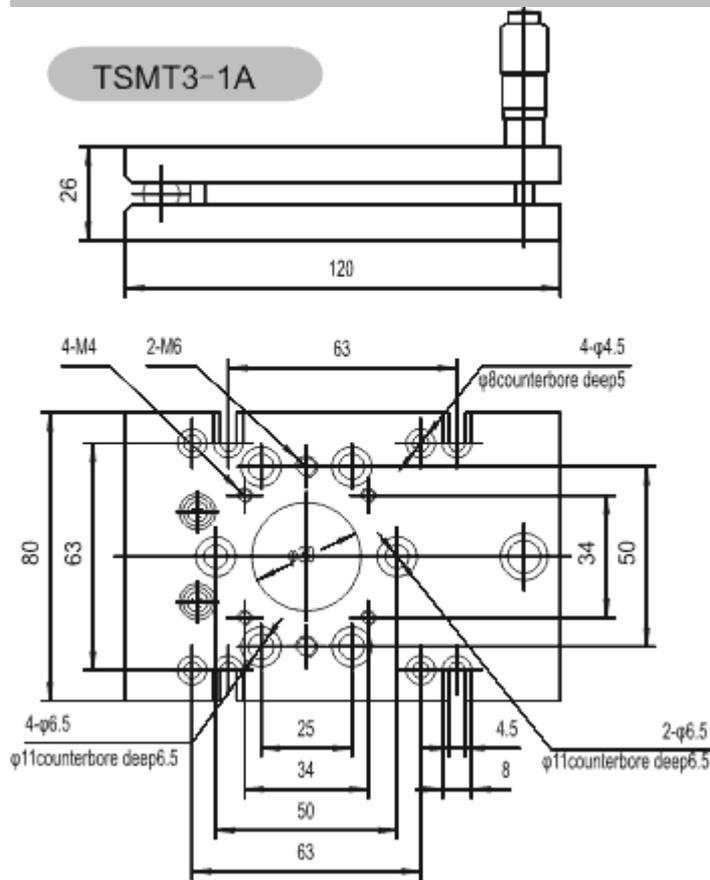
**TSMT3-1A**

One axis tilt adjustment center 30mm aperture clean light



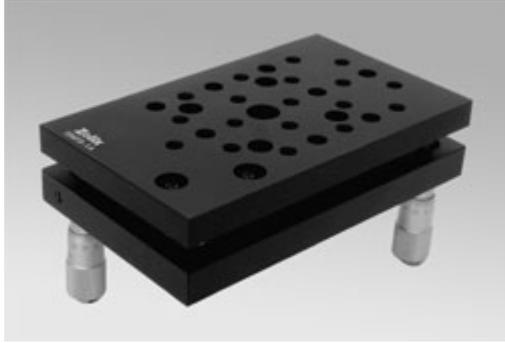
■ Specifications

Axes	One Axes
Platforms	Platforms
Weight(kg)	0.5

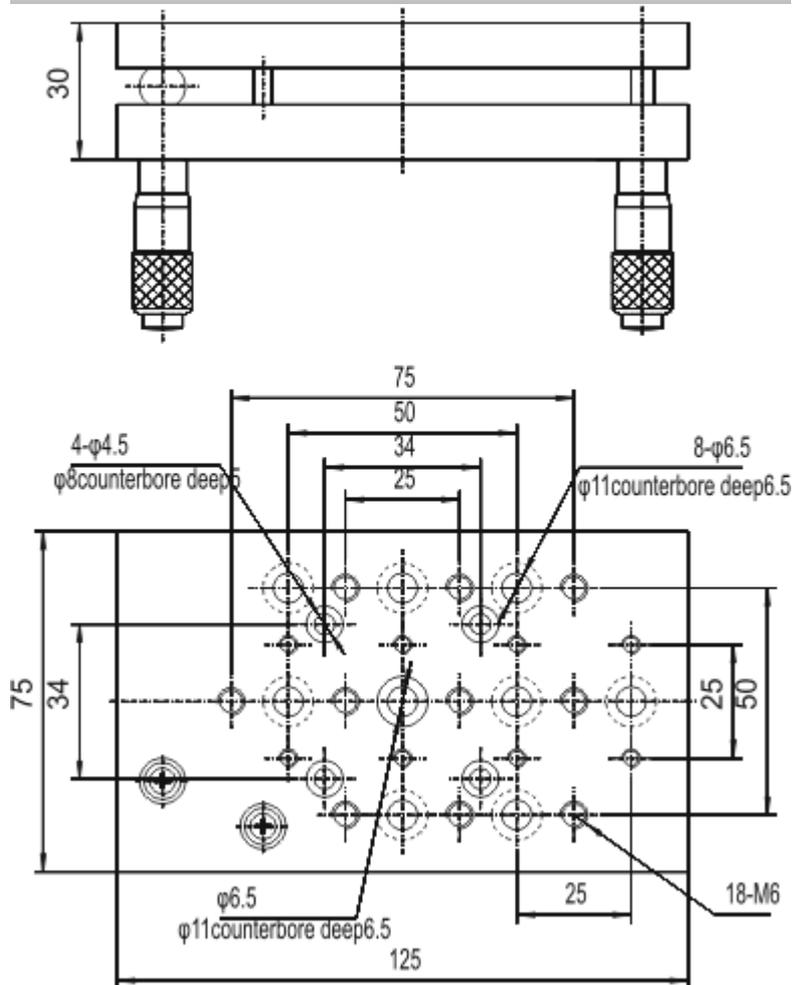


**TSMT5-1A two axes tilt platforms**

Adjustment of two axes tilting ,the construction of point,linear,surface is depend on precision



Adjustment range	$\pm 5^\circ$
Adjustment aixs	Two Axes Platforms
Weight (kg)	0.5



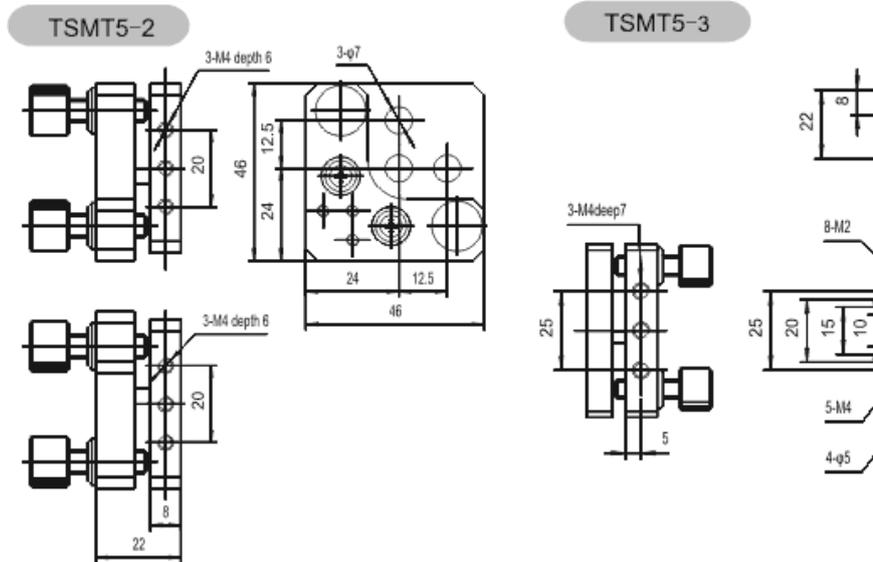
**TSMT5-2 TSMT5-3 two dimensional tilt platform**

Two dimensional adjustment, adjustment screw adopt M6x0.25 ultra fineteeth, achieve precision adjustment, high quality butterfly spring reset, good stability , high anti-vibration, durable to friction



■Specifications

Travel Degree	$\pm 3^\circ$
Axes Platforms	Two Axes Platforms
Weight(kg)	0.1

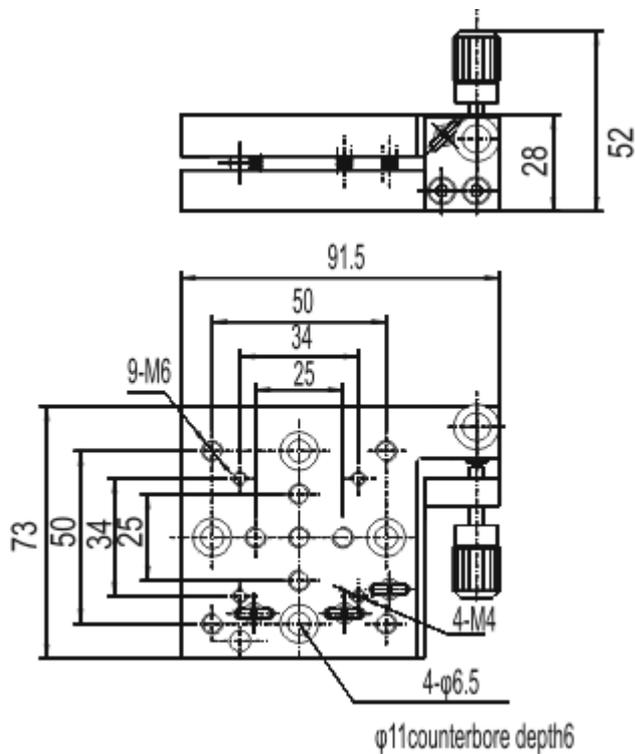


**TSMT-4 pitching rotation stages**



Adjustment range	$\pm 4^\circ$
Axes Platforms	Two Axes Platforms

Rotation angle	$\pm 2.5^\circ$
Weight(kg)	0.3



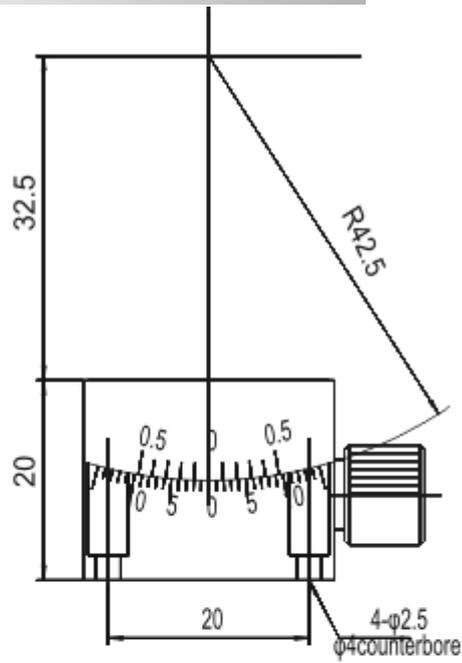
### TSMG30-W/TSMG15-W precision goniometers

This series make the optics element rotate, tilt adjustment. Two pairs of design, compact constructure and overlap, single using elaborate design of two rotation radius, two dimensional crossed- rotate along one point, worm wheel as the driver, precise and reliable, locked wheelhand, stable position.

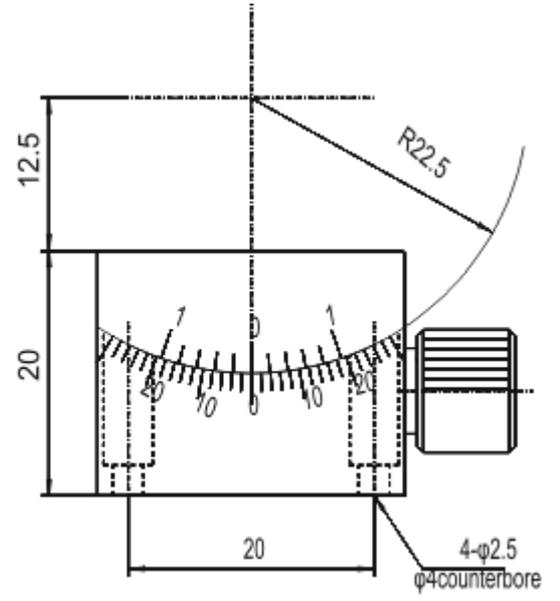
The same height is 20mm, TSMG30-W, the height of axis from the table is 12.5mm, TSMG15-W the height is 32.5mm

### Specifications

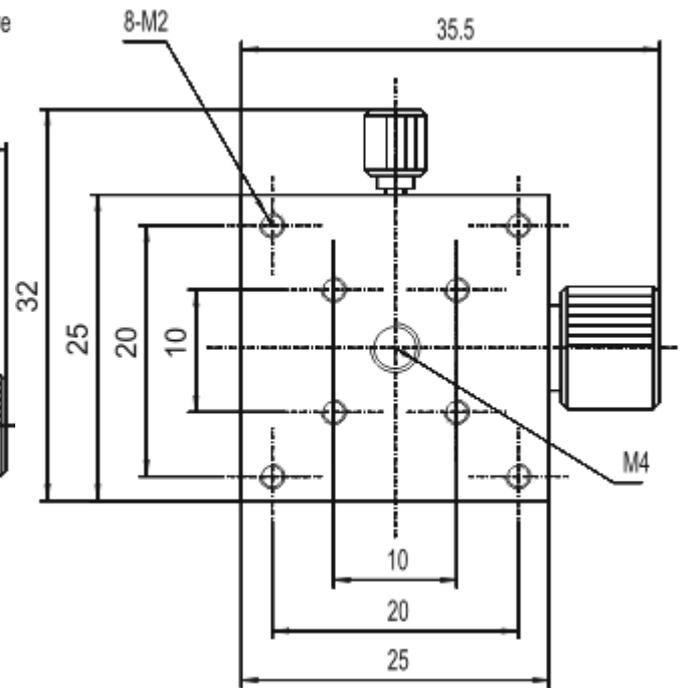
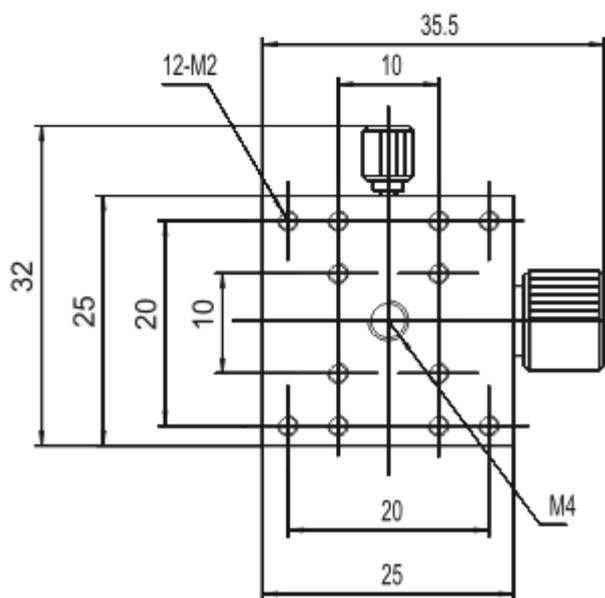
	Table Dimension	Rotation Angle	Rotation Center High	Hole Petten	Max. load Capacity (Kg)
TSMG15-W	25x25	+/-15°	32.5	M2,M4	2
TSMG30-W	25x25	+/-30°	12.5	M2,M4	2



TSMG15-W



TSMG30-W



## TSMG10-1W/TSMG10-2W precision goniometers

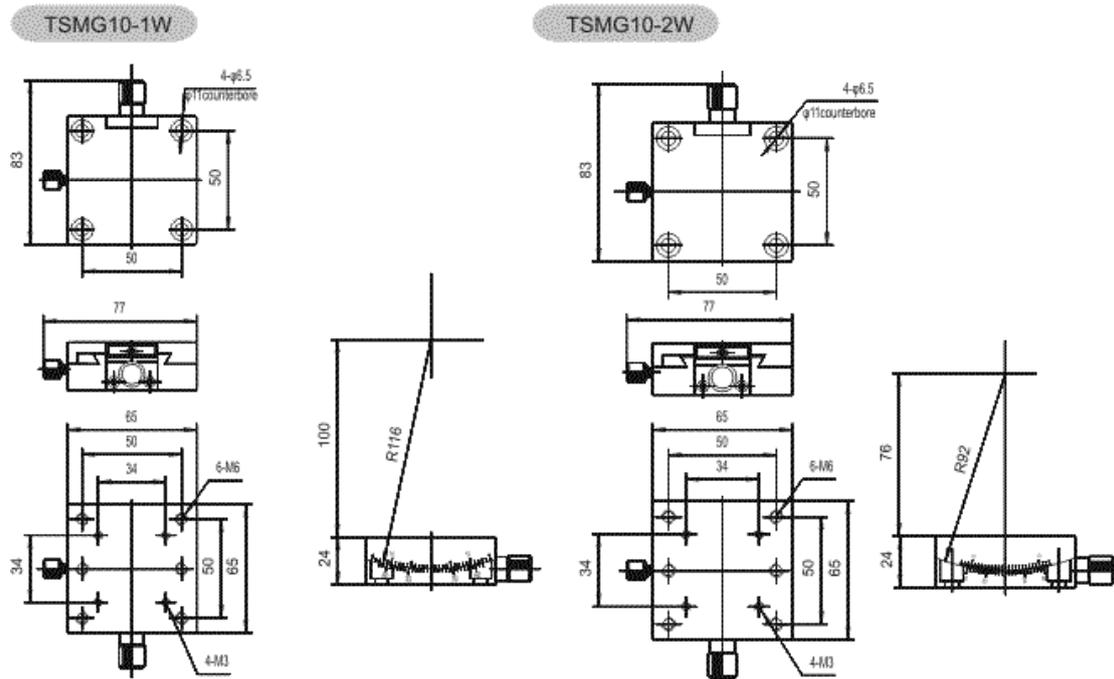
Precision goniometers TSMG10-1W/TSMG10-2W make the optics element rotate, tilt adjust, design in two pairs, compact and overlap, applicable single, elaborate design of two rotation radius. two dimensional crossed-rotate after overlapping, wormwheel vice as the driver, precise and reliable, handwheel locked position and resistant

The same height is 24mm, rotation center high of TSMG10-1W is 100mm, TSMG10-2W is 76mm. Precision goniometers of TSMG10-1W AND TSMG10-2W precise and reliable by precision worm wheel as driver, handwheel locked, stable position. lead screw has high universal



### Specifications

	Table Dimension	Rotation Angle	Rotation Center High	Hole Petten	Max. load Capacity (Kg)
TSMG10-1W	65x65	+/-10°	100	M3,M6	2
TSMG10-2W	65x65	+/-10°	76	M3,M6	2



### **TSMW series multi-axes translation stages**

TSMW series definition is the table of below dimensional stages is the base of the above dimensional stages,make up a multi-dimensional adjust system of compact, easy to use,high precision

### **TSMW13-XY-1A(L)**

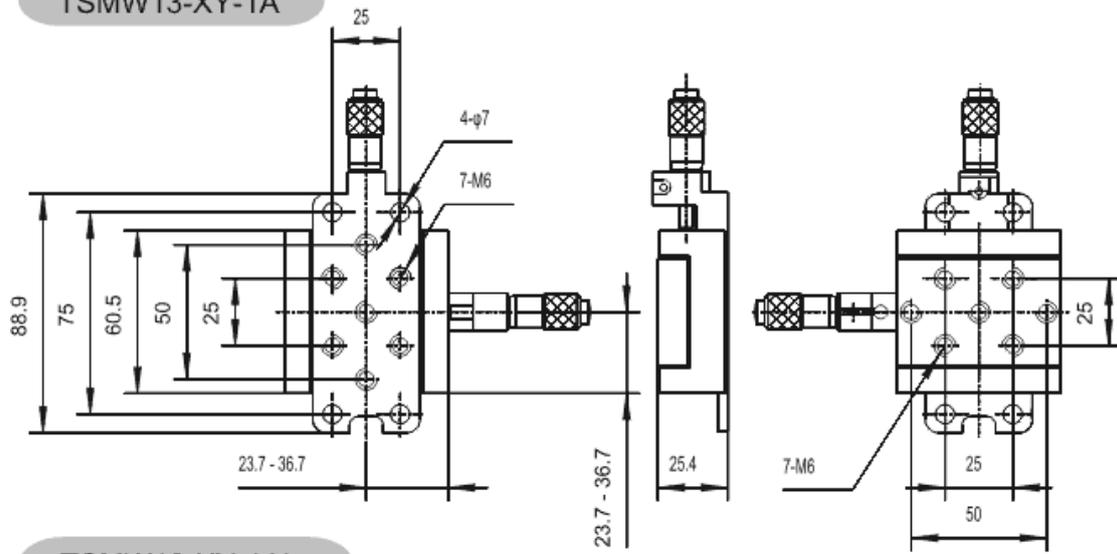
Precision linear ball along grinding steel bar slide,micrometer as the driver,comfort,high precision,spring reset ,remove backlash.driver micrometer of xy axis install on the same surface,including l type and r type.easy to operate.Z axis increase max load capacity by micrometer,(enhance the relative spring type),larger load capacity .combining with APFP series fiber adjust mounts,available for adjusting fiber and other related production



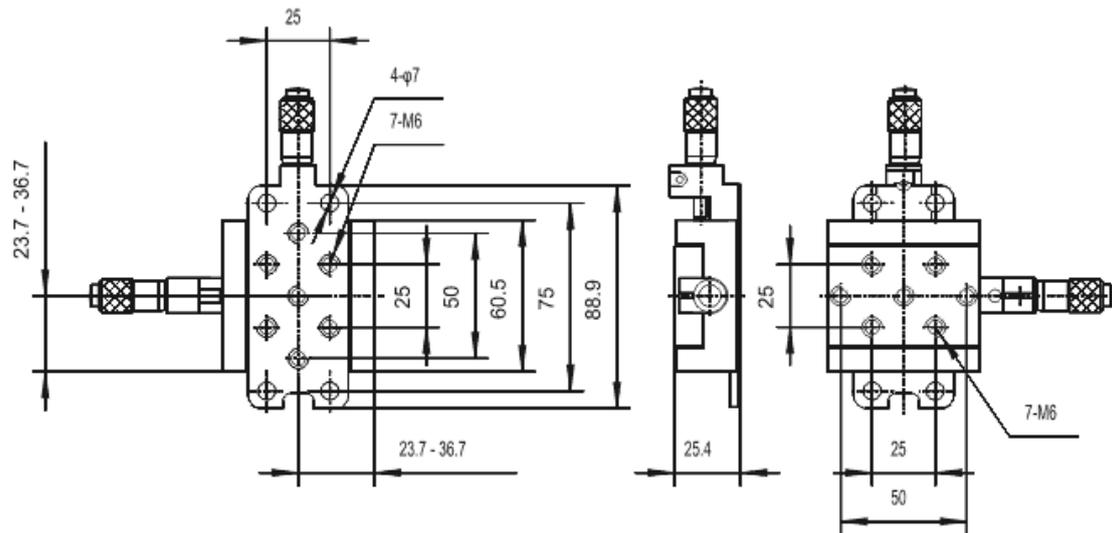
#### **■ Specifications**

Axes adjustment	XY Axes
Travel Range (mm)	13
Swing error	<30"
Driver	Micrometer
Graduation(mm)	0.01
Sensitivity(mm)	0.001
Max. load Capacity (Kg)	7
Weight (kg)	0.4

### TSMW13-XY-1A



### TSMW13-XY-1AL



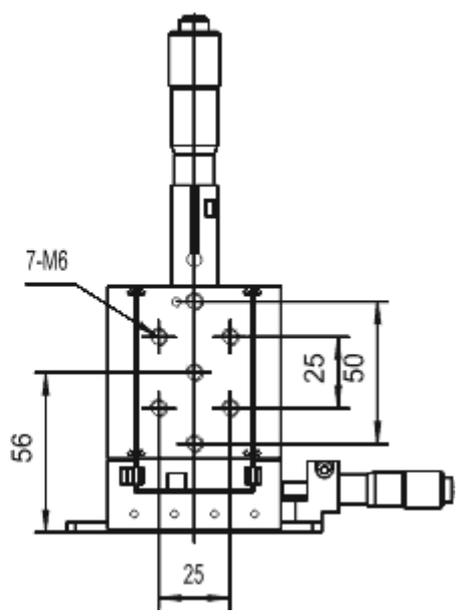
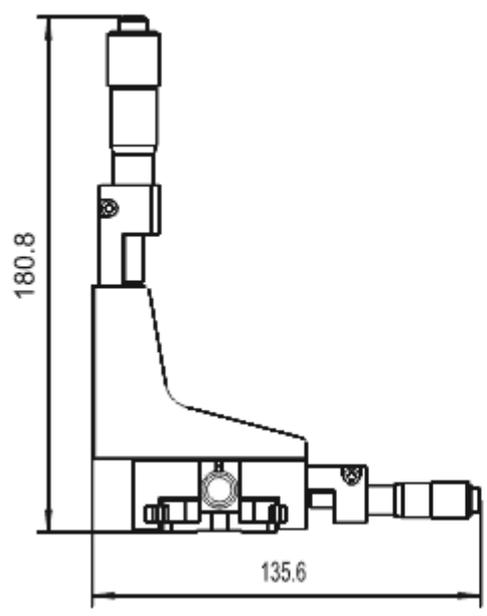
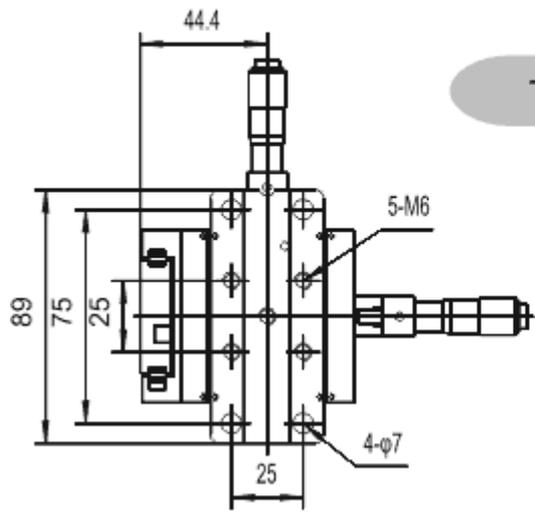
### TSMW13-XYZ-1A(L)



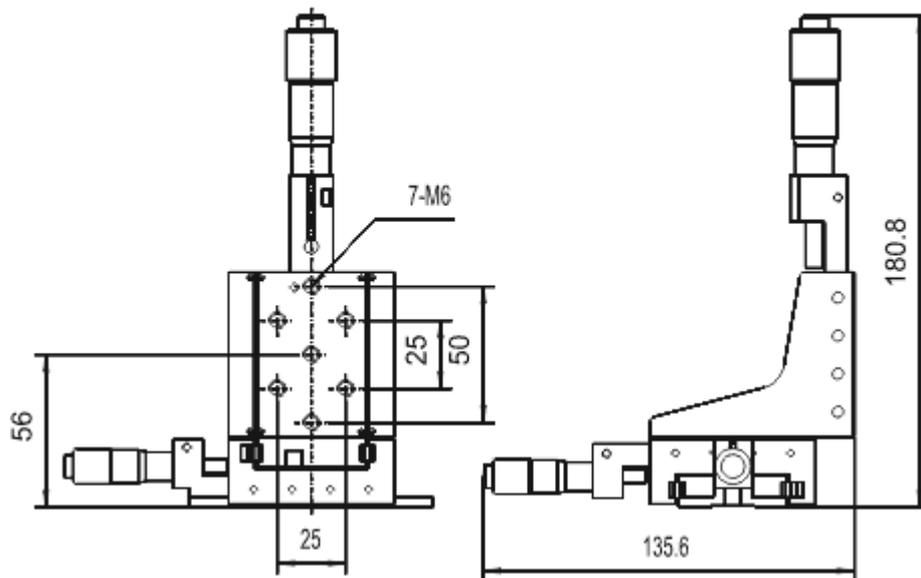
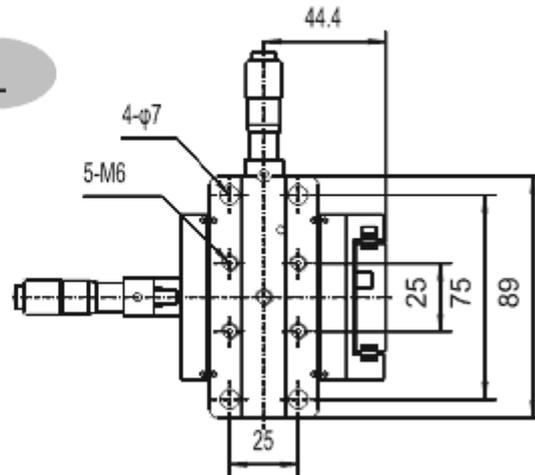
### ■ Specifications

Axes adjustment	XYZ Axes
Travel Range (mm)	13
Swing error	<30''
Driver	Micrometer
Graduation(mm)	0.01
Sensitivity(mm)	0.001
Max. load Capacity (Kg)	2.5
Weight (kg)	0.9

TSMW13-XYZ-1A



## TSMW13-XYZ-1AL



### TSMW13R-XY-1A(L)/TSMW13R-XYZ-A(L)

Appearance for example:the difference is crossed-ball slide

Larger load capacity and higher precision than TSMW13,

■ Related products

- ◆ APFP-T(L)tw-dimensional adjust mount
- ◆ APFP-FH single-mode fiber installed plate

### TSMW25-XY-1A(L)

This series adopted precision linear screw ball along grinding steel bar slide ,micrometer as the driver,comfort motion,high precision,spring reset,remove backlash. ,driver micrometer of xy axis install on the same surface,including l type and r type,easy to operate.z axis enhance load

capacity by micrometer, larger load, applicable for fiber adjustment and other related production, combining with APFP series fiber adjustment mount

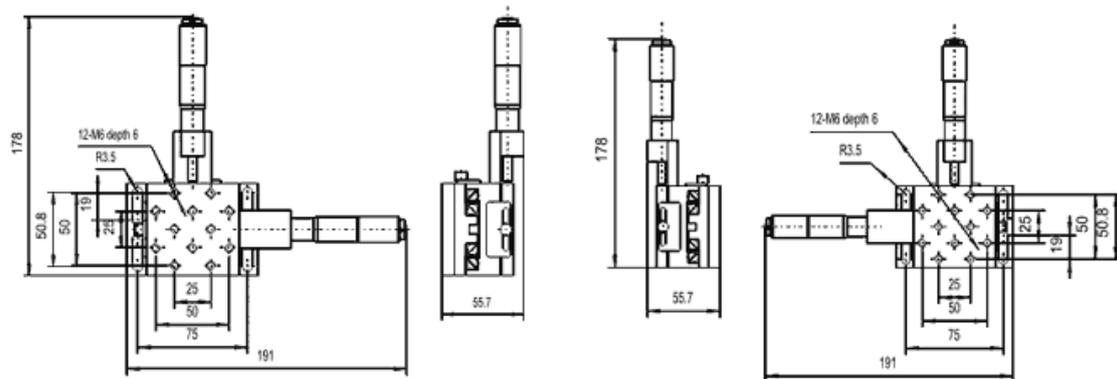


**Specifications**

Axes adjustment	XY Axes
Travel Range (mm)	25
Swing error	<30"
Driver	Micrometer
Graduation(mm)	0.01
Sensitivity(mm)	0.001
Max. load Capacity (Kg)	10
Weight (kg)	0.7

TSMW25-XY-1A

TSMW25-XY-1AL



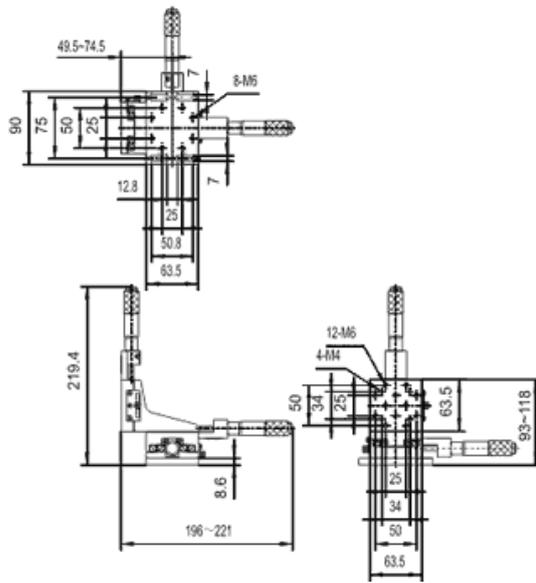
**TSMW25R-XYZ-1A(L) whole multi-dimensional translation stages**

**■ Specifications**

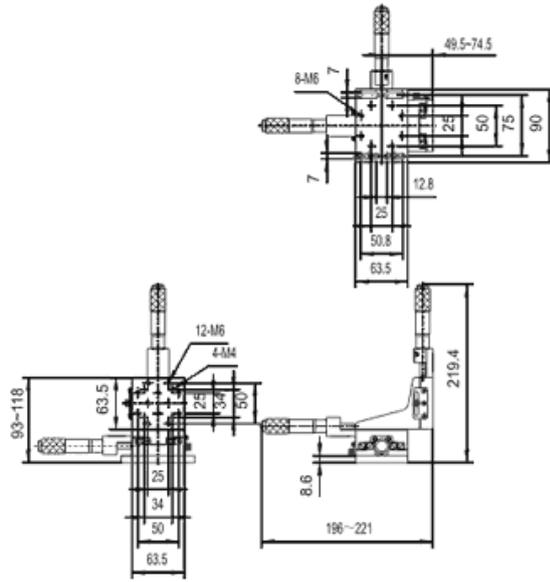
Axes adjustment	XYZ Axes
Travel Range (mm)	25
Swing error	<15"
Driver	Micrometer
Graduation(mm)	0.01
Sensitivity(mm)	0.001
Max. load Capacity (Kg)	2.5
Weight (kg)	1.2



TSMW25R-XYZ-1A



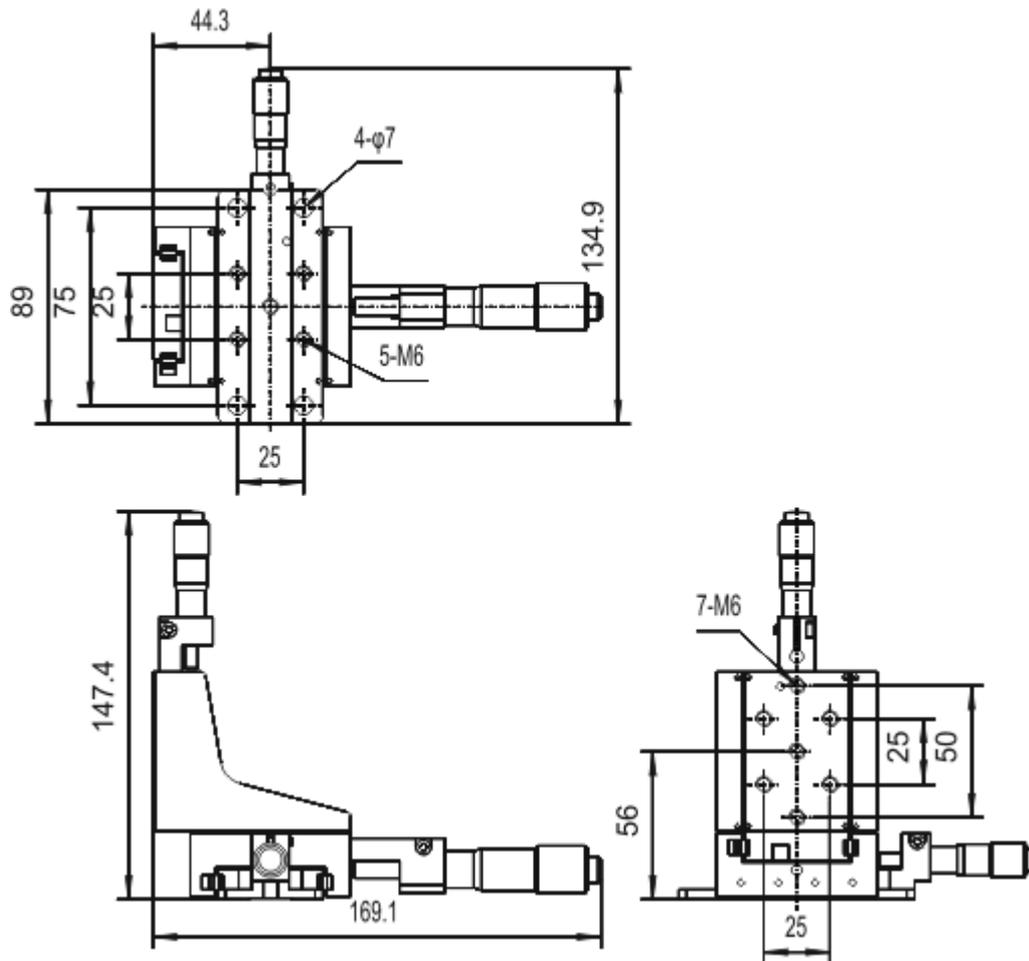
TSMW25R-XYZ-1AL



**TSMW-XYZ-2A(L)whole multi-dimensional translation stages**

The travel of y is 25mm, x z is 13mm,meet to different inquiries





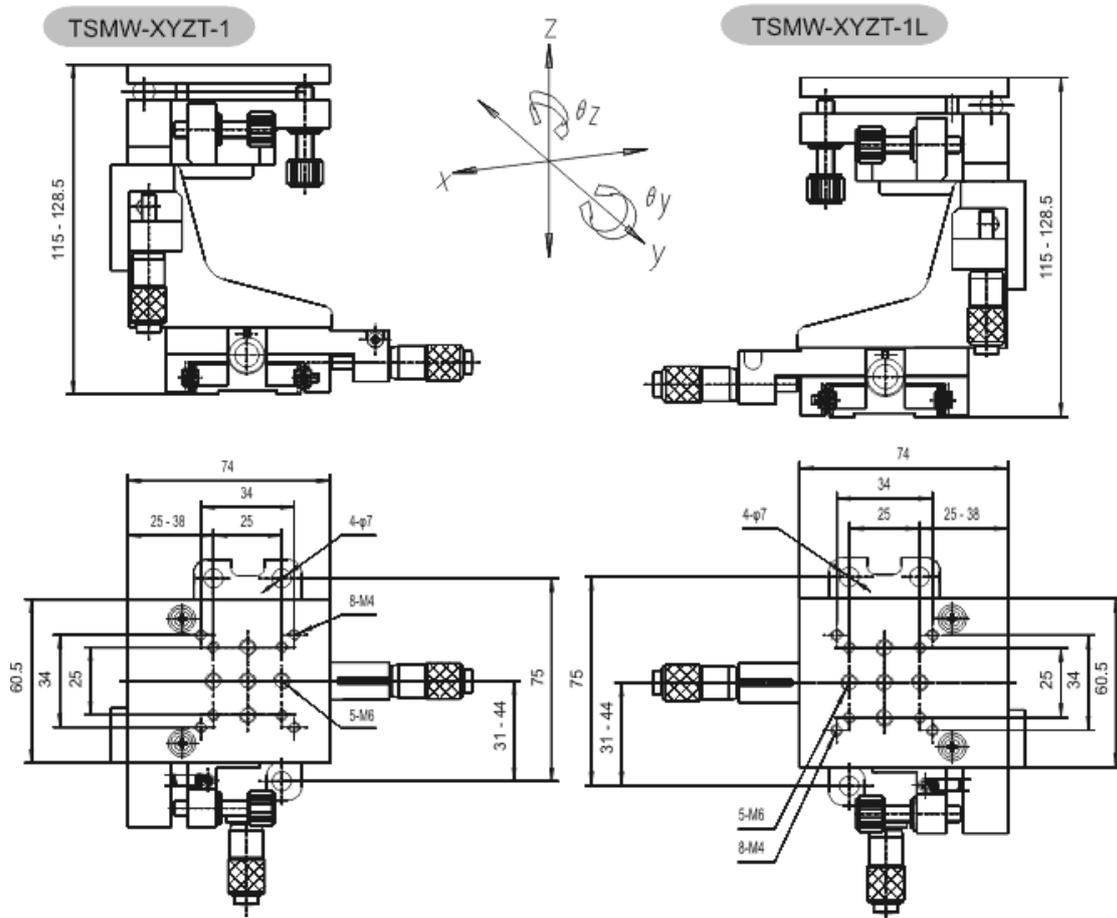
**TSMW-XYZT-1(L) WHOLE 5AXES translation stages**

This series adopted precision linear screw along grinding steel bar slide, micrometer-driver, comfort motion, high precision, spring reset, remove backlash, xy micrometer-driven install on the same surface. including l type and r type. easy to use Z axis enhance load capacity by micrometer, larger load. The table tilt adjust along the z and u axis, adjust screw carry on precision adjustment by M6X0.25 ultra-fine teeth screw. spring reset of high quality, excellent stability, high anti-vibrate. long life. compact and excellent, achieve 5 dimensional adjust. many apertures are suitable for different inquiries, the fixed aperture on the below is convenient for other units



**Specifications**

Axes adjustment	Five Axes
Travel Range(mm)	Tx,Ty,Tz: 13 mm $\theta_y, \theta_z: \pm 5^\circ$
Swing error	$< 30''$
Driver	Micrometer
Graduation(mm)	0.01
Sensitivity(mm)	0.001
Max. load Capacity (Kg)	2.5
Weight (kg)	1.35



### APFP precision fiber adjust mounts

This series adopted newly innovation ,humanized,advanced technology,remove disadvantage of traditional products.higher adjust precision,excellent stability,comfort operation.

Coupling drift trouble the people all the time,when long time experiment,coupling effect will change quickly , then need readjust.the units of precision fiber adjust mounts adopted un-steel of excellent heat stability ,never to worry about drifting

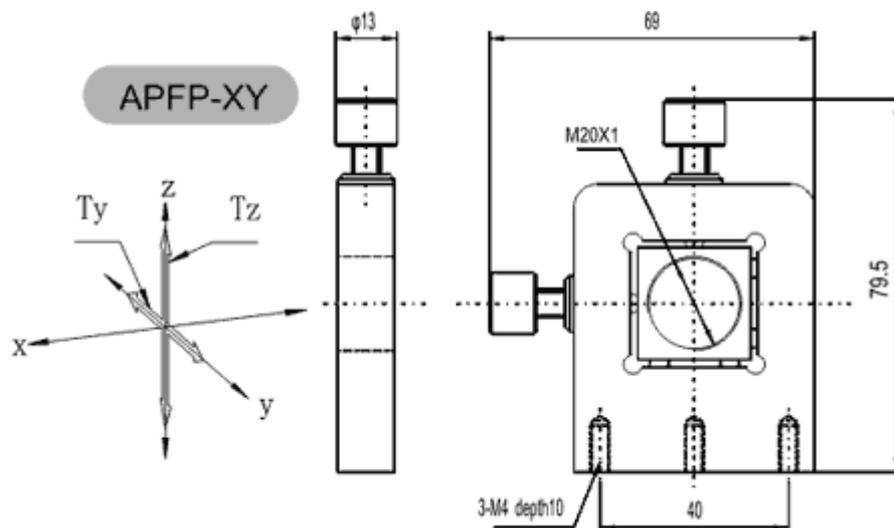
◆Vibrated interference is being fiber adjust mounts by material elastic deformation achieve displacement adjust..when people walk or speak loudly ,these affect the experiment effectiveness.APFP precision fiber adjustment mounts adopted crossed ball slide , achieve displacement,completely steel adjustment ,best stability

◆Compact,micrometer including l and r ttype, approaching the table.please put elbow on the table when adjust comfort

◆This series adopt modularity design in order to finish different adjust function.design different adjust function separately ,you can compose them in according with different inquiries, achieve 6 dimensional adjust at last.simultaneously ,in order to suit for different optics ,we have design kinds of optics mounts, the light path of the mounts height is the same ,easy to exchange low cost

### APFP-XY dual dimensional adjust mounts

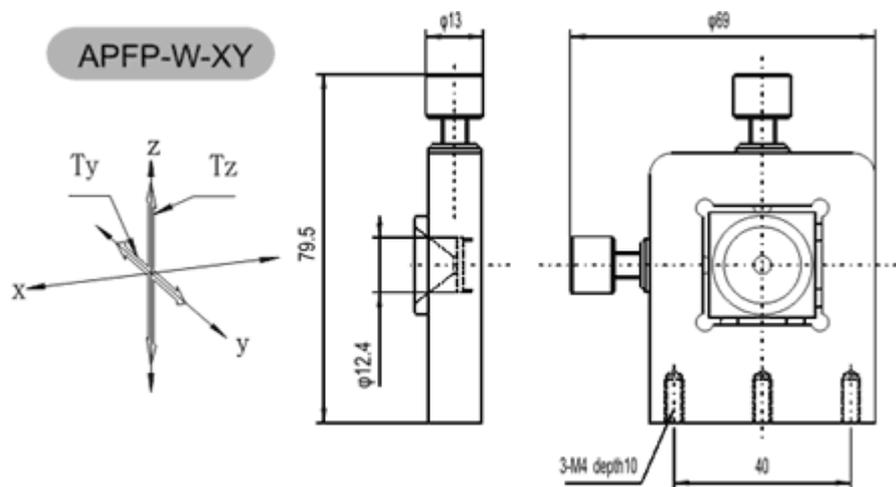
Provide X Y dual dimensional adjust ,,matched with mirror tube which screw is M20x1, Tx:3mm;Ty:3mm



### APFP-W-XY dual dimensional adjust mounts

Chucking diameter is 4/5, applicable for chucking microscope, the others is the same with APFP-XY.

Noted: not including filter and pin hole mounts

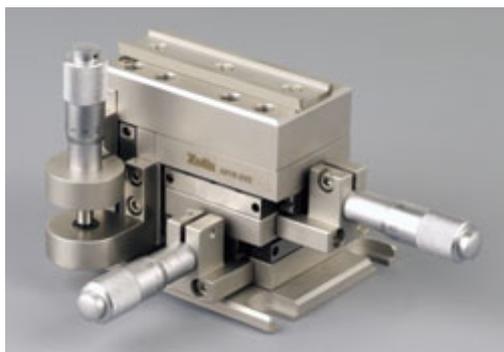


### APFP-XYZ three dimensional adjust mounts

Providing xyz three dimensional adjust ,equipped with dovetail mounts

Fix optics installed mounts

Including L and R type(left hand is APFP-XYZL)



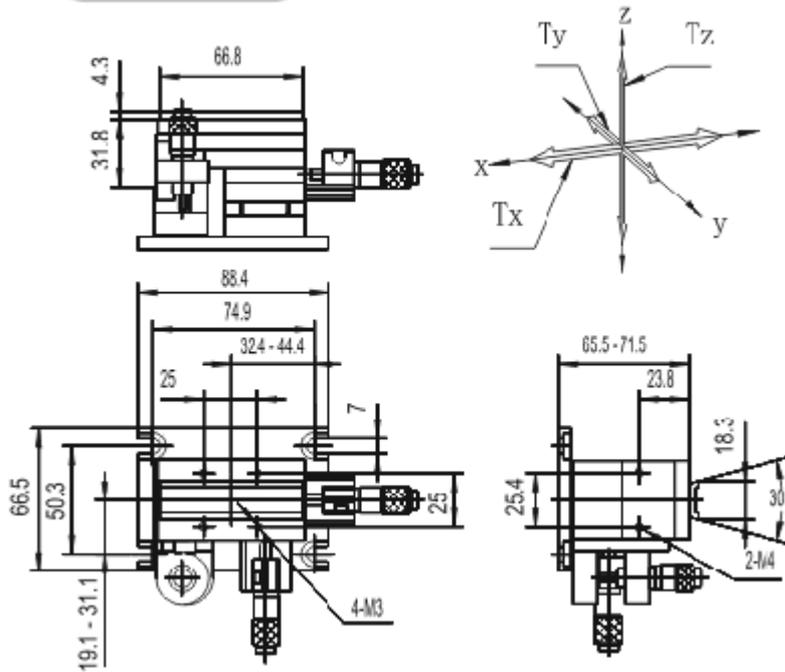
#### ■ Specifications

- ◆ Tx: 12mm
- ◆ Ty: 12mm
- ◆ Tz: 6mm
- ◆ warp: <math>< 100\mu\text{ rad}</math>

◆Load: 2.3kg

◆High optical center:79mm

### APFP-XYZ



### APFP-YZ dual dimensional adjust mounts

Providing yz dual dimensional adjust,equipped with dovetail mounts,fix optics installed mounts  
Yaw



#### ■Specifications

◆Tx: 12mm

◆Ty: 12mm

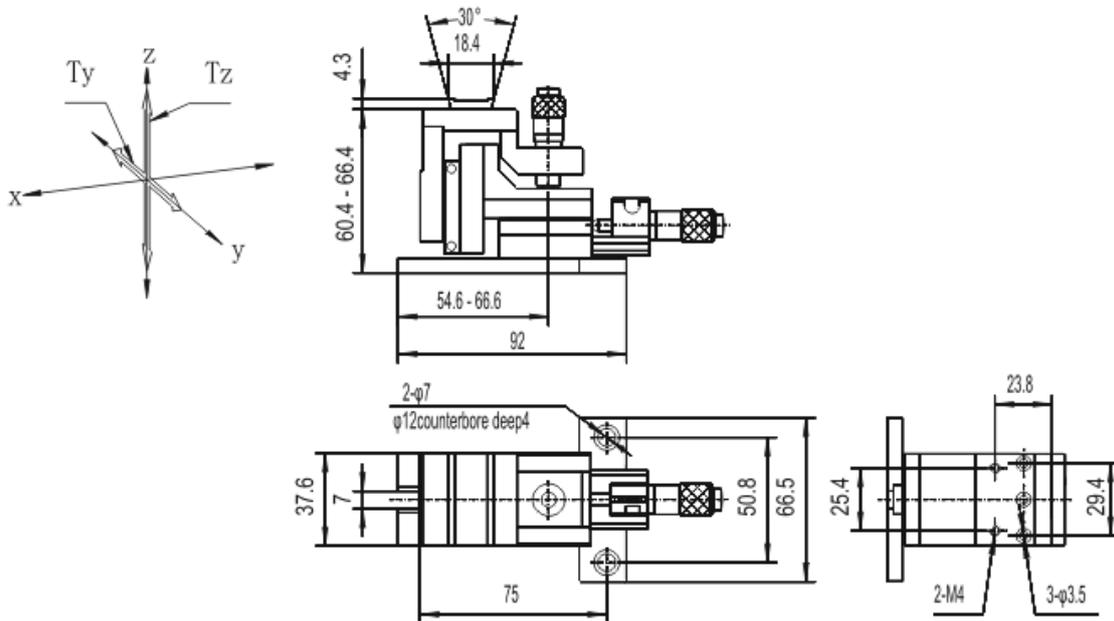
◆Tz: 6mm

◆warp: <math><100\mu\text{ rad}</math>

◆Load: 2.3kg

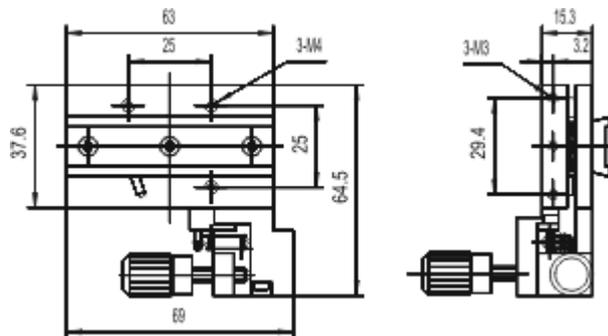
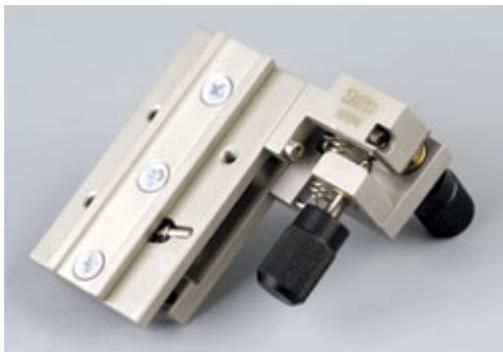
◆High optical center:79mm

## APFP-YZ



### APFP-T dual dimensional tilt adjust mounts

Compose with APFP-XYZ three dimensional adjust mounts ,providing tilt adjust along y and z axis.Equipped with dovetail,fix the optics mounts,this product include L and R tpyle.



### Specifications

- ◆  $\theta_y$ :  $\pm 5^\circ$ ;
- $\theta_z$ :  $\pm 5^\circ$
- ◆ Resolution: 5"

### APFP-θx tilt adjust mounts

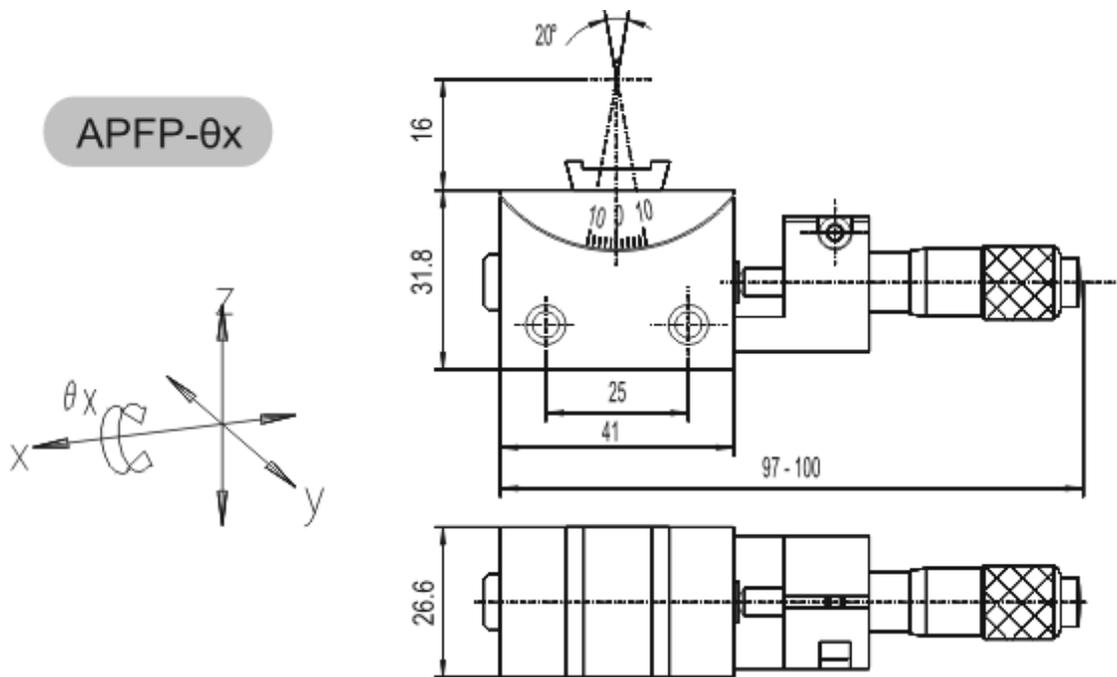
Compose with APFP-XYZ three dimensional mounts ,providing tilt adjust along x axis,equipped with dovetail ,fix the optics mounts



■ Specifications

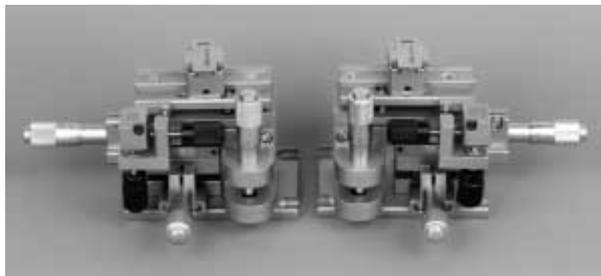
◆  $\theta_x$ :  $\pm 7^\circ$

◆ Resolution: 6"



**APFP-XYZT five dimensional precision adjust mounts**

Un-dust steel, well table linearity, yaw not more than 100, convenient for right hand. Combining with APFP-FH, grasp bare fiber, applicable for alignment



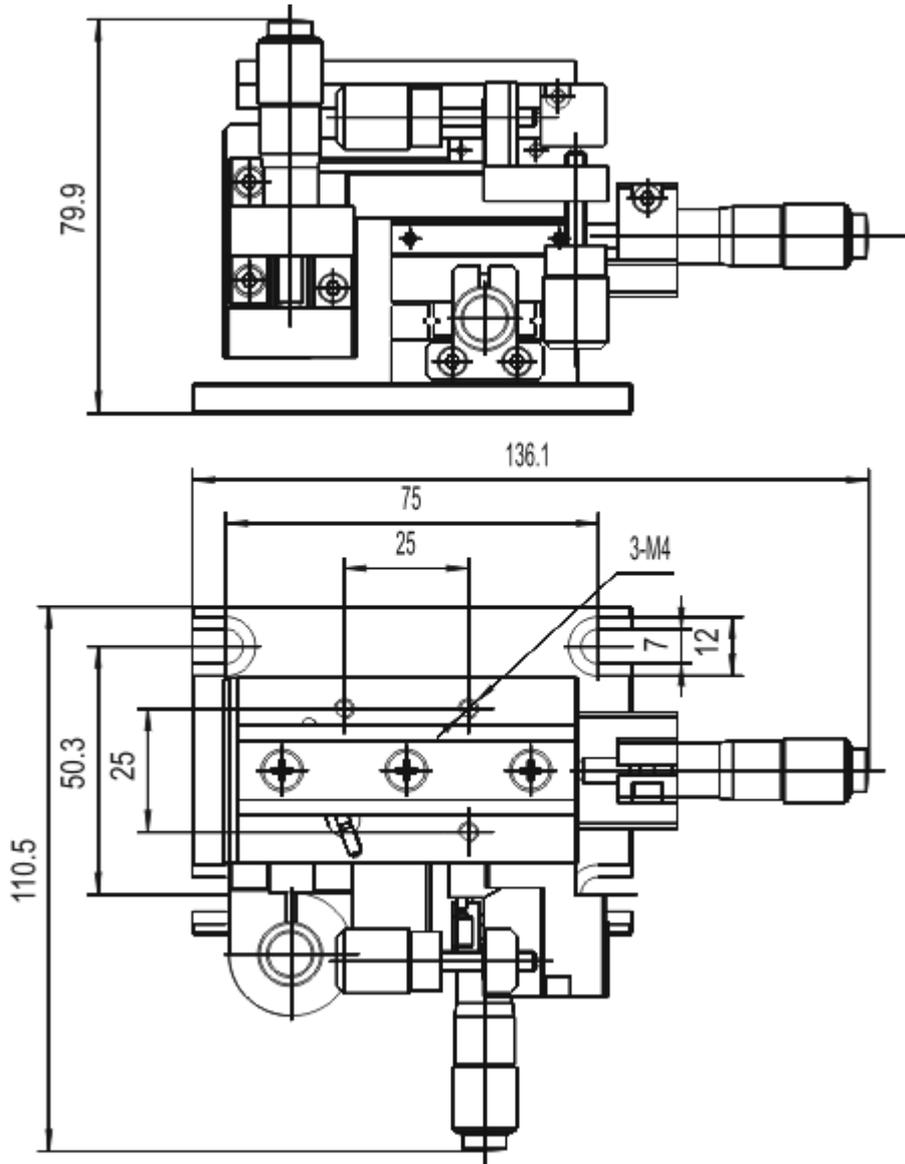
■ Specifications

◆  $\theta_y$ :  $\pm 5^\circ$ ;  $\theta_z$ :  $\pm 5^\circ$

◆  $T_x$ : 12mm

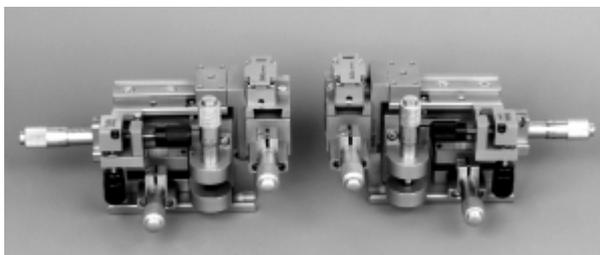
◆  $T_y$ : 12mm

◆  $T_z$ : 6mm



**APFP-XYZT0 6 dimensional adjust mounts**

Un-dust steel,well table linearity ,yaw not more than 100,convenient for r hand .combining with APFP-FH ,grasp bare fiber ,applicable for alignment



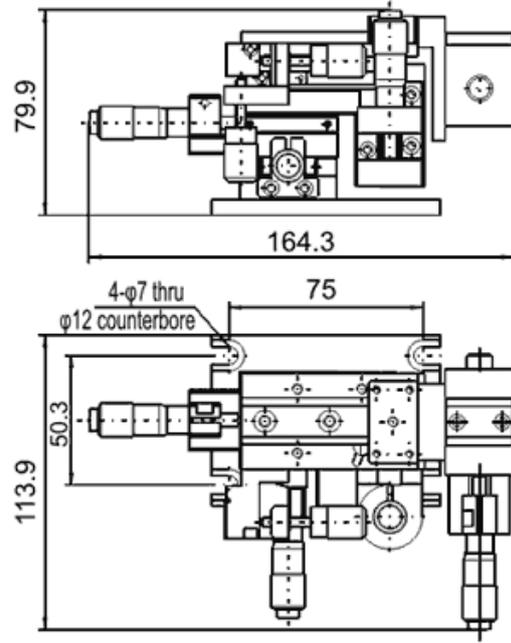
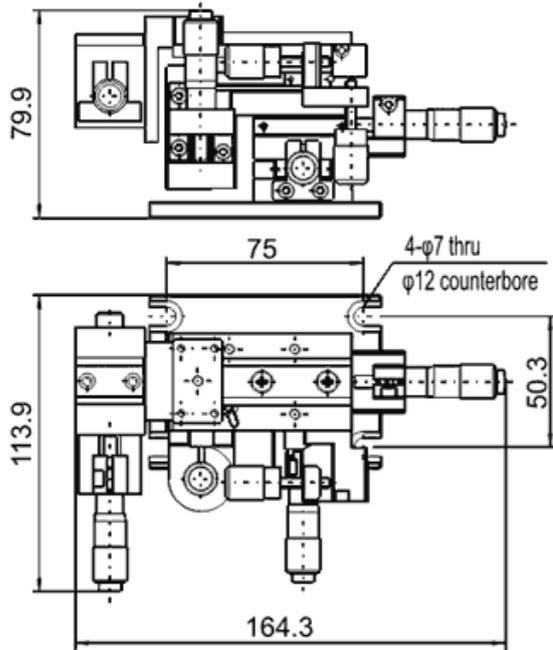
■Specifications

- ◆ $\theta_x$ :  $\pm 7^\circ$ ;  $\theta_y$ :  $\pm 5^\circ$ ;  $\theta_z$ :  $\pm 5^\circ$
- ◆Tx: 12mm
- ◆Ty: 12mm

◆Tz: 6mm

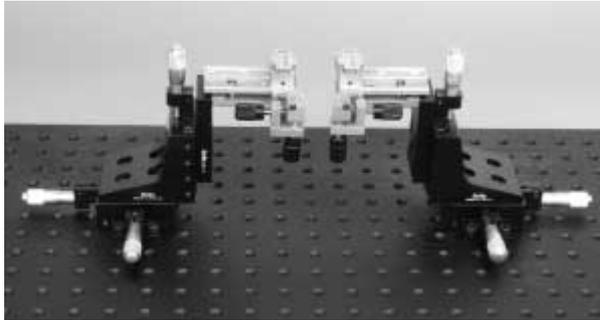
### APFP-XYZT $\theta$

### APFP-XYZT $\theta$ L



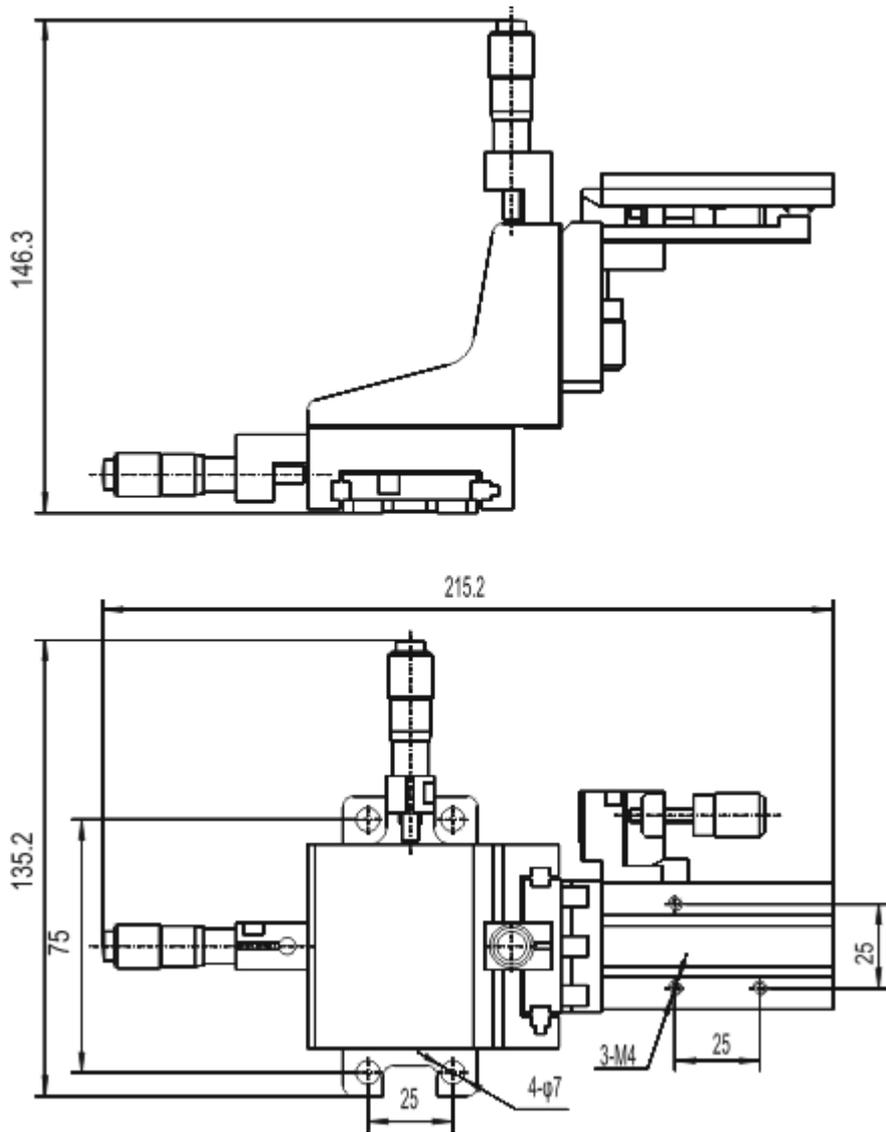
#### FP-XYZT 5 dimensional adjust mounts

This series was composed by TSMW13-XYZ whole three dimensional stages and APFP-T un-rust two dimensional pitch stages, compact, precision, cost-effective applicable for fiber alignment of industrial customers, the left hand type is FP-XYZTL



#### ■Specifications

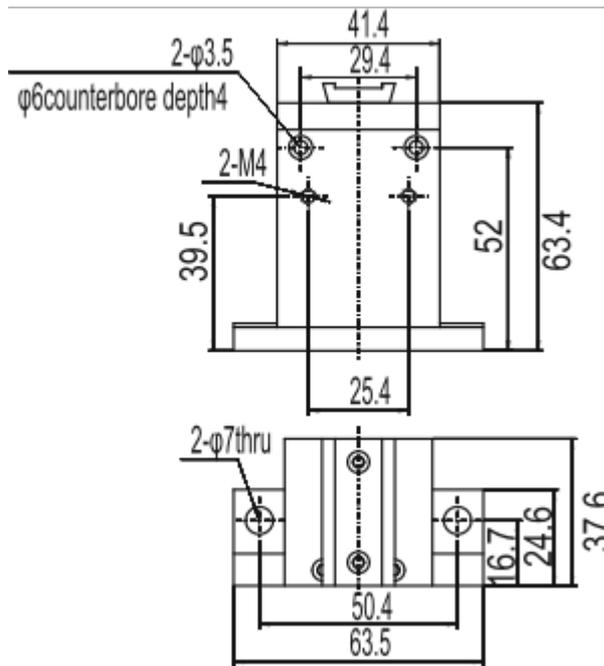
- ◆ $\theta_y$ :  $\pm 5^\circ$ ;  $\theta_z$ :  $\pm 5^\circ$
- ◆Tx: 13mm; Ty: 13mm; Tz: 13mm
- ◆Swing error <math>< 30''</math>
- ◆Graduation: 0.01mm



**APFP-US univaler dovertail bracket**

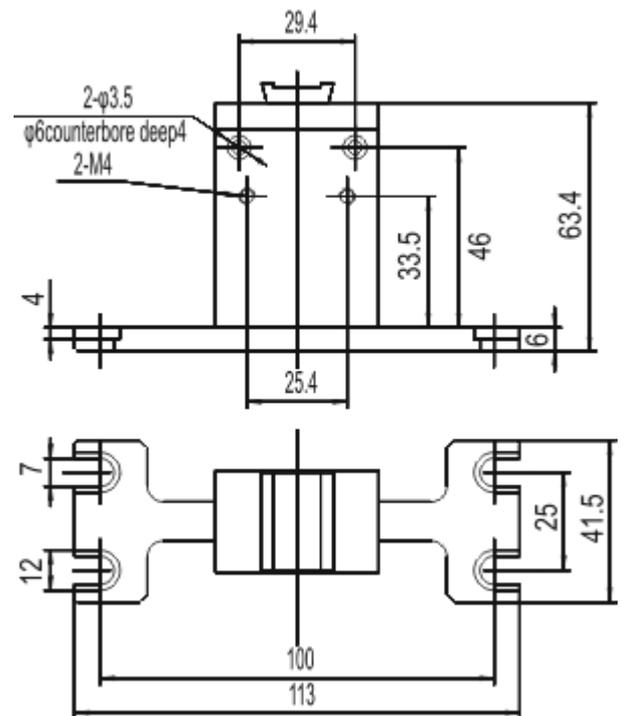
The dovetail mounts of the top fix optics installed mounts





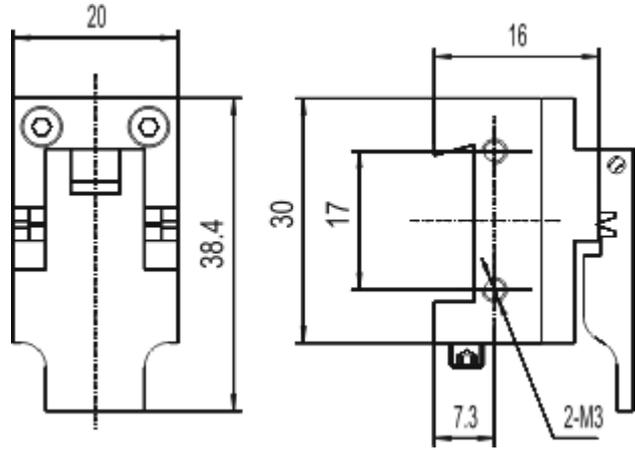
**APFP-TS dovetail bracket**

The dovetail mounts of the top fix optics installed mounts



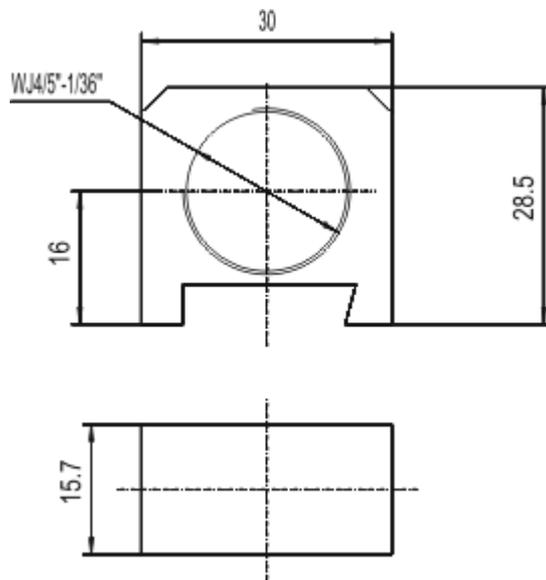
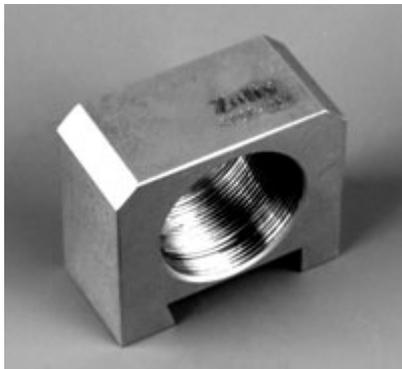
**APFP-FH single mode fiber installed mounts**

This series fix single fiber, adopt magnetic design, grasp stable and harden fiber. The dovetail groove match with dovetail mounts, easy to upload and load



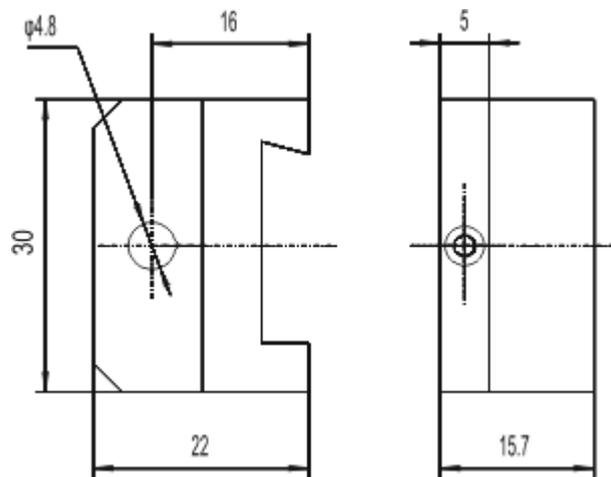
**APFP-OM microscope lens mounts**

Standard microscope installed screw, fix the microscope. The dovetail groove match with dovetail mounts ,easy to upload and load



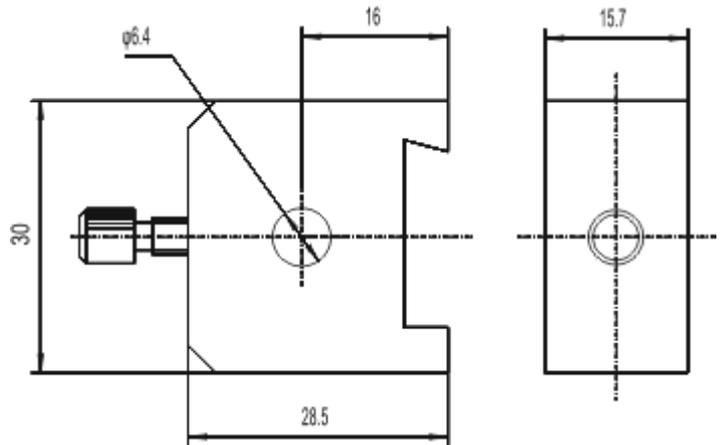
**APFP-GH self-focusing lens holders**

Fix self-focusing lens,dovetail groove match with dovetail mount, easy to upload and load



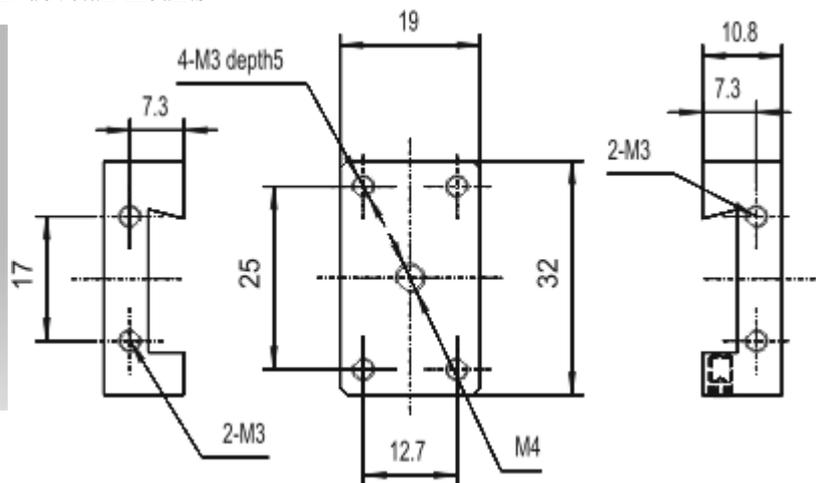
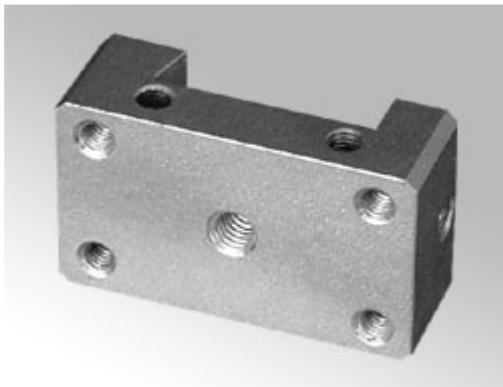
### APFP-FC fiber chucking mounts

Fix APFP series fiber chucking, dovetail groove match with dovetail mount, easy to upload and load



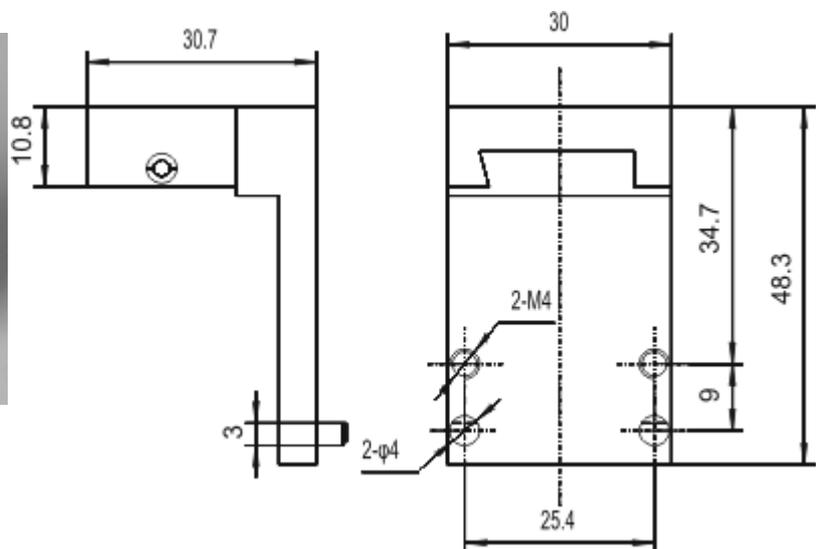
### APFP-UM universal dovetail mounts

Connect with other connect board, easy to fix dovetail mounts



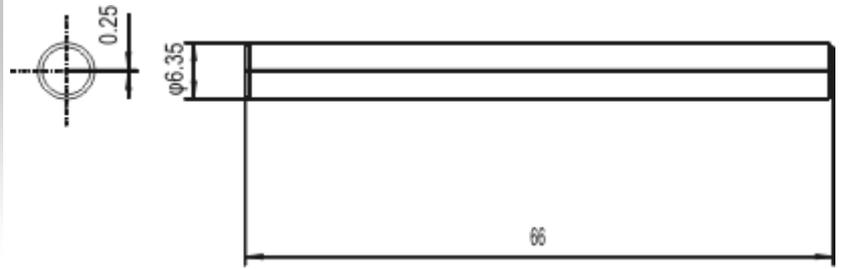
### APFP-GB right angle dovetail mounts

APFP-X and APFP-T installed together, compose 6 dimension adjust mounts with APFP-XYZ three dimensional mounts



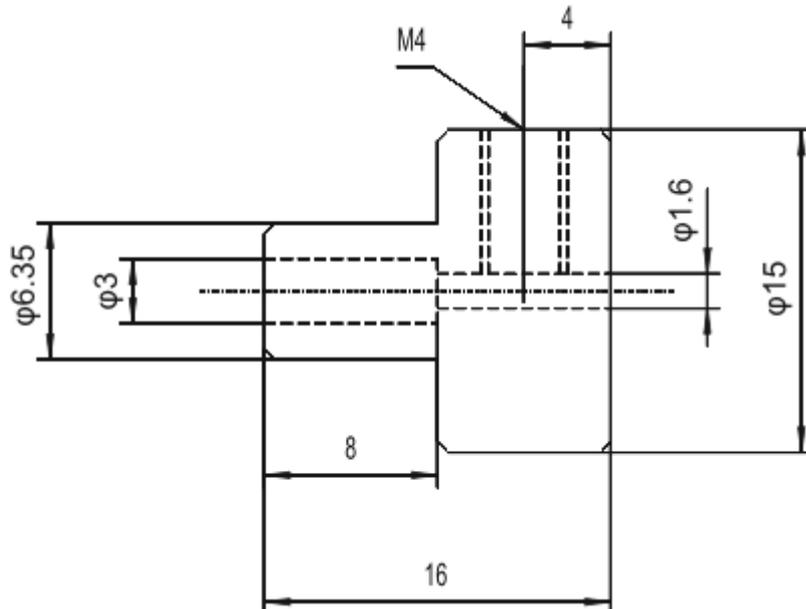
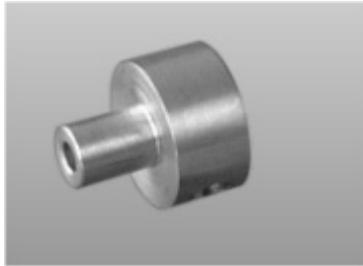
### APFCH-1 Fiber chucking

APFCH-1 adopt elastic clamping, grasp diameter: 0.08-0.2mm; match with APFC series fiber coupling and APFP-FC fiber chucking mounts, stable and convenient



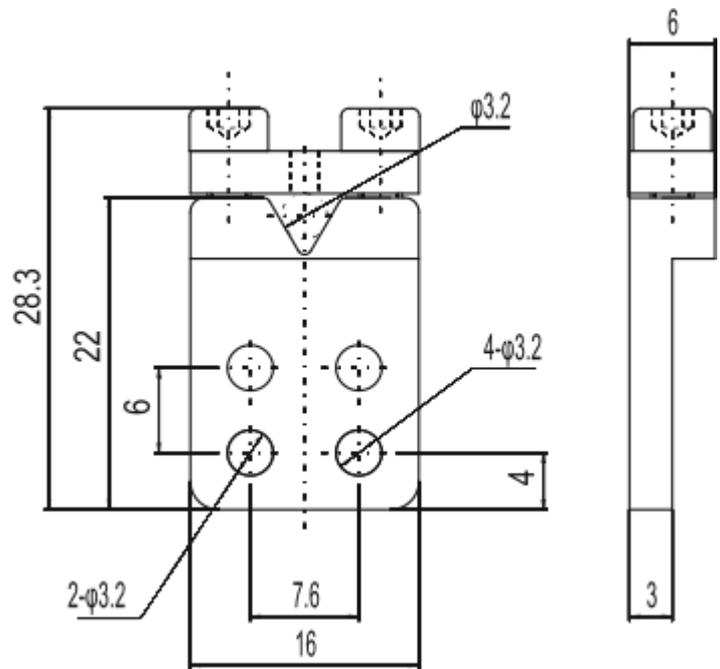
### APFCH-2 fiber chucking

APFCH-2 adopt steel clamping, grasp diameter: 0.2-1.5mm, fix fiber and not crust, match with APFC series fiber coupling and APFP-FC fiber chucking mounts, stable and convenient



### APFCH-3 fiber chucking

Suitable for fiber mounts of many diameter, load conveniently. match with BP-16 base plate and TSMT5-2 dual dimensional tilt mounts, applicable for fiber multi dimensional adjust



**ASM13-XZ-1(1A) dual dimensional translation stages**

**ASM13-XZ-2(2A)**



■ Specifications

- ◆ Dimension adjustment: X, Y
- ◆ Travel: Tx, Ty: 13mm

**ASM25-XZ-1(1A) dual dimensional translation stages**



■ Specifications

- ◆ Dimension adjustment: X, Y

◆Travel: Tx,Ty: 25mm

Combination products

TSM25-2(1A) precision translation stage 2pcs

**ASM13-XYZ-2(2A) dual dimensional translation stages**

◆Dimension adjustment:X,Y,Z

◆Travel: Tx,Ty,Tz: 13mm

Combination products

TSM13-2 (1A) 3pcs

PHOB-5 1pc



**ASM25-XYZ-1-1(A)**

■Specifications

◆Dimension adjustment:X,Y,Z

◆Travel: Tx,Ty,Tz: 25mm



**ASM-XYZ-1A three dimensional combination translation stages**

**ASM-XYZ-2A**



■Specifications



■Specifications

◆Dimension adjustment:X,Y,Z

◆Travel: Tx,Ty: 25mm

Tz: 13mm

◆Dimension adjustment:X,Y,Z

◆Travel: Tx,Ty: 25mm

Tz: 5mm

**ASM- XY0--1A three dimensional stage ASM- XYZ0T--1A6 dimensional combination stages**

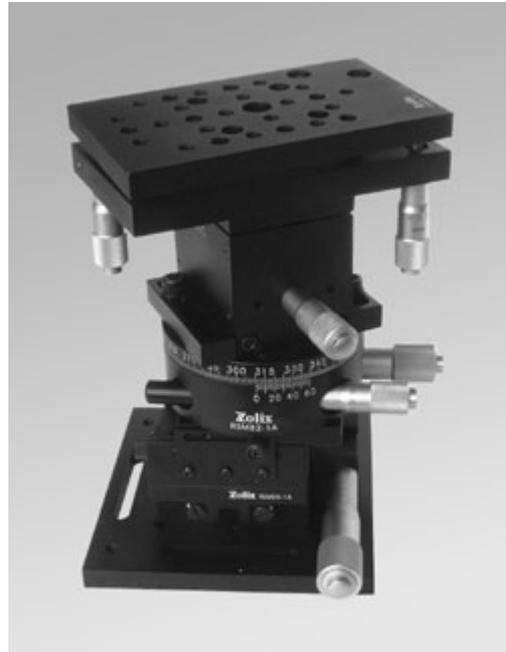


■Specifications

◆Dimension adjustment:X,Y,Z

◆Travel: Tx,Ty: 25mm

$\theta_z$ : 360°



■Specifications

◆Dimension adjustment: X,Y,Z, $\theta_x$ , $\theta_y$ , $\theta_z$

●Tx,Ty:25mm ; Tz:5mm ;  $\theta_z$ : 360°;

$\theta_x$ , $\theta_y$ :  $\pm 5^\circ$

**ASM25XYZ-RG2precision 5 dimensional combination translation stages**



■Specifications

◆Dimension adjustmentX,Y,Z, $\theta_x$ , $\theta_y$ , $\theta_z$

◆Travel:Tx,Ty,Tz:25mm

◆Angle adjustment: $\theta_x$   $\theta_y$ : $\pm 10^\circ$ ,  $\theta_z$ :360°

Adjustable space of six degrees of freedom for applications: optical engine optical thin-film experiments.

### **ASM50-XY dual dimensional combination translation stages**



#### ■ Specifications

◆ Dimension adjustment: XY

◆ Travel: Tx, Ty: 50mm

### **ASM75XY-V60 three dimensional combination translation stages**

Specification

◆ Dimension adjustment: XYZ

◆ travel: Tx, Ty, Tz: 75mm; Tz: 60mm



### **ASM25XY-RV four dimensional combination translation stages**

#### ■ Specifications

◆ Dimension adjustment: X, Y, Z,  $\theta_z$

◆ Travel: Tx, Ty: 25mm,

Tz: 5mm

◆ Angle adjustment:  $\theta_z$  : 360°



**ASM-RG2 three dimensional combinaiton translation stages**

Specification

- ◆Dimension adjustment:  $\theta_x, \theta_y, \theta_z$
- ◆angle adjustment:  $\theta_x, \theta_y: \pm 10^\circ, \theta_z: 360^\circ$



**ASM13XY-G2 four dimensional stages**



**ASMV5-TR four dimensional combination stages**



**ASM-VRG2fourdimensional stages**



**ASM25XY-RTV5fivedimensional combination**



**ASM25XY-T4 four dimensional combination translation stages**



**Specification**

- ◆ dimension adjustment: X, Y,  $\theta_x$ ,  $\theta_z$
- ◆ travel adjustment : Tx, Ty: 25mm,
- ◆ angle adjustment :  $\theta_x$ :  $\pm 4^\circ$   $\theta_z$  :  $\pm 2.5^\circ$

**ASM25XY-G2 four dimensional combination translation stages**



**Specification**

- ◆ dimension adjustment : X, Y,  $\theta_x$ ,  $\theta_y$
- ◆ travel adjustment : Tx, Ty: 25mm,
- ◆ angle adjustment :  $\theta_x$ ,  $\theta_y$  :  $\pm 10^\circ$

**ASM25R-XY**



**Specification**

- ◆ dimension adjustment : XY
- ◆ travel : Tx, Ty: 25mm

Characteristic: high-load capacity, high-stability