

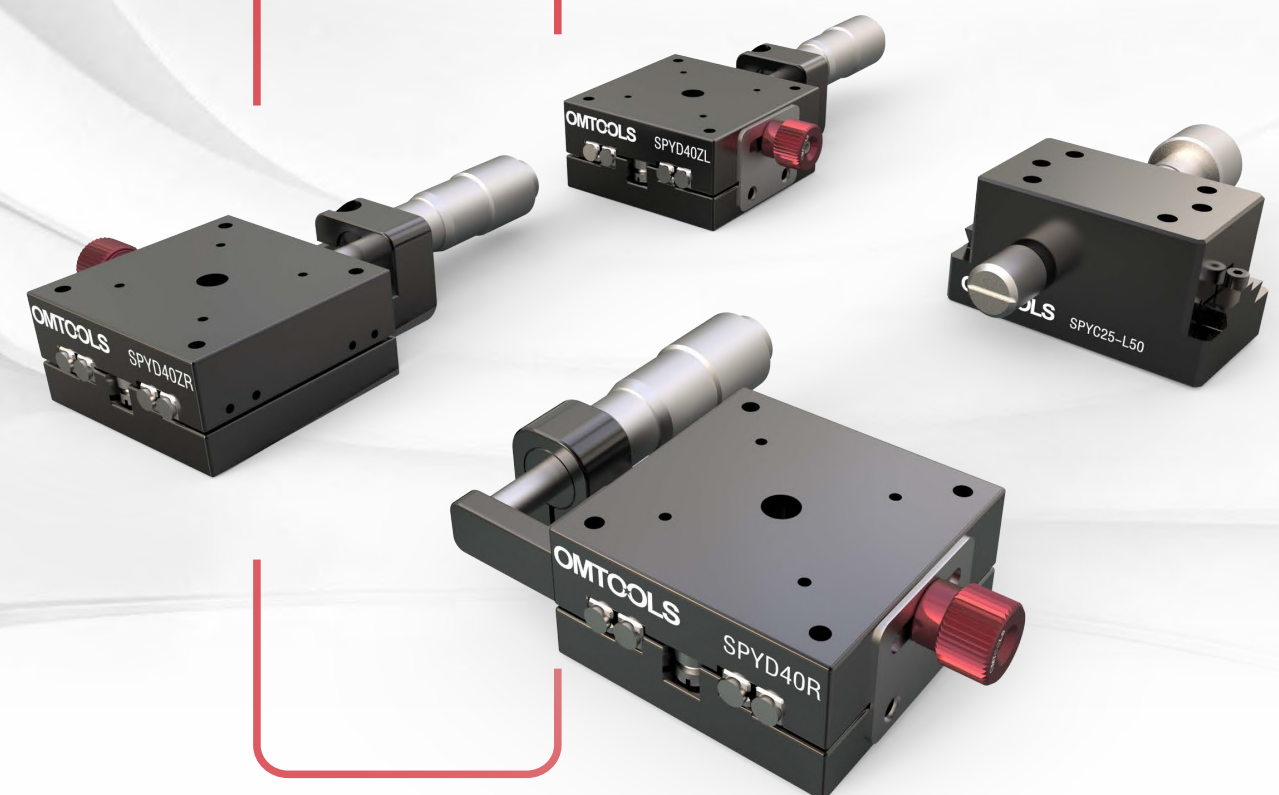
OMTOOLS

www.omtools.cn

Headquarters in Wuhan
Tel: 400-1618-188
Email: info@whhxykj.com
Website: www.omtools.cn

Официальный
дистрибьютор
в России и ЕАЭС
www.sphotonics.ru
8 (800) 550-72-97
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20230317 V1.2



OMTOOLS

Catalogue 2023

· **Manual Position Stages**



SPYB Series

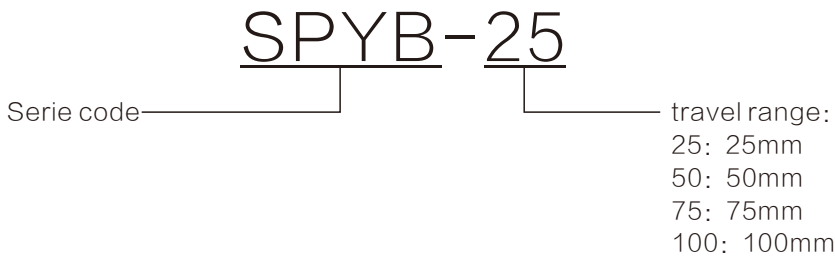
Guide

Made in aluminum alloy and with oxidation treatment in the surface, this SPYB series is a very good choice for research and lab measurement. Also it is heavy load and very easy to operate with graduated scale and lock function.

Features

- © Heavey load;
- © Stable and with good performance;
- © With graduated scale, easy to operate;
- © With lock function.

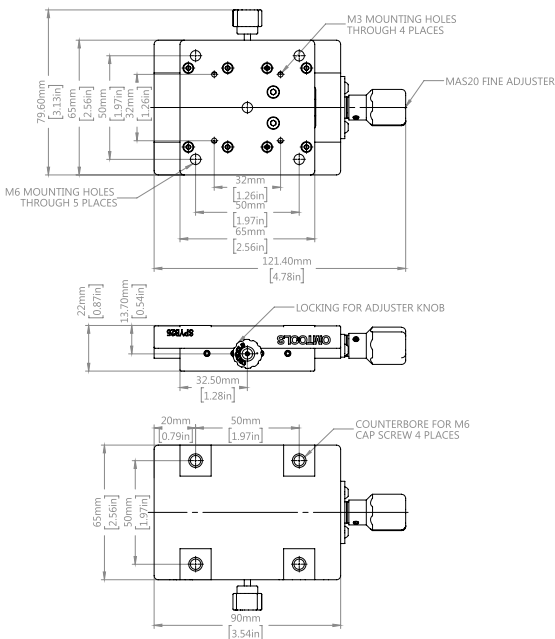
Name Rule



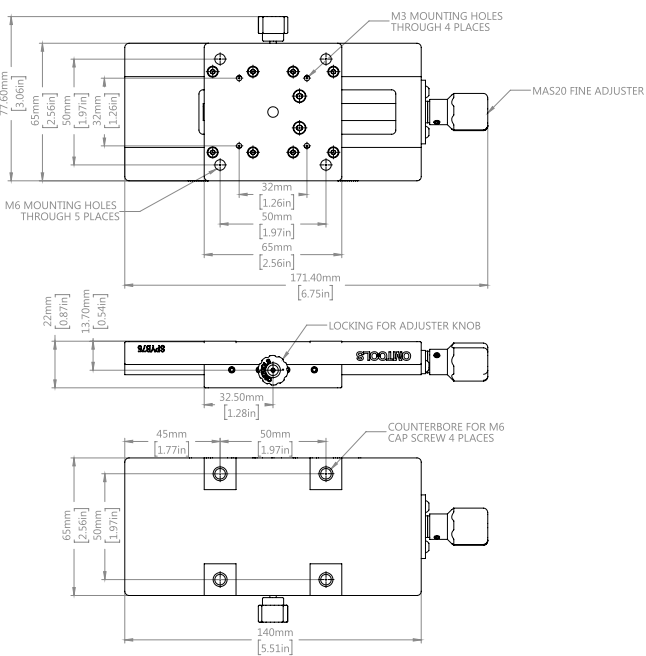
Specifications

Model	SPYB25	SPYB50	SPYB75	SPYB100
travel range(mm)	25	50	75	100
platform size(mm)	65x65			
stage length(mm)	90	115	140	165
stage thickness(mm)	20			
slide	dovetail groove slide			
drive method	grinding lead screw , Ø8X4			
driver postion	center			
main material	aluminum alloy			
horizontal load(Kg)	10			
vertical load(Kg)	5			
suitable connection plate	OMLA01B		OMLA02B	

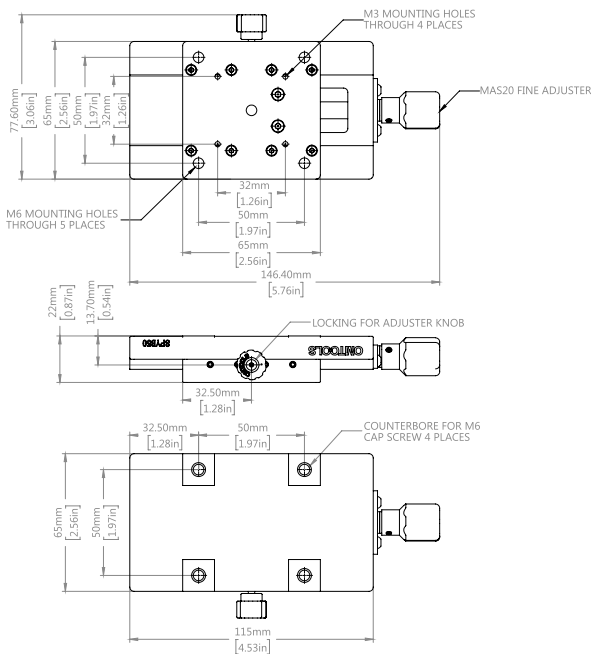
SPYB25



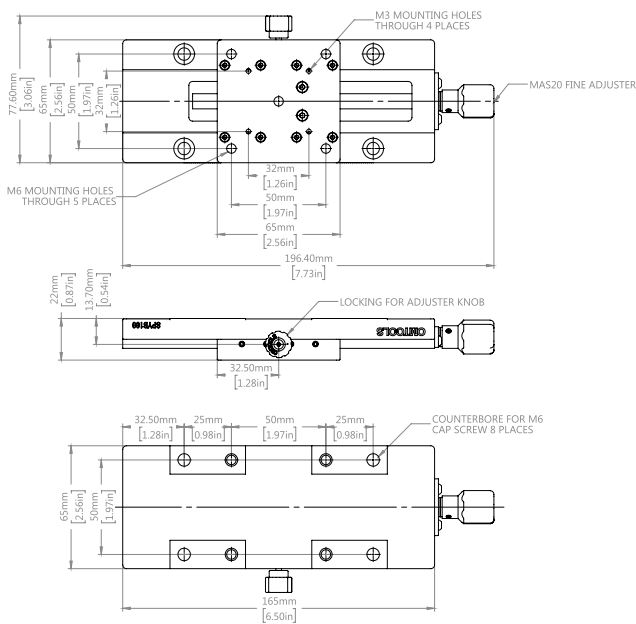
SPYB75



SPYB50



SPYB100





SPYC Series

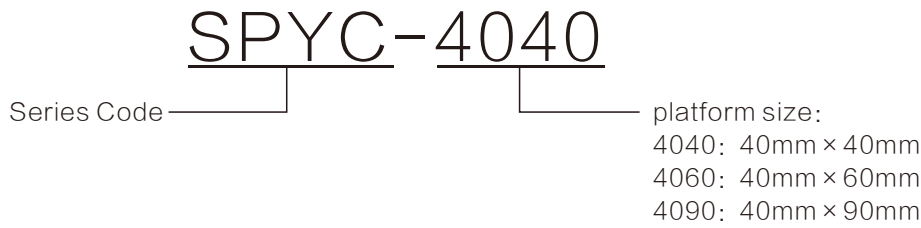
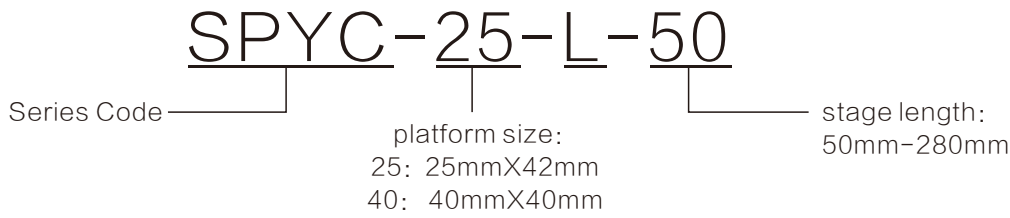
Guide

OMTOOLS pinion-and rack linear motion stage adopted high strength aluminum alloy, with doove tail slide, is heavy load and move fast. With graduated scale in the side and lock function, which is very stable. Ther are screw holes on top and bottom of the platform which is available for connecting with other stages. With big manual adjustment kno in the side, which is very easy to adjust and the knob could be customized according to customer's need.

Features

- ◎ Heavy load, big travel range;
- ◎ Pinion-and- rack, move fast;
- ◎ With graduated scale;
- ◎ With lock in the side of the stage;
- ◎ A lot of models for choice.

Name Rule



Specifications

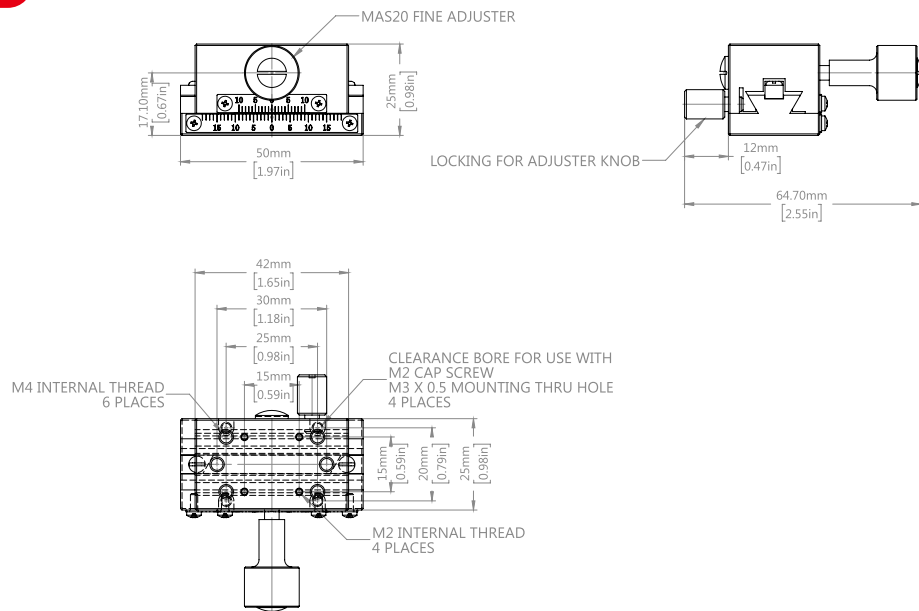
Model	SPYC25L50	SPYC25L70	SPYC25L100	SPYC25L150	SPYC25L200
platform size(mm)	25X42				
stage size(mm)	50	70	100	150	200
travel range(mm)	30	50	80	130	180
thickness(mm)	25				
minimum step(mm)	0.1				
slide	dove tai slidel				
drive method	pinion-and-rack				
drive position	in the side				
main material	aluminum alloy				
weight(Kg)	0.11	0.12	0.15	0.19	0.24
horizontal load(Kg)	3				
connection plate	OMLA06				

Model	SPYC40L100	SPYC40L150	SPYC40L200	SPYC40L250	SPYC40L300
platform size(mm)	40X40				
stage length(mm)	100	150	200	250	300
travel range(mm)	80	130	180	230	280
thickness(mm)	28				
minimum step(mm)	0.1				
slide	dove tail slide				
drive method	pinion-and-rack				
driver position	in the side of stage				
main material	aluminum alloy				
weight(Kg)	0.24	0.31	0.38	0.45	0.52
horizontal load(Kg)	3				
connection plate	OMLA07		OMLA08		

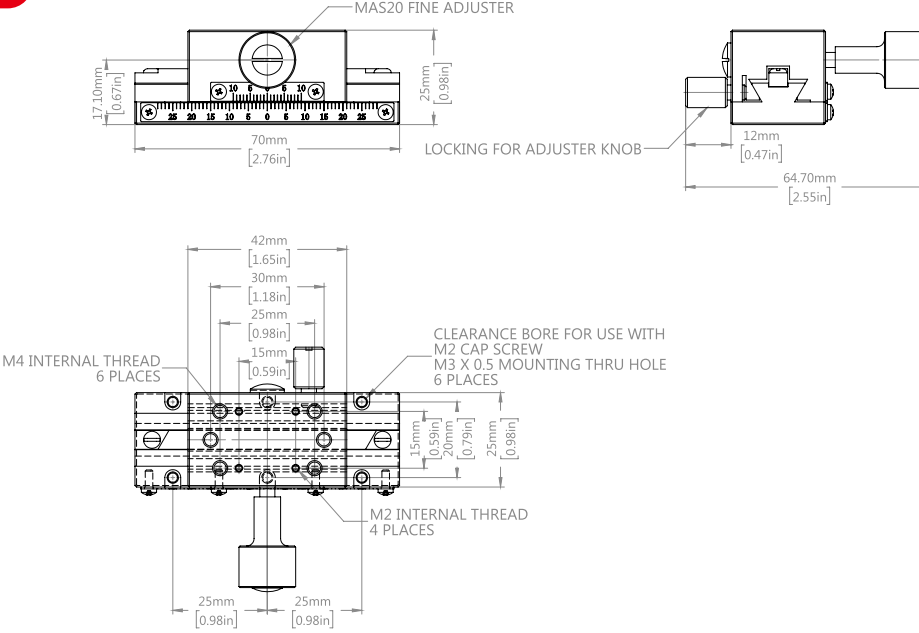
Model	SPYC4040	SPYC4060	SPYC4090
platform size(mm)	40X40	40X60	40X90
stage length(mm)	40	60	90
travel range(mm)	20	40	60
thickness(mm)	34		
minimum step(mm)	0.1		
slide	dove tail slide		
drive method	pinion-and-rack		
driver position	in the side of the stage		
main material	aluminum alloy		
weight(Kg)	0.21	0.27	0.36
horizontal load(Kg)	5		
connection plate	OMLA07		

► Drawings

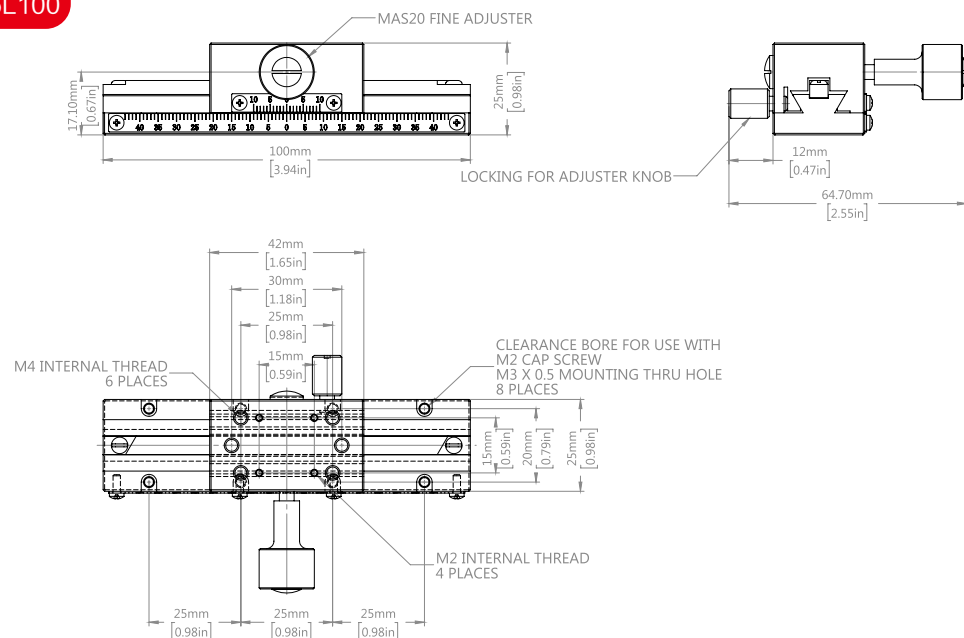
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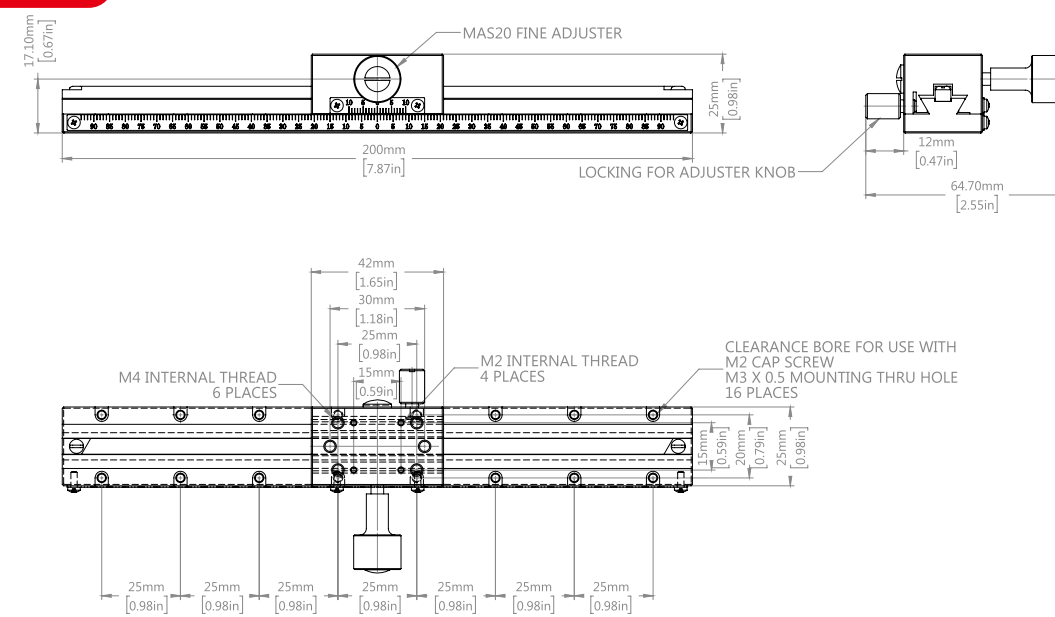
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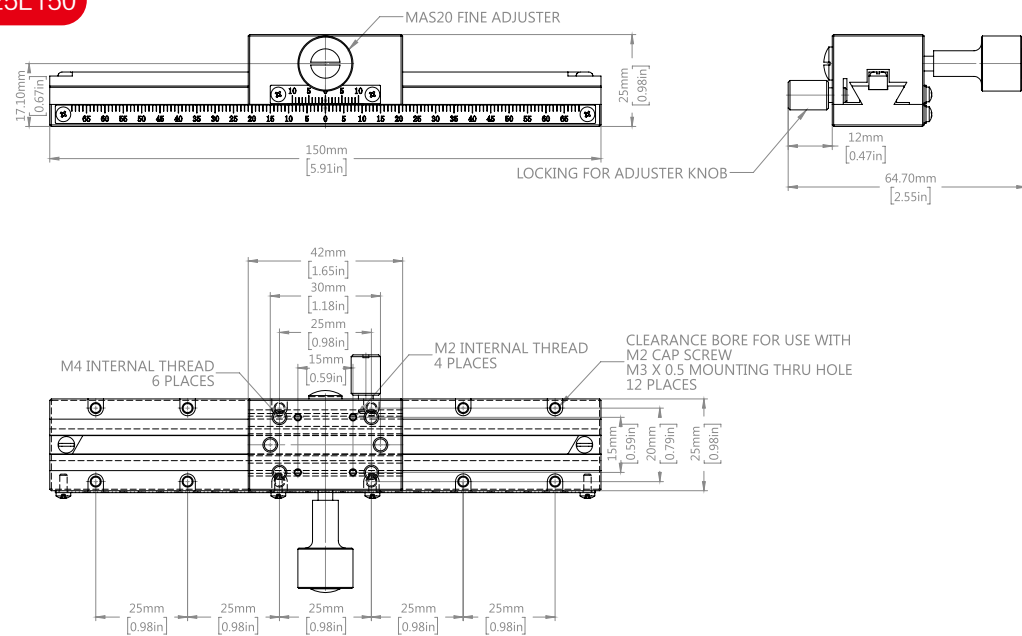
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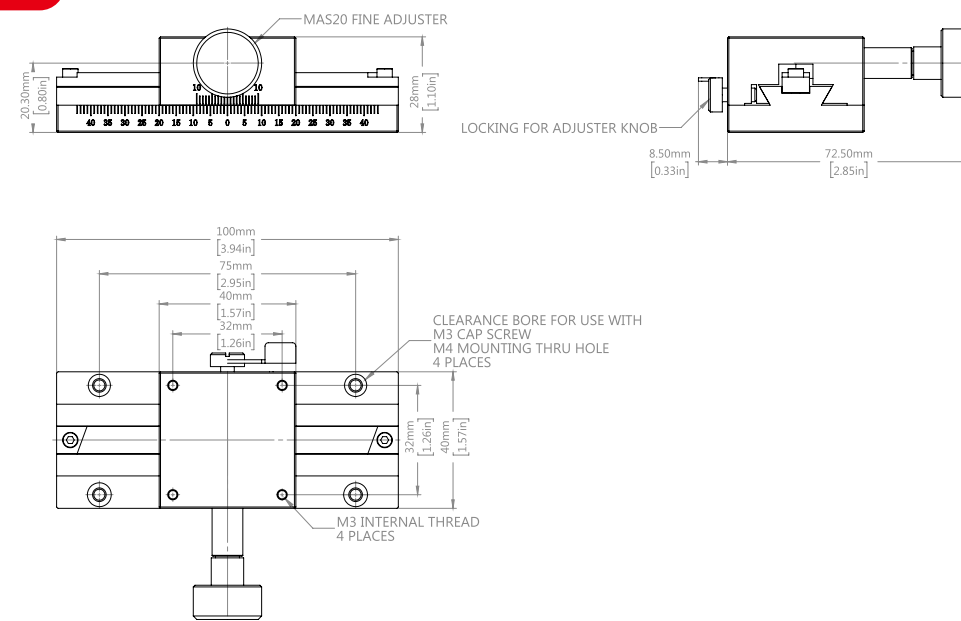
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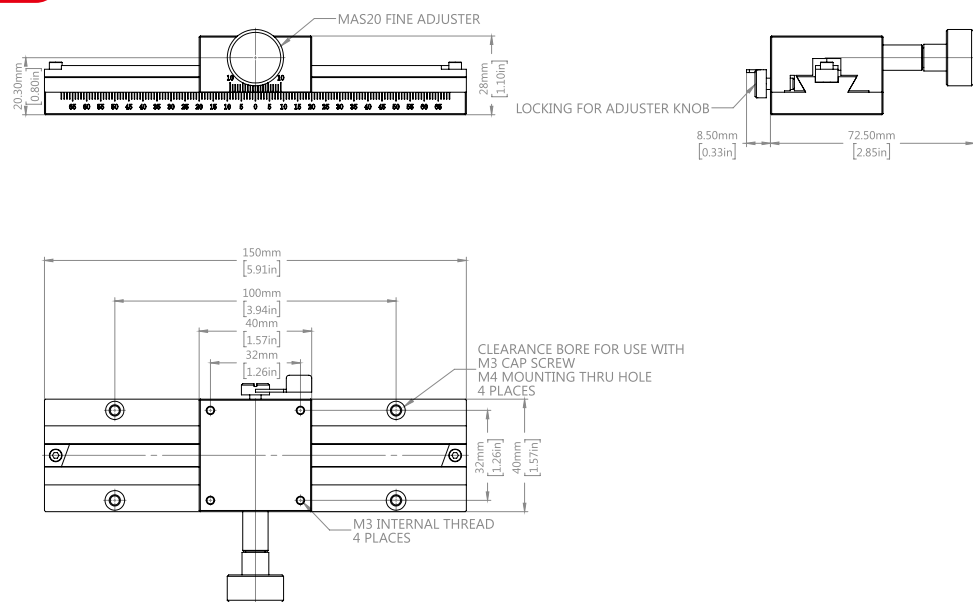
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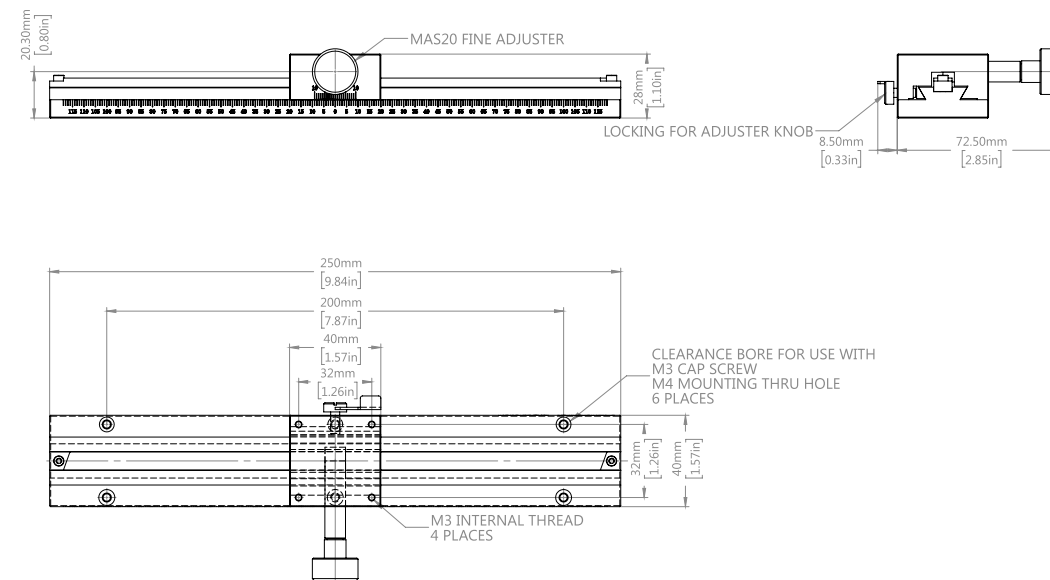
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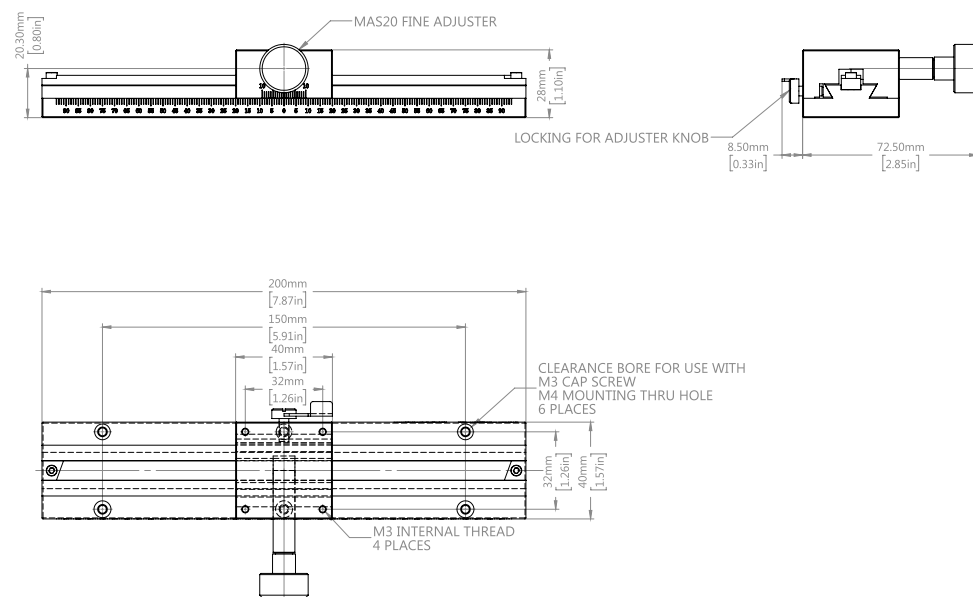
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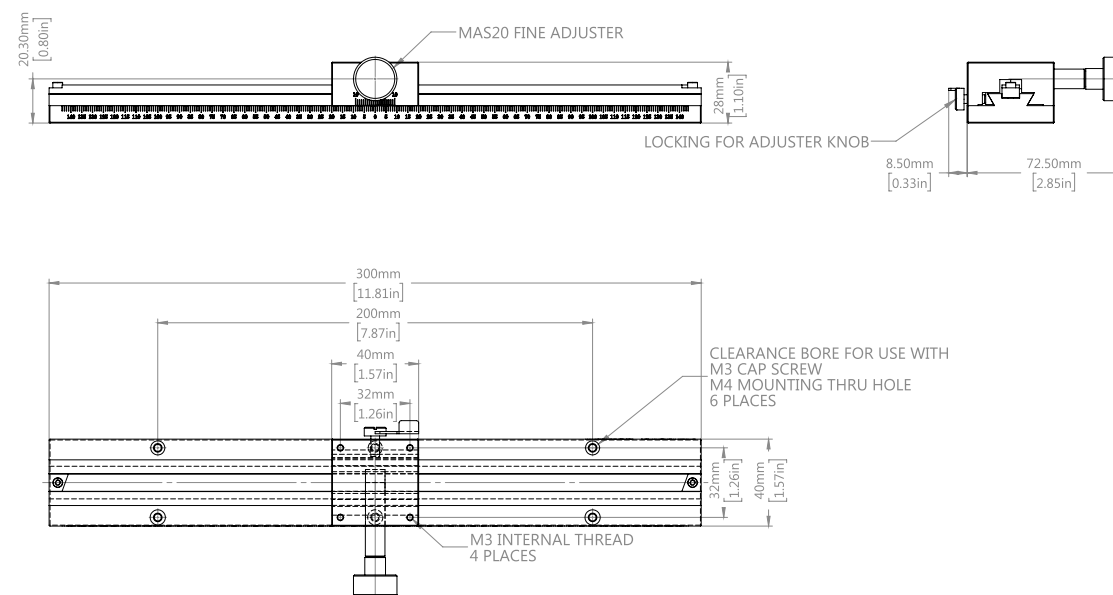
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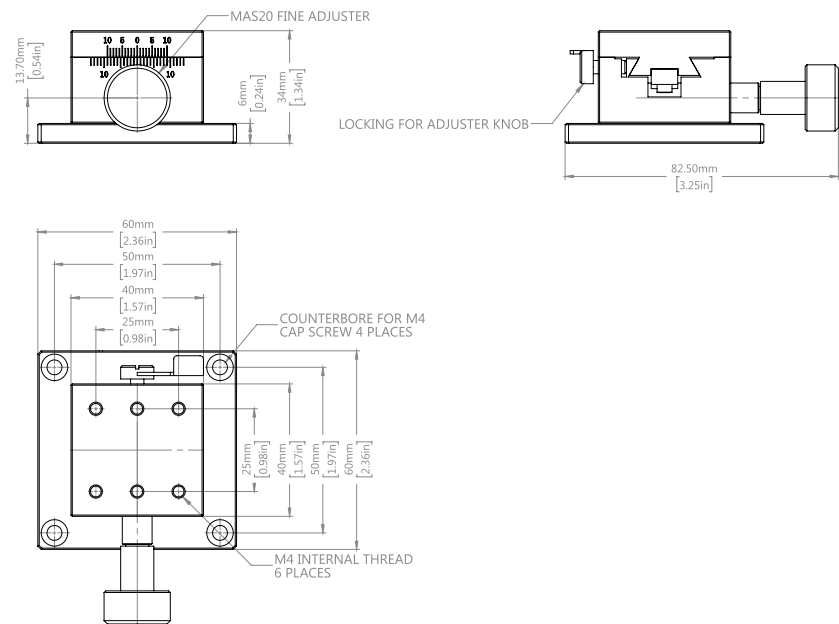
SPYC40L200



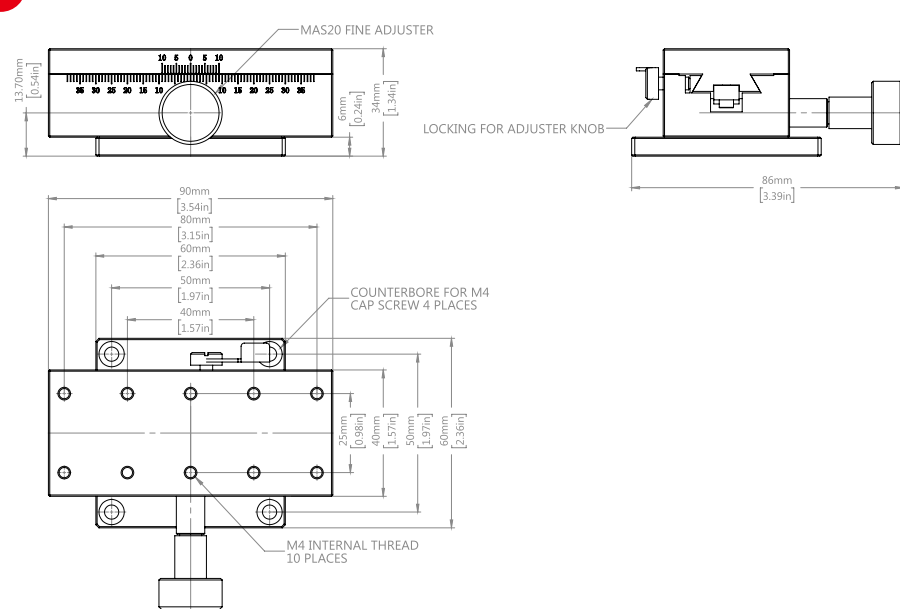
SPYC40L300



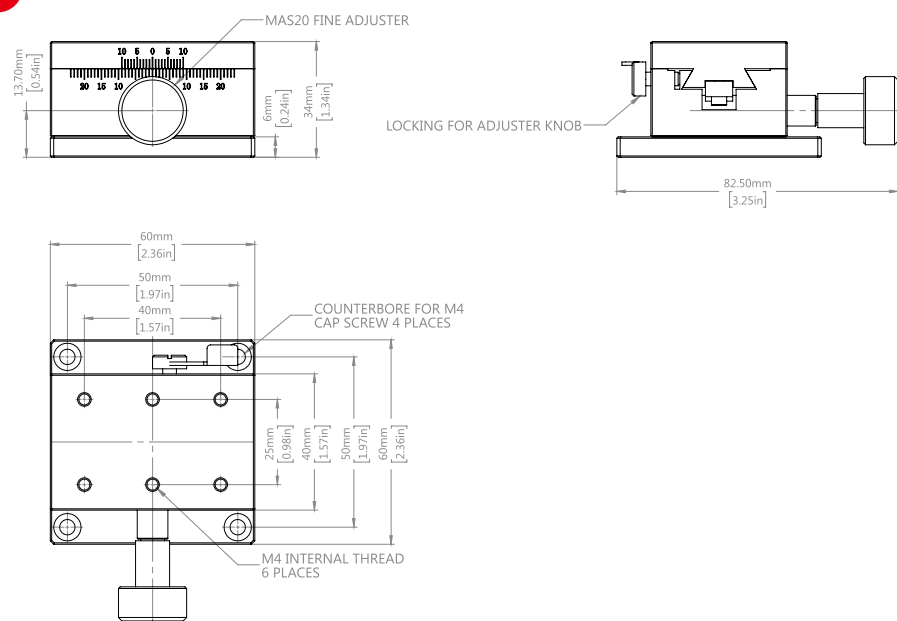
SPYC4040



SPYC4090



SPYC4060





High Precision SPYD Series

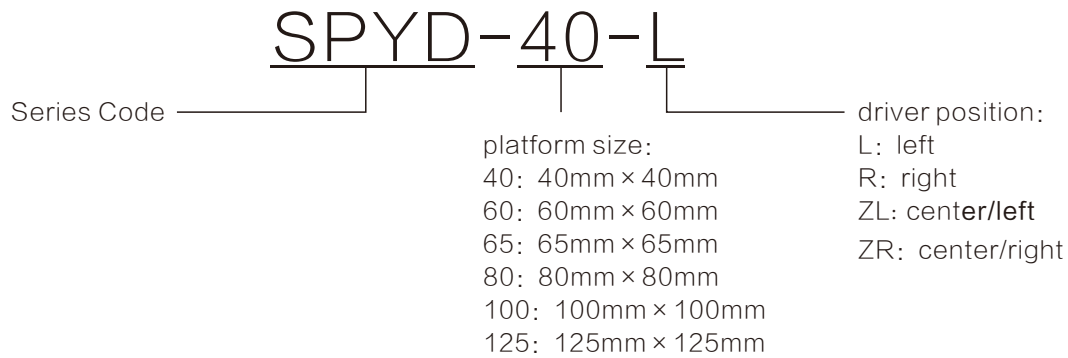
Guide

High precision SPYD series linear motion stage adopted aluminum alloy material and cross roller type slide, as well as micrometer driver, which gets the minimum step of less than 2um. This series also includes different platform size and could be connected with other stages as a multi-axis stage.

Features

- © Adopted cross roller type slide, heavy load;
- © High precision stage suitable for precision research and measurement;
- © With micrometer driver in the left, right or center, could be composed for multi-axis stages;
- © With different platform size, fast delivery and cost effective.

Name Rule



Specifications

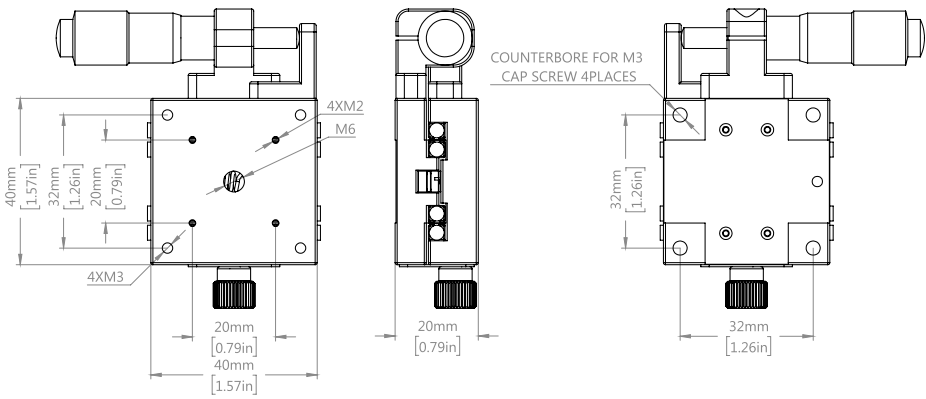
Model	SPYD 40L	SPYD 40R	SPYD 40ZL	SPYD 40ZR	SPYD 60L	SPYD 60R	SPYD 60ZL	SPYD 60ZR
travel range (mm)	13							
platform size(mm)	40×40				60×60			
thickness(mm)	20				20			
slide	cross roller type slide							
drive method	micrometer							
driver position	left	right	center/ left	center/ right	left	right	center/ left	center/ right
main material	aluminum alloy							
minimum step(mm)	0.01							
parrallelism (um)	<30							
deflection(")	<25							
maximum load(Kg)	3				5			
connection plate	OMLA01							
connection plate for Z axis	OMLA03B				OMLA04B			

Model	SPYD 65L	SPYD 65R	SPYD 65ZL	SPYD 65ZR	SPYD 80L	SPYD 80R	SPYD 80ZL	SPYD 80ZR
travel range(mm)	25							
platform size(mm)	65 × 65				80 × 80			
thickness(mm)	20							
slide	cross roller type slide							
drive method	micrometer							
driver postion	left	right	center/ left	center/ right	left	right	center/ left	center/ right
main material	aluminum alloy							
minimum step(mm)	0.01							
parallelism (um)	<30							
deflection(″)	<25							
maximum load(Kg)	5				7			
connection plate	/				OMLA02			
connection plate for Z axis	OMLA01B				OMLA05B			

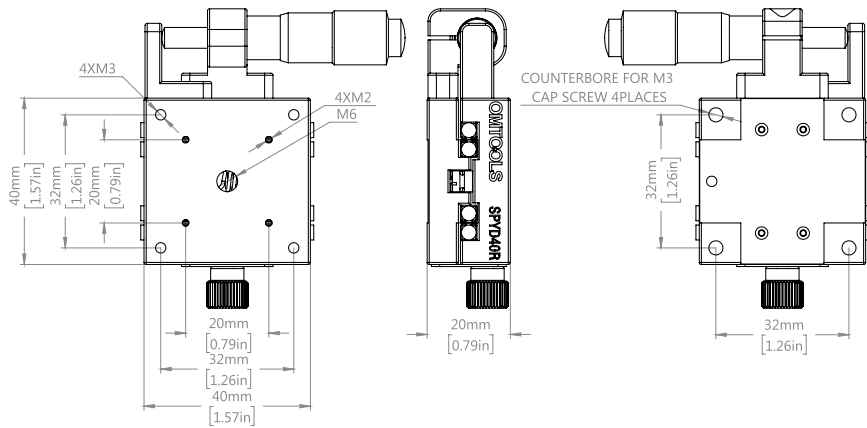
Model	SPYD 100L	SPYD 100R	SPYD 100ZL	SPYD 100ZR	SPYD 125L	SPYD 125R	SPYD 125ZL	SPYD 125ZR
travel range(mm)	25							
platform size(mm)	100 × 100				125 × 125			
thickness(mm)	20							
slide	cross roller type slide							
drive method	micrometer							
driver postion	left	right	center/ left	center/ right	left	right	center/ left	center/ right
main material	aluminum alloy							
minimum step(mm)	0.01							
sensitivity (um)	<2							
deflection(″)	<25							
maximum load(Kg)	15				20			
connection plate	OMLA03				OMLA04			
connection plate for Z axis	OMLA06B				OMLA07B			

► Drawings

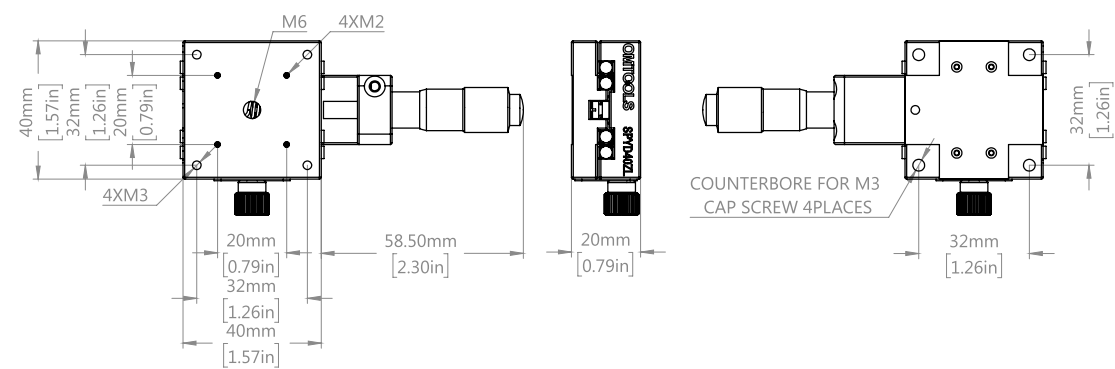
SPYD40L



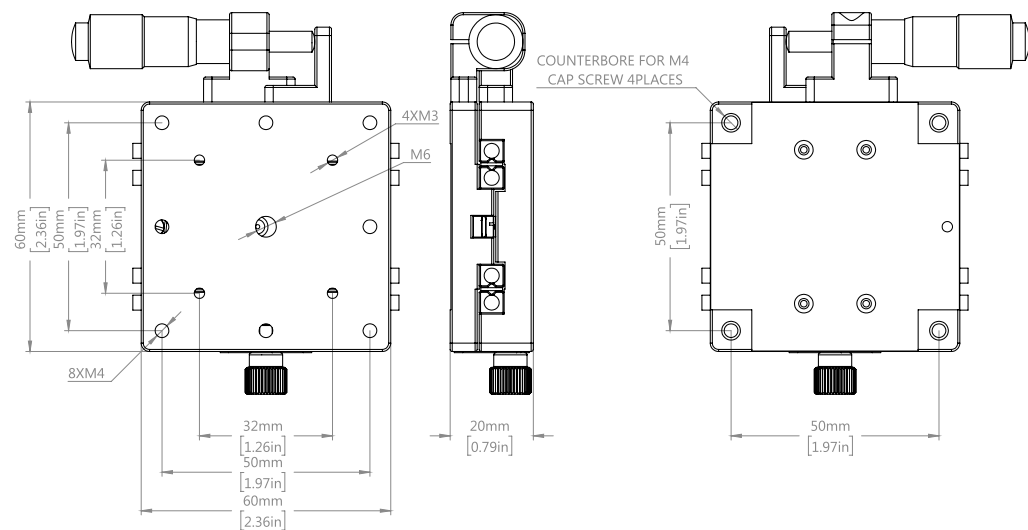
SPYD40R



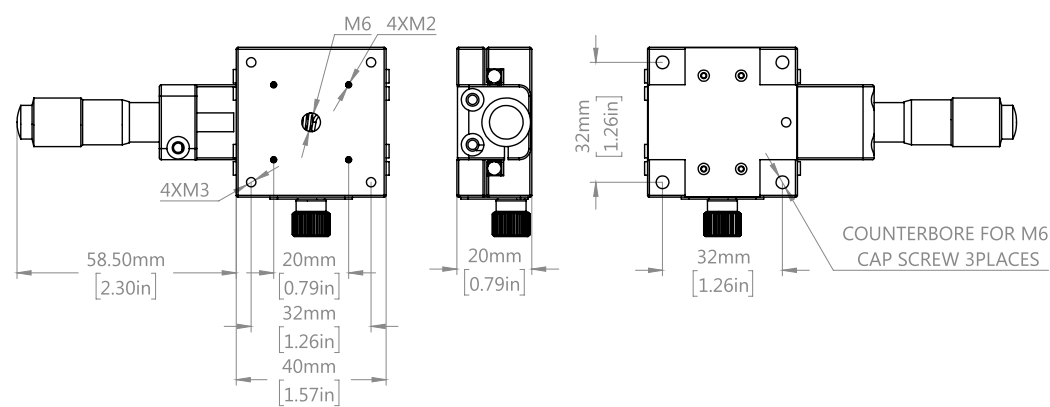
SPYD40ZL



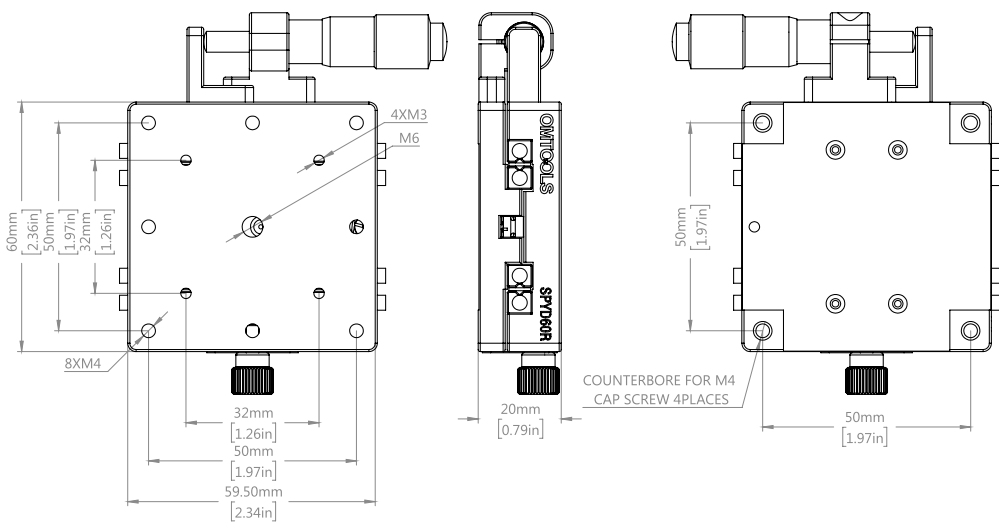
SPYD60L



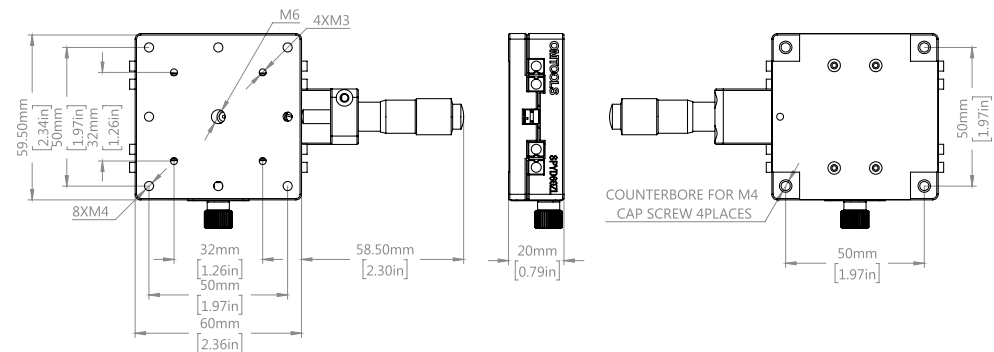
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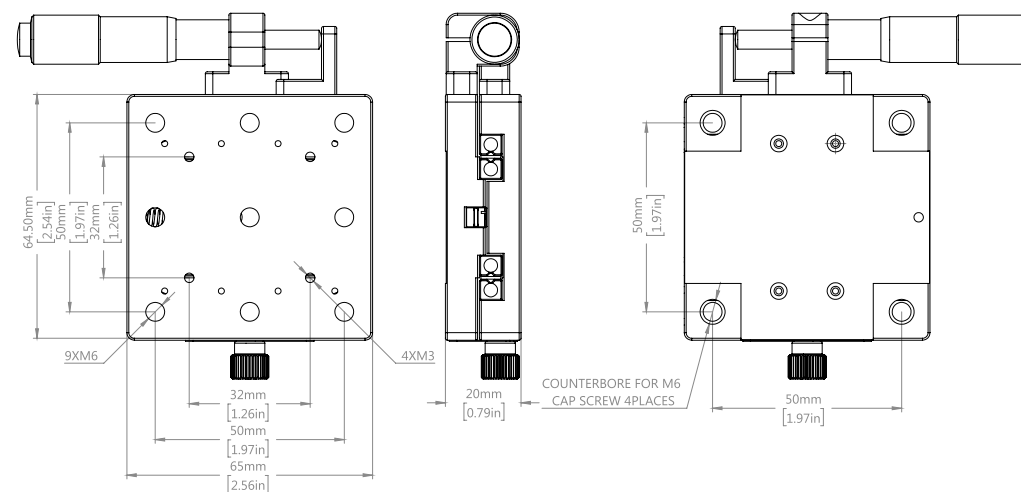
SPYD60R



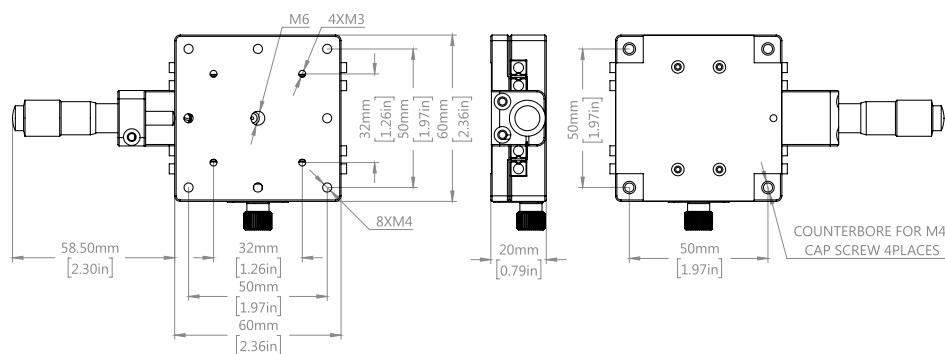
SPYD60ZL



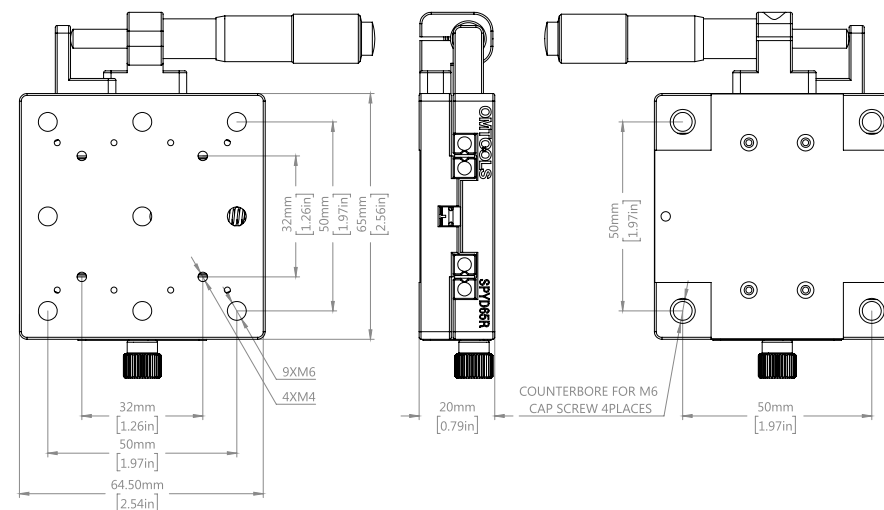
SPYD65L



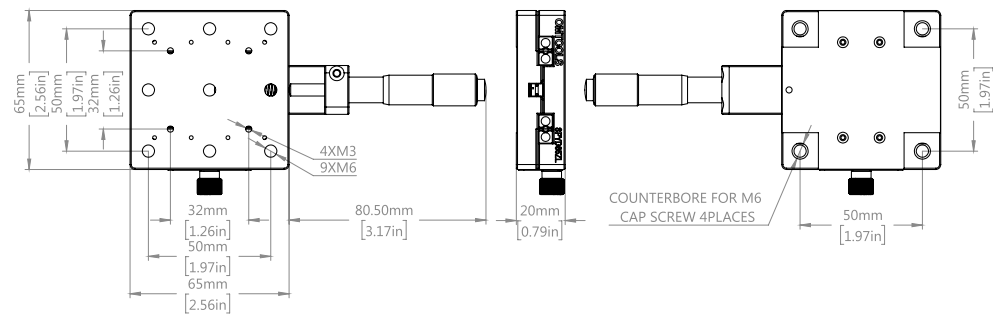
SPYD60ZR



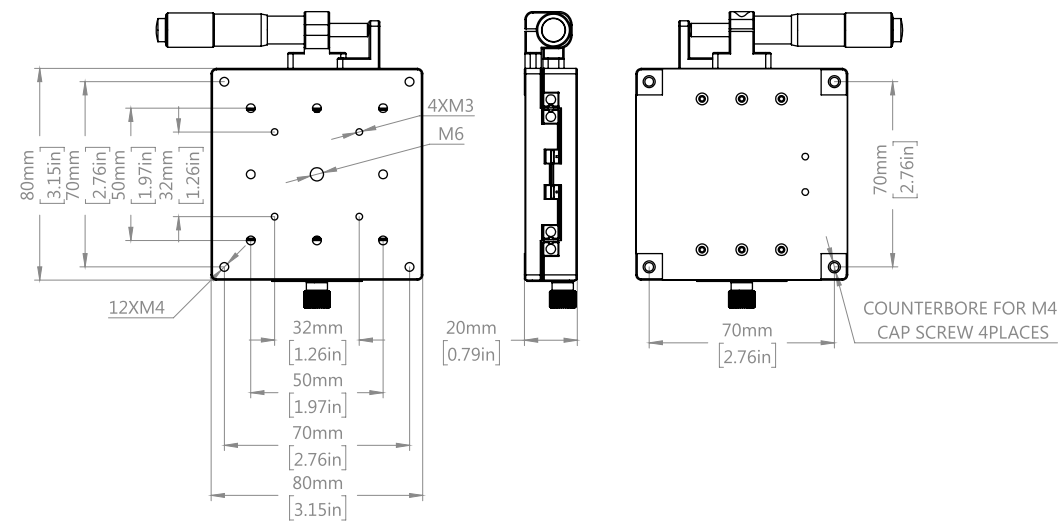
SPYD65R



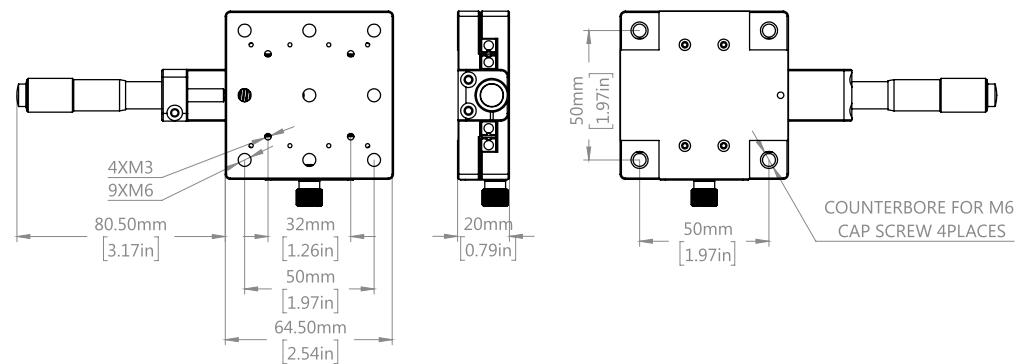
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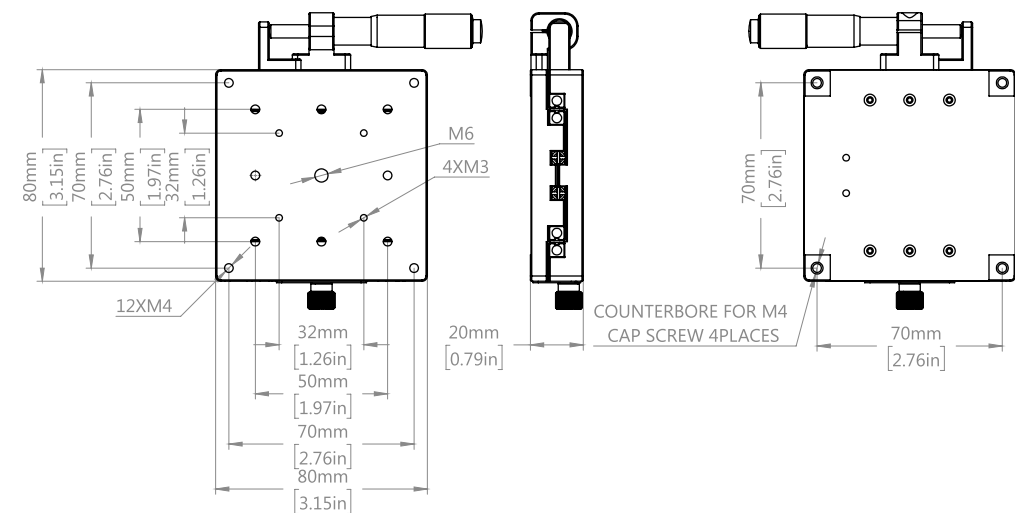
SPYD80L



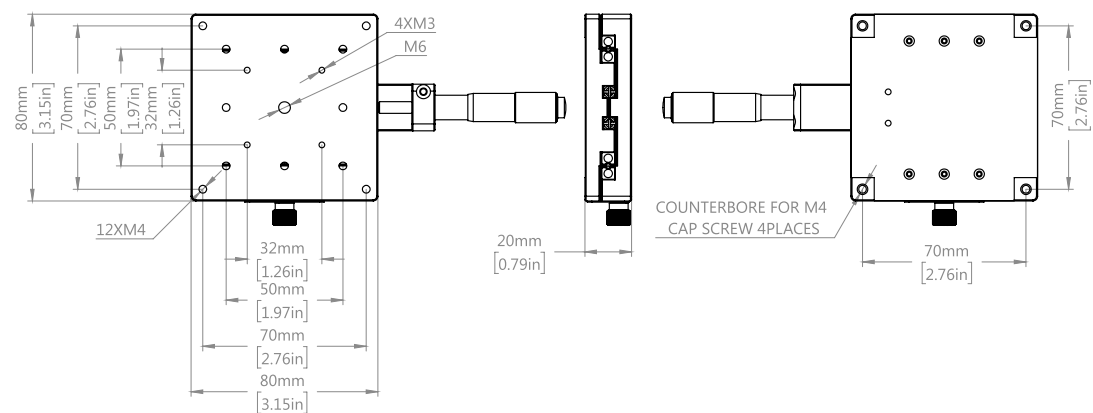
SPYD65ZR



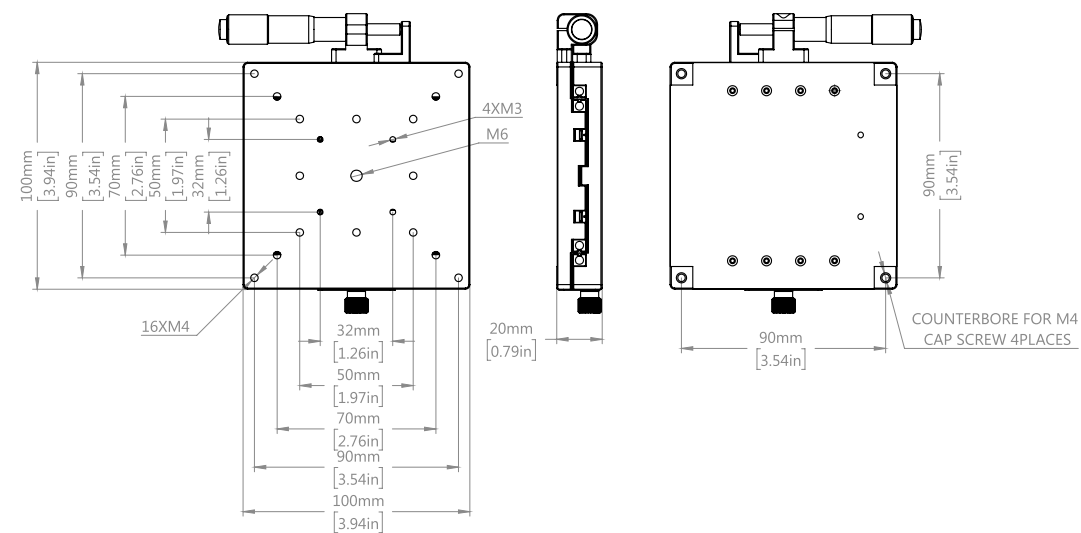
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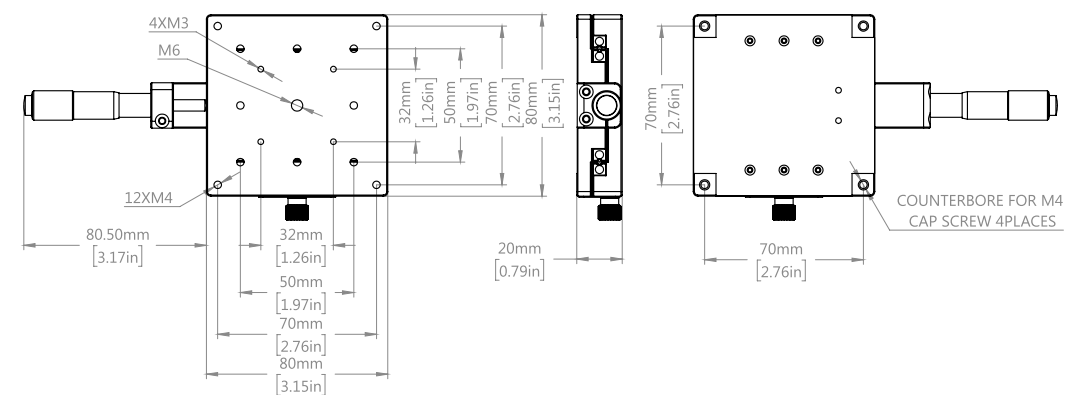
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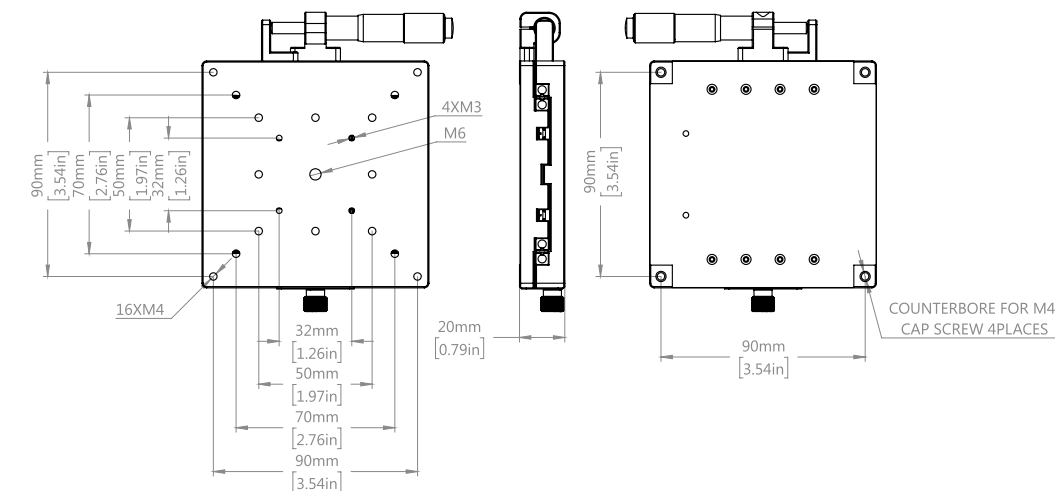
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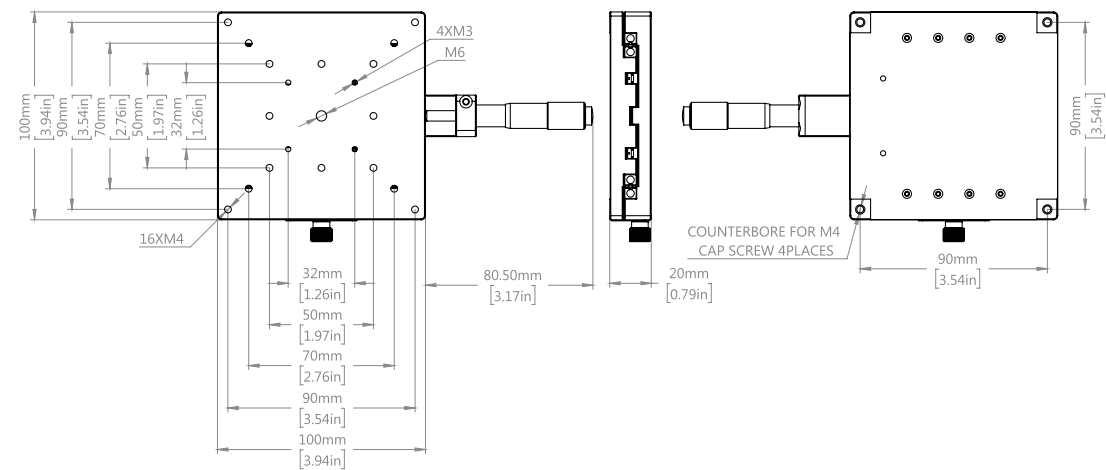
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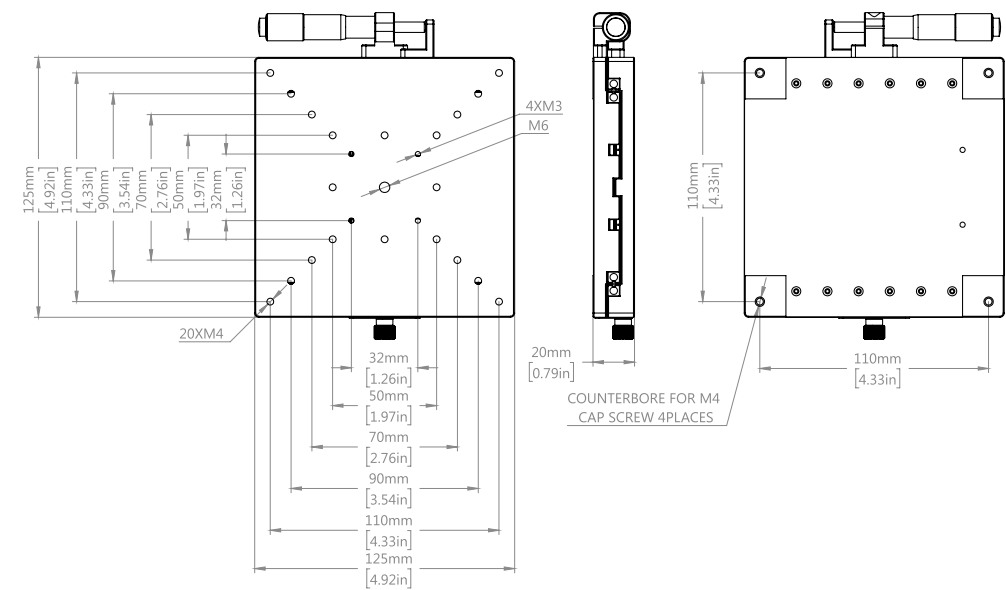
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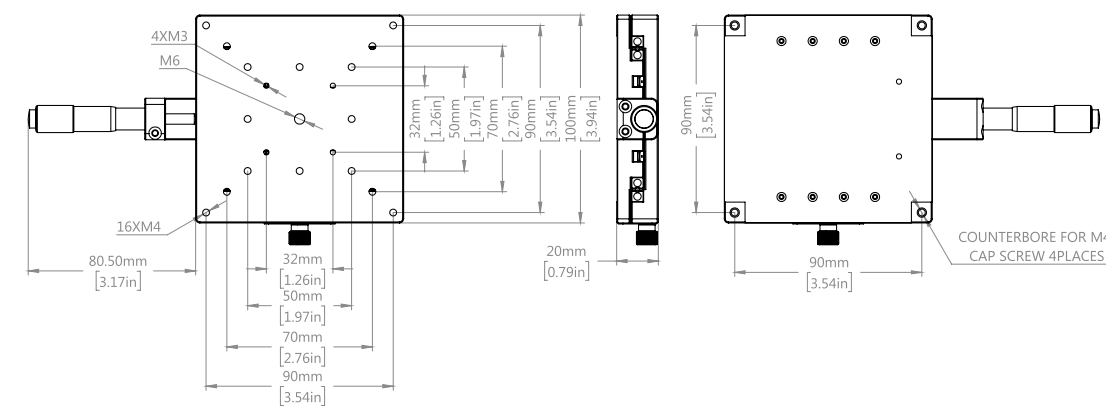
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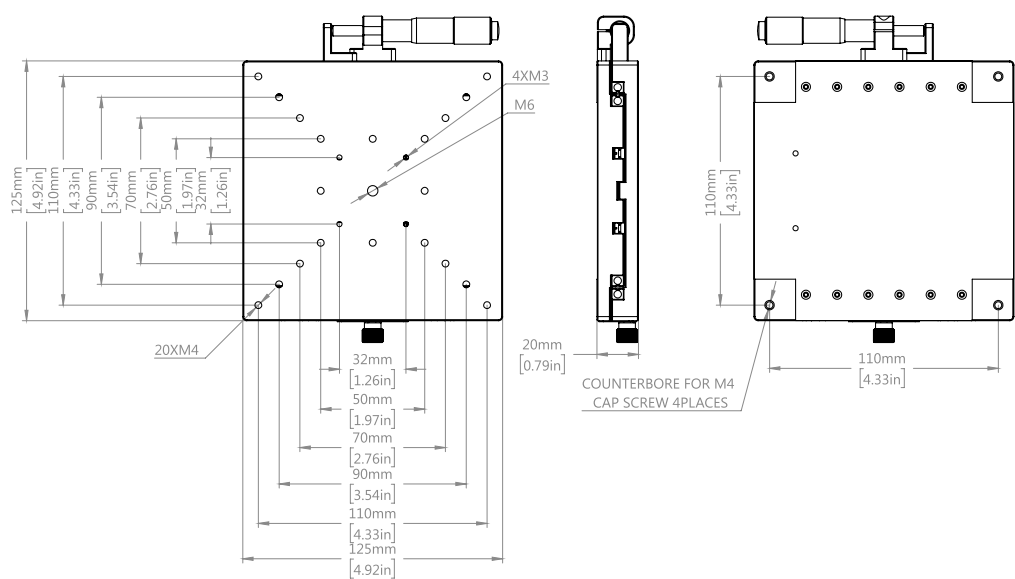
SPYD125L



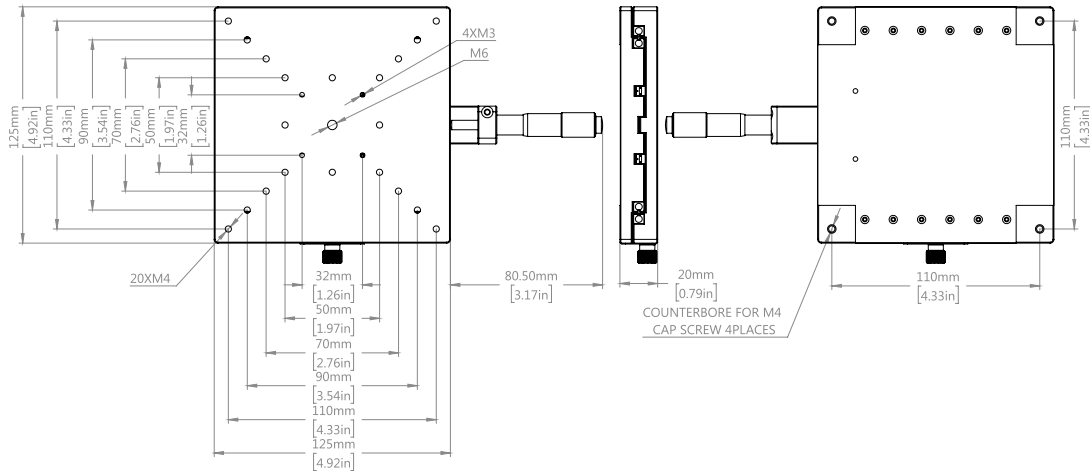
SPYD100ZR



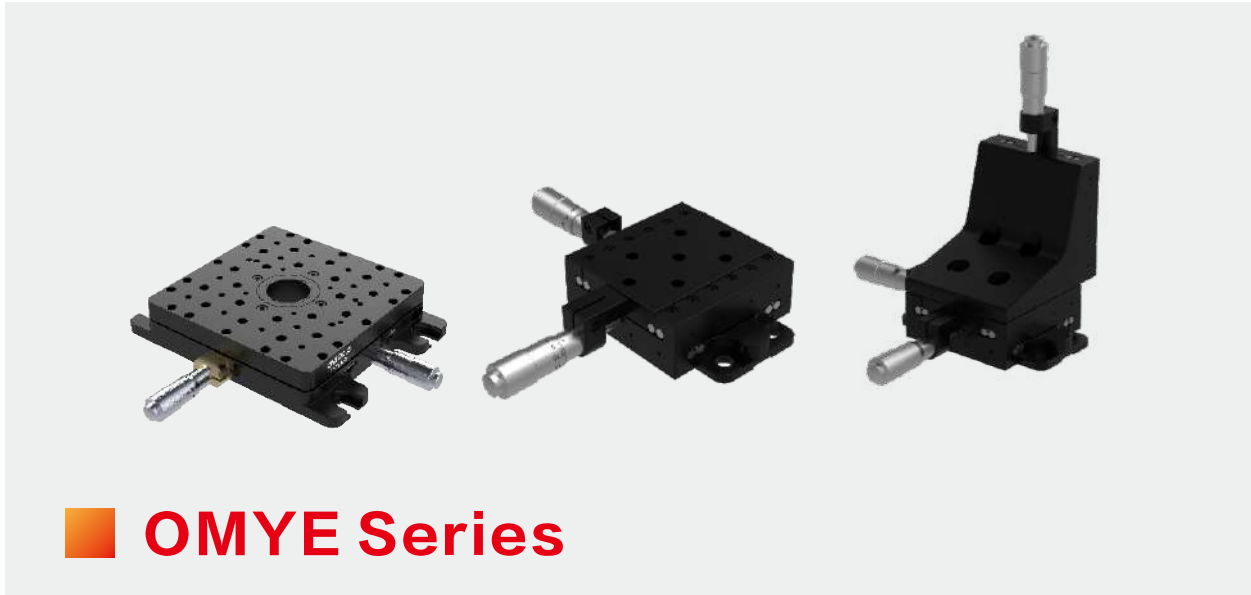
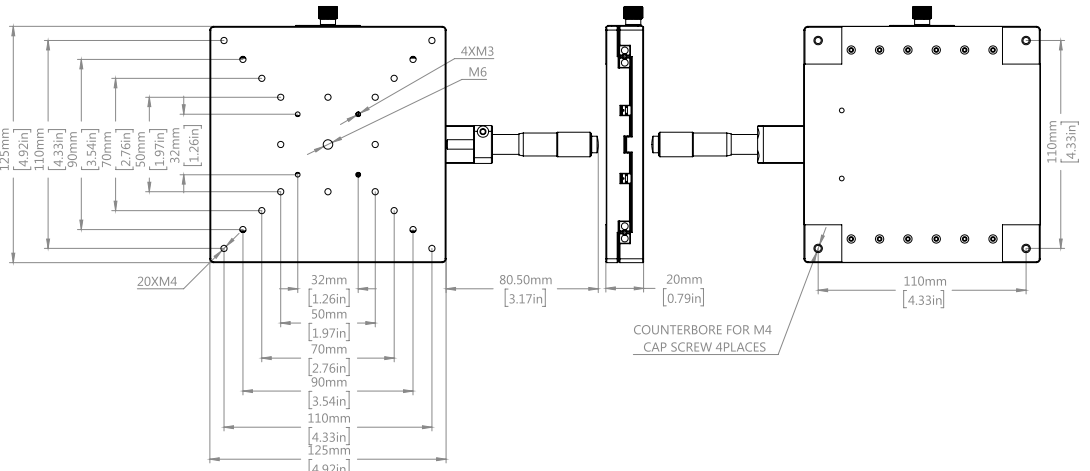
SPYD125R



SPYD125ZL



SPYD125ZR



► Guide

OMTOOLS OMYE series adopted micrometer driver and precision cross roller type slide, which is heavy load and with high sensitivity. They are very easy to be installed in any condition. Also there are springs inside could be automatic reset for no return difference motion. With a deviation of less than 150μrad, this series of stage are in very good performance and very suitable for precision reaserch and measurement.

► Features

- ◎ Material: 6061T4 aluminum alloy;
- ◎ Heavy load, high sensitivity.

► Specifications

Model	OMYE62A	OMYE62B		OMYE62C		
Axis	X	X	Y	X	Y	Z
travel range(mm)	13					
horizontal load(N)	67					
vertical load(N)	22					
angle deviation(urad)	<150					
drive method	micrometer					
main material	6061T4 aluminum alloy					



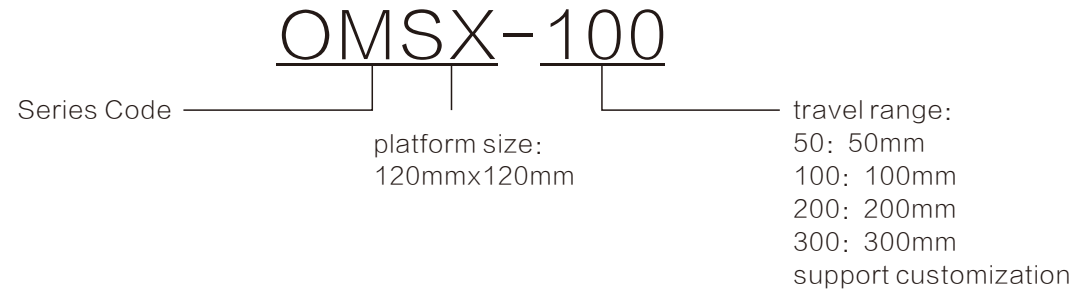
Guide

OMTOOLS newly developed the OMSX series with screen in midium size and miduim travel range, is a very convenient stage for research and measurement. Adopted with aluminum alloy and precision grinding lead screw, as well as OMTOOLS' linear slide and precision display scale, this series could be used in more complicated condition, and also cost effective, which is a very good choice for precision measurement.

Features

- © U type bottom plate, with anodic oxidation;
- © precision grinding lead screw;
- © high straightness and parallelism;
- © with graduated scale knob for easy adjustment;
- © with display screen to show motion status in real time.

Name Rule

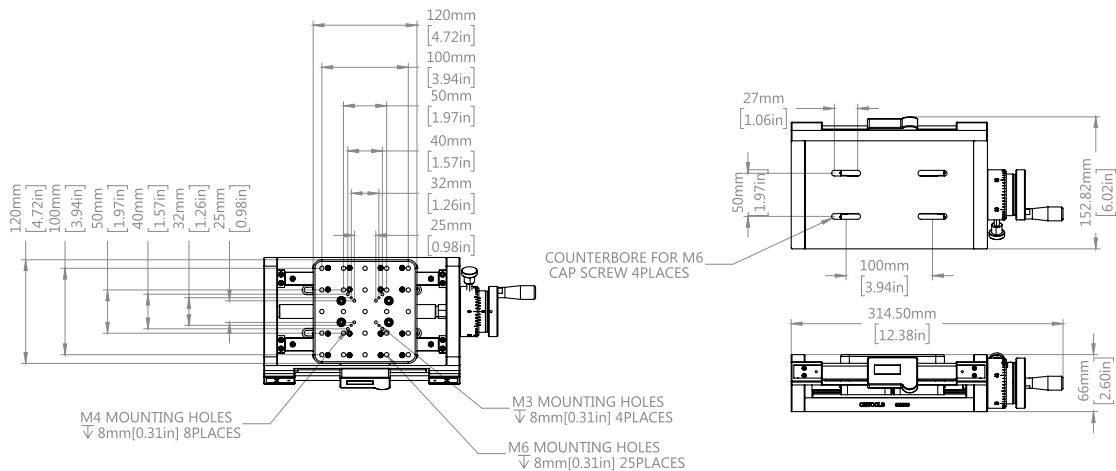


specifications

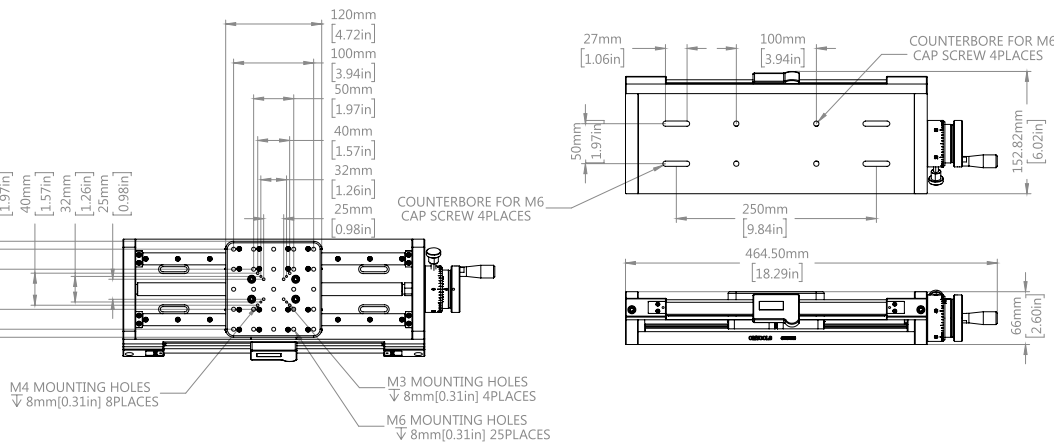
Model		OMSX50	OMSX100	OMSX200	OMSX300
machanical specifications	platform size(mm)	120x120			
	travel range(mm)	50	100	200	300
	thread screw pitch (mm)	3			
	slide	block slide			
	main material	aluminum alloy			
	weight (Kg)	4.4	4.7	5.6	6.5
accuracy	straightness (um)	30	35	40	45
support torque force	pitching (N.m)	7.8			
	rotary force (N.m)	5.8			
torque rigidity	pitching ("/N.cm)	0.25			
	rotary ("/N.cm)	0.5			
straightness (um)		50	55	60	65
load	horizontal load (Kg)	10			

► Drawings

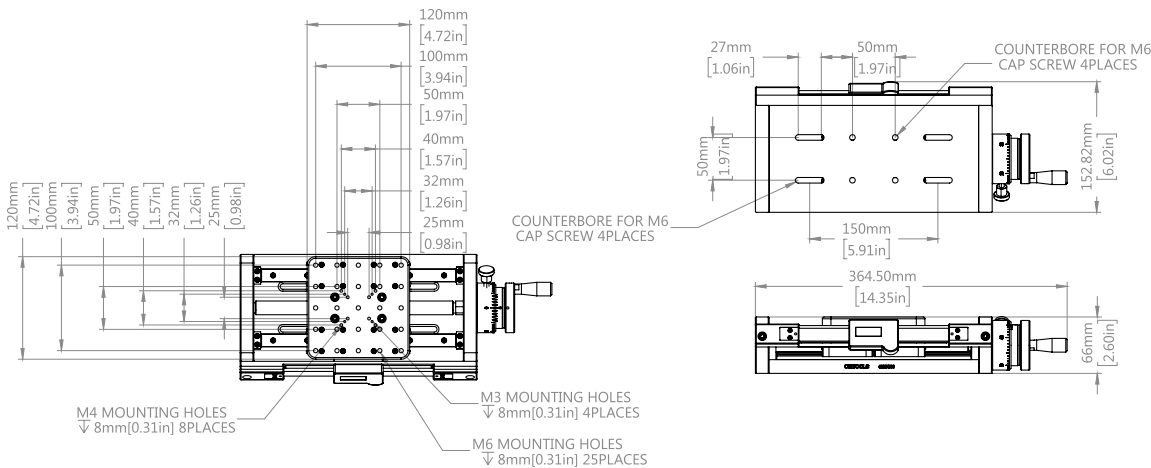
OMSX50



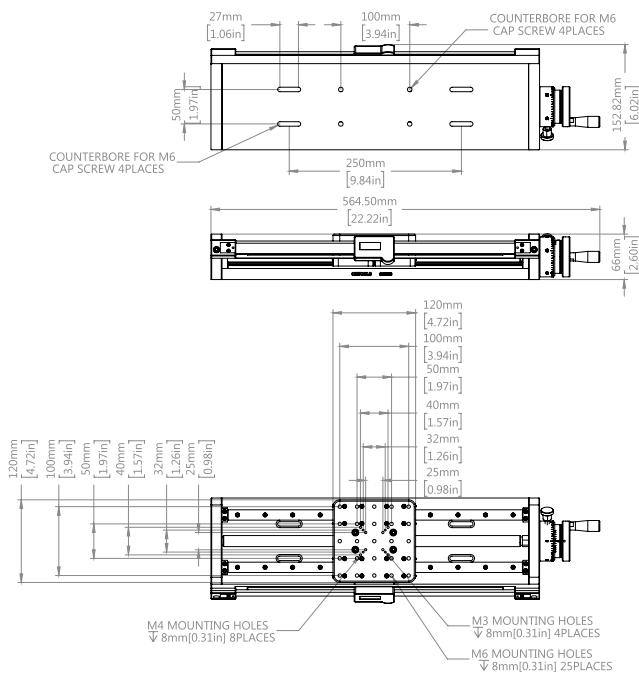
OMSX200



OMSX100



OMSX300





► Guide

OMTOOLS SPYZ series is high precision stage series, which adopted aluminum alloy and with smal size and high sensitivity, adding cross roller slide and micrometer or screw thread pair, makes it's minimum step less than 2um. With different size for option, this series could be composed to multi-axis stages, and even as stage for Z axis, it is still heavy load.

► Features

- ◎ With cross roller type slide, heavy load, high sensitivity;
- ◎ With high precision motion suitable for precision measurement;
- ◎ With micrometer and screw thread pair for choice, and left/right for choice, suitable for Z axis motion and combination as multi-axis stage;
- ◎ With different size for choice, fast delivery, cost effective.

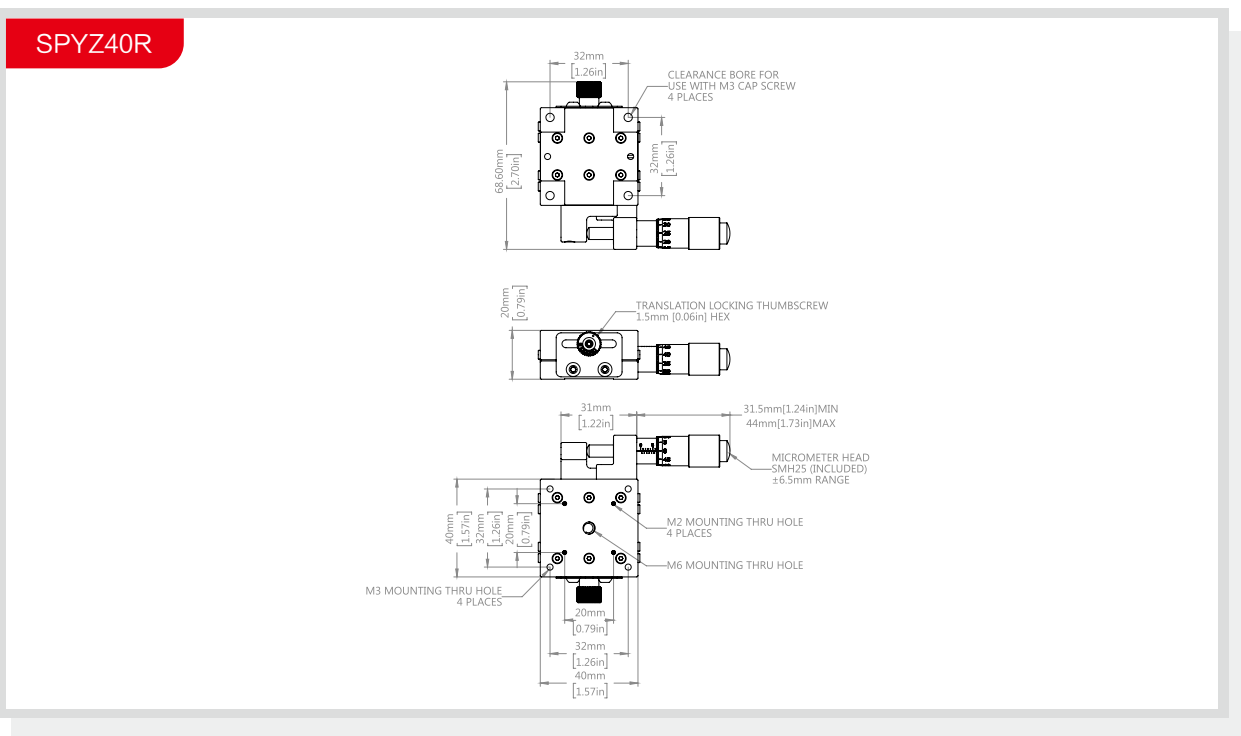
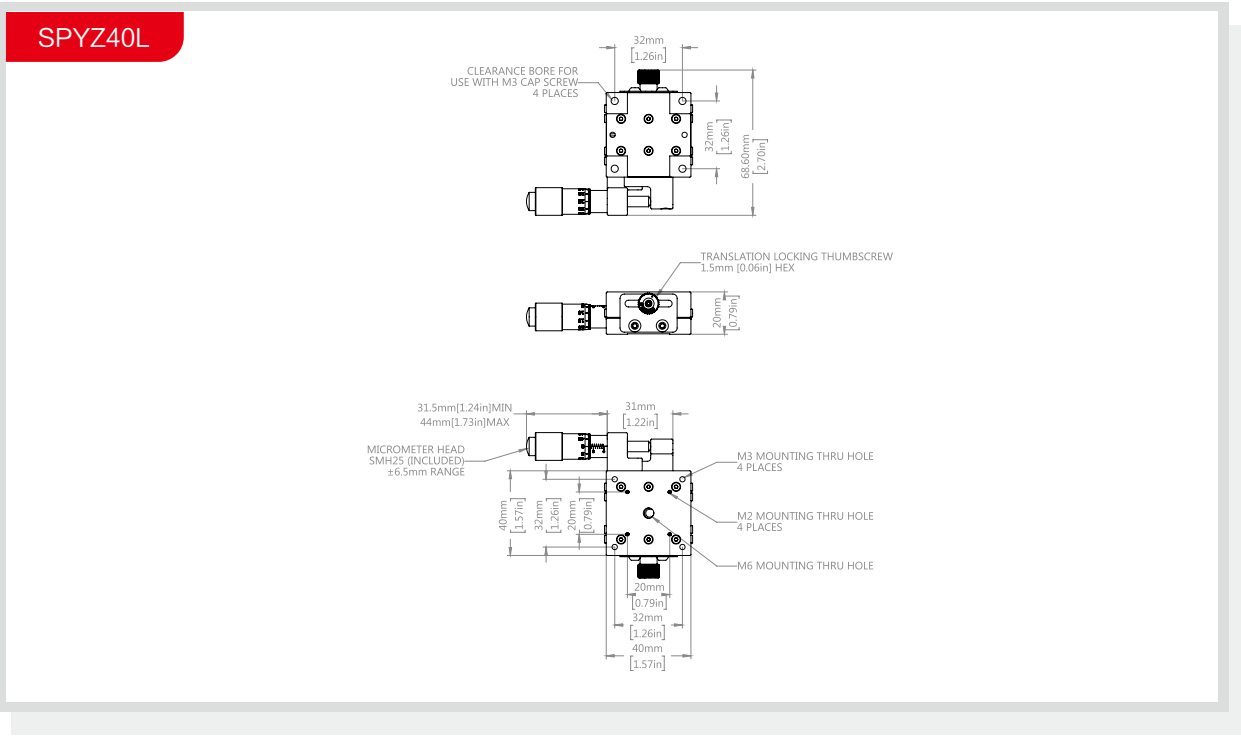
► Specifications

Model	SPYZ40L	SPYZ40R	SPYZ60L	SPYZ60R	SPYZ65L	SPYZ65R
travel range(mm)	13				25	
platform size(mm)	40 × 40		60 × 60		65 × 65	
thickness(mm)	20					
slide	cross roller slide					
drive method	micrometer					
driver position	left	right	left	right	left	right
main material	aluminum alloy					
minimum step(mm)	0.01					
straightness(um)	<30					
deviation(")	<25					
horizontal load(Kg)	3		5			
vertical load(Kg)	2.1		3.5			
weight(Kg)	0.13		0.22		0.25	
connection plate	OMLA01				/	
connection plate for Z axis	OMLA03B		OMLA04B		OMLA01B	

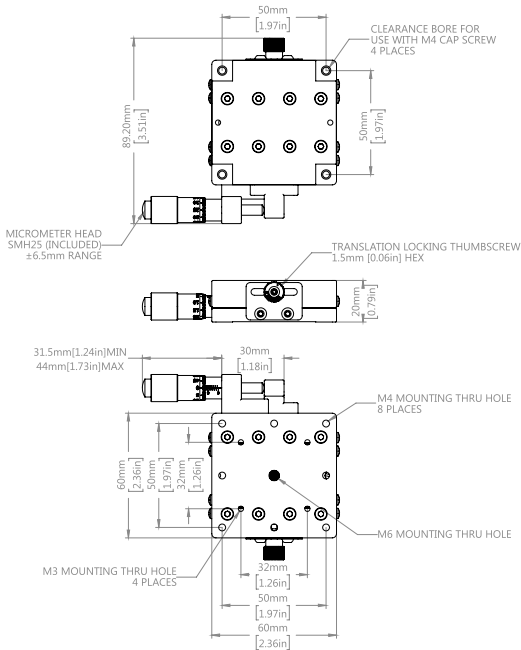
► Specifications

Model	SPYZ80L	SPYZ80R	SPYZ100L	SPYZ100R	SPYZ125L	SPYZ125R
travel range(mm)	25					
platform size(mm)	80 × 80		100 × 100		125 × 125	
thickness(mm)	20					
slide	cross roller slide					
drive method	micrometer					
driver position	left	right	left	right	left	right
main material	aluminum alloy					
minimum step(mm)	0.01					
straightness(um)	<30					
deviation(″)	<25					
horizontal load(Kg)	7		15		20	
vertical load(Kg)	4.9		10.5		14	
weight(Kg)	0.5		0.7		0.95	
connection plate	OMLA02		OMLA03		OMLA04	
connection plate for Z axis	OMLA05B		OMLA06B		OMLA07B	

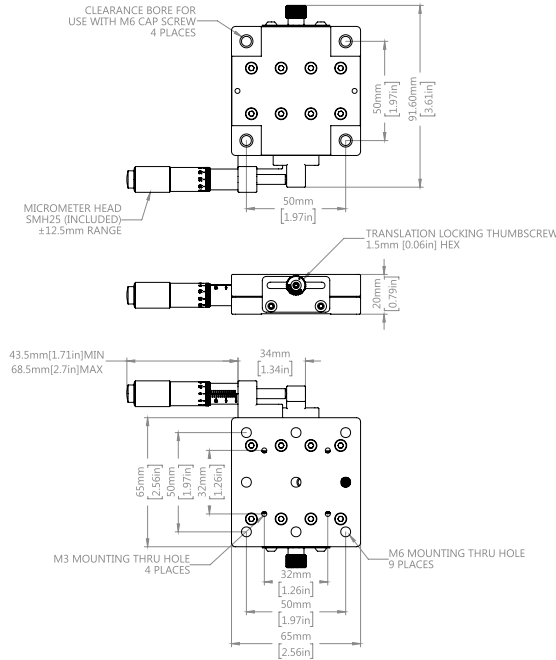
► Drawings



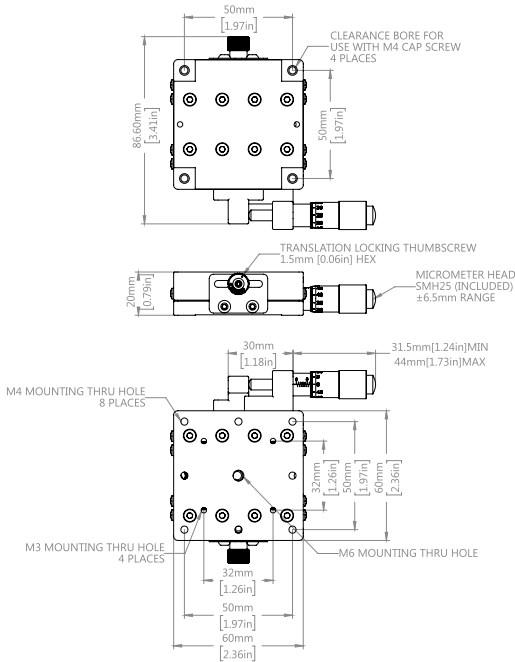
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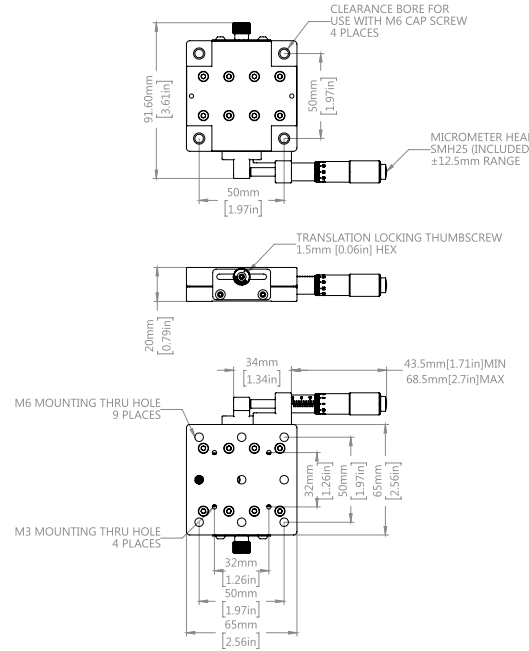
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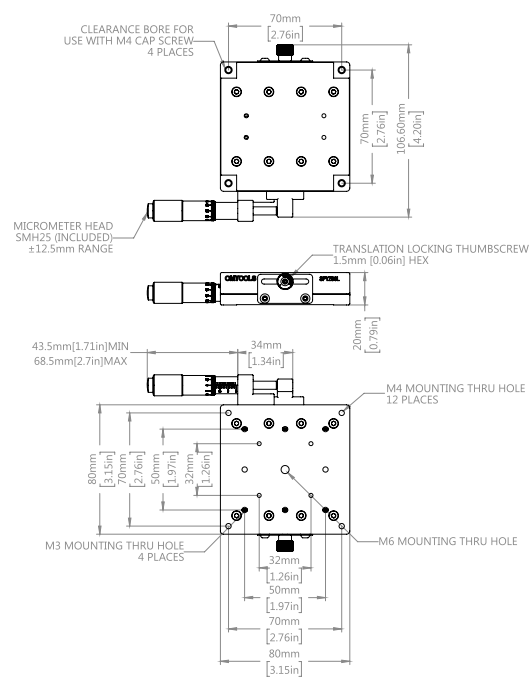
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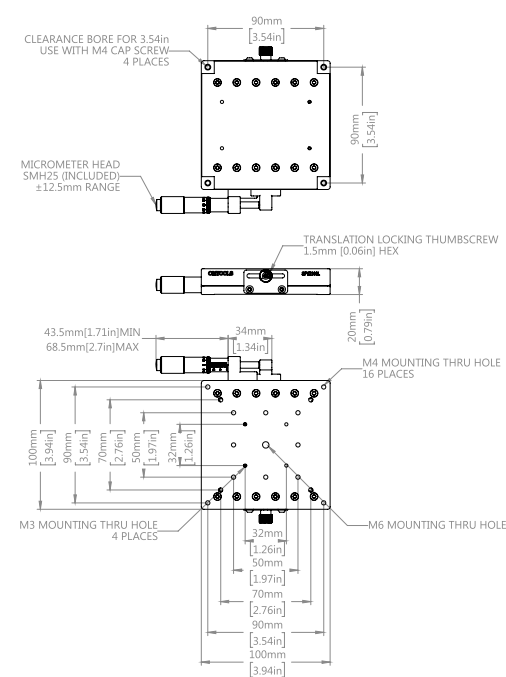
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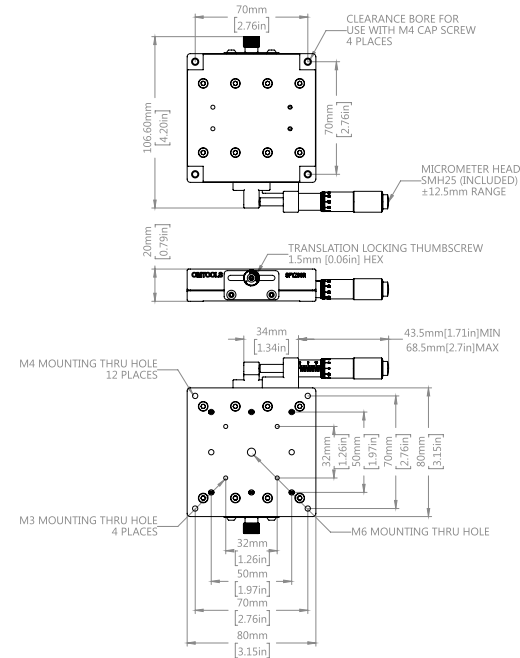
SPYZ80L



SPYZ100L



SPYZ80R



SPYZ100R

