

直线运动 系统 智造商

LINEAR MOTION
SYSTEM INTELLIGENT
PRODUCTS
MANUFACTURER



FBL系列模组是以同步带为驱动，可轻易达到长行程使用条件，实现大范围的应用，采用铝制结构，最大行程可达12000mm以上，最高速度可达3000mm/s

FBL series modules are driven by synchronous belt , can easily reach long Stroke use condition , realized big motion range application ,use aluminum made structure, max Stroke reach 12000mm, max speed up to 2000mm/s

最重负载

Maximum Load

30kg

最高速度

maximum speed

3000mm/s

重复定位精度

Repeat positioning accuracy

±0.05mm

最长行程

Longest travel

12000mm

FBL系列 同步带式模组

SYNCHRONOUS BELT MODULE

长行程 高速度

LONG Stroke HIGH SPEED



FBL60

本体宽度 60mm
width

最大行程3900mm
max stroke

最大负载 20kg
max payload



FBL80

本体宽度 80mm
width

最大行程 12000mm
max stroke

最大负载 30kg
max payload

FBL60直线模组

FBL60 LINEAR GUIDE

Single rail
单轨



2D/3D图纸下载
国内版扫一扫

PDFCAD

有效行程[mm]
Effective Stroke

100~3900

垂直参考负载[kg]
Vertical reference Loading

5

水平参考负载[kg]
Horizontal reference Loadings

20

FBL60 直线模组-型号表示方式

FBL60-ORDERING METHOD

※为标配电机

FBL60

同步带模组-FBL系列
Belt module FBL series

型号 Model	本体宽 (mm) Wide(mm)
FBL60	60

E300

有效行程
Effective trip

型号 Model	标准行程 Stroke (mm)
FBL60	E100-3900

BL

电机位置
Motor position

电机折向 Motor folding direction	
BL	电机左折 Motor Left Side
BR	电机右折 Motor Right Side

B60

厂牌
Brand name

伺服电机 Servo motor	
P松下	40:400W
T台达	75:750W
Y安川	
M三菱	
C 国产	

步进电机 Stepping motor	
B60	※ 60X102

S

刹车
brake

无刹车不表示
Extra Enquiry If Need Brake

FBL60 直线模组-搭配表		FBL60-OPTIONAL ACCESSORIES		
触摸屏 Touch screen	控制器 Controller	限位开关 Limit switch	直流电源型号 DC power model	驱动器型号 Drive model
TPC7062HW	FSC-2A	SN04-N(NPN.NO)	PMT-24V350W	FMDD50D40NOM
	FMC4030	FML-(NPN/PNP)	LRS-350-24	

FBL60 直线模组-技术参数

FBL60 TECHNICAL PARAMETER

TECHNICAL PARAMETER

	重复定位精度[mm] Position Accuracy		±0.05				
	导程[mm] Stroke		140				
	60102 步进电机 stepper motor	水平	负载[kg] loadings	5KG	10KG	15KG	20KG
			速度[mm/s] Speed	800	500	500	500
		侧装	速度[mm/s] Speed	500			
		垂直	速度[mm/s] Speed	500			
		噪音noise[dB]		≤75			
	400W 伺服电机 AC Servo Motor	水平	负载[kg] loadings	5KG	10KG	15KG	20KG
			速度[mm/s] Speed	2000	2000	2000	2000
		侧装	速度[mm/s] Speed	2000			
		垂直	速度[mm/s] Speed	2000			
		噪音noise[dB]		≤75			
	使用温度[°C] Operating temperature		-20℃—+50℃				

加减速时间 0.5S Acceleration and deceleration time 0.5S

FBL60 直线模组-尺寸图

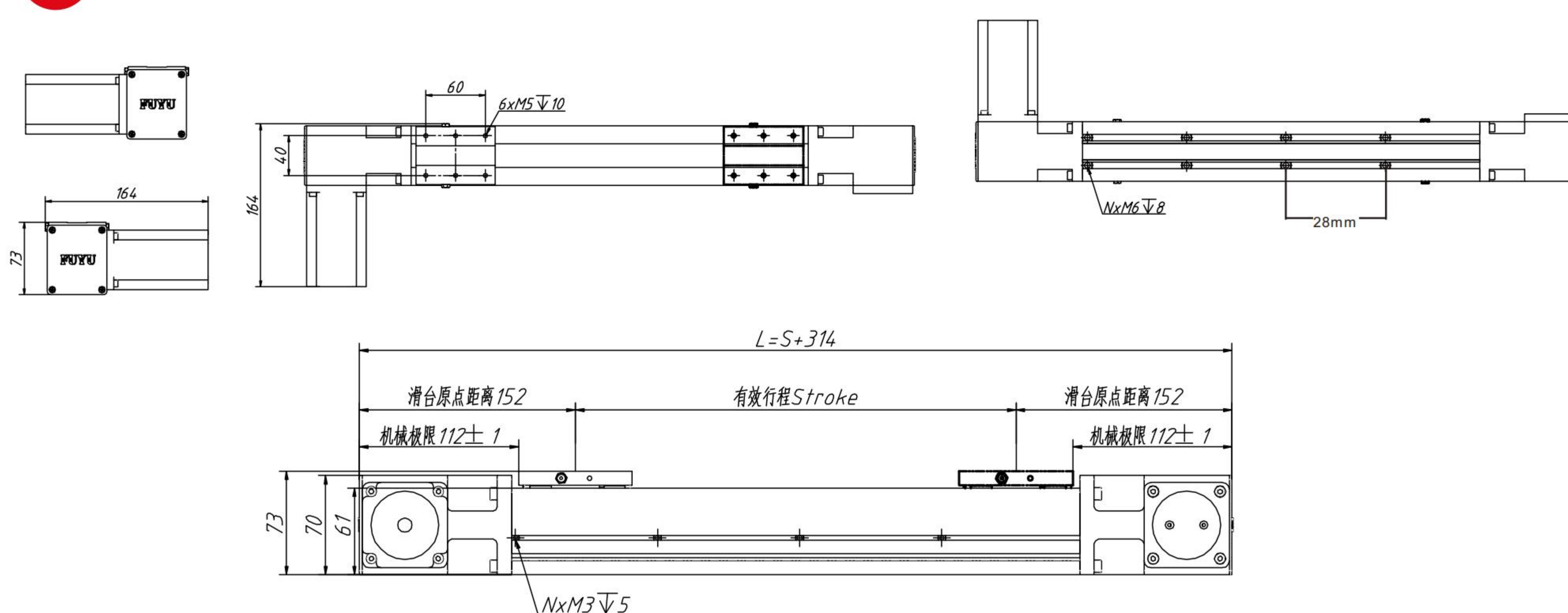
FBL60-DIMENSIONAL DRAWING

BL 电机左折 MOTOR LEFT SIDE

A: 尾部相邻孔间距
A: Distance between adjacent holes in tail

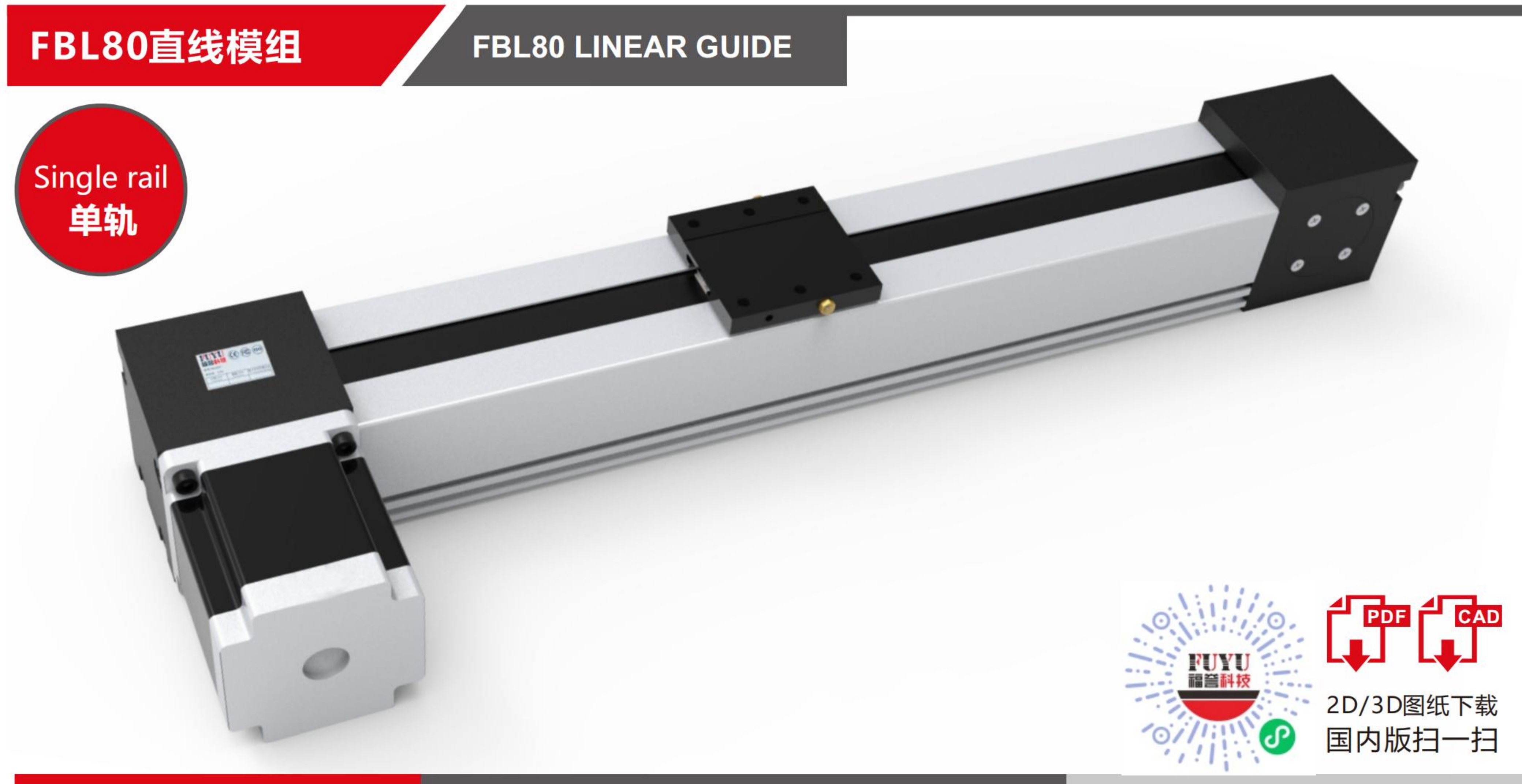
M: 阵列数
M: Number of arrays

N: 安装孔个数
N: Number of mounting holes



行程[mm] Stroke	100	200	300	400	500	600	700	800	900	1000	1500	2000	3000	3500	3900
模组总长[mm] Linear Guide Total Length	60102步进电机 Stepper Motor	414	514	614	714	814	914	1014	1114	1214	1314	1814	2314	2814	4214
		6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	13.2	15.7	20.7	25.7
重量[kg] Weight	400W伺服电机 AC Servo Motor	442	542	642	742	842	942	1042	1142	1242	1342	1842	2342	3342	4242
		6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	13.0	15.5	20.5	25.5

备注：螺母安装数量 会以长度不同而变化，以实际为准。 The installation length of nut shall be subject to the actual situation



有效行程[mm] Effective Stroke	100~12000	垂直参考负载[kg] Vertical reference Loading	10	水平参考负载[kg] Horizontal reference Loadings	30
------------------------------	-----------	--	----	---	----

FBL80 直线模组-型号表示方式

FBL80-ORDERING METHOD

※为标配电机

FBL80

同步带模组-FBL系列
Belt module FBL series

型号 Model	本体宽 (mm) Wide(mm)
FBL80	80

E300

有效行程
Effective trip

型号 Model	标准行程 Stroke (mm)
FBL80	E100-12000

BL

电机位置
Motor position

电机折向 Motor folding direction	
BL	电机左折 Motor Left Side
BR	电机右折 Motor Right Side

B86

厂牌
Brand name

伺服电机 Servo motor	
P松下	40:400W
T台达	75:750W
Y安川	
M三菱	
C 国产	

步进电机 Stepping motor	
B86	※ 86X98

S

刹车
brake

无刹车不表示
Extra Enquiry If Need Brake

FBL80 直线模组-搭配表		FBL80-OPTIONAL ACCESSORIES		
触摸屏 Touch screen	控制器 Controller	限位开关 Limit switch	直流电源型号 DC power model	驱动器型号 Drive model
TPC7062HW	FSC-2A	SN04-N(NPN.NO)	PMT-24V350W	FMDT240A52NOM
	FMC4030	FML-(NPN/PNP)	LRS-350-24	

FBL80 直线模组-技术参数			FBL80 TECHNICAL PARAMETER							
TECHNICAL PARAMETER	重复定位精度[mm] Position Accuracy			±0.05						
	导程[mm] Stroke			165						
	8698 步进电机 stepper motor	水平	负载[kg] loadings	5KG	10KG	15KG	20KG	25KG	30KG	
			速度[mm/s] Speed	2000	2000	2000	2000	1500	1500	
		侧装	速度[mm/s] Speed	1000	1000					
		垂直	速度[mm/s] Speed	1000	1000					
		噪音noise[dB]			≤75					
	400W 伺服电机 AC Servo Motor	水平	负载[kg] loadings	5KG	10KG	15KG	20KG	25KG	30KG	
			速度[mm/s] Speed	3000	3000	3000	3000	3000	3000	
		侧装	速度[mm/s] Speed	2000	2000					
		垂直	速度[mm/s] Speed	2000	2000					
		噪音noise[dB]			≤75					
	使用温度[°C] Operating temperature			-20℃—+50℃						

加减速时间 0.5S Acceleration and deceleration time 0.5S

FBL80 直线模组-尺寸图

FBL80-DIMENSIONAL DRAWING

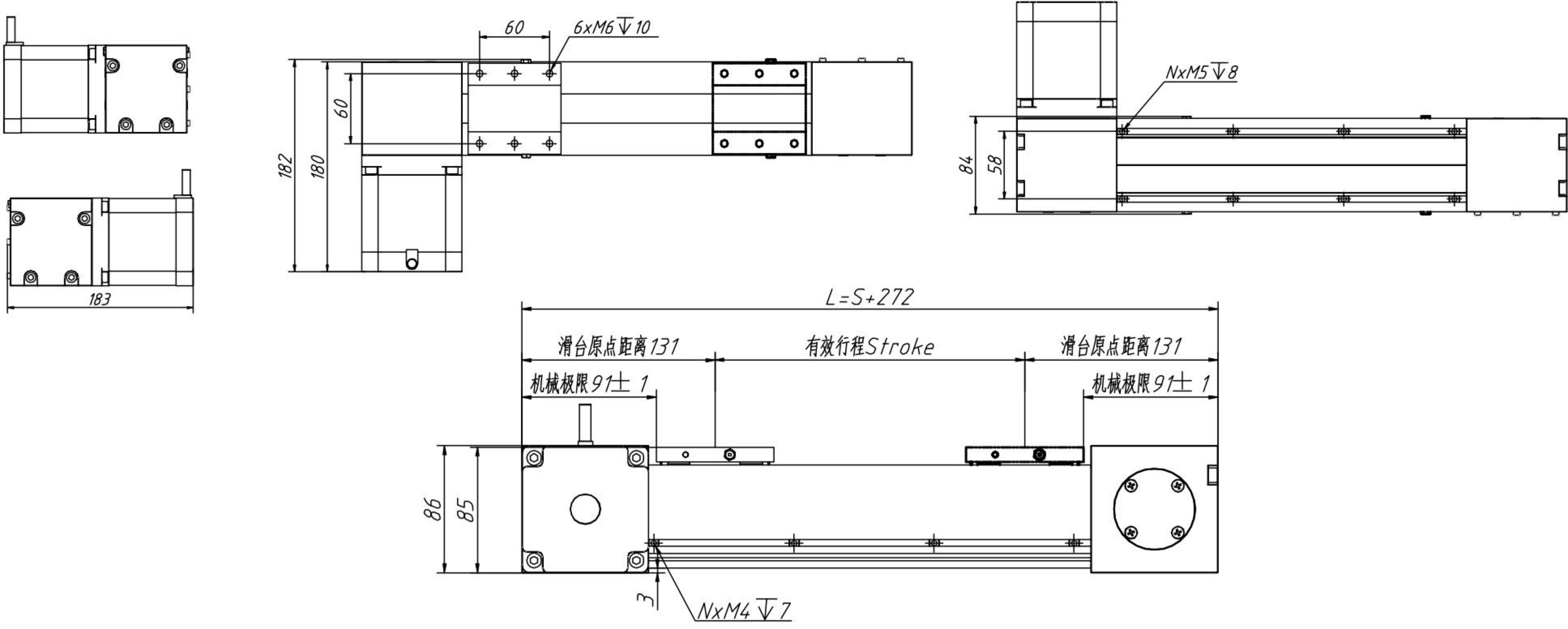
BL

电机左折 MOTOR LEFT SIDE

A: 尾部相邻孔间距
A: Distance between adjacent holes in tail

M: 阵列数
M: Number of arrays

N: 安装孔个数
N: Number of mounting holes



行程[mm] Stroke	100	200	300	400	500	600	700	800	900	1000	1500	2000	3000	3500	3900
模组总长[mm] Linear Guide Total Length	372	472	572	672	772	872	972	1072	1172	1272	1772	2272	3272	3772	4172
重量[kg] Weight	372	472	572	672	772	872	972	1072	1172	1272	1772	2272	3272	3772	4172
	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	15.8	18.3	23.3	25.8	28.3

备注：螺母安装数量 会以长度不同而变化，以实际为准。
The installation length of nut shall be subject to the actual situation

行程3900mm以上属于定制产品，具体参数及报价请联系我们。
Products with a stroke of 3900mm or above are custom-made. For specific parameters and pricing, please contact us.

CHINA·CHENGDU

FUYU WAS FOUNDED IN 2011

WE HAVE OBTAINED 113 PATENTS AND INDUSTRY CERTIFICATIONS.



SERVED MORE THAN 20,000+ CUSTOMERS WITH R&D
EXPERIENCE IN 12 MAJOR INDUSTRIAL AUTOMATION FIELDS
INCLUDING ELECTRONICS, MANUFACTURING
ENERGY, MEDICAL, ETC.

IN THE PAST 14 YEARS FUYU HAS HELPED

North America	9462
Europe	8439
Asia	4091
South America	1790
Australia	1278
Africa	511

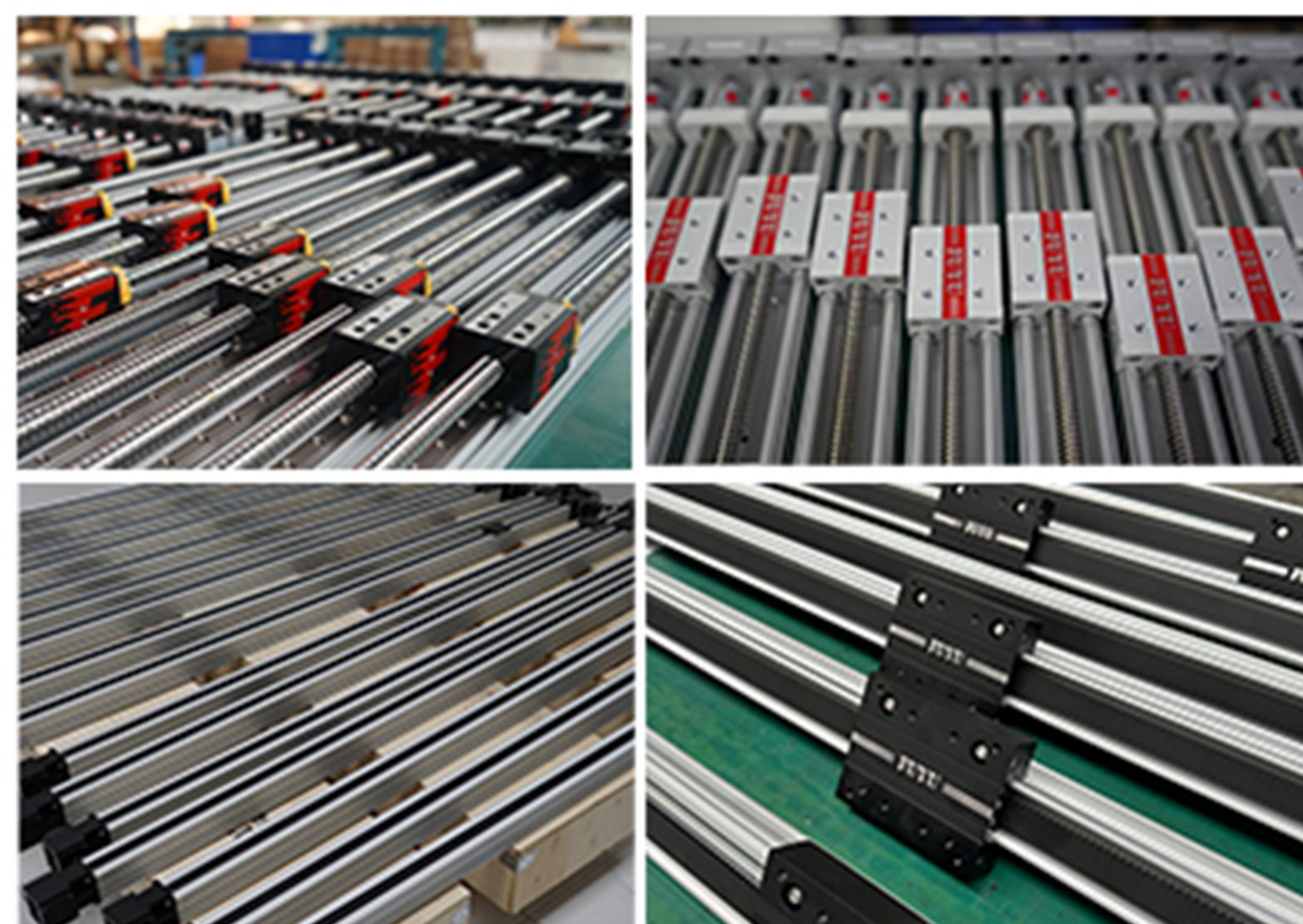
It realizes intelligent upgrading and lean operation of manufacturing, promotes intelligent production line transformation and process innovation of enterprises. FUYU people try to create a brand new industry ecosystem covering teaching experiments, scientific research and study integration of industry, education and research.



14 YEARS OF QUALITY ASSURANCE FROM THE SOURCE
MANUFACTURER 5000 SQUARE METERS OF
MANUFACTURING BASE, MONTHLY PRODUCTION
CAPACITY>3000 PIECES



ACCUMULATED SALES EXCEEDING **130000 UNITS**
CUSTOMER REPUTATION IS VISIBLE





twofouroh



Very happy, working well on a wood carving CNC table

Reviewed in the United States on April 20, 2025

Size: 600mm | Style: B57 | [Amazon Vine Customer Review of Free Product](#) (What's this?)

I am using this as part of a CNC table that does small engraving jobs. It is powerful enough to move the milling head quickly, and the belt is strong enough that the positioning errors are too tiny to notice when I run it bidirectional. The build quality is very good, and it was packaged very well in foam, so there was no damage to it even though UPS chucked it around and ruined the box. All the materials are high quality and the finish is retail grade, a looker for sure.

Love it!



| Report



Aaron



Fantastic addition to my CNC machine

Reviewed in the United States on April 16, 2025

Size: 400mm | Style: B57 | [Amazon Vine Customer Review of Free Product](#) (What's this?)

I needed this linear stage for my CNC workshop and I found its integration into my workflow seamless. I used it for intricate milling tasks and I like its consistent precision across multiple runs. I experimented with different speeds and I observed smooth transitions without any jitter. I relied on it for extended periods and it maintains accuracy under heavy use. I tested it with both lightweight and denser materials and it is versatile in handling diverse projects. I continue to use it regularly and its operates quietly.



| Report



David



Much faster, almost as accurate as screw type actuators.

Reviewed in the United States on March 6, 2025

Size: 400mm | Style: B57 | [Amazon Vine Customer Review of Free Product](#) (What's this?)

For a CNC machine I am building, I had to choose between belt driven and screw driven linear rails. With this product, the speed is about six times faster than screw driven positioning systems, but the accuracy is still quite good at 0.05mm. I don't know how this is achieved, presumably the belt is a very specific material for damping and lack of stretch.

The build quality appears to be good. If I run into any problems, of course I don't expect them, but I will update the review.



| Report



Dwight Bumgarner



High quality and great value!

Reviewed in the United States on February 24, 2025

Size: 600mm | Style: B57 | [Amazon Vine Customer Review of Free Product](#) (What's this?)

This is an excellent linear slider! It is very precise and well made. It even comes with mounting brackets made out of aluminum that are very sturdy. I plan to use it in combination with a robotic arm. Unfortunately it does not come with an encoder, however it would be relatively easy to add an encoder because the bearings attached to the belt have their centers exposed. A limit switch would work as well. Overall a great product!



| Report



felix



Solid and works flawlessly

Reviewed in the United States on March 26, 2025

Size: 200mm | Style: B57 | [Amazon Vine Customer Review of Free Product](#) (What's this?)

Very well built. Solid and works flawlessly. Sturdy, sold material. Drive is powerful but quiet. Good value.

WE GAVE UP MANY CUSTOMERS BECAUSE OF THE PRICEBUT WE WELCOMED MORE CUSTOMERS BECAUSE OFTHE QUALITY