



SON LONG

CATALOGUE

XYZ STAGE



SON LONG VIETNAM INVESTMENT CO., LTD

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» **SON LONG VIETNAM INVESTMENT CO., LTD**

ABOUT OUR COMPANY

Established in 2019, Son Long Vietnam Investment Co., Ltd is proud to be one of the leading companies in Vietnam providing automation solutions to domestic manufacturers and investors.

To build the business culture based on the motto "Customer - centric", all activities of the company are directed towards the highest goal of satisfying the need of customers by high - quality products and professional services.

What we do:

- Son Long is the exclusive agent of GAOJ-K (Taiwan) and SFA (Son Long) with slide rails, screw shafts, single-axis robots.
- Supplying planetary gearboxes of FHT (Taiwan) and SFA brand.
- OEM of standard components with SFA brand: spare parts for aluminum profile, XYZ stages, pulleys, timing belts, etc.
- OEM of motor drive rollers - now widely used in AGV systems and conveyor belts in factories. Supplying AGV wheels with SFA brand.
- OEM of Servo Motor, HMI, PLC, Vision cable products for some brands: Mitsubishi, Delta, Panasonic, Yaskawa, Siemens, Datalogics, Cognex, Basler, Hikvision, Sick, Leuze,...
- Distributing other products of THK, HIWIN, TBI, IKO, PMI...

Our commitment:

1. Product quality comes first.
2. Competitive price.
3. Fast delivery and large stock.
4. 24/7 technical support.

We would like to thank all our valued customers and business partners for their cooperation.

We firmly believe that Son Long will continue to be the customer's first choice for sales and service in automation industry.



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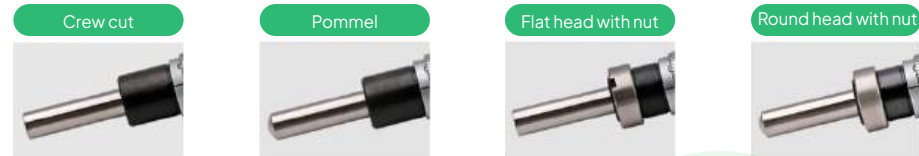
Differential head

The differential head, also known as the micrometer head, is a measuring instrument used to generate displacement and indicate displacement by using the principle of spiral pairs. It is composed of an immovable measuring rod, a sleeve, a micrometer sleeve and a fine-tuning knob. The rod is moved along the axis when the micrometer sleeve or trimmer is rotated.

Material :Alloy steel

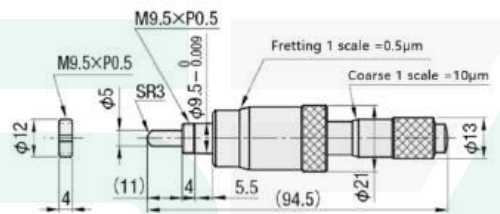
Hardness :60HBC above

Surface treatment: electroplated hard chromium



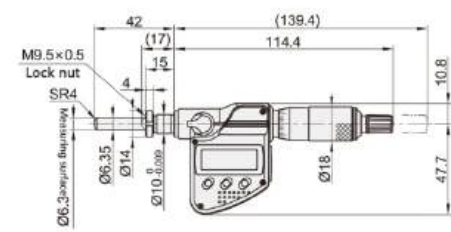
Model number			Material		Surface treatment	Resolution	Displacement tolerance	Mounting size/handle diameter	The amount of movement the knob rotates one turn
Model number	Journey	Type	Principal axis	Main body					
SMC-XX SMD-XX SME-XX SMF-XX	6.5	A/B/C/D	Stainless steel	Free cutting steel	Chrome plating	0.01mm	±5μm	φ 6mm / φ 9.3mm	0.5mm
	13							φ 9.5mm / φ 13mm	
	25							φ 12mm / φ 18mm	
	50								

Coarse trimmer head



Model number	Journey	Minimum read (Coarse)	Minimum read (Fine adjustment)	Mounting diameter	Weight	The amount of movement the knob rotates one turn
SMFC13-XX	Coarse 13mm Fine adjustment 0.2mm	0.01mm	0.0005mm	φ 9.5mm	0.1Kg	0.5mm

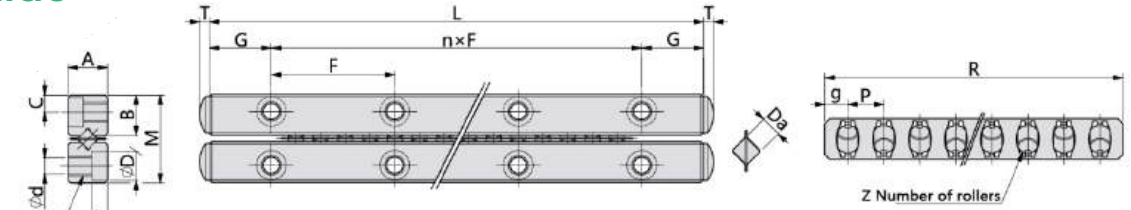
Number of microdivisions



Model number	Journey	Minimum reading	Precision	Mounting diameter	Zero adjustment	Data output port	Electronic reading	Ratchet measures force	The amount of movement the knob rotates one turn
SMSC25-XX	25mm	0.001mm	±0.002mm	φ 10mm	Zero position adjustment	Yes	Yes	Yes	0.5mm

*Note: -XX = Custom design

Cross roller guide



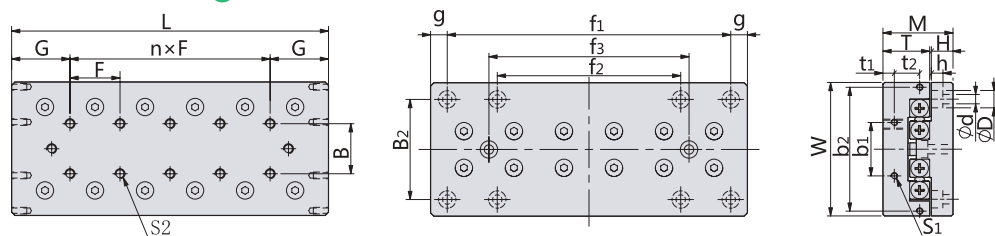
Unit: mm

Model number		Combined size			Mounting dimension									Cage size					Rated load (per roller)	
		M	A	L	n x F	G	B	C	S	d	D	h	T	Da	R	g	p	Z	C(KN)	CO(KN)
SCV1020-XX	12			20	1x10										14			5		
SCV1030-XX	22			30	2x10										19			7		
SCV1040-XX	27			40	3x10										26.5			10		
SCV1050-XX	32	8.5	4	50	4x10	5	3.9	1.8	M2	1.65	3	1.4	0.8	1.5	34	2.0	2.5	13	0.098	0.069
SCV1060-XX	37			60	5x10										41.5			16		
SCV1070-XX	42			70	6x10										49			19		
SCV1080-XX	52			80	7x10										54			21		
SCV2030-XX	18			30	1x15										21			5		
SCV2045-XX	24			45	2x15										33			8		
SCV2060-XX	30			60	3x15										45			11		
SCV2075-XX	44	12	6	75	4x15	7.5	5.5	2.5	M3	2.5	4.5	2	1.5	2	53	2.5	4	13	0.176	0.127
SCV2090-XX	50			90	5x15										65			16		
SCV20105-XX	64			105	6x15										73			18		
SCV20120-XX	70			120	7x15										85			21		
SCV20135-XX	84			135	8x15										93			23		
SCV3050-XX	28			50	1x25										36			7		
SCV3075-XX	48			75	2x25										51			10		
SCV30100-XX	58			100	3x25										71			14		
SCV30125-XX	78	18	8	125	4x25	12.5	8.3	3.5	M4	3.4	6	3.1	2	3	86	3	5	17	0.363	0.275
SCV30150-XX	88			150	5x25										106			21		
SCV30175-XX	108			175	6x25										121			24		
SCV130200-XX	118			200	7x25										141			28		
SCV30225-XX	138			225	8x25										156			32		
SCV4080-XX	58			80	1x40										51			7		
SCV40120-XX	82			120	2x40										79			11		
SCV40160-XX	106			160	3x40										107			15		
SCV40200-XX	130	22	11	200	4x40	20	10.2	4.5	M5	4.3	8	4.2	2	4	135	4.5	7	19	0.764	0.637
SCV40240-XX	154			240	5x40										163			23		
SCV40280-XX	178			280	6x40										191			27		
SCV40320-XX	202			320	7x40										219			31		
SCV60100-XX	44			100	1x50										87			7		
SCV60150-XX	96			150	2x50										111			9		
SCV60200-XX	148	30	15	200	3x50	25	14	6	M6	5.2	9.5	5.2	3	6	135	7.5	12	11	2.292	2.112
SCV60250-XX	176			250	4x50										171			14		
SCV60300-XX	204			300	5x50										207			17		
SCV60350-XX	232			350	6x50										243			20		

*Note: -XX = Custom design



SRU-XX/SRSU-XX Series Stages



Precautions:

- ① Low Impact Resistance: Cross roller stages have weak impact resistance. Dropping or applying excessive force may cause sliding abnormalities. Please exercise sufficient caution during use.
- ② End Screw Purpose: Rail end screws only secure the retainer. Do not use them as limit stops. Design dedicated limiters if needed.
- ③ Preventing Retainer Drift: When operating at partial stroke or high speed, sudden stops may cause retainer drift due to inertia. It is recommended to perform several full-stroke cycles during initial setup or after extended idle periods to center the retainer on the guide rail.
- ④ Lubrication Schedule: Apply lubricant appropriately based on actual operating conditions and environment, Standard interval: 6 months or 1,000 km. Shorten to 3 months for high travel. If contamination occurs, relubricate immediately.

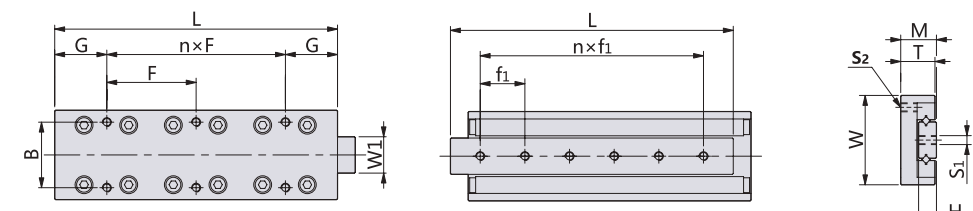
Unit: mm

Model number		Maximum stroke	Main size			Table size											Base surface dimension						
			W	M	L	B	n xF	G	S	b1	b2	t1	t2	s1	T	H	dxDxh	B2	f1	f2	f3	g	
SRU-XX (Aluminum Alloy) SRSU-XX (SUS440C)	1025	12			25		-												18	-	-		
	1035	18			35		1x10												28	-	-		
	1045	35			45		2x10												38	-	-		
	1055	32	30	17	55	10	3x10	12.5	M2	12	-	2.5	-	M2	11	5.5	2.5x4.1x2.5	22	48	28	-	3.5	
	1065	40			65		4x10												58	38	-		
	1075	45			75		5x10												68	48	-		
	1085	50			85		6x10												78	58	-		
	2035	18			35		-												25	-	-		
	2050	30			50		1x15												40	-	-		
	2065	40			65		2x15												55	-	-		
	2080	50	40	21	80	15	3x15	17.5	M3	16	-	3.4	-	M2	14	6.5	3.5x6x3.5	30	70	40	-	5	
	2095	60			95		4x15												85	55	-		
	20110	70			110		5x15												100	70	-		
	20125	80			125		6x15												115	85	-		
	3055	30			55		-												35	-	-		
	3080	45			80		1x25												60	-	-		
	30105	60			105		2x25												85	-	-		
	30130	75	60	28	130	25	3x25	27.5	M4	40	-	5.5	-	M3	19	9	4.5x7.5x5	40	110	-	-	10	
	30155	90			155		4x25												135	-	85		
	30180	105			180		5x25												160	-	110		
	30205	130			205		6x25												185	85	135		
	4085	50			85		-												65	-	-	10	
	40125	75			125		1x40												80	-	-		
	40165	105	80	35	165	40	2x40	40	M5	55	-	6.5	-	M3	24	10.5	5.5x9.5x6	60	120	-	-	22.5	
	40205	135			205		3x40												160	80	-		
	40245	155			245		4x40												200	120	-		
	60110	60			110		-												90	-	-		
	60160	95			160		1x50												140	-	-		
	60210	130	100	45	210	50	2x50	55	M6	60	92	8	15	M4	31	13	7x11x7	60	190	-	90	10	
	60260	165			260		3x50												240	-	140		
	60310	200			310		4x50												290	-	190		

SRU-XX
(Aluminum Alloy)
SRSU-XX
(SUS440C)

*Note: -XX = Custom design

SRT-XX/SRPT-XX Series Stages (Threaded Holes on Base Plate)

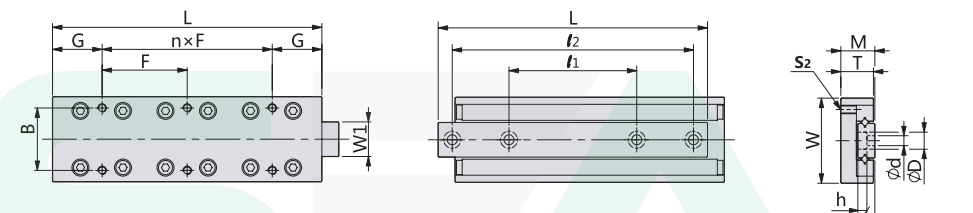


Unit: mm

Model number		Maximum stroke	Main size			Table size								Base surface dimension		
			W	M	L	B	F	nxF	G	S	T	H	W1	S1	f1	n xF
SRT-XX (SUS440C) SRPT-XX (Aluminum Alloy)	1025	12			25		18	1x18	3.5						7.5	2x7.5
	1035	18			35		28	1x28								2x10
	1045	25			45		20	1x20								3x10
	1055	32	20	8	55	14	30	1x30	12.5	M2.5	7.5	4	6.6	M2.5X0.45	10	4x40
	1065	40			65		20	2x20								5x10
	1075	45			75		30	1x30	22.5							6x10
	1085	50			85		30	2x30	12.5							7x10
	2035	18			35		28	1x28	3.5						20	1x20
	2050	30			50		43	1x43								2x15
	2065	40			65		30	1x30								3x15
	2080	50	30	12	80	22	45	1x45	17.5	M3	11.5	6	12	M3	15	4x15
	2095	60			95		30	2x30								5x15
	20110	70			110		45	1x45	32.5							6x15
	20125	80			125		45	2x45	17.5							7x15
	3055	30			55		40	1x40	7.5						35	1x35
	3080	45			80		65	1x65								2x25
	30105	60	40	16	105	30	50	1x50		M4	15.5	8	16	M4	25	3x25
	30130	75			130		75	1x75	27.5							4x45
30155	90			155		50	2x50									5x25

SRT-XX
(SUS440C)
SRPT-XX
(Aluminum Alloy)

SRT-A-XX/SRPT-A-XX Series Stages (Counterbored Holes on Base Plate)



Unit: mm

SRPT-A-XX: Aluminum Alloy



Unit: mm

Model number	Maximum stroke	Main size			Table size								Base surface dimension		
		W	M	L	B	F	nxF	G	S	T	H	W1	dxDxh	I2	I2
SRT1025-A-XX	12			35		18	1x18	3.5						-	18
SRT1035-A-XX	18			35		28	1x28	3.5						-	25
SRT1045-A-XX	25			45		20	1x20	12.5						-	38
SRT1055-A-XX	32	20	8	55	14	30	1x30	12.5	M2.5	7.5	4	6.5	2.5x4.1x2.2	29	48
SRT1065-A-XX	40			65		20	2x20	12.5						31	66
SRT1075-A-XX	45			75		30	1x30	22.5						35	65
SRT2085-A-XX	50			85		30	2x30	12.5						40	75
SRT2035-A-XX	18			35		28	1x28	3.5						-	25
SRT2050-A-XX	30			50		43	1x43	3.5						-	35
SRT2065-A-XX	40			65		30	1x30	17.5						33	55
SRT2080-A-XX	50	30	12	80	22	45	1x45	17.5	M3	11.5	6	12	3.5x6x3.2	40	70
SRT2095-A-XX	60			95		30	2x30	17.5						45	85
SRT20110-A-XX	70			110		45	1x45	32.5						50	95
SRT20125-A-XX	80			125		45	2x45	17.5						55	110
SRT3055-A-XX	30			55		40	1x40	7.5						-	40
SRT3080-A-XX	45			80		65	1x65							43	68
SRT30105-A-XX	60	40	16	105	30	50	1x50		M4	15.5	8	16	4.5x7.5x4.2	55	90
SRT30130-A-XX	75			130		75	1x75	27.5						65	115
SRT30155-A-XX	90			155		50	2x50							95	-

*Note: -XX = Custom design



Crossed Roller Guide Linear Stage

SPA-XX/SPB-XX High - Precision Crossed Roller Guide Linear Stage



Model		Material	Stage Surface (mm)	Thickness (mm)		Full Stroke (mm)	Load Capacity (kgf)		Weight (kg)	
X axis	XY axis			X axis	XY axis		Horizontal	Vertical	X axis	XY axis
SPA20-XX	SPB20-XX	Aluminum Alloy Black Anodization	20x20	15	30	±3.2	1	0.5	0.03	0.06
SPA25-XX	SPB25-XX		25x25						0.04	0.08
SPA40-XX	SPB40-XX		40x40				2	1	0.13	0.26
SPA60-XX	SPB60-XX		60x60	20	40	±6.5	5	2.5	0.25	0.50
SPA80-XX	SPB80-XX		80x80				10	5	0.52	1.04
SPA100-XX	SPB100-XX		100x100			±12.5			0.70	1.40
SPA120-XX	SPB120-XX		120x120	30	60		20	10	1.60	3.20
SPA160-XX	SPB160-XX		160x160			±25			2.55	5.10
SPA200-XX	SPB200-XX		200x200	32	64		40	20	3.69	7.38

SPEA-XX/SPEB-XX Crossed Roller Guide Linear Stage



Model		Material	Stage Surface (mm)	Thickness (mm)		Full Stroke (mm)	Load Capacity (kgf)		Weight (kg)	
X axis	XY axis			X axis	XY axis		Horizontal	Vertical	X axis	XY axis
SPEA40-XX	SPEB40-XX	Aluminum Alloy Black Anodization	40x40				2	1	0.14	0.28
SPEA60-XX	SPEB60-XX		60x60	20	40	±6.5	5	2.5	0.25	0.50
SPEA80-XX	SPEB80-XX		80x80				10	5	0.50	1.00
SPEA125-XX	SPEB125-XX		125x125			±12.5	20	10	1.70	3.40

SPTA-XX/SPTB-XX Low-Profile Crossed Roller Guide Linear Stage



Model		Material	Stage Surface (mm)	Thickness (mm)		Full Stroke (mm)	Load Capacity (kgf)		Weight (kg)	
X axis	XY axis			X axis	XY axis		Horizontal	Vertical	X axis	XY axis
SPTA30-XX	SPTB30-XX	Aluminum Alloy Black Anodization	30x30	15	30	±3.2	2	1	0.06	0.12
SPTA40-XX	SPTB40-XX		40x40				3	1.5	0.14	0.28
SPTA50-XX	SPTB50-XX		50x50				4.5	2.25	0.18	0.36
SPTA60-XX	SPTB60-XX		60x60	18	36	±6.5	5	2.5	0.24	0.48
SPTA70-XX	SPTB70-XX		70x70				6.5	3.25	0.30	0.60
SPTA90-XX	SPTB90-XX		90x90				9	4.5	0.47	0.94
SPTA125-XX	SPTB124-XX		125x125	28	56	±12.5	12	6	1.4	2.80

Additional model

Micrometer Position	Center	Centered L/R Reverse	Center up and down reversal	Centered Bidirectional Reverse	Lateral Offset Reverse	Vertical Offset Reverse	Left-Right/Up-Down Reverse	Face Clamp	Opposite Clamp	Without Micrometer Knob
Graphical Representation										
Code	QC	QCR	CZ	CZR	QR	LZ	RZ	H	T	MN

*Note: -XX = Custom design

SPHA-XX Elongated Crossed Roller Guide Linear Stage



Model	Material	Stage Surface (mm)	Load Capacity (kgf)	Full Stroke (mm)	Allowable moment load (N.m)			Torque rigidity (" /N.cm)			Weight (Kg)
					Pitch	Yaw	Roll	Pitch	Yaw	Roll	
SPHA25-XX	Aluminum Alloy Black Anodization	25x60	2	±6.5	3.8	3.2	1.5	0.19	0.19	1.38	0.1
SPHA60-XX		60x110	6	Coarse adjustment ±20 Fine adjustment ±6.5	8.1	7	5.3	0.02	0.03	0.07	0.8

SPLA-XX Low-Profile Elongated Crossed Roller Guide Linear Stage



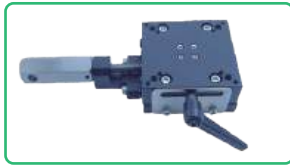
Model	Material	Stage Surface (mm)	Load Capacity (kgf)	Full Stroke (mm)	Allowable moment load (N.m)			Torque rigidity (" /N.cm)			Weight (Kg)
					Pitch	Yaw	Roll	Pitch	Yaw	Roll	
SPLA40-XX	Aluminum Alloy Black Anodization	40x80	3	±12.5	3.8	3.2	1.5	0.19	0.19	1.38	0.35
SPLA60-XX		60x120	6	±25	8.1	7	5.3	0.02	0.03	0.07	0.5

SMA-XX/SMSA-XX Crossed Roller Guide Ball Screw Driven Linear Stage



Model		Material	Stage Surface (mm)	Load Capacity (kgf)	Full Stroke (mm)	Least Count (mm)	Minimum Readout (mm)	Parallelism (mm)	Travel per Revolution (mm)	Weight (kg)	
Code	Specification									SMA	SMSA
SMA-XX (Scale) SMSA-XX (Digital Display)	1016	Aluminum Alloy Black Anodization	100x160	40	±35	0.1	0.01	0.05	1	1.5	1.6
	1020		100x200		±50					1.6	1.9
	1616		160x160		±35					2.2	2.3
	2020		200x200		±50					2.9	3.2

SPFA-XX Heavy-Duty Crossed Roller Guide Ball Screw Driven Linear Stage



Model	Material	Stage Surface (mm)	Load Capacity (kgf)	Full Stroke (mm)	Travel Accuracy		Parallelism (μm)	Travel per Revolution (mm)	Weight (kg)
					Straightness (μm)	Parallelism (μm)			
SPFA80-XX	Aluminum Alloy Black Anodization	80x80	20	±20	6	15	50	1.25	1
SPFA100-XX		100x100	30	±25					1.4
SPFA120-XX		120x120	35	±30	10	20	60	1.5	2.8
SPFA150-XX		150x150	50	±40					4.5
SPFA200-XX		200x200	60	±50			70	1.75	7.5

*Note: -XX = Custom design



SPLS-XX Long - Stroke Linear Guide Lead Screw Driven Stage



Model	Material	Stage Surface (mm)	Load Capacity (kgf)	Full Stroke (mm)	Parallelism(μm)	Moving Parallelism (μm)	Travel per Revolution (μm)	Weight (kg)
SPLS80-XX	Aluminum Alloy Black Anodization	80x80	15	128	50	25	24.00	0.9

SPMB-XX Crossed Roller Guide Monolithic Stage



SPMKB

Model	Material	Stage Surface (mm)	Thickness (mm)	Full Stroke (mm)	Load Capacity (kgf)	Parallelism(mm)	Moving Parallelism (mm)	Weight (kg)
SPMB40-XX	Aluminum Alloy Black Anodization	40x40	30	±6.5	3	0.04	≤0.01	0.27
SPMB50-XX		50x50			4.5			0.28
SPMB60-XX		60x60			5			0.48
SPMB80-XX		80x80			10			0.78
SPMB90-XX		90x90	50	±25	20	0.06	≤0.02	0.9
SPMB100-XX		100x100						1.02
SPMB120-XX		120x120						2.67
SPMB125-XX		125x125	46		15			2.35
SPMB160-XX		160x160	50	±25	40	0.1	≤0.04	4.31
SPMB200-XX		200x200	54					6.52

SPBB-XX Ultra - Thin Crossed Roller Guide Stage



Model	Material	Stage Surface (mm)	Thickness (mm)	Full Stroke (mm)	Load Capacity (kgf)	Parallelism(mm)	Moving Parallelism (mm)	Weight (kg)	
SPBB40-XX	Aluminum Alloy Black Anodization	40x40	22	±6.5	1	0.04	≤0.01	0.20	
SPBB60-XX		60x60			3			0.40	
SPBB80-XX		80x80		±12.5	5	0.06		0.70	
SPBB100-XX		100x100			6.5			1.00	

SPKB-XX Low - Profile Crossed Roller Guide Monolithic Stage



Model	Material	Stage Surface (mm)	Thickness (mm)	Full Stroke (mm)	Load Capacity (kgf)	Parallelism(mm)	Moving Parallelism (mm)	Weight (kg)
SPKB100-XX	Aluminum Alloy Black Anodization	100x100	30	±12.5	6.5	0.05	≤0.02	0.88

*Note: -XX = Custom design

Z-Axis Lifting Platform

SVZ-XX Crossed Roller Guide Vertical Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel Accuracy			Load Capacity (kgf)	Weight (kg)
				Straightness	Axial Runout	Radial Runout		
SVZ25-XX	Aluminum Alloy Black Anodization	25x25	±3.2	3μm	30"	20"	0.5	0.06
SVZ40-XX		40x40	±6.5	5μm	25"	15"	1	0.2
SVZ60-XX		60x60					2	0.45
SVZ80-XX		80x80	±12.5				3	0.8

SLZ-XX Crossed Roller Guide Horizontal Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Parallelism (mm)	Moving Parallelism (mm)	Load Capacity (kgf)	Weight (kg)
SLZ25-XX	Aluminum Alloy Black Anodization	25x25	4	33~37	0.02	≤0.01	1	0.06
SLZ40-XX		40x40	6	37~43				0.2
SLZ40H-XX		40x40	6	42~48			2	0.2
SLZ60-XX		60x60	10	50~60	0.04		4	0.6
SLZ60L-XX		60x60	6	37~43			2	0.3
SLZ80-XX		80x80	10	50~60			5	1

SLEZ-XX Economy Series Crossed Roller Guide Horizontal Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Parallelism (mm)	Moving Parallelism (mm)	Load Capacity (kgf)	Weight (kg)
SLEZ40-XX	Aluminum Alloy Black Anodization	40x40	10	35~45	0.05	≤0.01	2	0.17
SLEZ60-XX		60x60		42~52			3	0.27
SLEZ60L-XX		80x80					6	0.39
SLEZ80-XX		40~50			9		0.57	
SLEZ90-XX		90x90			45~55			15
SLEZ125-XX	125x125	1.34						

SLBZ-XX Linear Guide Low-Profile Horizontal Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Allowable moment load (N.m)			Load Capacity (kgf)	Weight (kg)
					Pitch	Yaw	Roll		
SLBZ40-XX	Aluminum Alloy Black Anodization	40x40	6	30~36	0.8	1.5	0.5		0.16
SLBZ60-XX		60x60				2.3	0.7		0.24
SLBZ80-XX		80x80				3	0.6		0.32

*Note: -XX = Custom design



Multi-Axis Manual Positioning Stage

SLE-XX • XZ-Axis Horizontal Lifting Stage



Model	Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)		Load Capacity(kgf)	Weight (kg)
				X axis	Z axis		
SLE25-XX	Aluminum Alloy Black Anodization	25x25	SLZ25+SPA25	±3.2	4	1	0.2
SLE40-XX		40x40	SLZ40+SPA40	±6.5	6		
SLE60-XX		60x60	SLZ60+SPA60		10	2	0.85
SLE80-XX		80x80	SLZ80+SPA80	±12.5		3	1.5

SVE-XX • XZ-Axis Vertical Lifting Stage



Model	Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)		Load Capacity (kgf)	Weight (kg)
				X axis	Z axis		
SVE25-XX	Aluminum Alloy Black Anodization	25x25	SVZ25+SPA25	±3.2	±3.2	1	0.2
SVE40-XX		40x40	SVZ40+SPA40	±6.5	±6.5		
SVE60-XX		60x60	SVZ60+SPA60			2	0.85
SVE80-XX		80x80	SVZ80+SPA80	±12.5	±12.5	4	1.3

SLD-XX • XYZ-Axis Vertical Lifting Stage



Model	Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)		Load Capacity (kgf)	Weight (kg)
				XY axis	Z axis		
SLD25-XX	Aluminum Alloy Black Anodization	25x25	SLZ25+SPB25	±3.2	4	1	0.24
SLD40-XX		40x40	SLZ40+SPB40	±6.5	6		
SLD60-XX		60x60	SLZ60+SPB60		10	2	0.87
SLD80-XX		80x80	SLZ80+SPB80	±12.5		3	1.62

SVD-XX • XYZ-Axis Vertical Lifting Stage



Model	Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)		Load Capacity (kgf)	Weight (kg)
				X axis	Z axis		
SVD25-XX	Aluminum Alloy Black Anodization	25x25	SVZ25+SPB25	±3.2	±3.2	1	0.24
SVD40-XX		40x40	SVZ40+SPB40	±6.5	±6.5		
SVD60-XX		60x60	SVZ60+SPB60			2	0.93
SVD80-XX		80x80	SVZ80+SPB80	±12.5	±12.5	4	1.83

SLR-XX • XYR-Axis Vertical Lifting Stage



Model	Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)		Load Capacity (kgf)	Weight (kg)
				XY axis	R axis		
SLR25-XX	Aluminum Alloy Black Anodization	25x25	SPR25-R+SPB25	±3.2	Coarse Adjustment 360° Fine Adjustment ±5°	1	0.24
SLR40-XX		40x40	SPR40-R+SPB40	±6.5			
SLR60-XX		60x60	SPR60-R+SPB60			2	0.78
SLR80-XX		80x80	SPR80-R+SPB80			±12.5	4

SLT-XX • XYZR-Axis Vertical Lifting Stage



Model	Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)			Load Capacity (kgf)	Weight (kg)
				XY axis	Z axis	R axis		
SLT25-XX	Aluminum Alloy Black Anodization	25x25	SPR25+SLD25	±3.2	4	Coarse Adjustment 360° Fine Adjustment ±5°	1	0.24
SLT40-XX		40x40	SPR40+SLD40	±6.5	6			
SLT60-XX		60x60	SPR60+SLD60		10		2	0.87
SLT80-XX		80x80	SPR80+SLD80	±12.5			3	1.62

*Note: -XX = Custom design

XYZαβ-Axis Stage (Worm Gear Driven)



SLF60-60-XX



SLMF60-60-XX



SLBF60-60-XX

Code	Model		Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)				Load Capacity (kgf)
	Stage Surface	Center Height				XY axis	Z axis	α axis (Upper Stage)	β axis (Upper Stage)	
SLF-XX	25	20	Aluminum Alloy Black Anodization	40	SPB25-XX+SLZ25-XX+SFSWG25-20-XX	±3.2mm	4mm	±15°	±10°	1
	40	25			SPB40-XX+SLZ40-XX+SFSWG40-25-XX	±6.5mm	6mm	±20°	±15°	2
	40	40			SPB40-XX+SLZ40-XX+SFSWG40-40-XX			±15°	±10°	
	60	35			SPB60-XX+SLZ60-XX+SFSWG60-35-XX	±6.5mm	10mm	±25°	±20°	3
SLMF-XX	60	60		60x60	SPB60-XX+SLZ60-XX+SFSWG60-60-XX			±20°	±15°	
	80	100		80x80	SPB80-XX+SLZ80-XX+SFSWG80-100-XX	±12.5mm	10mm	±18°	±15°	4
	40	25		40x40	SPMB40-XX+SLZ40-XX+SFSWG40-25-XX	±6.5mm	6mm	±20°	±15°	2
	40	40			SPMB40-XX+SLZ40-XX+SFSWG40-40-XX			±15°	±10°	
SLBF-XX	60	35	Aluminum Alloy Black Anodization	60x60	SPMB60-XX+SLZ60-XX+SFSWG60-35-XX	±6.5mm	10mm	±25°	±20°	3
	60	60		60x60	SPMB60-XX+SLZ60-XX+SFSWG60-60-XX			±20°	±15°	
	80	100		80x80	SPMB80-XX+SLZ80-XX+SFSWG80-100-XX	±12.5mm	10mm	±18°	±15°	4
	40	25		40x40	SPBB40-XX+SLZ40-XX+SFSWG40-25-XX	±6.5mm	6mm	±20°	±15°	2
	40	40			SPBB40-XX+SLZ40-XX+SFSWG40-40-XX			±15°	±10°	
SLBF-XX	60	35	Aluminum Alloy Black Anodization	60x60	SPBB60-XX+SLZ60-XX+SFSWG60-35-XX	±6.5mm	10mm	±25°	±20°	3
	60	60		60x60	SPBB60-XX+SLZ60-XX+SFSWG60-60-XX			±20°	±15°	
	80	100		80x80	SPBB80-XX+SLZ80-XX+SFSWG80-100-XX	±12.5mm	10mm	±18°	±15°	4

XYZαβ-Axis Stage (Micrometer Head Driven)



SLG60-50-XX



SLMG60-50-XX



SLBG60-50-XX

Code	Model		Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)				Load Capacity (kgf)
	Stage Surface	Center Height				XY axis	Z axis	α axis (Upper Stage)	β axis (Upper Stage)	
SLG-XX	40	40	Aluminum Alloy Black Anodization	40x40	SPB40-XX+SLZ40-XX+SPWG40-40-XX	±6.5mm	6mm	±7°	±4°	2
	40	60			SPB40-XX+SLZ40-XX+SPWG40-60-XX			±4°	±4°	
	60	50		60x60	SPB40-XX+SLZ40-XX+SPWG60-50-XX	±6.5mm	10mm	±4°	±4°	3
	60	75			SPB40-XX+SLZ40-XX+SPWG60-75-XX			±3°	±2.5°	
SLMG-XX	40	40	Aluminum Alloy Black Anodization	40x40	SPMB40-XX+SLZ40-XX+SPWG40-40-XX	±6.5mm	6mm	±7°	±4°	2
	40	60			SPMB40-XX+SLZ40-XX+SPWG40-60-XX			±4°	±4°	
	60	50		60x60	SPMB60-XX+SLZ60-XX+SPWG60-50-XX	±6.5mm	10mm	±4°	±4°	3
	60	75			SPMB60-XX+SLZ60-XX+SPWG60-75-XX			±3°	±2.5°	
SLBG-XX	40	40	Aluminum Alloy Black Anodization	40x40	SPBB40-XX+SLZ40-XX+SPWG40-40-XX	±6.5mm	6mm	±7°	±4°	2
	40	60			SPBB40-XX+SLZ40-XX+SPWG40-60-XX			±4°	±4°	
	60	50		60x60	SPBB60-XX+SLZ60-XX+SPWG60-50-XX	±6.5mm	10mm	±4°	±4°	3
	60	75			SPBB60-XX+SLZ60-XX+SPWG60-75-XX			±3°	±2.5°	
	60	100		60x60	SPBB60-XX+SLZ60-XX+SPWG60-100-XX			±3°	±2.5°	

*Note: -XX = Custom design



XYZαβ-Axis Stage (Worm Gear Driven)



SLK60-60-XX



SLMK60-60-XX



SLBK60-60-XX

Model			Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)					Load Capacity (kgf)
Code	Stage Surface	Center Height				XY axis	Z axis	α axis (Upper Stage)	β axis (Upper Stage)	θ axis	
SLK-XX	25	20		25x25	SPB25-XX+SLZ25-XX+SFSWG25-20-XX+SPR25-R-XX	±3.2mm	4mm	±15°	±10°		1
	40	25		40x40	SPB40-XX+SLZ40-XX+SFSWG40-25-XX+SPR40-R-XX	±6.5mm	6mm	±20°	±15°		2
	40	40		40x40	SPB40-XX+SLZ40-XX+SFSWG40-40-XX+SPR40-R-XX	±6.5mm	6mm	±15°	±10°		2
	60	35		60x60	SPB60-XX+SLZ60-XX+SFSWG60-35-XX+SPR60-R-XX	±6.5mm	10mm	±25°	±20°		3
SLMK-XX	60	60	Aluminum Alloy Black Anodization	60x60	SPB60-XX+SLZ60-XX+SFSWG60-60-XX+SPR60-R-XX	±6.5mm	10mm	±20°	±15°		3
	80	100		80x80	SPB80-XX+SLZ80-XX+SFSWG80-100-XX+SPR80-R-XX	±12.5mm	10mm	±18°	±15°		4
	40	25		40x40	SPMB40-XX+SLZ40-XX+SFSWG40-25-XX+SPR40-R-XX	±6.5mm	6mm	±20°	±15°	Coarse Adjustment 360°	2
	40	40		40x40	SPMB40-XX+SLZ40-XX+SFSWG40-40-XX+SPR40-R-XX	±6.5mm	6mm	±15°	±10°	Fine Adjustment ±5°	2
SLBK-XX	60	35		60x60	SPMB60-XX+SLZ60-XX+SFSWG60-35-XX+SPR60-R-XX	±6.5mm	10mm	±25°	±20°		3
	60	60		60x60	SPMB60-XX+SLZ60-XX+SFSWG60-60-XX+SPR60-R-XX	±6.5mm	10mm	±20°	±15°		3
	80	100		80x80	SPMB80-XX+SLZ80-XX+SFSWG80-100-XX+SPR80-R-XX	±12.5mm	10mm	±18°	±15°		4
	40	25		40x40	SPBB40-XX+SLZ40-XX+SFSWG40-25-XX+SPR40-R-XX	±6.5mm	6mm	±20°	±15°		2
SLBK-XX	40	40		40x40	SPBB40-XX+SLZ40-XX+SFSWG40-40-XX+SPR40-R-XX	±6.5mm	6mm	±15°	±10°		2
	60	35		60x60	SPBB60-XX+SLZ60-XX+SFSWG60-35-XX+SPR60-R-XX	±6.5mm	10mm	±25°	±20°		3
	60	60		60x60	SPBB60-XX+SLZ60-XX+SFSWG60-60-XX+SPR60-R-XX	±6.5mm	10mm	±20°	±15°		3
	80	100		80x80	SPBB80-XX+SLZ80-XX+SFSWG80-100-XX+SPR80-R-XX	±12.5mm	10mm	±18°	±15°		4

XYZαβ-Axis Stage (Micrometer Head Driven)



SLN60-50-XX



SLMN60-50-XX



SLBN60-50-XX

Model			Material	Stage Surface (mm)	Component Configuration	Full Stroke(mm)					Load Capacity (kgf)
Code	Stage Surface	Center Height				XY axis	Z axis	α axis (Upper Stage)	β axis (Upper Stage)	θ axis	
SLN-XX	40	40		40x40	SPB40-XX+SLZ40-XX+SPWG40-40-XX+SPR40-R-XX	±6.5mm	6mm	±7°	±4°		2
	60	60		40x40	SPB40-XX+SLZ40-XX+SPWG40-60-XX+SPR40-R-XX	±6.5mm	6mm	±4°	±4°		2
	50	50		60x60	SPB60-XX+SLZ60-XX+SPWG60-50-XX+SPR60-R-XX	±6.5mm	10mm	±4°	±4°		3
	60	75		60x60	SPB60-XX+SLZ60-XX+SPWG60-75-XX+SPR60-R-XX	±6.5mm	10mm	±3°	±3°		3
SLMN-XX	100	100	Aluminum Alloy Black Anodization	60x60	SPB60-XX+SLZ60-XX+SPWG60-100-XX+SPR60-R-XX	±6.5mm	10mm	±3°	±2.5°		3
	40	40		40x40	SPMB40-XX+SLZ40-XX+SPWG40-40-XX+SPR40-R-XX	±6.5mm	6mm	±7°	±4°	Coarse Adjustment 360°	2
	60	60		40x40	SPMB40-XX+SLZ40-XX+SPWG40-60-XX+SPR40-R-XX	±6.5mm	6mm	±4°	±4°	Fine Adjustment ±5°	2
	50	50		60x60	SPMB60-XX+SLZ60-XX+SPWG60-50-XX+SPR60-R-XX	±6.5mm	10mm	±4°	±4°		3
SLBN-XX	60	75		60x60	SPMB60-XX+SLZ60-XX+SPWG60-75-XX+SPR60-R-XX	±6.5mm	10mm	±3°	±3°		3
	100	100		60x60	SPMB60-XX+SLZ60-XX+SPWG60-100-XX+SPR60-R-XX	±6.5mm	10mm	±3°	±2.5°		3
	40	40		40x40	SPBB40-XX+SLZ40-XX+SPWG40-40-XX+SPR40-R-XX	±6.5mm	6mm	±7°	±4°		2
	60	60		40x40	SPBB40-XX+SLZ40-XX+SPWG40-60-XX+SPR40-R-XX	±6.5mm	6mm	±4°	±4°		2
SLBN-XX	50	50		60x60	SPBB60-XX+SLZ60-XX+SPWG60-50-XX+SPR60-R-XX	±6.5mm	10mm	±4°	±4°		3
	60	75		60x60	SPBB60-XX+SLZ60-XX+SPWG60-75-XX+SPR60-R-XX	±6.5mm	10mm	±3°	±3°		3
	100	100		60x60	SPBB60-XX+SLZ60-XX+SPWG60-100-XX+SPR60-R-XX	±6.5mm	10mm	±3°	±2.5°		3
	100	100		60x60	SPBB60-XX+SLZ60-XX+SPWG60-100-XX+SPR60-R-XX	±6.5mm	10mm	±3°	±2.5°		3

*Note: -XX = Custom design

Manual Fiber Optic Alignment Mount

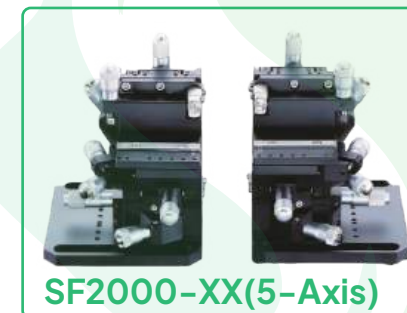
The six-axis adjustment mount incorporates an advanced mechanical design, enabling coupled adjustment of three-axis translation (XYZ) and three-axis rotation (θx, θy, θz). This breakthrough overcomes the limitations of traditional single-degree-of-freedom adjustment tools, allowing operators to effortlessly handle complex three-dimensional spatial positioning tasks. Whether for coaxial alignment of optical lenses and sensors or high-precision bonding of semiconductor chips to substrates, it achieves rapid and accurate positioning, significantly enhancing work efficiency and accuracy.

Advantages:

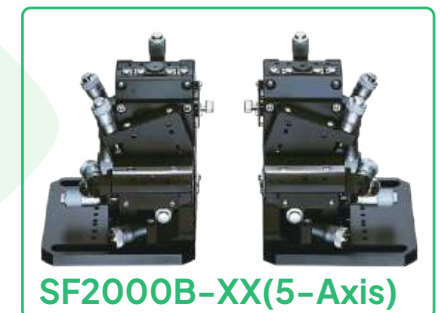
- ① Higher Degrees of Freedom: The six-axis adjustment mount typically features six axes: three translational axes (X, Y, Z) and three rotational axes, offering superior positioning flexibility.
- ② Higher Precision: Utilizing high-precision guide rails and linear translation mechanisms, the mount achieves sub-micron level fine-tuning and positioning.
- ③ Enhanced Stability: Its compact and rigid structural design provides excellent stability and vibration resistance.
- ④ Broad Applicability: With a wider range of applications, the six-axis adjustment mount is suitable for positioning and fine-tuning various optical components such as optical fibers, laser diodes, and optical crystals. It is widely used in fields including optical communications, optical metrology, and laser processing.



SF2000S-XX(5-Axis)



SF2000-XX(5-Axis)



SF2000B-XX(5-Axis)



SS2200WB-XX



SS2300B-XX



SS2800B-XX



SS2200B-XX



SS2600B-XX

*Note: -XX = Custom design



SUS440C Stainless Steel Stage

SSA-XX/SSB-XX Linear Ball Guide Stage



Model		Material	Stage Surface (mm)	Thickness (mm)		Full Stroke (mm)	Load Capacity (kgf)		Weight (kg)	
X axis	XY axis			X axis	XY axis		Horizontal	Vertical	X axis	XY axis
SSA20-XX	SSB20-XX	SUS440C	20x20	15	30	±3.2	4	2	0.05	0.10
SSA25-XX	SSB25-XX		25x25	12	24				0.07	0.14
SSA40-XX	SSB40-XX		40x40				10	5	0.23	0.46
SSA50-XX	SSB50-XX		50x50	16	32	±6.5	15	7.5	0.28	0.56
SSA60-XX	SSB60-XX		60x60				20	10	0.40	0.80
SSA65-XX	SSB65-XX		65x65	22	44		25	12.5	0.87	7.74
SSA70-XX	SSB70-XX		70x70	18	36	±6.5			0.60	1.20
SSA80-XX	SSB80-XX		80x80				27	13.5	0.90	1.80
SSA100-XX	SSB100-XX		100x100	20	40		35	17.5	1.30	2.60

SSHA-XX/SSHB-XX Linear Ball Guide Stage



Model		Material	Stage Surface (mm)	Thickness (mm)		Full Stroke (mm)	Load Capacity (kgf)	Parallelism (μm)	Weight (kg)	
X axis	XY axis			X axis	XY axis				X axis	XY axis
SSHA40-XX	SSHB40-XX	SUS440C	40x40	20	40	±6.5	10	30	0.24	0.48
SSHA60-XX	SSHB60-XX		60x60				20		0.50	1.00

SSLA-XX Linear Ball Guide Long-Stroke Stage



Model	Material	Stage Surface (mm)	Thickness (mm)	Load Capacity (kgf)	Full Stroke (mm)	Allowable moment load (N.M)			Weight (kg)
						Pitch	Yaw	Roll	
SSLA40-XX	SUS440C	40x80	16	15	±12.5	6.8	6.8	5.00	0.44
SSLA60-XX		60x120		20	±25	10	10	6.80	0.98

SSFA-XX Crossed Rolle Guide •Heavy-Duty Stage



Model	Material	Stage Surface (mm)	Thickness (mm)	Load Capacity (kgf)	Full Stroke (mm)	Allowable moment load (N.M)			Weight (kg)
						Straightness	Pitch	Yaw	
SSFA80-XX	SUS440C	80x80	36	40	±20	6μm	60"	30"	80x80
SSFA100-XX		100x100	40	58	±25				100x100
SSFA120-XX		120x120		78	±30				120x120
SSFA150-XX		150x150	49	98	±40	10μm	80"	50"	150x150
SSFA200-XX		200x200		117	±50				200x200

*Note: -XX = Custom design

SSBB-XX Linear Ball Guide Stage



Model	Material	Stage Surface (mm)	Thickness (mm)	Full Stroke (mm)	Load Capacity (kgf)	Travel Accuracy				Weight (kg)
						Straightness	Parallelism	Pitch	Yaw	
SSBB40-XX	SUS440C	40x40	22	±6.5	9	3μm	12μm	40"	20"	0.34
SSBB60-XX		60x60			18					0.64
SSBB80-XX		80x80	26	±12.5	25					1.32
SSBB100-XX		100x100			32		15μm			2.66

SSLZ-XX Linear Ball Guide Horizontal Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Allowable moment load (N.M)			Load Capacity (kgf)	Weight (kg)
					Pitch	Yaw	Roll		
SSLZ40-XX	SUS440C	40x40	6	47~53	1.8	1.1	1.2	3	0.49
SSLZ60-XX		60x60		57~63	3.3	2.4	3.1	6	0.99

SSZ-XXLinear Ball Guide Vertical Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel Accuracy			Load Capacity (kgf)	Weight (kg)
				Straightness	Pitch	Yaw		
SSZ25-XX	SUS440C	25x25	±3.2				1	0.09
SSZ40-XX		40x40	±6.5	1μm	25"	15"	5	0.32
SSZ60-XX		60x60						0.58
SSZ80-XX		80x80	±12.5	3μm				1.2

SSE-XX/SSD-XX Linear Ball Guide Vertical Lifting Stage



Model		Material	Stage Surface (mm)	Full Stroke (mm)	Travel Accuracy			Torque rigidity (" /N.cm)			Load Capacity (kgf)
X axis	XY axis				Straightness	Pitch	Yaw	Pitch	Yaw	Roll	
SSE25-XX	SSD25-XX	SUS440C	25x25	±3.2	1μm	25"	15"	0.98	0.91	1.05	1
SSE40-XX	SSD40-XX		40x40	±6.5				0.21	0.21	0.21	5
SSE60-XX	SSD60-XX		60x60								
SSE80-XX	SSD80-XX		80x80	±12.5	3μm			0.1	0.1	0.1	

*Note: -XX = Custom design



Manual Rotary Stage

SPR-XX High-Precision Manual Rotary Stage



Model	Material	Drive Direction	Actuation Type	Stage Surface (mm)	Full Stroke	Least Count	Eccentricity (μm)	Load Capacity (kgf)	Weight (kg)
SPR25-XX	Aluminum Alloy Black Anodization	θ axis	Micrometer Head	25	Coarse Adjustment 360°	30'	50	1	0.04
SPR40-XX				38		1.44'			0.1
SPR60-XX				59		0.92'			0.3
SPR80-XX				80	Fine Adjustment ±5°	0.67'		4	0.52
SPR90-XX				90		0.61'			0.62
SPR100-XX				100		0.56'			0.72
SPR125-XX				125		0.46'			1.2
SPR160-XX				160		0.36'		10	1.74
SPR200-XX				200		0.29'			2.3

Model	Material	Drive Direction	Actuation Type	Stage Surface (mm)	Full Stroke	Least Count	Eccentricity (μm)	Load Capacity (kgf)	Weight (kg)
SPR85-XX	Aluminum Alloy Black Anodization	θ axis	Micrometer Head	85	Coarse Adjustment 360°	0.75'	50	5	0.51
SPR110-XX				110	Fine Adjustment ±5°	0.57'			0.80

Additional model

Alteration	Relocation of the Micrometer Knob
Spec.	
Code	R

SPRT-XX Manual Rotary Stage with Through-Hole



Model	Material	Drive Direction	Actuation Type	Stage Surface (mm)	Full Stroke	Least Count	Eccentricity (μm)	Load Capacity (kgf)	Weight (kg)
SPRT100-XX	Aluminum Alloy Black Anodization	θ axis	Micrometer Head	100	Coarse Adjustment 360° Fine Adjustment ±5°	0.53'	40	5	0.50

SPBR-XX Low-Profile Manual Rotary Stage



Model	Material	Actuation Type	Thickness (mm)	Stage Surface (mm)	Full Stroke	Least Count	Minimum Scale Division	Load Capacity (kgf)	Weight (kg)
SPBR60-XX	Aluminum Alloy Black Anodization	Micrometer Head	15	60	Coarse Adjustment 360° Fine Adjustment ±5°	0.96'	10'	3	0.16
SPBR90-XX			20	90		0.6'	5'		0.50
SPBR125-XX			20	125		0.46'			0.90

*Note: -XX = Custom design

SER-XX 360° Coarse-Adjustment Rotary Stage



Model	Material	Actuation Type	Thickness (mm)	Stage Surface (mm)	Full Stroke	Least Count	Minimum Scale Division	Load Capacity (kgf)	Weight (kg)
SER25-XX	Aluminum Alloy Black Anodization	θ axis	25	12.5	360°	5°	0.05	3	0.02
SER40-XX			40	20		2°		5	0.06
SER60-XX			60	25		1°		7	0.20
SER85-XX			85					8	0.42

SEHR-XX Stainless Steel Manual Rotary Stage



Model	Material	Stage Surface (mm)	Thickness (mm)	Full Stroke	Number of Divisions	Division Angle	Eccentricity (mm)	Load Capacity (kgf)	Weight (kg)
SEHR50-XX	S45C	48	34	360°	12	30°±1°	0.1	100	0.34
SEHR100-XX		98	45					150	1.64
SEHR200-XX		198	70					200	8.70

SPSR-XX SUS440C Stainless Steel Rotary Stage



Model	Material	Drive Direction	Actuation Type	Stage Surface (mm)	Full Stroke	Graduation per Revolution	Eccentricity (mm)	Load Capacity (kgf)	Weight (kg)
SPSR60-XX	SUS440C	θ axis	Micrometer Head	60	Coarse Adjustment 360°	55"	50	5	0.58
SPSR85-XX				85	Fine Adjustment ±5°	0.57"			0.97

SFR-XX Square Small-Angel Rotary Stage



Model	Material	Drive Direction	Actuation Type	Stage Surface (mm)	Full Stroke	Least Count	Parallelism (μm)	Load Capacity (kgf)	Weight (kg)
SFR40-XX	Aluminum Alloy Black Anodization	θ axis	Micrometer Head	40x40	±10°	1'51"	50	1	0.14
SFR60-XX				60x60		1'12"		3	0.26

SFTR-XX Square Small-Angel Rotary Stage



Model	Material	Actuation Type	Thickness (mm)	Stage Surface (mm)	Full Stroke	Least Count	Parallelism (μm)	Load Capacity (kgf)	Weight (kg)
SFTR40-XX	Aluminum Alloy Black Anodization	Micrometer Head	20	40x40	±5	1.08'	30	3	0.14
SFTR60-XX				60x60		50"			0.25
SFTR80-XX				80x80		45"			0.45
SFTR125-XX				125x125		32"			0.82

*Note: -XX = Custom design



Manual Goniometer
Dovetail-Type Worm Gear Drive

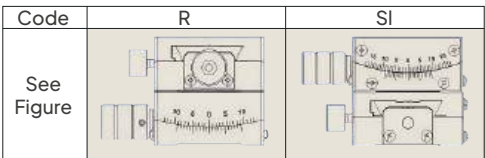


Model			Material	Stage Surface (mm)	Full Stroke(°)	Thickness (mm)	Load Capacity (kgf)	Travel per Revolution(°)	Allowable moment load(N.m)		
Code	Stage Surface	Center Height							Pitch	Yaw	Roll
	25	20		25x25	±15	15	2	2.00	0.3	0.3	0.3
		35			±10						
	30	30		30x30	±10	14	1	2.06	0.5	0.5	0.5
		44				13		1.50			
		25			±20	15		2.20			
	40	40		40x40	±15	20	3	1.89	0.8	1.0	0.8
		60			±10			1.33			
		106.5			±7.5			-			
	50	50	SFG-XX Brass	50x50	±10	18	3	1.55	1.0	1.2	1.0
SFG-XX		68	SFSG-XX Aluminum Alloy		±8			0.97			
SFSG-XX		86			±25	25		2.00			
	60	60		60x60	±20	20	5	1.30	1.5	2.0	1.5
		80			±15			1.00			
		50			±20	25		1.43			
	65	76		65x65	±10	24	6	1.00	1.6	1.8	1.6
		100						1.00			
	80	100		80x80	±18	30	6	1.00	2.0	3.0	2.0
		130			±15			1.00			
	90	100		90x90	±12	30	7.5	1.00	2.0	3.0	2.0
		95			±10°	39		1.125°			
	100	134		100x100	±10°	38	8	0.84°	2.5	2.8	2.5
		172			±8°			0.67°			



Model			Material	Stage Surface (mm)	Full Stroke(°)		Thickness (mm)	Load Capacity (kgf)	Travel per Revolution(°)		Allowable moment load(N.m)		
Code	Stage Surface	Center Height			Upper Stage	Lower Stage			Upper Stage	Lower Stage	Pitch	Yaw	Roll
	25	20		25x25	±15	±10	30	2	2.00	2.00	0.3	0.3	0.3
	30	30		30x30	±10	±10	27	1	2.06	1.50	0.5	0.5	0.5
		25			±20	±15	35		2.20	1.89			
	40	40		40x40	±15	±10	40	3	1.89	1.33	0.8	1.0	0.8
		50			±10	±10	36	3	1.55	1.20	1.0	1.2	1.0
SFWG-XX		68	SFG-XX Brass	50x50		±8			1.20	0.97			
SFSWG-XX		35	SFSG-XX Aluminum Alloy	60x60	±25	±20	45	5	2.00	1.30	1.5	2.0	1.5
	60	60			±20	±15	20		1.30	1.00			
	65	76		65x65	±10	±10	48	6	1.00	1.44	1.6	1.8	1.6
	80	100		80x80	±18	±15	60	6	1.00	1.00	2.0	3.0	2.0
		95			±10	±10	77	8	1.125°	0.84			
	100	134		100x100	±10	±8	76		0.84°	0.67	2.5	2.8	2.5

Additional model



*Note: -XX = Custom design

Crossed Roller Guide with Micrometer Drive

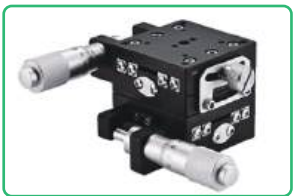


Model			Material	Stage Surface (mm)	Full Stroke(°)	Thickness (mm)	Load Capacity (kgf)	Travel per Revolution(°)	Allowable moment load(N.m)		
Code	Stage Surface	Center Height							Pitch	Yaw	Roll
		40			±7			42"			
	40	60		40x40	±4	20	3	30"	1	0.9	0.9
		80						23"			
		50						53"			
	50	68	Aluminum Alloy Black Anodization	50x50	±3	18	3	40"	1.5	1.2	2.5
		86						33"			
SPG-XX		50			±4			24"			
	60	75		60x60	±3	25	5	18"	1.5	2	2.6
		100			±2.5			15"			
		125									
		70						25"			
	70	96		70x70	±3	26	5	19"	3.6	2.8	5.7
		122						15"			

Additional model

Relocation of the Micrometer Knob		
Lateral Offset Reverse	Center	Centered L/R Reverse
	For Stage Platform 50,70 Only	For Stage Platform 50,70 Only
Spec.		
Code	R	C

Worm Gear Drive	
SPIG-XX	



Model			Material	Stage Surface (mm)	Full Stroke(°)		Thickness (mm)	Load Capacity (kgf)	Least Count		Allowable moment load(N.m)		
Code	Stage Surface	Center Height			Upper Stage	Lower Stage			Upper Stage	Lower Stage	Pitch	Yaw	Roll
	40	40		40x40	±7	±4	40	3	42"	30"	1	0.9	0.9
		60			±4				30"	23"			
		50							53"	40"			
	50	68	Aluminum Alloy Black Anodization	50x50	±3	±3	36	3	40"	33"	1.5	1.2	2.5
		86							30"	24"			
SPWG-XX		50		60x60	±4	±4	50	5	24"	18"	1.5	2	2.6
	60	75			±3	±2.5			18"	15"			
		100											
		70							25"	19"			
	70	96		70x70	±3	±3	52	5	19"	15"	3.6	3.6	5.7

*Note: -XX = Custom design



Dovetail Slide with Rack and Pinion Drive Standard Type



Model					Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Moving Straightness (μm)
X axis	XY axis	Z axis	XZ axis	XYZ axis					Horizontal	Vertical	
SWA40-XX	SWB40-XX	SWZ40-XX	SWT40-XX	SWQ40-XX	Aluminum Alloy Black Anodization	25x42	±12	18	3	1.5	30
SWA60-XX	SWB60-XX	SWZ60-XX	SWT60-XX	SWQ60-XX		40x60	±21				
SWA90-XX	SWB90-XX	SWZ90-XX	SWT90-XX	SWQ90-XX		40x90	±35		4	2	
SWA140-XX	SWB140-XX					40x140	±60				

Double Locking



Model					Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Moving Straightness (μm)
X axis	XY axis	Z axis	XZ axis	XYZ axis					Horizontal	Vertical	
SWEA50-XX	SWEB50-XX	SWEZ50-XX	SWET50-XX	SWEQ50-XX	Aluminum Alloy Black Anodization	30x50	±16	18	3	1.5	30
SWEA60-XX	SWEB60-XX	SWEZ60-XX	SWET60-XX	SWEQ60-XX		40x60	±21		3.5	1.75	
SWEA90-XX	SWEB90-XX	SWEZ90-XX	SWET90-XX	SWEQ90-XX		40x90	±35				
SWEA120-XX	SWEB120-XX					60x120	±50		5	2.5	

Low-Profile Double Locking



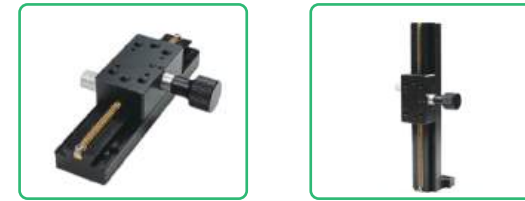
Model					Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Moving Straightness (μm)
X axis	XY axis	Z axis	XZ axis	XYZ axis					Horizontal	Vertical	
SWBA50-XX	SWBB50-XX	SWBZ50-XX	SWBT50-XX	SWBQ50-XX	Aluminum Alloy Black	30x50	±16	18	3	1.5	30
SWBA60-XX	SWBB60-XX	SWBZ60-XX	SWBT60-XX	SWBQ60-XX		40x60	±21		3.5	1.75	
SWBA90-XX	SWBB90-XX	SWBZ90-XX	SWBT90-XX	SWBQ90-XX	Anodization	40x90	±35				

Square



Model					Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Moving Straightness (μm)
X axis	XY axis	Z axis	XZ axis	XYZ axis					Horizontal	Vertical	
SWFA25-XX	SWFB25-XX	SWFZ25-XX	SWFT25-XX	SWFQ25-XX	Aluminum Alloy Black Anodization	25x25	±5	18	3	1.5	30
SWFA40-XX	SWFB40-XX	SWFZ40-XX	SWFT40-XX	SWFQ40-XX		40x40	±10		4	2	
SWFA60-XX	SWFB60-XX	SWFZ60-XX	SWFT60-XX	SWFQ60-XX		60x60	±20				

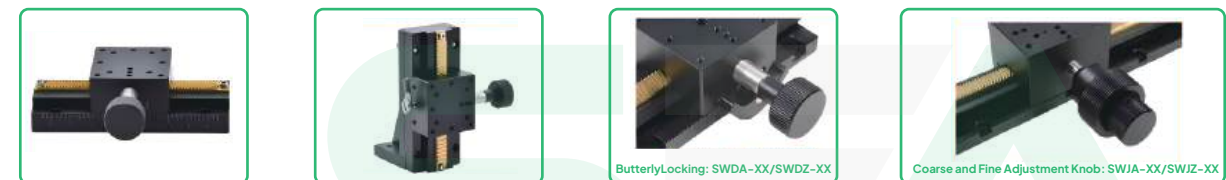
*Note: -XX = Custom design



Material		Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	
X axis	Z axis					Horizontal	Vertical
SWA25-L50-XX	SWZ25-L50-XX	Aluminum Alloy Black Anodization	25x42	±15	18	3	1.5
SWA25-L70-XX	SWZ25-L70-XX			±25			
SWA25-L100-XX	SWZ25-L100-XX			±40			
SWA25-L150-XX	SWZ25-L150-XX			±65			
SWA25-L200-XX				±90			



Material		Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	
X axis	Z axis					Horizontal	Vertical
SWA30-L80-XX	SWZ30-L80-XX	Aluminum Alloy Black Anodization	30x50	±30	18	3	1.5
SWA30-L100-XX	SWZ30-L100-XX			±40			
SWA30-L150-XX	SWZ30-L150-XX			±65			
SWA30-L200-XX				±90			



Material		Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	
X axis	Z axis					Horizontal	Vertical
SWA40-L100-XX	SWZ40-L100-XX	Aluminum Alloy Black Anodization	40x40	±30	18	4	2
SWA40-L150-XX	SWZ40-L150-XX			±55			
SWA40-L200-XX	SWZ40-L200-XX			±80			
SWA40-L250-XX	SWZ40-L250-XX			±105			
SWA40-L300-XX	SWZ40-L300-XX			±130			
SWA40-L400-XX	SWZ40-L400-XX			±180			
SWA40-L500-XX	SWZ40-L500-XX			±230			



Material				Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)		Load Capacity (kgf)	
Code	Length	Number of Slide	Knob				Coarse Adjustment	Fine Adjustment	Horizontal	Vertical
SWHA40-XX	300	2/3/4/5	J: Coarse and Fine Adjustment Knob	Aluminum Alloy Black Anodization	40x40	±140	18	2.3	5	2.5

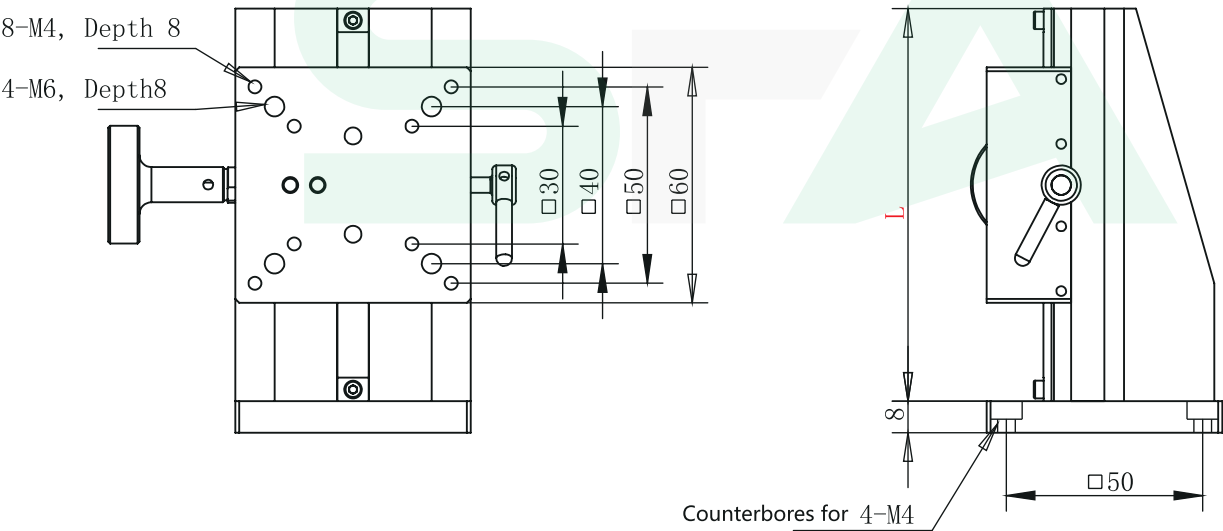
*Note: -XX = Custom design



Long-Stroke 60x60mm Dovetail Slide



Material		Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	
X axis	Z axis					Horizontal	Vertical
SWA60-L100-XX	SWZ60-L100-XX	Aluminum Alloy Black Anodization	60x60	±30	18	5	2.5
SWA60-L150-XX	SWZ60-L150-XX			±50			
SWA60-L200-XX	SWZ60-L200-XX			±80			
SWA60-L250-XX	SWZ60-L250-XX			±105			
SWA60-L300-XX	SWZ60-L300-XX			±130			
SWA60-L400-XX	SWZ60-L400-XX			±180			
SWA60-L500-XX				±230			
SWA60-L600-XX				±280			



Material			Material	Actuation Type	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	Moving Parallelism (mm)
Code	Stage Surface	Height L						
SWTZ-XX	60	100	Aluminum Alloy Black Anodization	Rack and Pinion	±20	18	3	≤0.02mm/20mm
		150			±45			
		200			±70			
		250			±90			
		300			±120			
		400			±170			
		500			±220			
		600			±270			

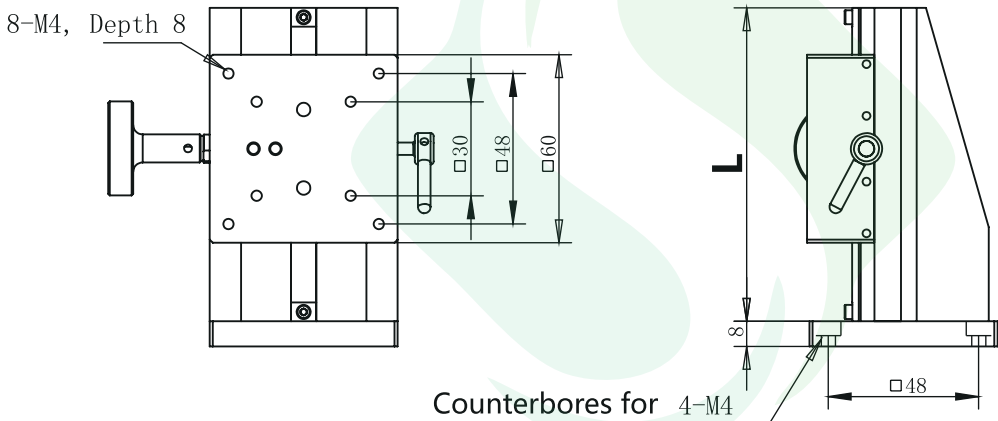
*Note: -XX = Custom design

CCD Industrial Camera Mounting Bracket

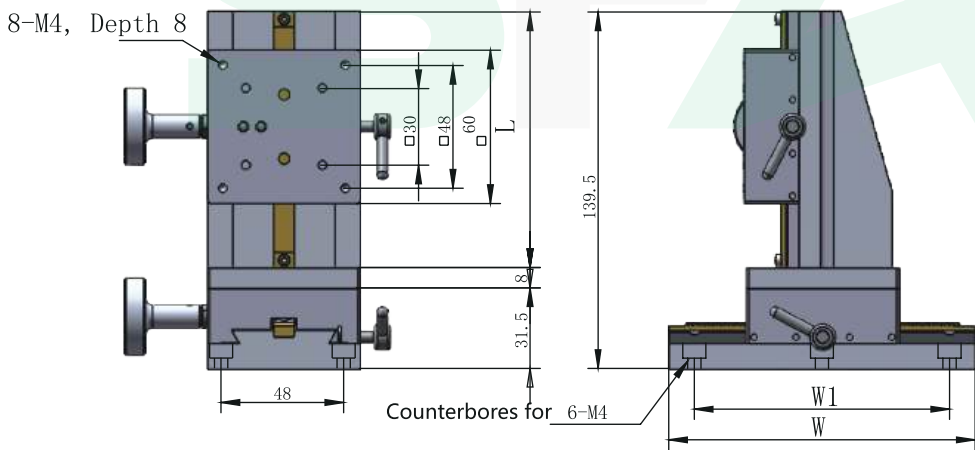


Function: Designed for securing industrial cameras, CCD cameras, lenses, vision inspection systems, and LED light sources, with flexible positioning and freedom of movement.

Application Examples:



Material			Material	Actuation Type	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	Moving Parallelism (mm)
Code	Stage Surface	Height L						
SWIZ-XX	60	100	Aluminum Alloy Black Anodization	Rack and Pinion	±20	18	3	≤0.02mm/20mm
		150			±45			
		200			±70			
		250			±90			
		300			±120			
		400			±170			
		500			±220			
		600			±270			



Material				Material	Stage Surface (mm)	Actuation Type	Travel per Revolution (mm)	Load Capacity (kgf)
Code	Column Height L	Base Plate Length W	W1					
SWIE-XX	100	90	50	Aluminum Alloy Black Anodization	60x60	Rack and Pinion +Handwheel	18	2.5
	150							
	200							
	250							
	250		100					
	300		120					
	400		150					
	500							

*Note: -XX = Custom design

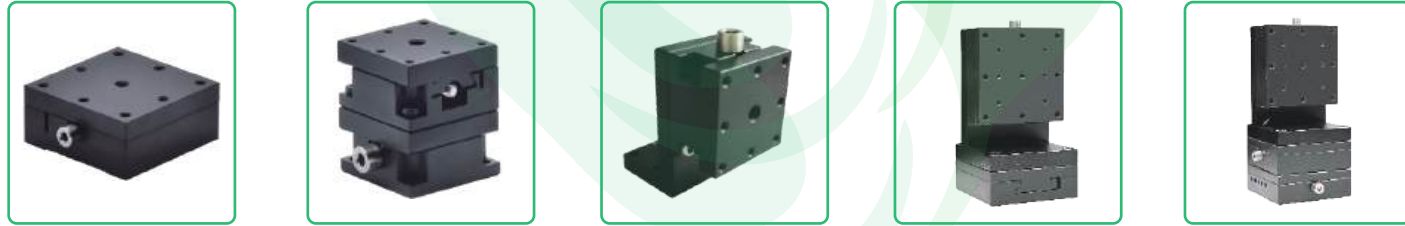


Dovetail Slide with Lead Screw Drive Standard Type



Model					Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Straightness (mm)
X axis	XY axis	Z axis	XZ axis	XYZ axis					Horizontal	Vertical	
SFA25-XX SFEA25-XX	SFB25-XX SFEB25-XX	SFZ25-XX SFEZ25-XX	SFE25-XX SFEE25-XX	SFD25-XX SFED25-XX	SF-XX Brass SFE-XX Aluminum Alloy	25x25	±5		3	1.5	
SFA40-XX SFEA40-XX	SFB40-XX SFEB40-XX	SFZ40-XX SFEZ40-XX	SFE40-XX SFEE40-XX	SFD40-XX SFED40-XX		40x40	±7	0.5			0.03
SFA60-XX SFEA60-XX	SFB60-XX SFEB60-XX	SFZ60-XX SFEZ60-XX	SFE60-XX SFEE60-XX	SFD60-XX SFED60-XX		60x60	±9		4	2	

Hex Key Driven Type



Model					Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Straightness (mm)
X axis	XY axis	Z axis	XZ axis	XYZ axis					Horizontal	Vertical	
SKA25-XX SKEA25-XX	SKB25-XX SKEB25-XX	SKZ25-XX SKEZ25-XX	SKE25-XX SKEE25-XX	SKD25-XX SKED25-XX	SK-XX Brass SKE-XX Aluminum Alloy	25x25	±5		3	1.5	
SKA40-XX SKEA40-XX	SKB40-XX SKEB40-XX	SKZ40-XX SKEZ40-XX	SKE40-XX SKEE40-XX	SKD40-XX SKED40-XX		40x40	±7	0.5			0.03
SKA60-XX SKEA60-XX	SKB60-XX SKEB60-XX	SKZ60-XX SKEZ60-XX	SKE60-XX SKEE60-XX	SKD60-XX SKED60-XX		60x60	±9		4	2	

Dovetail Slide with Combined Lead Screw and Rack & Pinion Drive



Model		Material	Stage Surface (mm)	Full Stroke (mm)		Travel per Revolution (mm)	Load Capacity (kgf)
XZ axis	XYZ axis			XY axis	Z axis		
SWEE25-XX SWECE25-XX	SWED25-XX SWECD25-XX	SWE-XX Brass SWE-XX Aluminum Alloy	25x25	±5		XY axis: 0.5 Z axis ≈14	1
SWEE40-XX SWECE40-XX	SWED40-XX SWECD40-XX		40x40	±7			
SWEE60-XX SWECE60-XX	SWED60-XX SWECD60-XX		60x60	±10	26		

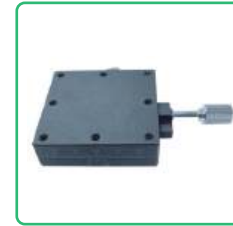
*Note: -XX = Custom design

SFS-XX Square Rapid Lead Screw Driven Slide



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Travel per Revolution (mm)	Moving Parallelism (μm)	Load Capacity (kgf)		Weight (kg)
							Horizontal	Vertical	
SFS40-XX	Aluminum Alloy	40x40	±11	18	4.2	30	2	1	0.1
SFS60-XX	Black Anodization	60x60	±21				3	1.5	0.19

SFES-XX Economy Square Rapid Lead Screw Driven Slide



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Travel per Revolution (mm)	Moving Parallelism (μm)	Load Capacity (kgf)		Weight (kg)
							Horizontal	Vertical	
SFES40-XX	Aluminum Alloy	40x40	±10	15	4.2	30	2	1	0.06
SFES60-XX	Black Anodization	60x60	±20	17			3	1.5	0.16

SLS-XX Rectangular Rapid Lead Screw Driven Slide



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Travel per Revolution (mm)	Moving Parallelism (μm)	Load Capacity (kgf)		Weight (kg)
							Horizontal	Vertical	
SLS60-XX	Aluminum Alloy	40x60	±21	26	4.2	30	4	2	0.2
SLS90-XX	Black Anodization	40x90	±35						0.29

SLBS-XX Rectangular, Rapid Lead Screw Driven Slide

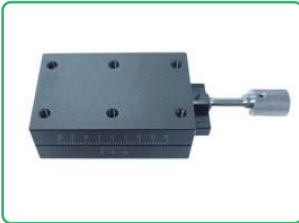


Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Travel per Revolution (mm)	Moving Parallelism (μm)	Load Capacity (kgf)		Weight (kg)
							Horizontal	Vertical	
SLBS60-XX	Aluminum Alloy	40x60	±21	18	4.2	30	3	1.5	0.14
SLBS90-XX	Black Anodization	40x90	±35						0.19

*Note: -XX = Custom design



SLHS-XX Economy Rectangular Rapid Lead Screw Driven Slide



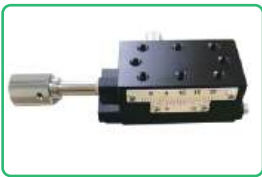
Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Travel per Revolution (mm)	Moving Parallelism (μm)	Load Capacity (kgf)		Weight (kg)
							Horizontal	Vertical	
SLHS60-XX	Aluminum Alloy Black Anodization	40x60	±21	20	4.2	30	3	1.5	0.14
SLHS90-XX		40x90	±35						0.19

STS-XX Elongated Rapid Lead Screw Driven Slide



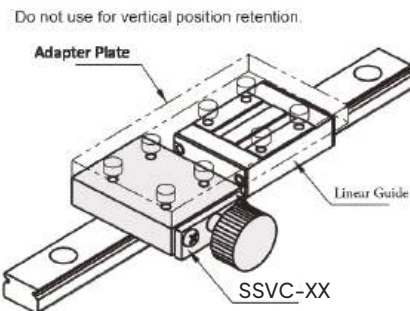
Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Travel per Revolution (mm)	Moving Parallelism (μm)	Load Capacity (kgf)		Weight (kg)
							Horizontal	Vertical	
STS40-XX	Aluminum Alloy Black Anodization	24.8x42	±12	26	4.2	30	3	1.5	0.11
STS50-XX		24.8x50	±16						0.12
STS100-XX		24.8x100	±40				4	2	0.22

STBS-XX Low-Profile Elongated Rapid Lead Screw Driven Slide



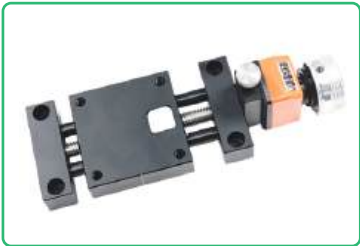
Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Travel per Revolution (mm)	Moving Parallelism (μm)	Load Capacity (kgf)		Weight (kg)
							Horizontal	Vertical	
STBS40-XX	Aluminum Alloy Black Anodization	24.8x42	±12	18	4.2	30	3	1.5	0.11

SSVC-XX Linear Guide Clamp

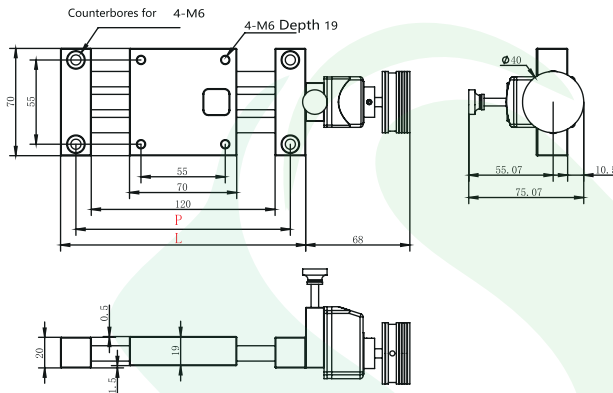


*Note: -XX = Custom design

Lithium Battery Industry-Specific Manual Tooling

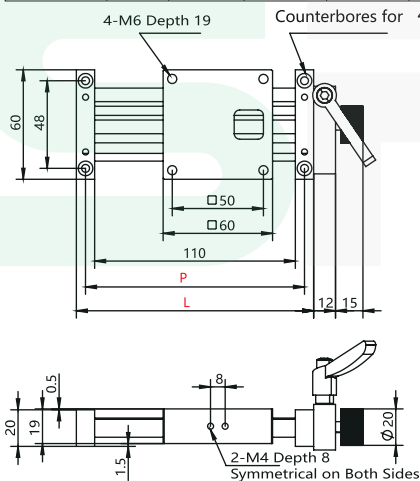


Model	Code	Stage Surface	Full Stroke	Material		P	L	Travel per Revolution (mm)	Load Capacity (kgf)		Minimum Readout (mm)
				Main Body	Bearing				Horizontal	Vertical	
SHEST-XX	70		30	Aluminum Alloy Black Anodization	POM	120	140	1.5	10	5	0.1
			40			130	150				
			50			140	160				
			60			150	170				
			70			160	180				
			80			170	190				
			90			180	200				
			100			190	210				
			110			200	220				
			120			210	230				
			130			220	240				
			140			230	250				
			150			240	260				

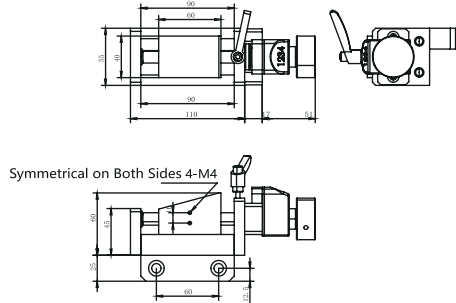


Application Fields: Lithium Battery, Semiconductor, Printed Circuit Board (PCB)
 Manufacturing Product Advantages : ①Utilizes specialized engineering POM plastic bearings. ②Free of copper, nickel, and zinc; generates no metallic dust.

Model	Code	Stage Surface	Travel Distance	Material		P	L	Travel per Revolution (mm)	Load Capacity (kgf)		Minimum Readout (mm)
				Main Body	Bearing				Horizontal	Vertical	
SHET-XX	60	50	25	Aluminum Alloy Black Anodization	POM	95	105	1.5	10	5	0.1
			140			210	220				



Model	SKEST40-30-XX
Material	SUS440C
Moving Block Material	Engineering Plastic POM
Stage Surface	40mm x 60mm
Full Stroke	±15mm
Load Capacity	4Kg
Weight	1.5Kg



*Note: -XX = Custom design

Basic Manual Adjustment Assembly

A-Axis Dovetail Rack and Pinion Horizontal Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Allowable moment load (N.m)			Weight (kg)
					Pitch	Yaw	Roll	
SFGZ25-XX	Aluminum Alloy Black Anodization	25x25	5		0.6	1.0	1.5	0.6
SFGZ40-XX		40x40	10	18	0.6	1.0	1.5	1.0
SFGZ60-XX		60x60	20		4.0	4.0	2.5	1.5

Z-Axis Dovetail Lead Screw Driven Horizontal Lifting Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Parallelism (mm)	Load Capacity (kgf)	Weight (kg)
SFDZ40-XX	Aluminum Alloy Black Anodization	40x40	5	0.5	0.1	3.0	0.2
SFDZ60-XX		60x60	7			10.0	0.4

X-Axis Clamping Screw Manual Assembly



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Weight (kg)
					Horizontal	Vertical	
SHJ20-XX	Aluminum Alloy Black Anodization	20x20	±5	0.5	2.0	1.0	0.04
SHJ24-XX		25x25					0.06
SHJ40-XX		40x40	±7.5		3	1.5	0.10
SHJ60-XX		60x60					0.20

X-Axis Feed Screw Manual Assembly



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Set Screw	Load Capacity (kgf)	Weight (kg)
SHA40-XX	Aluminum Alloy Black Anodization	40x80	20	0.8	M4	2.0	0.18
SHA60-XX		60x100			M5	4.0	0.34

X-Axis Heavy-Duty Manual Assembly



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Weight (kg)
					Horizontal	Vertical	
SKST50-XX	Aluminum Alloy Clear Anodization	80x80	±25	2	20.0	10.0	1.72
SKST100-XX			±50				2.00
SKST150-XX			±75				2.32
SKST300-XX			±150				2.70

Z-Axis Rack and Pinion Driven Manual Assembly



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Thickness (mm)	Load Capacity (kgf)	Weight (kg)
SKRG40-XX	Aluminum Alloy Black Anodization	25x42	±12	18	30.0	3.0	0.1
SKRG60-XX		60x60	±14			4.0	0.2
SKRG90-XX		40x90	±23				0.3

X-Axis Left-Hand/Right-Hand Thread Screw Adjustment Manual Assembly



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Thickness (mm)	Load Capacity (kgf)	Weight (kg)
SANON60-XX	Aluminum Alloy Black Anodization	20x40	60	2.5(on one side 1.25)	26.0	1.0	0.31
SANON150-XX		40x60	150	3.5(on one side 1.75)	32.0	2.0	1.06

*Note: -XX = Custom design

X-Axis Lead Screw Driven Side Clamping Manual Assembly



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Thickness (mm)	Load Capacity (kgf)	Weight (kg)
SFGZ25-XX	Aluminum Alloy Black Anodization	29.50	25	0.8	18.0	1.0	0.10

Z-Axis Lead Screw Driven Manual Lifting Assembly



Code	Model		Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Weight (kg)
	Stage Surface	Full Stroke					
SHT-XX Standard Type SHST-XX With Digital Position Display	40	25	Aluminum Alloy Clear Anodization	40x80	±25	2.0	1.10
		50			±50		1.30
	80	25		80x80	±25		1.40
		50			±50		1.60

X-Axis Small-Angle Tilt Slide



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Actuation Type	Thickness (mm)	Load Capacity (kgf)	Weight (kg)
STD40-XX	Aluminum Alloy Black Anodization	40x40	±2	Knob	16	3.0	0.06
STD60-XX		60x60	±2		20	5.0	0.17

Z-Axis Feed Screw Manual Assembly



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Thickness (mm)	Weight (kg)
SEMA40-XX	Aluminum Alloy Black Anodization	40x40	±3	0.5	0.07
SEMA60-XX		60x60	±5	1.0	0.16

Z-Axis Rack and Pinion Driven Manual Assembly with Scale



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	Weight (kg)
SZK150-XX	Aluminum Alloy Clear Anodization	28x36	70	18	2.5	0.30
SZK200-XX			120			0.35
SZK250-XX			170			0.45
SZK300-XX						0.50
SZK480-XX						0.65

Z-Axis Single Scissor Rapid Lift Stage



Model	Material	Stage Surface (mm)	Full Stroke (mm)	Load Capacity (mm)	Weight (kg)
SLJZ60-XX	Aluminum Alloy Black Anodization	60x80	31	6.0	0.65
SLJZ80-XX		80x100	50	7.0	1.00
SLJZ80A-XX		80x120	50		1.25
SLJZ120-XX		120x180	70	10	3.50

Z-Axis Double Scissor Rapid Lift Stage

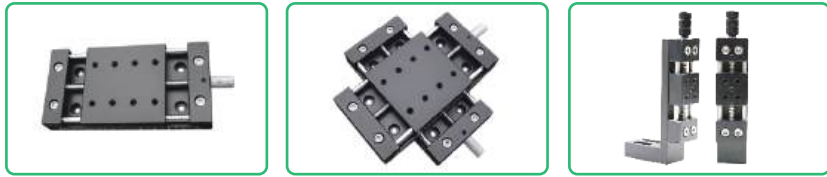


Model	Material	Stage Surface (mm)	Full Stroke (mm)	Load Capacity (mm)	Weight (kg)
SLJZ0814-XX	Aluminum Alloy Black Anodization	80x140	31	20	1.26
SLJZ1016-XX		100x160	50	25	2.07
SLJZ1622-XX		160x220	70	30	3.71
SLJZ1525-XX		150x250	120	70	7.00

*Note: -XX = Custom design



Standard Feed Screw Driven Manual Assembly



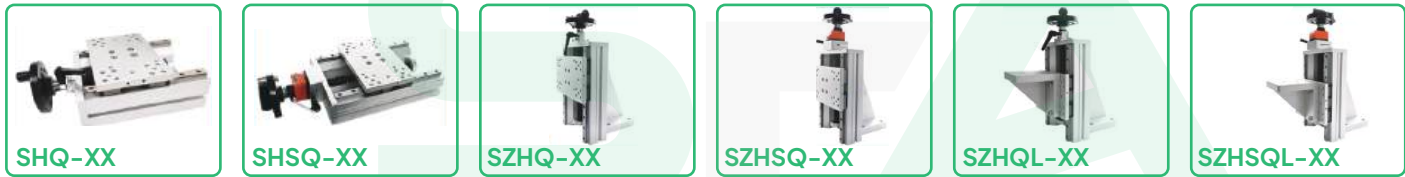
Model			Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)		Thickness (mm)	
X axis	XY axis	Z axis					Horizontal	Vertical		
SHH20-XX	SHB20-XX	SHZ20-XX	Aluminum Alloy Black Anodization	20x20	±7	0.7	2	1	10	
SHH25-XX	SHB25-XX	SHZ25-XX		25x25						
SHH40-XX	SHB40-XX	SHZ40-XX		40x40	±9					
SHH40A-XX				40x25	±17		4	2		
SHH60-XX	SHB20-XX	SHZ20-XX		60x60	±13					
SHH60A-XX				60x40	±23					

Long-Stroke Feed Screw (0.5mm Pitch) Driven Stage



Model			Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	
X axis	XY axis	Z axis					Horizontal	Vertical
SJA3580-XX	SJB3580-XX	SJD3580-XX	Aluminum Alloy Black Anodization	34.8 x 34.8	±10	0.5	5	3
SJA35100-XX	SJB35100-XX	SJD35100-XX			±20			
SJA5084-XX	SJB5084-XX	SJD5084-XX		49.8 x 49.8	±7.5			
SJA5094-XX	SJB5094-XX	SJD5094-XX			±12.5			
SJA50110-XX	SJB50110-XX	SJD50110-XX			±17.5			
SJA50145-XX	SJB50145-XX	SJD50145-XX			±30			
SJA50164-XX	SJB50164-XX	SJD50164-XX			±40			

Trapezoidal Lead Screw Driven Heavy-Duty Manual Assembly



Model			Material	Stage Surface (mm)	Full Stroke (mm)	Travel per Revolution (mm)	Load Capacity (kgf)	
Code	Dimensions	Handwheel Type					Horizontal	Vertical
SHQ-XX SHSQ-XX SZHQ-XX SZHSQ-XX SZHQL-XX SZHSQL-XX	170	Aluminum Alloy Clear Anodization	A Standard Handwheel B Folding Handwheel	100x150	53	4	150	30
	220				103			
	320				203			
	370				253			
	420				303			
	470				353			

Additional model

Code	H	U	D	L	R
Technical Description	Reinforced Side Locking	Handwheel Facing Up	Handwheel Facing Down	Handwheel Facing Left	Handwheel Facing Right

*Note: -XX = Custom design

Single-Guideway Trapezoidal Lead Screw Driven Heavy-Duty Manual Assembly



Model			Material	Full Stroke (mm)	Travel per Revolution (mm)	Allowable moment load (N.m)			Load Capacity (kgf)	
Code	Dimensions	Handwheel Type				Mxd	Myd	Mzd	Horizontal	Vertical
SHEQ-XX SHESQ-XX	220	A Standard Handwheel B Folding Handwheel	Aluminum Alloy Clear Anodization	53	4	39	35	35	50	12
	320			103						
	370			203						
	420			253						
	470			303						

Dual-Guideway Trapezoidal Lead Screw Driven Heavy-Duty Manual Assembly



Model				Material	Full Stroke (mm)	Travel per Revolution (mm)	Allowable moment load (N.m)			Load Capacity (kgf)	
Code	Platform Width	Dimensions	Handwheel Type				Mxd	Myd	Mzd	Horizontal	Vertical
SHQ-XX SHSQ-XX	102	220	A Standard Handwheel B Folding Handwheel	Aluminum Alloy Clear Anodization	120	4	39	35	35	50	12
		320			220						
		370			270						
		420			320						
		470			370						
		220			70						
	135	320			170	4	124	99	99	95	27
		370			220						
		420			270						
		470			320						
		220			60						
		320			160						
	170	370			210	4	428	310	310	110	40
		420			260						
		470			310						

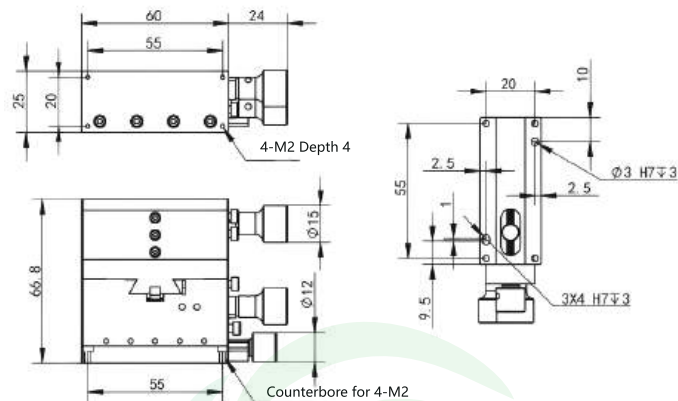
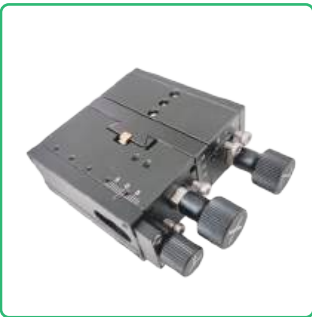
Additional model

Code	H	U	D	L	R
Technical Description	Reinforced Side Locking	Handwheel Facing Up	Handwheel Facing Down	Handwheel Facing Left	Handwheel Facing Right

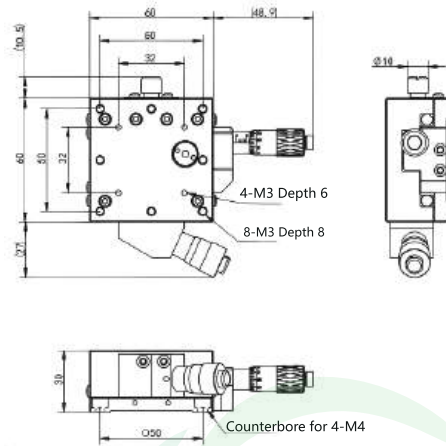
*Note: -XX = Custom design



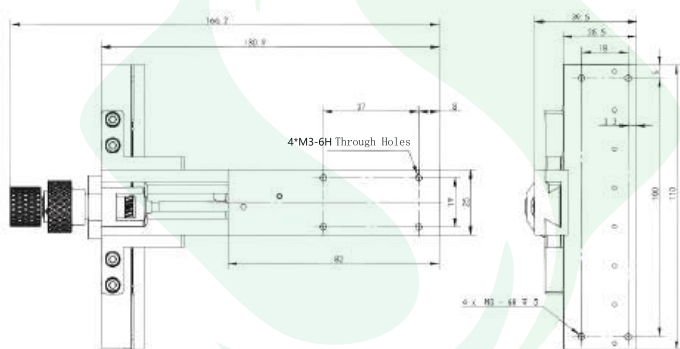
Customized Products



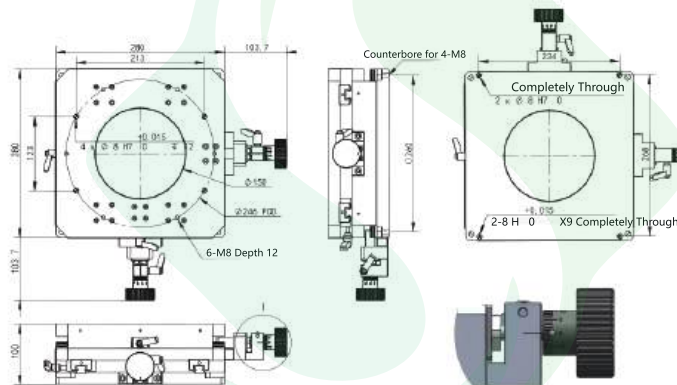
SWECD2560-XX	
Main Body Material	Aluminum Alloy (Black Anodization)
Stage Surface	25x60mm
Platform Thickness	66.8mm
Actuation Type	Rack and Pinion+ Precision Lead Screw
Travel per Revolution	Y-Z-Axis Travel per Revolution: 18mm X-Axis Travel per Revolution: 0.5mm
Full Stroke	XY-Axis Travel: 10mm Z-Axis Travel: 8mm
Horizontal Load Capacity	2kgf
Weight	0.3kg



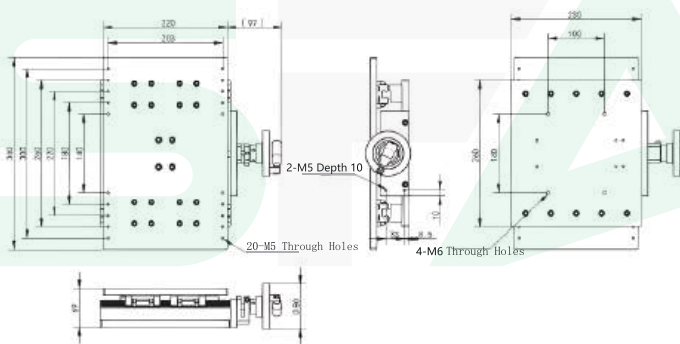
SPJA60-XX	
Main Body Material	Aluminum Alloy (Black Anodization)
Stage Surface	60x60mm
Platform Thickness	30mm
Actuation Type	Micrometer Head (Coarse/Fine Adjustment)
Coarse Adjustment Travel	±6.5mm
Fine Adjustment Travel	±0.3mm
Horizontal Load Capacity	5kgf (49N)
Weight	0.4kg



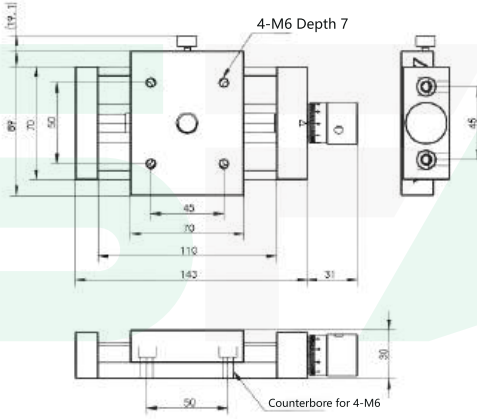
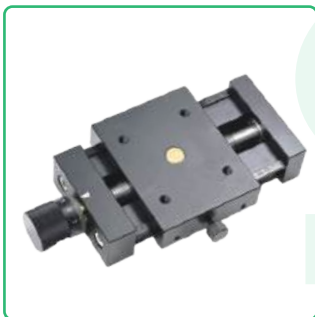
SWDB25130-XY-HK-A1-XX	
Main Body Material	Aluminum Alloy (Sandblasted Anodization)
X axis Actuation Type	Rack and Pinion
Y axis Actuation Type	Precision Lead Screw
Horizontal Load Capacity	9.5N
Full Stroke	±25mm



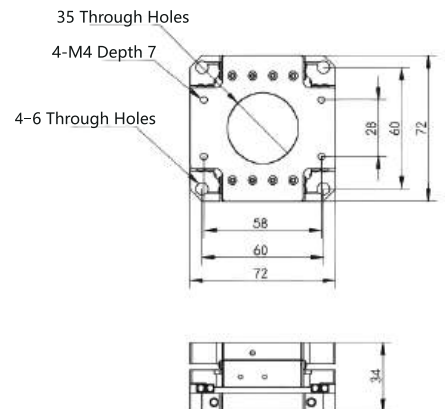
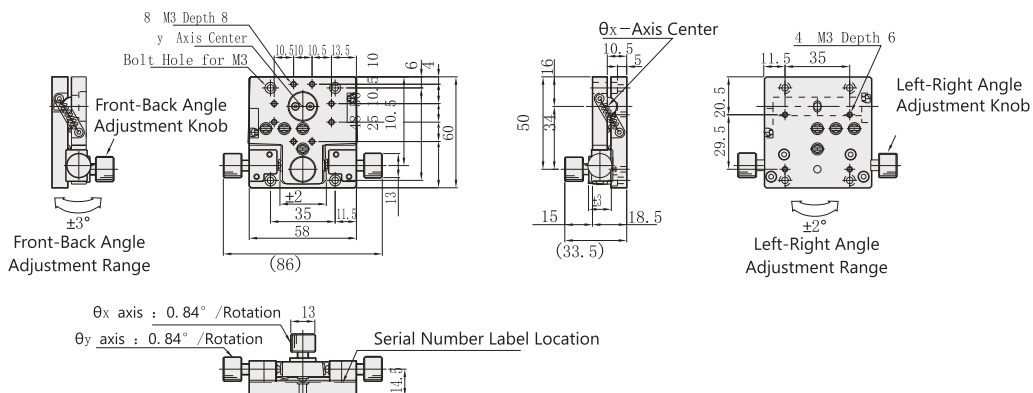
SPMB2828-XX	
Main Body Material	Aluminum Alloy
Stage Surface	280x280mm
Platform Thickness	100mm
Hollow	150mm
Actuation Type	Precision Ball Screw
Travel per Revolution	0.5mm
Resolution	0.01mm
Full Stroke	±5mm
Load Capacity	80kgf
Moving Parallelism	±0.01mm/13mm
Weight	11.278kg



SHQ260-80-A1-XX	
Main Body Material	Aluminum Alloy (Sandblasted Anodization)
Stage Surface	210 x 340mm
Platform Thickness	69mm
Actuation Type	Lead Screw (φ18mm)
Travel per Revolution	4mm
Full Stroke	±40mm
Horizontal Load Capacity	20kgf
Moving Parallelism	±0.01mm/13mm



SHL7090-4-XX	
Main Body Material	Aluminum Alloy (Black Anodization)
Stage Surface	70x89mm
Platform Thickness	30mm
Actuation Type	Precision Ball Screw
Travel per Revolution	2mm
Full Stroke	±20mm
Load Capacity	6kgf
Moving Parallelism	±0.01mm/20mm
Weight	0.8kg



SPMB572-XX	
Motion Direction	In Both X and Y Directions
Main Body Material	Aluminum Alloy (Black Anodization)
Stage Surface	72x72mm
Platform Thickness	34mm
Full Stroke	±5.5mm
Load Capacity	6kgf
Parallelism	0.05mm
Moving Parallelism	±0.01mm/12.5mm
Weight	02kg

*Note: -XX = Custom design

*Note: -XX = Custom design



Motorized Slide



What is a Motorized Slide?

It is a precision product composed of a drive motor (stepper or servo), a transmission mechanism (such as a ball screw or worm gear), and a guidance mechanism (comprising linear guides and bearings), capable of precise control at the micrometer (μm) level.

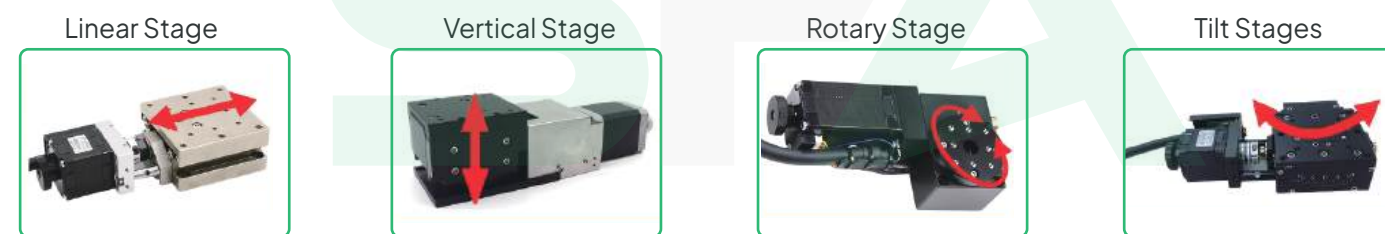
Shinkyo Seiki's motorized slide lineup includes:

- ① Linear Slides: For straight-line motion
- ② Horizontal Z-Axis Slides (Lift Stages): Where the table moves vertically while maintaining a horizontal orientation.
- ③ Rotary Slides (Rotation Stages): For rotational motion.
- ④ Arc/Tilt Slides (Angular Stages): For arcuate or tilting motion.

Basic Configuration



Drive Systems



- Linear Motion Stage
- Our slides can be combined into 2-axis or 3-axis systems, and integrated with angular or rotary stages, to suit diverse positioning needs.
- We offer a wide variety of models to meet all your requirements.
- A vertical/horizontal linear slide
- A precision motion device whose platform rotates about a central axis, providing accurate angular positioning.
- Available in Standard, High-Precision, and Premium series to meet diverse application requirements.
- A linear slide with an integrated rotary axis on its vertical centerline, enabling precise arc motion.
- Available in High-Precision and Premium series to meet your specific application requirements.

*Note: -XX = Custom design

Cable

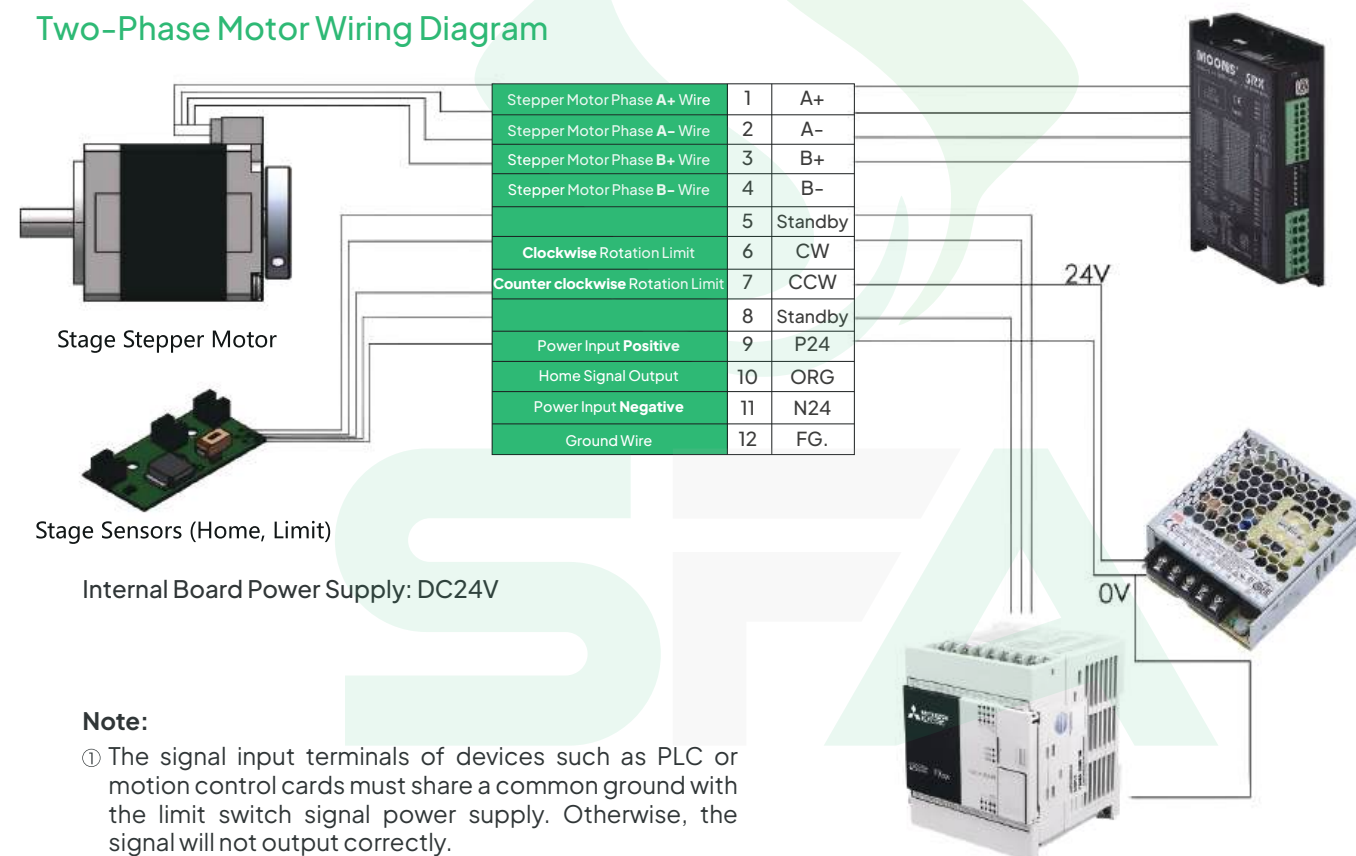


Model	CKX2	CKX3	CKX4	CKX5	CKX6	CKX7	CKX8	CKX9	CKX10
Lenght	2m	3m	4m	5m	6m	7m	8m	9m	10m

Control Components



Two-Phase Motor Wiring Diagram



Note:

- ① The signal input terminals of devices such as PLC or motion control cards must share a common ground with the limit switch signal power supply. Otherwise, the signal will not output correctly.
- ② The home (ORG), positive limit (CW), and negative limit (CCW) signals are NPN normally closed (NC), low-level output.
- ③ When the motor is equipped with a brake, Pin 8 is the positive terminal (+) for the brake power supply, and Pin 5 is the negative terminal (-).

*Note: -XX = Custom design



Linear Ball Guide • External Limit Switch • SUS440C Motorized Stage



Model	X axis	SKX4015-L/SKX4015-R-XX	SKX4030-L/SKX4030-R-XX	SKX6020-L/SKX6020-R-XX	SKX6030-L/SKX6030-R-XX	SKX6050-L/SKX6050-R-XX	SKX8020-L/SKX8020-R-XX
	XY axis	SKY4015-L/SKY4015-R-XX	SKY4030-L/SKY4030-R-XX	SKY6020-L/SKY6020-R-XX	SKY6030-L/SKY6030-R-XX	SKY6050-L/SKY6050-R-XX	SKY8020-L/SKY8020-R-XX
	Z axis	SKZ4015-L/SKZ4015-R-XX	SKZ4030-L/SKZ4030-R-XX	SKZ6020-L/SKZ6020-R-XX	SKZ6030-L/SKZ6030-R-XX	SKZ6050-L/SKZ6050-R-XX	SKZ8020-L/SKZ8020-R-XX
	XYZ axis	SKD4015-L/SKD4015-R-XX	SKD4030-L/SKD4030-R-XX	SKD6020-L/SKD6020-R-XX	SKD6030-L/SKD6030-R-XX	SKD6050-L/SKD6050-R-XX	SKD8020-L/SKD8020-R-XX
Mechanical Specs	Material	SUS440C (Electroless Nickel Plating)					
	Stage Surface(mm)	40x40	40x60	60x60	60x60	60x60	80x80
	Full Stroke(mm)	±7.5	±15	±10	±15	±25	±10
	Main Body Thickness(mm)	X axis:20 XY axis:40					
Accuracy Specs	Drive Mechanism	Ball Screw Diameter 6mm Lead 1mm					
	Guidance Mechanism	Linear Ball Guide					
Electrical Specs	Resolution(μm)	5					
	Unidirectional Positioning Accuracy(μm)	10	15	10	15	10	
	Repeatability(μm)	±					
	Straightness(μm)	≤3 1					
	Load Capacity(kgf)	10					
	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)					
	Step Angle	1.8°					
	Rated Current	1A					
	Maximum Speed	10mm/sec					
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)					

Linear Ball Guide • Internal Limit Switch • SUS440C Motorized Stage



Model	X axis	SKEX6020-XX	SKEX6030-XX	SKEX6050-XX	SKEX8030-XX	SKEX8050-XX
	XY axis	SKEY6020-XX	SKEY6030-XX	SKEY6050-XX	SKEY8030-XX	SKEY8050-XX
	Z axis	SKEZ6020-XX	SKEZ6030-XX	SKEZ6050-XX	SKEZ8030-XX	SKEZ8050-XX
	XYZ axis	SKED6020-XX	SKED6030-XX	SKED6050-XX	SKED8030-XX	SKED8050-XX
Mechanical Specs	Material	SUS440C (Electroless Nickel Plating)				
	Stage Surface(mm)	60x60	60x70	60x80	8080	
	Full Stroke(mm)	±10	±15	±25	±15	±25
	Main Body Thickness(mm)	X axis:30 XY axis:60				
	Drive Mechanism	Ball Screw 0801				
	Guidance Mechanism	Linear Ball Guide				
Accuracy Specs	Resolution(μm)	5				
	Unidirectional Positioning Accuracy(μm)	10		15	10	15
	Repeatability(μm)	±1			±1.5	
	Straightness(μm)	≤3		≤5	≤3	≤5
	Load Capacity(kg)	Horizontal: 10kg Vertical: 5kg			Horizontal: 20kg Vertical: 10kg	
Electrical Specs	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)				
	Step Angle	1.8°				
	Rated Current	1A				
	Maximum Speed	10mm/sec				
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)				

*Note: -XX = Custom design

Linear Ball Guide • External Limit Switch • SUS440C Motorized Stage



Model	X axis	SKELX6030-C/G-XX	SKELX6050-C/G-XX	SKELX6075-C/G-XX	SKELX60100-C/G-XX	SKELX60150-C/G-XX	SKELX60200-C/G-XX	SKELX60250-C/G-XX	SKELX60300-C/G-XX
	XY axis	SKELY6030-C/G-XX	SKELY6050-C/G-XX	SKELY6075-C/G-XX	SKELY60100-C/G-XX	SKELY60150-C/G-XX	SKELY60200-C/G-XX	SKELY60250-C/G-XX	SKELY60300-C/G-XX
	Z axis	SKELZ6030-C/G-XX	SKELZ6050-C/G-XX	SKELZ6075-C/G-XX	SKELZ60100-C/G-XX	SKELZ60150-C/G-XX	SKELZ60200-C/G-XX	SKELZ60250-C/G-XX	SKELZ60300-C/G-XX
	XYZ axis	SKELD6030-C/G-XX	SKELD6050-C/G-XX	SKELD6075-C/G-XX	SKELD60100-C/G-XX	SKELD60150-C/G-XX	SKELD60200-C/G-XX	SKELD60250-C/G-XX	SKELD60300-C/G-XX
Mechanical Specs	Material	SUS440C (Electroless Nickel Plating)							
	Stage Surface(mm)	60x60							
	Full Stroke(mm)	±15	±25	±37.5	±50	±75	±100	±125	±150
	Main Body Thickness(mm)	C: X axis:20 XY axis:60 G: X axis:33 XY axis:66							
Accuracy Specs	Drive Mechanism	Ball Screw 0802 (Optional: 0801 Screw)							
	Guidance Mechanism	Linear Ball Guide							
Electrical Specs	Resolution(μm)	10							
	Unidirectional Positioning Accuracy(μm)	10	15	20					
	Repeatability(μm)	±1	±1.5	±2					
	Straightness(μm)	≤3	≤5	≤10					
	Load Capacity(kgf)	Horizontal: 15kg Vertical: 7.5kg							
	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)							
	Step Angle	1.8°							
	Rated Current	1.3A							
	Maximum Speed	20mm/sec							
	Sensor	CW+CCW (Optional ORG Home Sensor)							

SKLZ-XX Linear Ball Guide Horizontal Lifting Stage

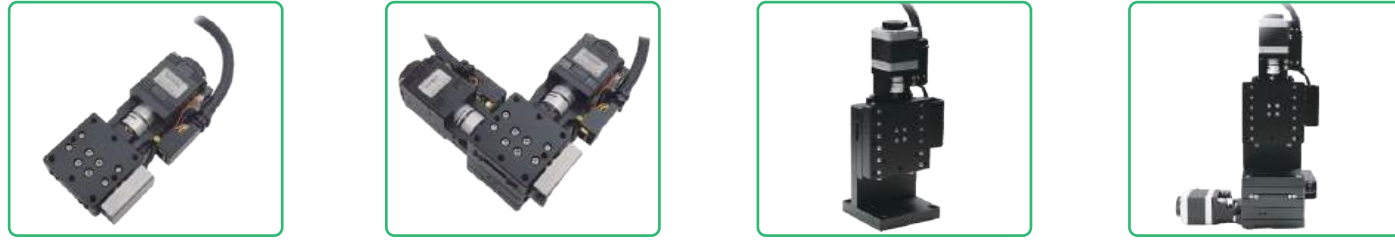


Model	SKLZ4006-XX	SKLZ6008-XX
Mechanical Specs	Material: SUS440C (Electroless Nickel Plating)	
	Stage Surface(mm)	40x40 / 60x60
	Full Stroke(mm)	6 / 8
	Main Body Thickness(mm)	57~63 / 56~64
Accuracy Specs	Drive Mechanism	Linear Ball 0601 / Linear Ball 0801
	Guidance Mechanism	Linear Ball Guide
Electrical Specs	Resolution(μm)	5
	Unidirectional Positioning Accuracy(μm)	10
	Repeatability(μm)	±4
	Straightness(μm)	≤30
	Load Capacity(kgf)	3 / 4
	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)
	Step Angle	1.8°
	Rated Current	1.3A
	Maximum Speed	10mm/sec
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)

*Note: -XX = Custom design



Crossed Roller Guide •External Limit Switch •Aluminum Alloy Motorized Stage



Model	X axis	SKCX4015-L/R-XX	SKCX6020-L/R-XX	SKCX6030-L/R-XX	SKCX7025-L/R-XX	SKCX8030-L/R-XX	SKCX10040-L/R-XX	SKCX12050-L/R-XX
	XY axis	SKCY4015-L/R-XX	SKCY6020-L/R-XX	SKCY6030-L/R-XX	SKCY7025-L/R-XX	SKCY8030-L/R-XX	SKCY10040-L/R-XX	SKCY12050-L/R-XX
	Z axis	SKCZ4015-L/R-XX	SKCZ6020-L/R-XX	SKCZ6030-L/R-XX	SKCZ7025-L/R-XX	SKCZ8030-L/R-XX	SKCZ10040-L/R-XX	SKCZ12050-L/R-XX
	XYZ axis	SKCD4015-L/R-XX	SKCD6020-L/R-XX	SKCD6030-L/R-XX	SKCD7025-L/R-XX	SKCD8030-L/R-XX	SKCD10040-L/R-XX	SKCD12050-L/R-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)						
	Stage Surface(mm)	40x40	40x60	60x60	60x60	60x60	60x60	80x80
	Full Stroke(mm)	±7.5	±15	±10	±15	±25	±25	±10
	Main Body Thickness(mm)	X axis:20 XY axis:40	X axis:20 XY axis:40		X axis:21 XY axis:42	X axis:25 XY axis:50	X axis:30 XY axis:60	X axis:35 XY axis:70
	Drive Mechanism	Ball Screw 0601			Ball Screw 0801			
Accuracy Specs	Guidance Mechanism	Crossed Roller Guide						
	Resolution(μm)	5						
	Unidirectional Positioning Accuracy(μm)	10			15			
	Repeatability(μm)	±1			±1.5			
	Straightness(μm)	≤3					≤5	
Electrical Specs	Load Capacity(kgf)	3			10	15	20	25
	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)						
	Step Angle	1.8°						
	Rated Current	1A			2A			
	Maximum Speed	10mm/sec						
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)						

Crossed Roller Guide •Internal Limit Switch •Aluminum Alloy Motorized Stage



Model	X axis	SKCEX4015-XX	SKCEX6020-XX	SKCEX6030-XX	SKCEX6050-XX
	XY axis	SKCEY4015-XX	SKCEY6020-XX	SKCEY6030-XX	SKCEY6050-XX
	Z axis	SKCEZ4015-XX	SKCEZ6020-XX	SKCEZ6030-XX	SKCEZ6050-XX
	XYZ axis	SKCED4015-XX	SKCED6020-XX	SKCED6030-XX	SKCED6050-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)			
	Stage Surface(mm)	40x40	60x60	60x70	60x90
	Full Stroke(mm)	±7.5	±10	±15	±25
	Main Body Thickness(mm)	X axis:30 XY axis:60			
	Drive Mechanism	Ball Screw 0601	Ball Screw 0801		
Accuracy Specs	Guidance Mechanism	Crosed Roller Guide			
	Resolution(μm)	5			
	Unidirectional Positioning Accuracy(μm)	10			
	Repeatability(μm)	±1			
	Straightness(μm)	≤3			
	Load Capacity(kgf)	3	5		
	Electrical Specs	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)		
Step Angle		1.8°			
Rated Current		1A	2A		
Maximum Speed		10mm/sec			
Sensor		CW+CCW+ORG (NPN Normally Closed, DC24V)			

*Note: -XX = Custom design

Crossed Roller Guide •Heavy-Duty •External Limit Switch •Aluminum Alloy Motorized Stage



Model	X axis	SKCTX7025-XX	SKCTX8030-XX	SKCTX10040-XX	SKCTX12050-XX
	XY axis	SKCTY7025-XX	SKCTY8030-XX	SKCTY10040-XX	SKCTY12050-XX
	Z axis	SKCTZ7025-XX	SKCTZ8030-XX	SKCTZ10040-XX	SKCTZ12050-XX
	XYZ axis	SKCTD7025-XX	SKCTD8030-XX	SKCTD10040-XX	SKCTD12050-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)			
	Stage Surface(mm)	70x70	80x80	100x100	120x120
	Full Stroke(mm)	±12.5	±15	±20	±25
	Main Body Thickness(mm)	X axis:21 XY axis:42	X axis:26 XY axis:52	X axis:30 XY axis:60	X axis:35 XY axis:70
	Drive Mechanism	Ball Screw 0601	Ball Screw 0801		
Accuracy Specs	Guidance Mechanism	Crossed Roller Guide			
	Resolution(μm)	5			
	Unidirectional Positioning Accuracy(μm)	10	15		
	Repeatability(μm)	±1	±1.5		
	Straightness(μm)	≤3	≤5		
	Load Capacity(kgff)	10	15	20	25
Electrical Specs	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)			
	Step Angle	1.8°			
	Rated Current	1A			
	Maximum Speed	10mm/sec			
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)			

Crossed Roller Guide •Heavy-Duty •Long-Stroke •External Limit Switch •Aluminum Alloy Motorized Stage



Model	X axis	SKCLX8070-XX	SKCLX80100-XX
	XY axis	SKCLY8070-XX	SKCLY80100-XX
	Z axis	SKCLZ8070-XX	SKCLZ80100-XX
	XYZ axis	SKCLD8070-XX	SKCLD80100-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)	
	Stage Surface(mm)	80x130	
	Full Stroke(mm)	±35	
	Main Body Thickness(mm)	X axis:46 XY axis:92	
	Drive Mechanism	Ball Screw 0802	
Accuracy Specs	Guidance Mechanism	Crossed Roller Guide	
	Resolution(μm)	10	
	Unidirectional Positioning Accuracy(μm)	15	
	Repeatability(μm)	±1.5	
	Straightness(μm)	≤3	≤7
Electrical Specs	Load Capacity(kgf)	Horizontal: 20Kg Vertical: 10Kg	
	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)	
	Step Angle	1.8°	
	Rated Current	2A	
	Maximum Speed	20mm/sec	
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)	

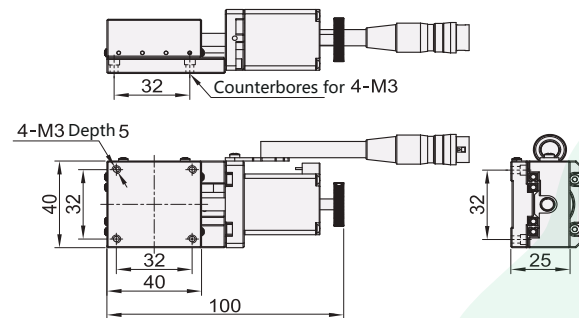
*Note: -XX = Custom design



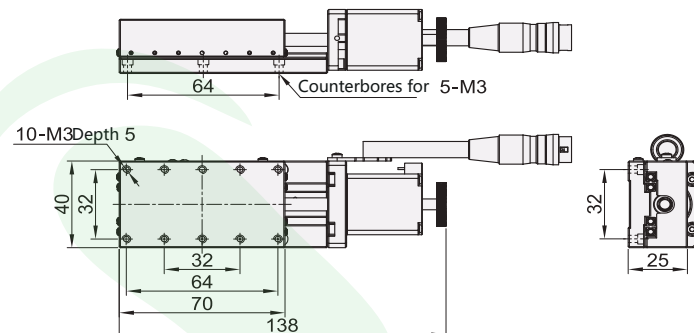
SKCIX-XX Integrated Motor-Screw • Internal Limit Switch Motorized Stage



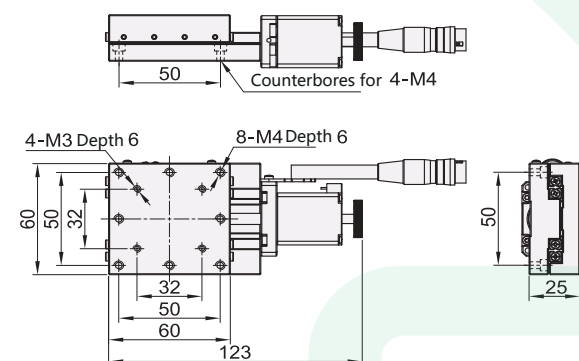
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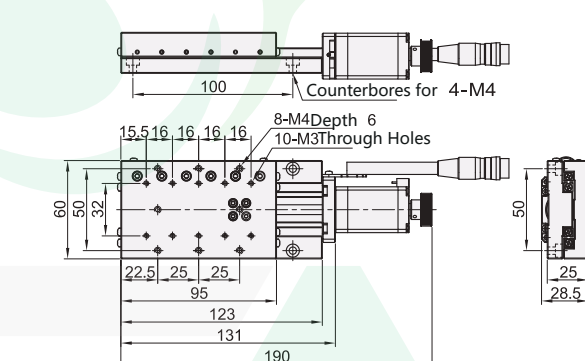
SKCIX4030-XX



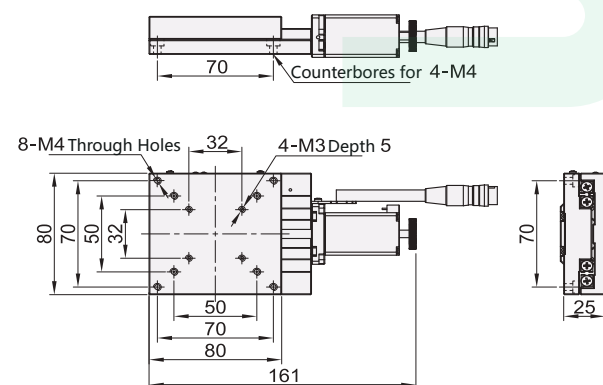
SKCIX6020-XX



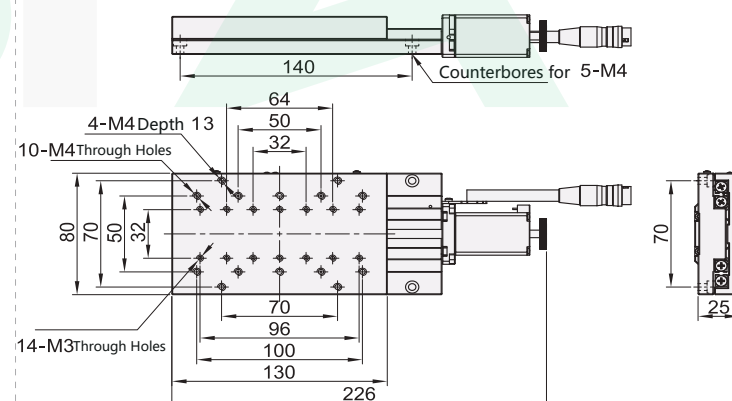
SKCIX6050-XX



SKCIX8030-XX



SKCIX8060-XX



Model Code	Dimensions	Stage Surface (mm)	Full Stroke (mm)	Motor Type	Maximum Speed (mm/sec)	Unidirectional Positioning Accuracy (μm)	Repeatability (μm)	Parallelism (μm)	Straightness (μm)	Load Capacity (kgf)	Weight (kg)
SKCIX-XX	4015	40x40	±7.5	2-Phase Stepper Motor	16	≤15	±1.0	30	3	6	0.2
	4030	40x70	±15							7	0.25
	6020	60x60	±10							8	0.32
	6050	60x95	±25							10	0.53
	8030	80x80	±15					40		12	0.6
	8060	80x130	±30							14	0.9

*Note: -XX = Custom design

SKHZ-XX Wedge Mechanism • Horizontal Lifting Motorized Stage



Model	SKHZ6010-XX	SKHZ8020-XX
Material	Aluminum Alloy (Black Anodization)	
Stage Surface (mm)	65x70	80x80
Full Stroke (mm)	10	20
Main Body Thickness (mm)	55~65	60~80
Drive Mechanism	Ball Screw 0801	
Guidance Mechanism	Crossed Roller Guide	
Resolution (μm)	2.5	
Unidirectional Positioning Accuracy (μm)	10	
Repeatability (μm)	±1	
Parallelism (μm)	50	
Load Capacity (kgf)	10	20
Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)	
Step Angle	1.8°	
Rated Current	2A	
Maximum Speed	5mm/sec	
Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)	

SKHEZ-XX Wedge Mechanism • Horizontal Lifting Motorized Stage

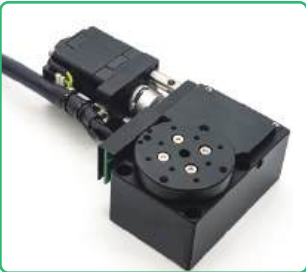


	Model	SKHEZ6004-XX	SKHEZ8008-XX	SKHEZ12015-XX	SKHEZ12030-XX	SKHEZ18050-XX	SKHEZ24024-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)					
	Stage Surface(mm)	60x88	80x	120x120	120x150	180x180	240x240
	Full Stroke(mm)	4 38~	100 8	15 79~	30 85~	50 137~	24 82~
	Main Body Thickness(mm)	42	63~71	94	115	187	106
	Drive Mechanism	Ball Screw 0801				Ball Screw 1202	
	Guidance Mechanism	Crossed Roller Guide					
Accuracy Specs	Resolution(μm)	1.25		1.825	2.5	5	-
	Unidirectional Positioning Accuracy(μm)	10			15		
	Repeatability(μm)	±1			±2		
	Parallelism(μm)	≤5			≤7		
	Load Capacity(kgf)	7	20		30	50	
	Electrical Specs	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)				
Step Angle		1.8°					
Rated Current		2A				4A	2A
Maximum Speed		2.5mm/sec		3.7mm/sec	5mm/sec	10mm/sec	-
Sensor		CW+CCW+ORG (NPN Normally Closed, DC24V)					

*Note: -XX = Custom design



SWR-XX Ball Screw Driven •Small-Angle Rotary Stage



Model		SWR4017-XX	SWR6006-XX	SWR6011-XX	SWR8020-XX	SWR8038-XX	SWR12026-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)					
	Stage Surface(mm)	40	60	60	80	80	120
	Full Stroke(mm)	±8.5°	±3°	±5.5°	±10°	±19°	±13°
	Main Body Thickness(mm)	35			35	45	
	Drive Mechanism	Ball Screw					
Guidance Mechanism	Angular Contact Bearing						
Accuracy Specs	Resolution(μm)	0.01734115	0.01060548	0.01060548	0.00650976	0.00650976	0.00440702
	Unidirectional Positioning Accuracy(μm)	0.03°					
	Repeatability(μm)	±0.03°					
	Parallelism(μm)	≤30					
	Load Capacity(kgff)	4	6		6	8	10
Electrical Specs	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)					
	Step Angle	1.8°					
	Rated Current	1A					
	Maximum Speed	34.7°/sec	21.2°/sec	21.2°/sec	16°/sec	13°/sec	9°/sec
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)					

SKWR-XX 360° Worm Gear Driven Rotary Stage



Model		SKWR40360-XX	SKWR60360-XX	SKWR100360-XX	SKWR200360-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)			
	Stage Surface(mm)	40	60	100	200
	Full Stroke(mm)	360°			
	Main Body Thickness(mm)	35		50	70
	Drive Mechanism	Worm Gear Reduction Ratio: 1:120	Worm Gear Reduction Ratio: 1:180	Worm Gear Reduction Ratio: 1:90	Worm Gear Reduction Ratio: 1:180
Guidance Mechanism		Worm Gear			
Accuracy Specs	Idle Run	≤0.1°			
	Concentricity	30μm			30μm
	Repeatability(μm)	±0.02°m		±0.012°	
	Parallelism(μm)	30μm			
	Load Capacity(kgf)	3		10	30
Electrical Specs	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)			
	Step Angle	1.8°			
	Rated Current	1A		2A	3A
	Maximum Speed	30°/sec	20°/sec	40°/sec	20°/sec
	Sensor		ORG Open-Collector Home Output (NPN Normally Closed, DC24V)		

*Note: -XX = Custom design

Motorized Angular Stage



Worm Gear Drive

Model	SKWX4040-L-XX	SKWX4060-L-XX	SKWX6050-L-XX	SKWX60-75-L-XX	SKWX60100-L-XX	SKWX60125-L-XX	SKWX7070-L-XX	SKWX7096-L-XX	SKWX70122-L-XX
	SKWX4040-R-XX	SKWX4060-R-XX	SKWX6050-R-XX	SKWX60-75-R-XX	SKWX60100-R-XX	SKWX60125-R-XX	SKWX7070-R-XX	SKWX7096-R-XX	SKWX70122-R-XX
Platform Size(mm)	40x40		60x60				70x70		
Stage Thickness(mm)	20		25				26		
Full Stroke(°)	±8	±6	±8.5	±6.5	±5.5	±4.5	±6	±5	±4
Center Height(mm)	40	60	50	75	100	125	70	96	122
Worm Gear Reduction Ratio	1/192	1/272	1/246	1/346	1/446	1/546	1/165	1/217	1/269
Guideway Type	Crossed Roller Guide								
Main Body Material	Aluminum Alloy (Black Anodization)								
Maximum Speed(°/sec)	9.375	13.2	14	10	8	6	10.9	8.2	6.7
Weight(kg)	0.4		0.6				0.7		
Repeatability(°)	≤0.05		≤0.02				≤0.02		
Load Capacity(Kgf)	3		5				6		
Motor Type	28 Stepper Motor								
Step Angle(°)	1.8								
Rated Current(A)	1.3A								
Sensor	CW+CCW+ORG (NPN Open-Collector Output, DC24V)								

Ball Screw Drive

Model	SKBX6050-L-XX	SKBX6075-L-XX	SKBX60100-L-XX	SKBX60125-L-XX	SKBX7070-L-XX	SKBX7096-L-XX	SKBX70122-L-XX
	SKBX6050-R-XX	SKBX6075-R-XX	SKBX60100-R-XX	SKBX60125-R-XX	SKBX7070-R-XX	SKBX7096-R-XX	SKBX70122-R-XX
Platform Size(mm)	60x60				70x70		
Stage Thickness(mm)	25				26		
Full Stroke(°)	±8.5	±5.5	±5	±4	±8	±7	±5.5
Center Height(mm)	50	75	100	125	70	96	122
Guideway Type	Crossed Roller Guide						
Main Body Material	Aluminum Alloy (Black Anodization)						
Degrees per Revolution	0.999824°	0.70907°	0.538984°	0.438032°	0.744059°	0.553565°	0.442492°
Maximum Speed(°/sec)	10	±7	5.4	4.4	7.4	5.5	4.4
Weight(kg)	0.5				0.65		
Repeatability(°)	±0.005						
Load Capacity(Kgf)	5						
Motor Type	28 Stepper Motor						
Step Angle(°)	1.8						
Rated Current(A)	1A						
Sensor	CW+CCW+ORG (NPN Open-Collector Output, DC24V)						

*Note: -XX = Custom design

SKCMY-XX Hollow • Crossed Roller Guide • Monolithic Motorized Stage



Model		SKCMY100050-XX	SKCMY210100-XX	SKCMY280150-XX	SKCMY400200-XX
Mechanical Specs	Material	Aluminum Alloy (Black Anodization)			
	Stage Surface(mm)	100x100	210x210	280x280	400x400
	Full Stroke(mm)	±25	±50	±75	±100
	Main Body Thickness(mm)	50	80		
	Drive Mechanism	Ball Screw 0802	Ball Screw 1205		
	Guidance Mechanism	Angular Contact Bearing			
Accuracy Specs	Resolution(μm)	5	25		
	Unidirectional Positioning Accuracy(μm)	20	15	20	
	Repeatability(μm)	≤3	≤5		
	Parallelism(μm)	±30	±50		
	Load Capacity(kgf)	5	10	20	40
	Motor Type	2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)			
Electrical Specs	Step Angle	1.8°			
	Rated Current		2A		
	Maximum Speed		50mm/sec		
	Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)			

SKMR-XX XY-Axis • Monolithic • Motorized Stage



Model		SKMR60-XX		SKMR80-XX		SKMR120-XX		
Mechanical Specs	Material		Aluminum Alloy (Black Anodization)					
	Stage Surface(mm)				80			
	Travel	XY axis	±10mm		±12mm		±15mm	
	Distance	R axis	±8.5°		±10°			
	Main Body Thickness(mm)		45		55		60	
	Weight(kg)		2.2		2.9		3.4	
Accuracy Specs	Resolution	XY axis	5μm					
		R axis	0.006°		0.0048°		0.0037°	
	Unidirectional Positioning Accuracy	XY axis	15μm					
		R axis	0.05°					
	Repeatability	XY axis	±1.5μm					
		R axis	±0.01°					
	Parallelism(μm)		20		30			
Load Capacity(Kgf)		6		10		25		
Electrical Specs	Motor Type		2-Phase 28 Stepper Motor (Optional 5-Phase Stepper Motor)					
	Step Angle		1.8°					
	Rated Current		1.3A					
	Maximum Speed	XY axis	20mm/sec					
		R axis	12°/sec		9.6°/sec		7.4°/sec	
	Sensor		CW+CCW+ORG (NPN Normally Closed, DC24V)					

*Note: -XX = Custom design

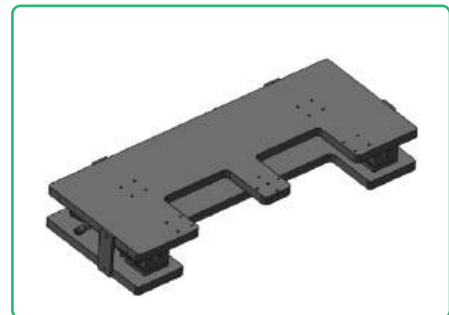
SIA UVW-XX Vision Alignment Stage



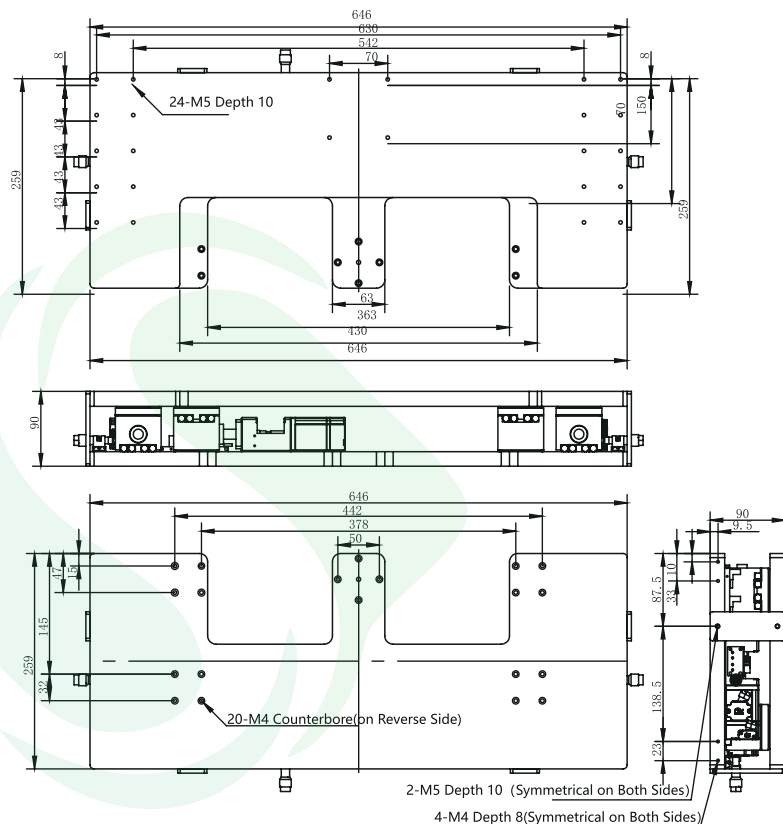
Model	Platform Size (mm)	Base Size (mm)	Full Stroke			Static Load Capacity (kgf)	Dynamic Load Capacity (kgf)	Flatness (m)	Parallelism (m)	Repeatability (mm)	Drive Motor	Lead Screw (mm)	Main Body Material
			X axis	Y axis	θ axis								
SIA1215-XX	120x150	120x150	±3mm	±3mm	±2°	15	8					0601	
SIA1515-XX	150x150	150x150	±3mm	±3mm	±2°	25	10						
SIA1518-XX	150x150	180x180						±0.01	±0.01		2 Phase, 28 Stepper Motor		
SIA1618-XX	160x160	180x180	±4mm	±4mm	±3°	30	15						
SIA1818-XX	180x180	180x180										0801	
SIA1921-XX	190x190	210x210									2 Phase, 42 Stepper Motor		Aluminum Alloy (Black Anodization)
SIA2023-XX	200x200	230x230	±5mm	±5mm	±3°	80	30	±0.02	±0.03				
SIA2528-XX	250x250	280x280								±0.005			
SIA3535-XX	350x350	350x350	±5mm	±5mm	±2°								
SIA3545-XX	350x350	450x450											
SIA3840-XX	380x380	400x400	±5mm	±5mm	±1.8°								
SIA4545-XX	450x450	450x450	±24mm	±24mm	±4°						2 Phase, 57 Stepper Motor		
SIA4555-XX	450x450	550x550	±5mm	±5mm	±1.5°	400	100	±0.03	±0.05			1202	
SIA5565-XX	550x550	650x650											
SIA6575-XX	650x650	750x750	±5mm	±5mm	±1°								
SIA90100-XX	900x900	1000x1000	±5mm	±5mm	±0.5°								

*Note: -XX = Custom design

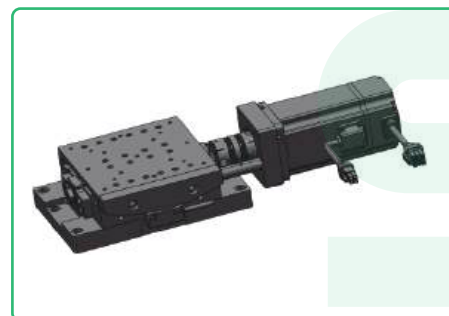
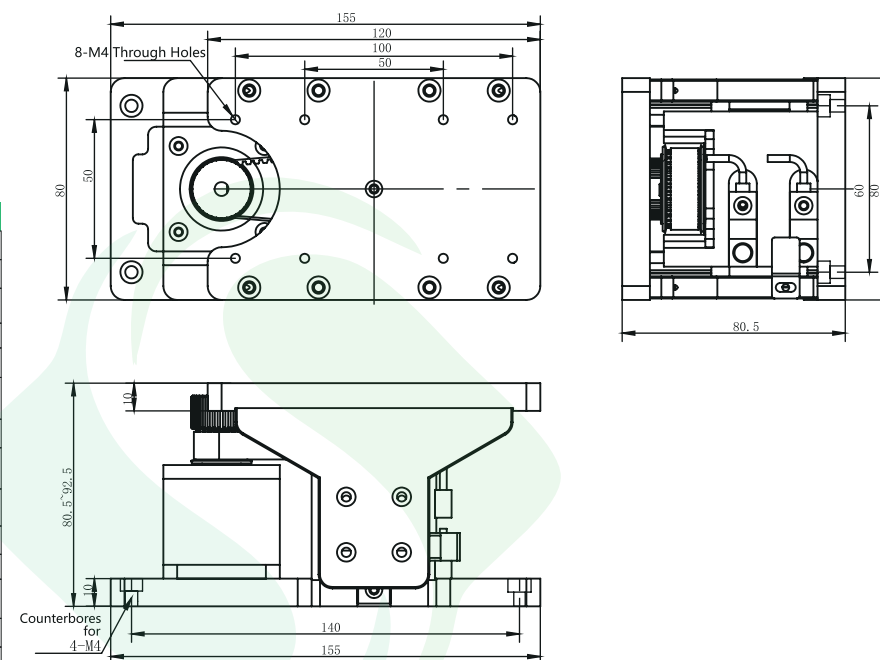
Customized Product



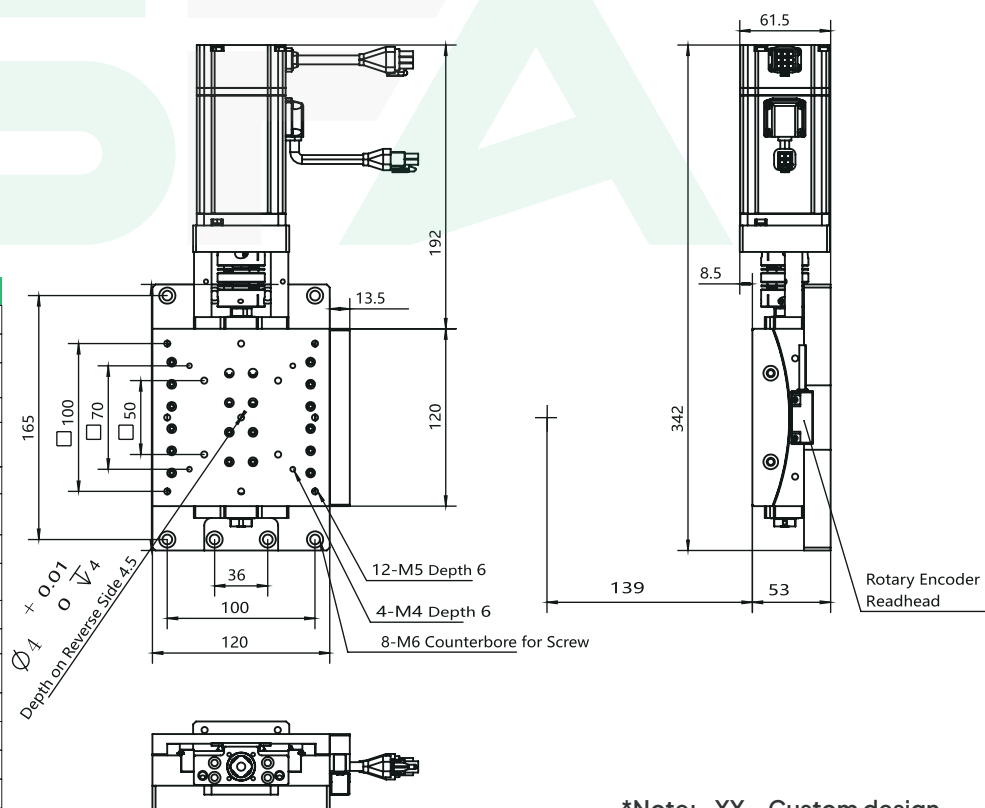
Model	SIA-MV-259-XX
Direction of Travel	X, Y, θ axis
Main Body Material	Aluminum Alloy (Black Anodization)
Stage Surface	259x630mm
Base Plate Size	259x630mm
Main Body Thickness	90mm
Drive Type	Inovance 50W Servo Motor
Drive Component	Ball Screw(2mm Lead, C5 Accuracy Grade)
Repeatability	$\pm 0.002\text{mm}$
Full Stroke	X: $\pm 5\text{mm}$ Y: $\pm 5\text{mm}$ θ : $\pm 1^\circ$
Static Load Capacity	200kgf
Dynamic Load Capacity	30kgf
Parallelism	$\pm 0.08\text{mm}$
Maximum Speed	10mm/S
Flatness	$\pm 0.06\text{mm}$
Sensor	3 axis (CW+CCW+ORG NPN Output, Normally Signal, DC24V)



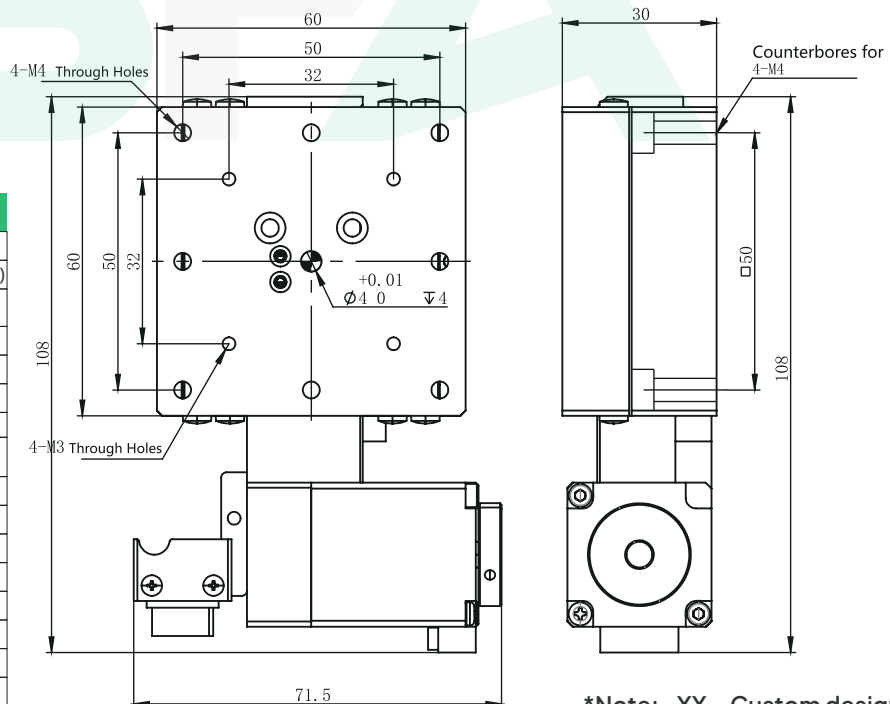
Model	SKHZ1280-XX
Direction of Travel	θ axis
Main Body Material	Aluminum Alloy (Black Anodization)
Load Mounting Platform Size	80x120mm
Main Body Thickness	80.5mm
Drive Type	42 2-Phase Stepper Motor
Guidance Component	Linear Guide
Drive Component	Trapezoidal Lead Screw (2mm Lead)
Unidirectional Positioning Accuracy	15 μm
Repeatability	$\pm 10\mu\text{m}$
Resolution	6.66667 μm
Full Stroke	12mm
Load Capacity	Horizontal Load Capacity: 4kgf
Maximum Speed	10mm/sec
Parallelism	0.05mm
Straightness	$\leq 0.03\text{mm}$
Weight	1.2kg
Sensor	3 axis (CW+CCW+ORG NPN Output, Normally Signal, DC24V)



Model	SKGX120139-XX
Direction of Travel	θ axis
Main Body Material	Aluminum Alloy (Black Anodization)
Load Mounting Platform Size	120x120mm
Main Body Thickness	53mm(Maximum Thickness:61.5mm)
Center of Rotation Height	139mm
Drive Type	Googol 400W Servo Motor
Guidance Component	DV Linear Guide
Drive Component	Worm Gear (310:1 Reduction Ratio)
Positioning Accuracy	0.008 $^\circ$
Repeatability	$\pm 0.002^\circ$
Full Stroke	$\pm 5^\circ$
Encoder	Incremental Rotary Encoder (Domestic) (with Home and CW/CCW Limit)
Limit Switches	with Mechanical End-Stop Hard Limit
Load Capacity	15kgf
Maximum Speed	10 $^\circ$ /sec
Weight	4kg



Model	SDX6020-XX
Direction of Travel	X axis
Main Body Material	Aluminum Alloy (Black Anodization)
Load Mounting Platform Size	60x60mm
Platform Thickness	30mm
Drive Type	28 Two-Phase Stepper Motor
Guidance Component	Crossed Roller Guide
Drive Component	Timing Belt, Timing Pulley
Unidirectional Positioning Accuracy	10 μm
Repeatability	$\pm 2\mu\text{m}$
Full Stroke	$\pm 10\text{mm}$
Load Capacity	5kgf
Maximum Speed	10mm/sec
Parallelism	15 μm
Straightness	$\leq 3\mu\text{m}$
Weight	0.6kg
Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)

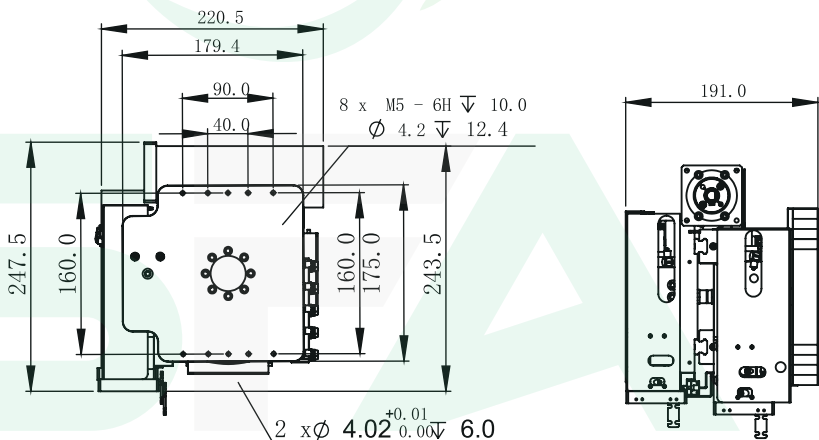
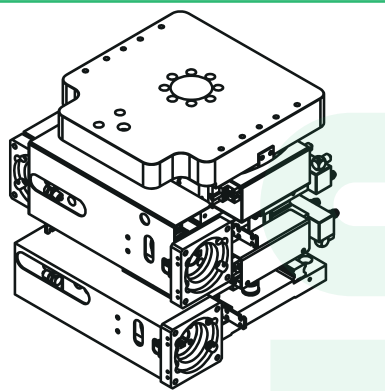
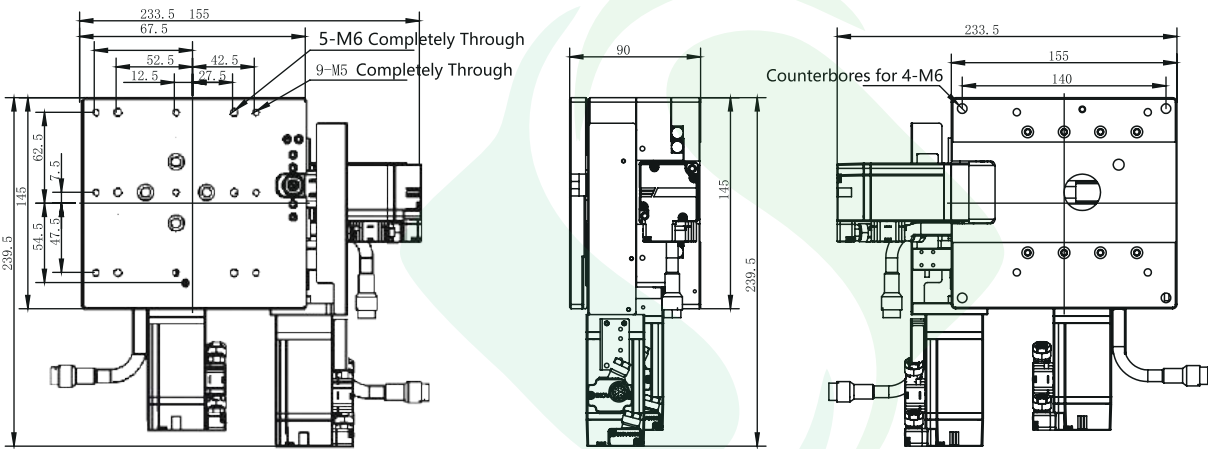


*Note: -XX = Custom design

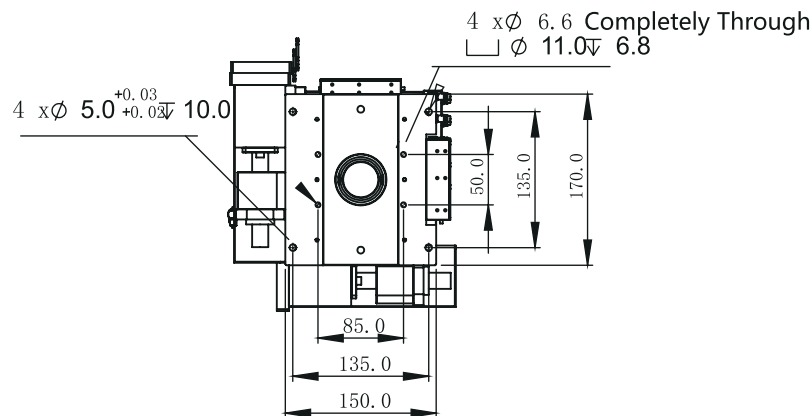
*Note: -XX = Custom design



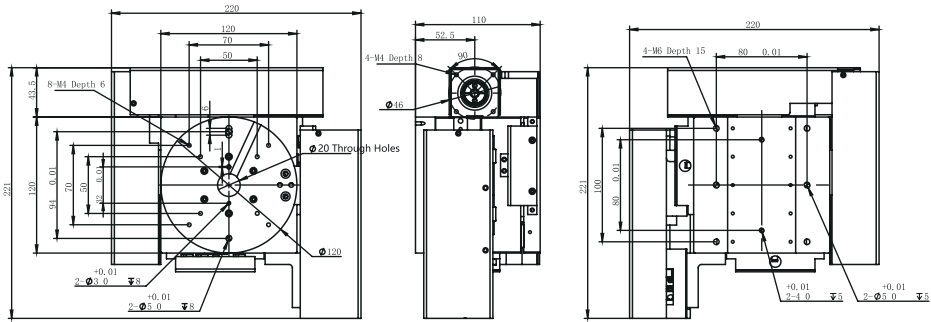
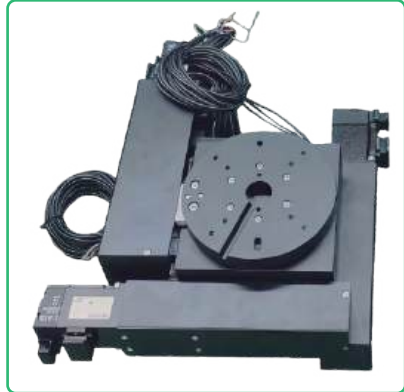
Model	SKHZ1280-XX
Direction of Travel	Z Y θ axis
Main Body Material	Aluminum Alloy (Black Anodization)
Load Mounting Platform Size	145x155mm
Main Body Thickness	60mm
Drive Type	28 Stepper Motor
Guidance Component	Crossed Roller Guide
Drive Component	Ball Screw (1mm Lead, C5 Accuracy Grade)
X Y-axis Full Stroke	±10mm
θ axis	±8°
Maximum Speed	50mm/sec
X Y-axis Unidirectional Positioning Accuracy	10μm
θ axis Positioning Accuracy	0.05°
X Y-axis Repeatability	±1μm
θ axis Repeatability	±0.003°
Parallelism	50μm
Straightness	≤3μm
Weight	3.5kg
Load Capacity	15kg
Sensor	CW+CCW+ORG (NPN Normally Closed, DC24V)



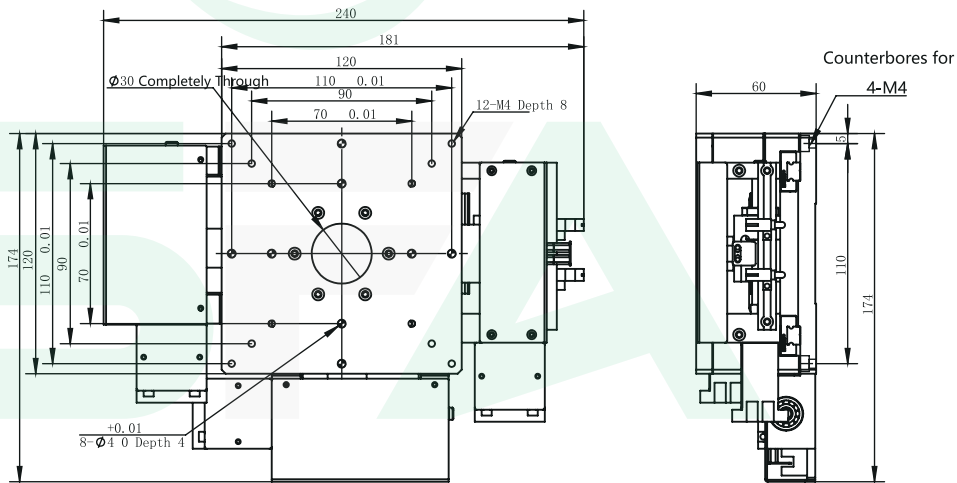
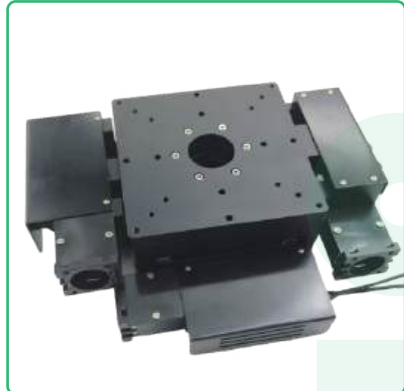
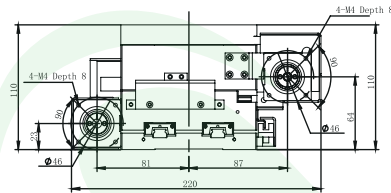
Model	SKMHR 1618-L-HC400W-XX
Item	Specification
Platform Size(mm)	180x160
Travel(mm)	X: ±15 Y:15
Rotation Angle(°)	X: 10°
Main Body Material	Aluminum Alloy (Black Anodization)
Static Load Capacity(Kg)	30
Dynamic Load Capacity(Kg)	10
Repeatability	X: ±4 Y:±0.005°
Unidirectional Positioning Accuracy	20
Motor Specification	400W Servo Motor
Note: 1. Lead Screw Model: 1610*3 2. Motor: Inovance 400W *3 3. Unit Weight: 9.8KG 4. Limit Sensor Type: NPN Output	



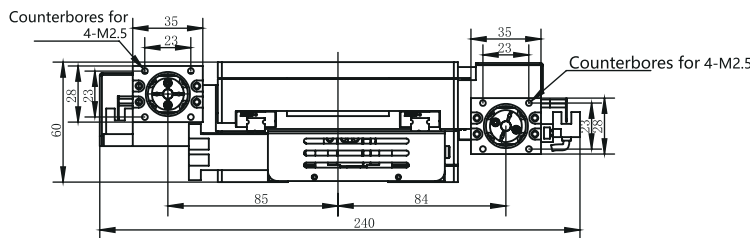
*Note: -XX = Custom design



Model	XYR120-HSF100W-XX
Direction of Travel	X,Y,Z axis
Main Body Material	Aluminum Alloy (Black Anodization)
Load Mounting Platform Size	120mm
Main Body Thickness	110mm
Drive Type	Inovance 100W Servo Motor
Guidance Component	Linear Guide
Drive Component	Ball Screw (5mm Lead, C5 Accuracy Grade)
Unidirectional Positioning Accuracy	±20μm
Repeatability	±5μm
Full Stroke	X axis: ±20mm Y axis: ±20mm R axis: ±10°
Load Capacity	20kgf
Maximum Speed	X :20mm/s Y :20mm/s R :20mm/s
Parallelism	50μm
Straightness	≤20μm
Weight	19.5kg
Sensor	(CW+CCW+ORG NPN Output, Normally Signal, DC24V)

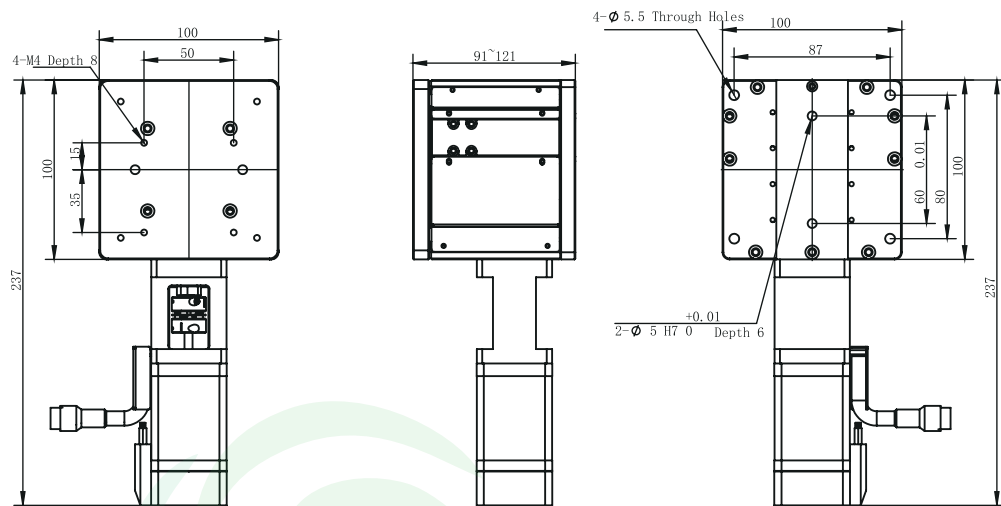


Model	SCEXYR120-28CL-XX
Direction of Travel	X,Y,Z axis
Main Body Material	Aluminum Alloy (Black Anodization)
Load Mounting Platform Size	120x120mm
Main Body Thickness	60mm
Drive Type	28 High-Torque Stepper Motor
Guidance Component	Linear Ball Guide
Drive Component	Ball Screw (1mm Lead, C5 Accuracy Grade)
Unidirectional Positioning Accuracy	15μm
Repeatability	±1.5μm
Resolution	10μm
Full Stroke	X axis: 20mm Y axis:20mm R axis:±7.5°
Load Capacity	20kgf
Maximum Speed	50mm/sec
Parallelism	0.04mm/20mm
Straightness	0.01mm/20mm
Weight	2.5kg
Sensor	(CW+CCW+ORG NPN Output, Normally Signal, DC24V)



*Note: -XX = Custom design

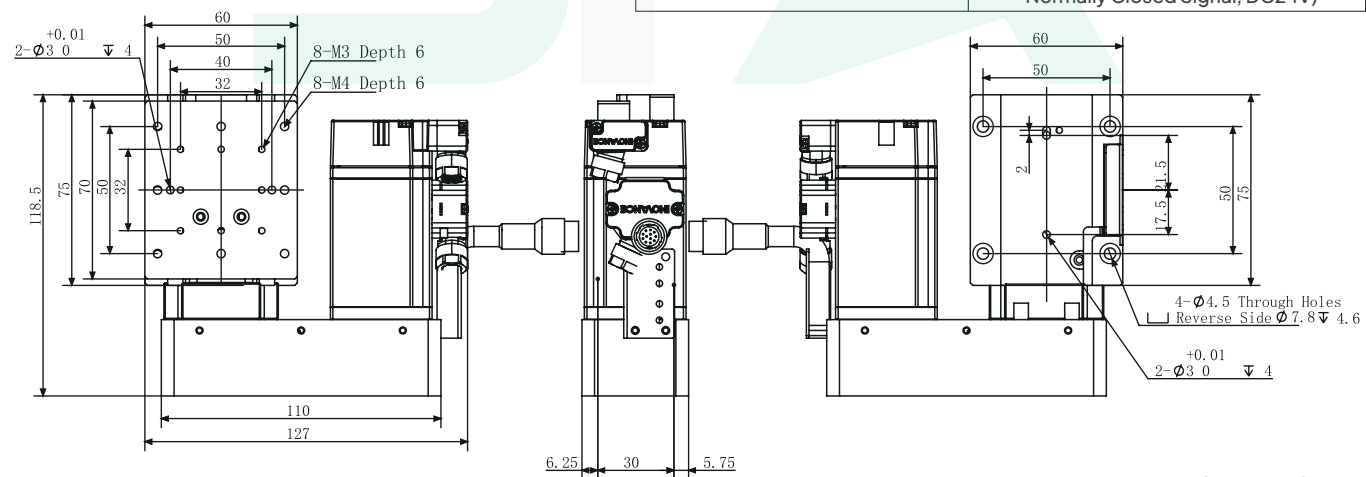




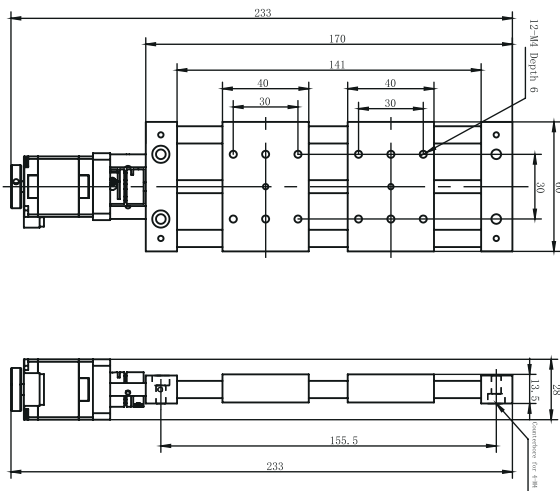
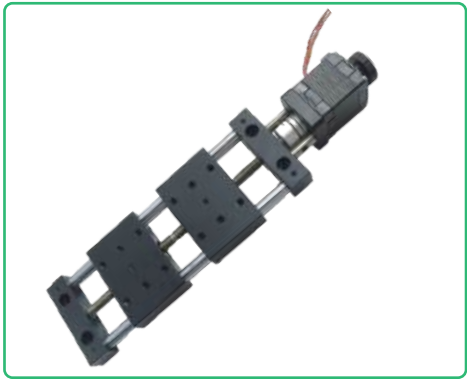
Model	Material	Stage Surface	Height	Drive Component	Resolution	Unidirectional Positioning Accuracy	Repeatability	Full Stroke	Load Capacity	Maximum Speed	Weight
SKHEZ10030-42CL-XX	Aluminum Alloy (Black Anodization)	100x100mm	91-121mm	Ball Screw(1mm Lead, C5 Accuracy Grade)	2.5μm	10μm	±2μm	30mm	10kgf	20mm/sec	2.0kg



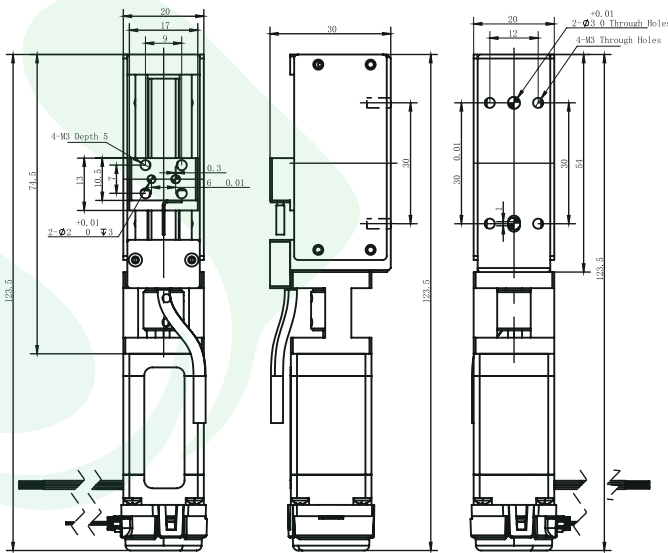
Model	SKEX6030-R-HSF100W-XX
Direction of Travel	X axis
Main Body Material	SUS440C (Electroless Nickel Plating)
Load Mounting Platform Size	60x60mm
Main Body Thickness	30mm
Drive Type	Inovance 100W Servo Motor
Drive Component	Ball Screw(1mm Lead, C5 Accuracy Grade)
Unidirectional Positioning Accuracy	10μm
Repeatability	±1.5μm
Resolution	5μm
Full Stroke	±1.5μm
Load Capacity	10kgf
Maximum Speed	10mm/sec
Parallelism	15μm
Straightness	≤3μm
Weight	1.5kg
Sensor	CW+CCW+ORG (NPN Output, Normally Closed Signal, DC24V)



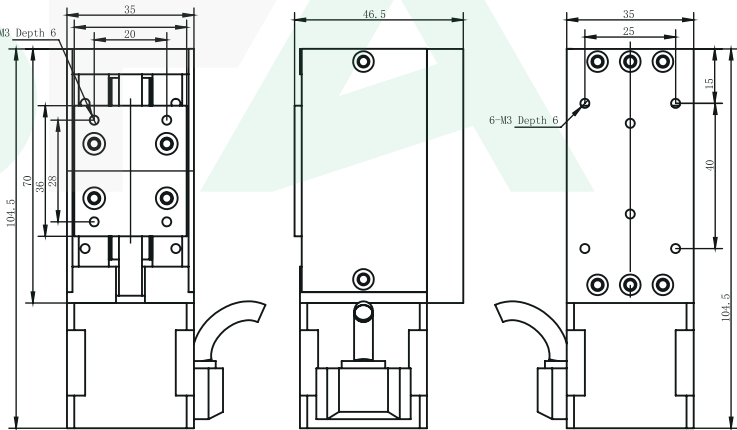
*Note: -XX = Custom design



Model	Direction of Travel	Main Body Material	Stage Surface	Main Body Thickness	Drive Type	Drive Component	Full Stroke	Load Capacity	Parallelism	Moving Parallelism	Weight
SHH60A-D1-XX	X axis	Aluminum Alloy (Black Anodization)	60x40mm	13.5mm	28 2-Phase Stepper Motor	Precision Lead Screw (0.75mm Lead)	±17mm	4kgf	50µm	≤2µm	0.15kg



Model	Main Body Material	Stage Surface	Main Body Thickness	Drive Type	Unidirectional Positioning Accuracy	Repeatability	Load Capacity	Full Stroke	Sensor
STBX20-A-XX	Aluminum Alloy (Black Anodization)	17x10.5mm	30mm	20 Closed-Loop Stepper Motor	20μm	±4μm	1kgf	22mm	ORG (NPN Output, Normally Closed Signal, DC24V)



Model	Stage Surface	Main Body Thickness	Drive Type	Drive Component	Full Stroke	Load Capacity	Parallelism	Moving Parallelism	Weight
SZ35C33-XX	31x36mm	46.5	35 Stepper Motor	Trapezoidal Lead Screw (1.27mm Lead)	±7.5mm	8kgf	0.05mm	≤0.01mm/15mm	0.3kg



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