

LINEAR MOTION
SYSTEM INTELLIGENT
PRODUCTS
MANUFACTURER



FSL series module, good stability, compact structure, and has closed structure, anti chip, strong load.suitable for normal working environment, it is convenient to use single axis or multi-axis to assemble easy functional usage robotic arms for kinds of industries

Maximum Load

100kg

maximum speed

500mm/s

Repeat positioning accuracy

±0.02mm

Longest travel

1500mm

FUYU TECHNOLOGY CO.,LTD

FSL

CLOSED SCREW MODULE

WEAR-RESISTANT AND DURABLE
SIMPLE STRUCTURE



FSL60

60mm
width
1050mm
max stroke
40kg
max payload



FSL80

80mm
width
1200mm
max stroke
50kg
max payload

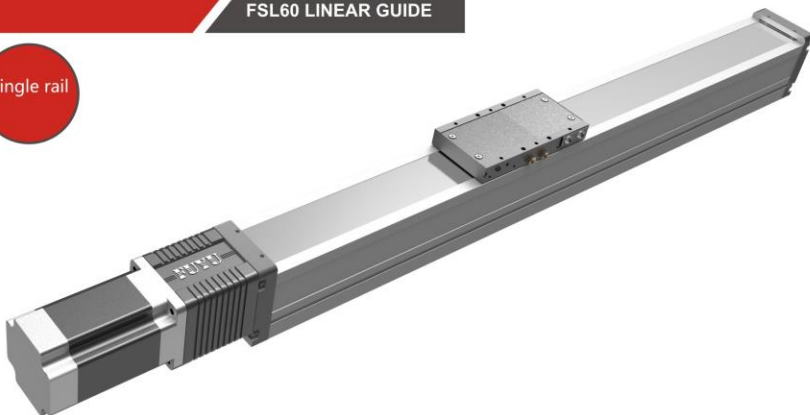


FSL120

120mm
width
1500mm
max stroke
100kg
max payload

FSL60 LINEAR GUIDE

Single rail



[mm] Effective Stroke	50~1050	[kg] Vertical reference Loading	20	[kg] Horizontal reference Loadings	40
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FSL60-ORDERING METHOD

FSL60	C7	10	E300	BC	B60	S
Screw module - FSL series		Lead		Motor position		Brand name
Model	Wide(mm)	screw lead		Motor folding direction		Servo motor
FSL60	60	05	5mm	BC	电机直连	Motor Exposed
		10	10mm	BL	电机左折	Motor Left Side
		20	20mm	BR	电机右折	Motor Right Side
				BD	电机下折	Motor Down Side
Repeated Positioning Accuracy		Effective trip				Stepping motor
Screw accuracy		Screw Outer Diameter	Wide(mm)			※ B60
C7		Ø16	50-1050			60X102
						brake
						Extra Enquiry If Need Brake

FSL60-OPTIONAL ACCESSORIES

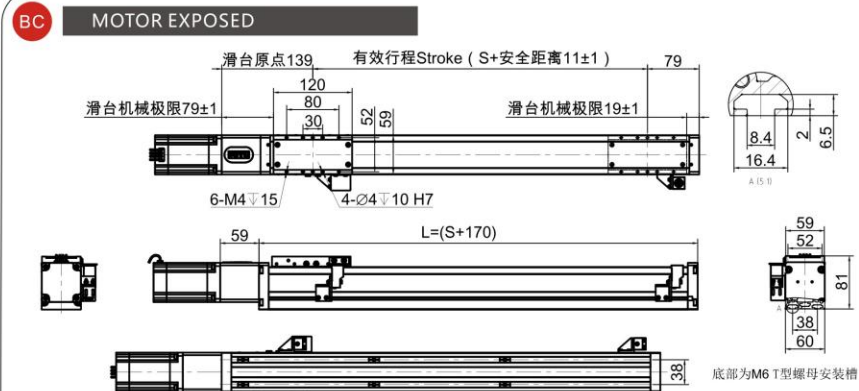
Touch screen	Controller	Limit switch	DC power model	Drive model
TPC7062HW	FSC-2A	SN04-N(NPN.NO)	PMT-24V350W	FMDD50D40NOM
	FMC4030	FML-(NPN/PNP)	LRS-350-24	

FSL60-TECHNICAL PARAMETER

TECHNICAL PARAMETER

[mm] Position Accuracy			±0.02																									
[mm] Ball Screw Diameter			φ16								φ16								φ16									
[mm] Lead			5								10								20									
60102 stepper motor	Horizontal	[kg] loadings	10	15	20	25	30	35	40	10	15	20	25	30	35	40	10	15	20	25	30	35	40					
		[mm/s] Speed	100	100	100	100	100	100	100	200	200	200	200	200	180	180	300	300	250	220	200	180	180					
	Side Mounted	[mm/s] Speed	80	80	50									180	180	100									220	200	150	
		[mm/s] Speed	80	80									180	180									300	300				
	Down Mounted	[mm/s] Speed	80	80									180	180									300	300				
		[mm/s] Speed	80	80																								
	noise[dB]		≤70																									
400W AC Servo Motor	Horizontal	[kg] loadings	10	15	20	25	30	35	40	10	15	20	25	30	35	40	10	15	20	25	30	35	40					
		[mm/s] Speed	200	200	200	200	200	200	200	400	400	400	400	400	400	400	400	400	400	400	400	400	400					
	Side Mounted	[mm/s] Speed	150	120	100									300	250	200									330	300	250	
		[mm/s] Speed	180	150									300	250									360	320				
	Down Mounted	[mm/s] Speed	180	150									300	250									360	320				
		[mm/s] Speed	180	150																								
	noise[dB]		≤70																									
储藏温度[°C] Storage temperature			-15°C—+60°C																									

FSL60-DIMENSIONAL DRAWING



[mm] Stroke	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1050
[mm] Linear Guide Total Length	381	431	481	531	581	631	681	731	781	831	931	1031	1131	1231	1381
[kg] Weight	409	459	509	559	609	659	709	759	809	859	959	1059	1159	1259	1409

The installation length of nut shall be subject to the actual situation

FSL80 LINEAR GUIDE

Single rail

2D/3D图纸下载
国内版扫一扫

[mm]

Effective Stroke

50~1200

[kg]

Vertical reference Loading

30

[kg]

Horizontal reference Loadings

50

FSL80-ORDERING METHOD

FSL80

C7

10

E300

BC

B86

S

Screw module - FSL series

Model	Wide(mm)
FSL80	80

Lead

screw lead	
10	10mm

Motor position

Motor folding direction	
BC	电机直连 Motor Exposed
BL	电机左折 Motor Left Side
BR	电机右折 Motor Right Side
BD	电机下折 Motor Down Side

Brand name

Servo motor	
P	20:200W
T	40:400W
Y	75:750W
M	
C	

Stepping motor	
※ B60	60X102
B86	86X98

Repeated Positioning Accuracy

Screw accuracy	Effective trip
C7	±0.02

Effective trip

Screw Outer Diameter	Wide(mm)
Ø16	50-1200

brake

Extra Enquiry If Need Brake

FSL80-OPTIONAL ACCESSORIES				
Touch screen	Controller	Limit switch	DC power model	Drive model
TPC7062HW	FSC-2A	SN04-N(NPN.NO)	PMT-24V350W	FMDD50D40NOM
	FMC4030	FML-(NPN/PNP)	LRS-350-24	FMDT240A52NOM

TECHNICAL PARAMETER

FSL80 TECHNICAL PARAMETER													
[mm] Position Accuracy			±0.02										
[mm] Ball Screw Diameter			φ16										
[mm] Lead			10										
60102 stepper motor	Horizontal	[kg] loadings	5	10	15	20	25	30	35	40	45	50	
		[mm/s] Speed	200	200	200	200	200	200	180	180	100	100	
	Side Mounted	[mm/s] Speed	200	200	200	180							
	Vertical	[mm/s] Speed	180	180	180	160	100	80					
	Down Mounted	[mm/s] Speed	200	200	200	180							
	noise[dB]		≤70										
400W AC Servo Motor	Horizontal	[kg] loadings	5	10	15	20	25	30	35	40	45	50	
		[mm/s] Speed	400	400	400	400	400	400	400	380	380	380	
	Side Mounted	[mm/s] Speed	400	400	400	380							
	Vertical	[mm/s] Speed	400	400	400	350	350	350					
	Down Mounted	[mm/s] Speed	400	400	400	380							
	noise[dB]		≤75										
[°C] Storage temperature			-15°C—+60°C										

FSL80-DIMENSIONAL DRAWING

BC

MOTOR EXPOSED

[mm] Stroke	50	100	150	200	250	300	400	500	600	700	800	900	1000	1100	1200
[mm] Linear Guide	415	465	515	565	615	665	765	865	965	1015	1115	1265	1365	1465	1565
Total Length	3.8	4.1	4.4	4.7	5	5.3	5.9	6.5	7.1	7.7	8.3	8.9	9.5	10.1	10.7
[kg] Weight	443	493	543	593	643	693	793	893	993	1093	1193	1293	1393	1493	1593

400W AC Servo Motor

3.8

4.1

4.4

4.7

5

5.3

5.9

6.5

7.1

7.7

8.3

8.9

9.5

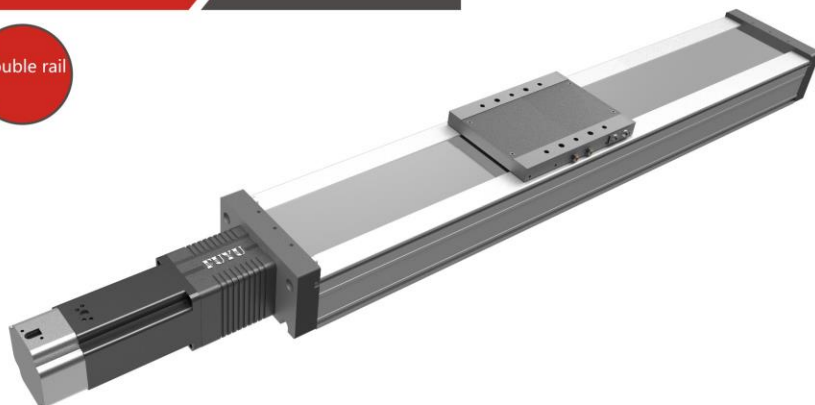
10.1

10.7

The installation length of nut shall be subject to the actual situation

FSL120 LINEAR GUIDE

Double rail



[mm] Effective Stroke	50~1500	[kg] Vertical reference Loading	50	[kg] Horizontal reference Loadings	100
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FSL120-ORDERING METHOD

FSL120	C7	10	E300	BC	B86	S
Screw module - FSL series		Lead		Motor position		Brand name
Model	Wide(mm)	screw lead		Motor folding direction		Servo motor
FSL120	120	05	5mm	BC	Motor Exposed	P 40:400W
		10	10mm	BL	Motor Left Side	T 75:750W
				BR	Motor Right Side	Y
				BD	Motor Down Side	M
						C
Repeated Positioning Accuracy		Effective trip		Stepping motor		
Screw accuracy		Screw Outer Diameter		886		86X98
C7		Wide(mm)				※ 86X128
		Ø16				
		Ø20				
		50-1050				
		50-1500				
				brake		
				Extra Enquiry If Need Brake		

FSL120-OPTIONAL ACCESSORIES

Touch screen	Controller	Limit switch	DC power model	Drive model
TPC7062HW	FSC-2A	SN04-N(NPN.NO)	PMT-24V350W	FMDT240A52NOM
	FMC4030	FML-(NPN/PNP)	LRS-350-24	

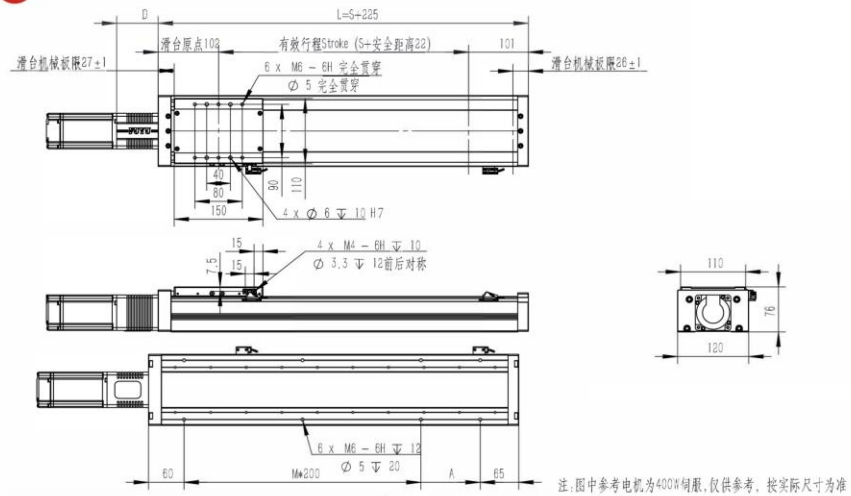
FSL120-TECHNICAL PARAMETER

TECHNICAL PARAMETER

[mm] Position Accuracy			±0.02																							
[mm] Ball Screw Diameter			φ16/20																							
[mm] Lead			05										10													
86128 stepper motor	Horizontal	[kg] loadings	10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100				
		[mm/s] Speed	100	100	100	100	100	100	100	80	80	200	200	200	200	200	200	200	200	160	160					
	Side Mounted	[mm/s] Speed	100	100	100	100											200	200	200	200						
		[mm/s] Speed	100	100	100	100	90											200	200	200	200	180				
	Down Mounted	[mm/s] Speed	100	100	100	100											200	200	200	200						
		noise[dB]		≤75																						
400W AC Servo Motor	Horizontal	[kg] loadings	10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100				
		[mm/s] Speed	200	200	200	200	200				200	200	200	400	400	400	400	400	400	400	400	400				
	Side Mounted	[mm/s] Speed	200	200	200	200											400	400	400	400						
		[mm/s] Speed	200	200	200	200	200											400	400	400	400	400				
	Down Mounted	[mm/s] Speed	200	200	200	200											400	400	400	400						
		noise[dB]		≤75																						
750W AC Servo Motor	Horizontal	[kg] loadings	10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100				
		[mm/s] Speed	250	250	250	250	250	250	250	250	250	250	500	500	500	500	500	500	500	500	500	500				
	Side Mounted	[mm/s] Speed	250	250	250	250											500	500	500	500						
		[mm/s] Speed	250	250	250	250	250											500	500	500	500	480				
	Down Mounted	[mm/s] Speed	250	250	250	250											500	500	500	500						
		noise[dB]		≤75																						
[°C] Storage temperature			-15℃—+60℃																							

BC

MOTOR EXPOSED

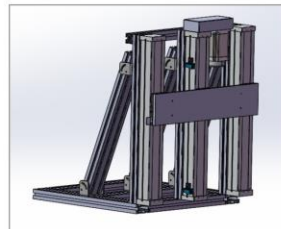


[mm] Stroke		50	100	150	200	250	300	400	500	600	700	800	900	1000	1100	1200
[mm] Linear Guide Total Length	86128	489	539	589	639	689	739	839	939	1039	1139	1239	1339	1439	1539	1639
	Stepper Motor	5.8	6.3	6.8	7.3	7.8	8.3	9.3	10.3	11.3	12.3	13.3	14.3	15.3	16.3	17.3
[kg] Weight	400W	489	539	589	639	689	739	839	939	1039	1139	1239	1339	1439	1539	1639
	AC Servo Motor	5.6	6.3	7.0	7.7	8.4	9.1	10.5	11.9	12.9	13.9	14.9	15.9	16.9	17.9	18.9
[mm] Stroke		1300	1400	1500												
[mm] Linear Guide Total Length	86128	1739	1839	1939												
	Stepper Motor	18.3	19.3	20.3												
[kg] Weight	400W	1739	1739	1939												
	AC Servo Motor	19.9	20.9	21.9												

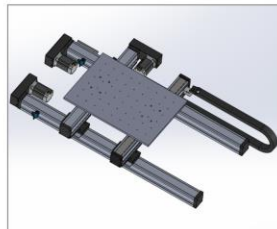
The installation length of nut shall be subject to the actual situation



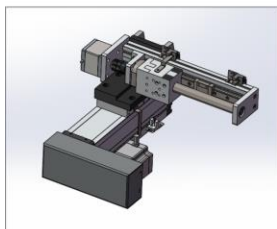
FSL60



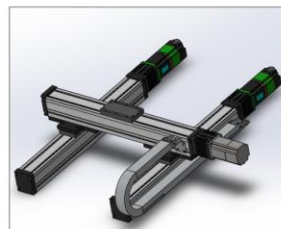
FSL80



FSL60 H1



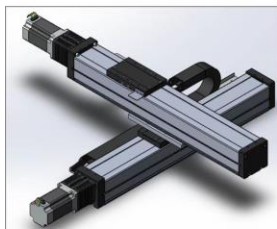
FSL60-FSK40 XY-X



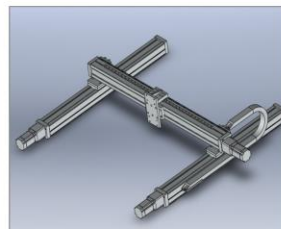
FSL60-XY-H1



FSL80 XY-H2



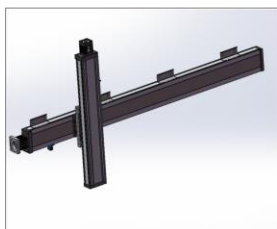
FSL80 XY-S



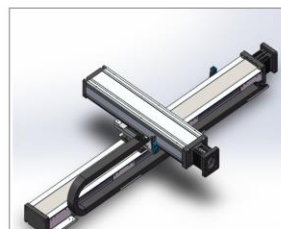
FSL80XY-H2



FSL120 XY-H2



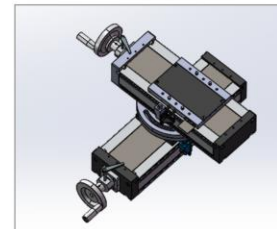
FSL120 XY-S



FSL120 XY-S



FSL120-XYZ-L



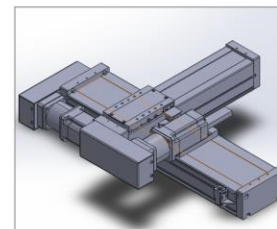
FSL120 XY-S



FSL120 XY-T



FSL120 XY-T



FSL120-FSL80-XY-S



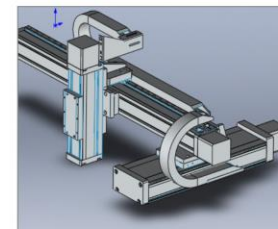
FSL60 XYZ-L



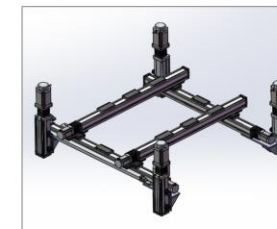
FSL120 XYZ-X



FSL60 YZ-S



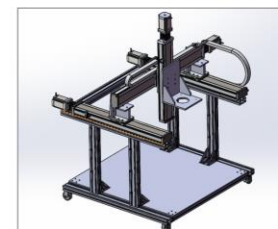
FSL60XYZ-X



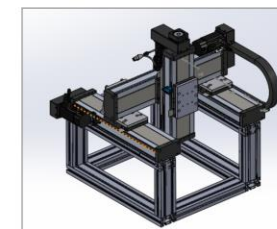
FSL80-FSL60 XYZ



FSL80-XYZ-L



FSL120 XYZ-L



FSL120 XYZ-L