电动滑台 综合目录

LINEAR MODULE PRODUCT CATALOG

Edition: *2023*

Language:*English*

LET THE WORLD FALL IN LOVE
WITH MADE IN CHINA

WITH ADVANCED TECHNOLOGY
THAT ASSIST WITH THE EVOLUTION
OF SOCIETY AND INDUSTRY CONTINUOUSLY.

COMPANY INTRODUCTION

Established in 2011, Sikete is a leading provider of automation manufacturing solutions, based in the Yangtze River Delta and Pearl River Delta regions and dedicated to serving the automation manufacturing industry. Our vision is to "Make the World Fall in Love with Made in China," and our mission is to "Rely on Technology as the Sky and Market as the Earth," aiming to bring transmission technology to enterprises, industries, and countries worldwide.

To achieve sustainable development, we continuously increase investment in research and innovation, boldly exploring the endless frontier of technology.

We focus on identifying industry needs, tackling challenges, and continuously exploring new structures and technologies to support long-term sustainable development of the industry. As of 2021, research and development personnel account for 38% of our total workforce, R&D expenses account for 15.4% of our annual revenue, and we hold more than 120 authorized patents.

Embracing the principle of "Open Cooperation for Mutual Benefit," Sikete formed a partnership with South Korea's SKR Group in 2020, jointly establishing a production base in China.

SKR provides specialized technical research and development teams to support our collaboration, working together to build an ecologically harmonious and healthy global industry. We are committed to achieving breakthroughs in three dimensions within China's automation precision manufacturing industry chain: breaking through technological limitations, cooperation limitations, and trust limitations, contributing to the rise of China's manufacturing industry.

CNC CNC Machining Center Zone 1

CNC Vertical CNC Center Zone 2

Product Constant Temperature Assembly Line

Assembly Finished Product Laser Interference Precision Testing

Parts Warehouse Zone 1

Office Building Research and Development Patent Wall

There is no such thing as a perfect individual, only a perfect team!

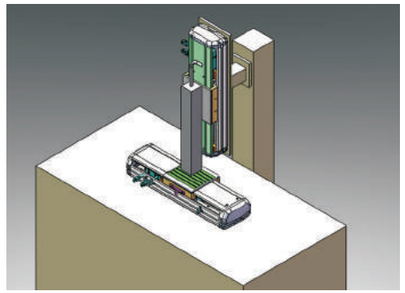
Application Scenario

APPLICATIONS EXAMPLES SINGLE AXIS

Spray-Printing Device for PCB Substrate Boards

Fix the substrate board onto the electric cylinder.
Use the feature"equal speed sliding" to execute the Spray printing.

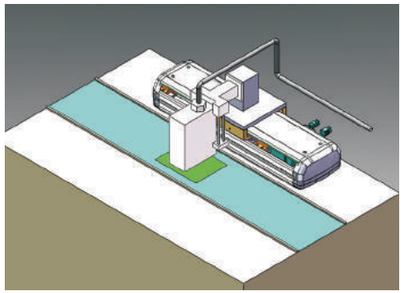
Use Models
PSS120 / PSS140



Surface Cleaning Device for Circuit Boards

Fixes the PLASMA onto the electric sylinder and move back and back and forth on the conveyor to do the surface cleaning for the circuit boards.

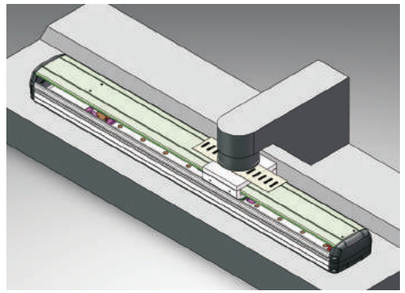
Use Models
PSS120 / PSS140



IC Printer Device

Place the IC device on the electric cylinder. Use the feature: equal-speed sliding " to execute the laser printing. Actuators a re capable to adapt servo motor and stepping motor.

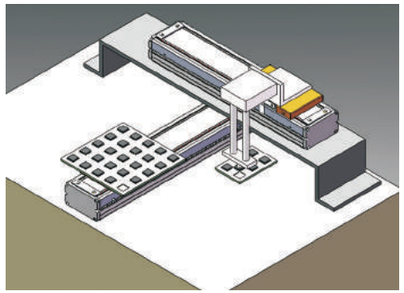
Use Models
PSH8 / PSS120



Aligning device for pick-and-place of IC boards

Install two slide electric cylinder to combine a simple IC pick-and-place system.

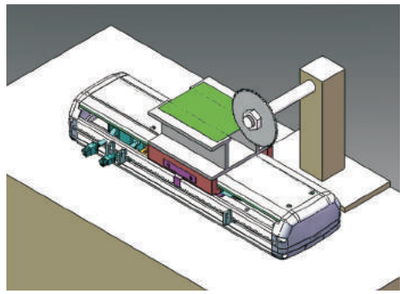
Use Models
PSH8 / PSS120 / PSS140



Cutting device for PCB printed circuit board

Places the PCB board on the electric cylinder and do the cutting by using external cutting devices.

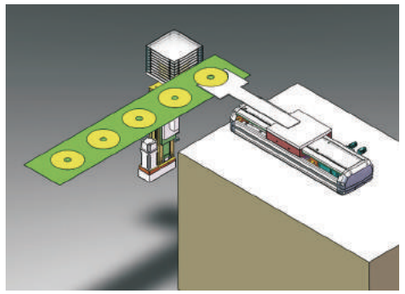
Use Models
PSS120 / PSS140 / PSS170



Surface Cleaning Device for Circuit Boards

Use the feature "multi-positiong" ofelectric cylinder to do loading and unloading,the disc box.

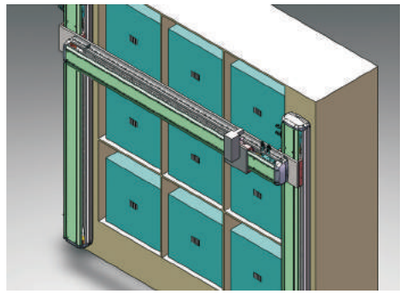
Use Models
PSH8 / PSS120 / PSS140



Barcode scanning device

Installs the X-Y multi-axis system to automatd warehouse to execute the barcode scanning.

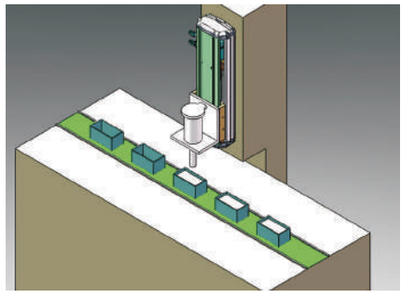
Use Models
PSH8 / PSH12 / PSS140 / PSS170 / PSS200 / PSS220



Surface Cleaning Device fo r Circuit Boards

In order to adapt to filling of different products, we can execute the filling at different height of position by programmable feature.

Use Models
PSH8 / PSH12 / PSS120 / PSS140



Application Scenario

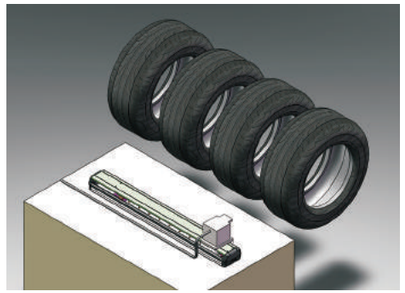
APPLICATIONS EXAMPLES SINGLE AXIS

Tire surface inspection machine

Mount the C.C.D on the electric cylinder.Use the feature:"equal-speed sliding" to check the defects on the tire surface and report to the on-site worker immediately.

Use Models

PSH8 / PSS120 / PSS140

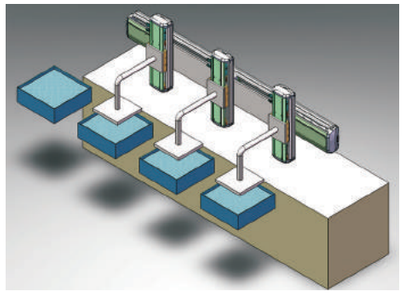


Mobile Device for Surface Processing

Mount the working piece on the electric cylinder and dip it into the solvents. Moving up and down, left and right athigh speed to do the surface treatment processing.

Use Models

PSH8 / PSH12 / PSS120 / PSS140

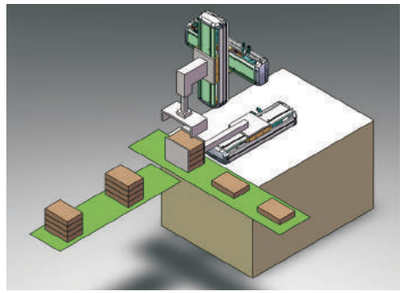


Conveyance device for assembly lines

Combine two single actuators to an X-Y system and pick and place the items on the conveyor.

Use Models

PSH8 / PSS120

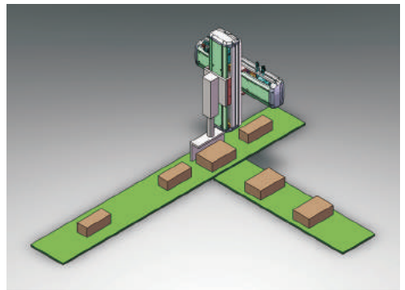


Separator Device for Assembly Lines

Use actuato rs to categorize products on the assembly line with conveyors.

Use Models

PSH8 / PSS120 / PSS140

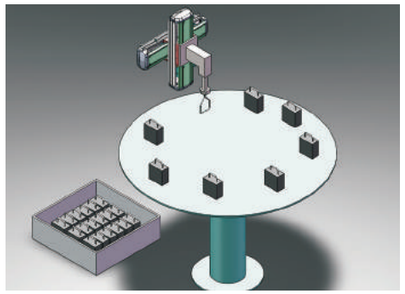


Assembling device on disc machine

Combine two single actuators to an X-Y system. The mount it onto the disc machine to do the components assembly.

Use Models

PSS120 / PSS140

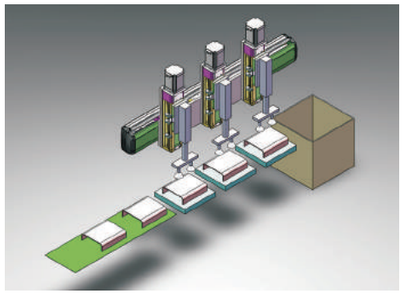


Assembling device for small components

Use the feature multi-positioning of the electric cylinder to drive the suckers and cylinders to do the assem bly of small components.

Use Models

PSH8 / PSS120 / PSS140

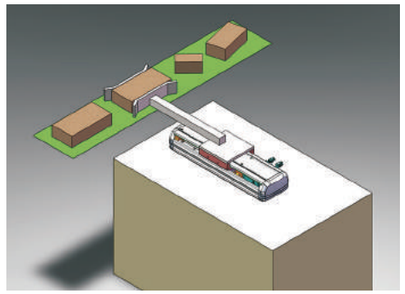


Aligning device for packaging

Use actuators to align products different sizes on the moving conveyors ,which substantially saves the working time.

Use Models

PSH8 / PSH12 / PSS140 / PSS170 / PSS200 / PSS220

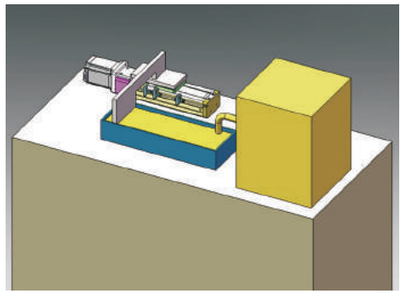


Leveling mechanism fo rsolvent surfaces

Use the feature:"equal-speed sliding" to level the surface of glutinous solvents.

Use Models

PSH8 / PSH12 / PSS120 / PSS140



Application Scenario

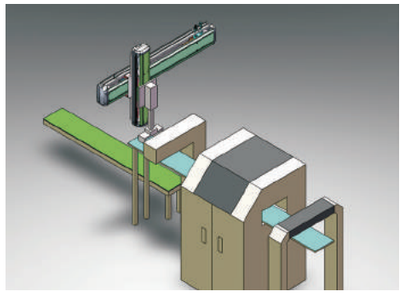
APPLICATIONS EXAMPLES MULTI AXIS

Conveyance device fo rcircuit boards

Combine two single actu ato rs to an X-Z system and con reys the circuit board across left and right as well as up and down.

Use Models

X-axis PSH12 / PSS140 | Z-axis PSH8 / PSS120

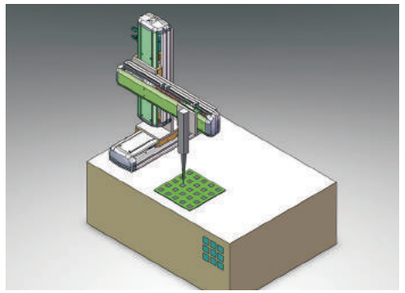


Auto-soldering device

Fix the soldering device onto the X-Y-Z slides, which can solder for circuit board components.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 | Z-axis PSH12 / PSS140

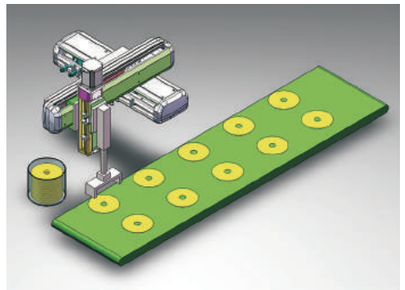


Piling device for compact discs

Combine three single actuators into X-Y-Z system, which can be used in receiver mechanism for compact disc assembly lines.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 | Z-axis PSC65

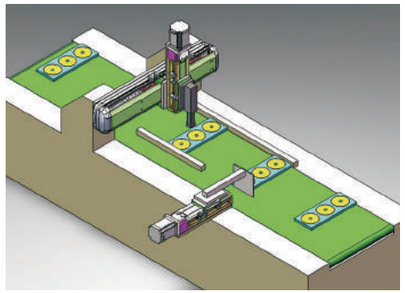


Ultra—violet exposure device for compact discs

Combine three single actuators into a X-Z system, which can be used in ultra-violett exposure devices for compact discs.

Use Models

X-axis PSH8 / PSS120 | Z-axis PSH5

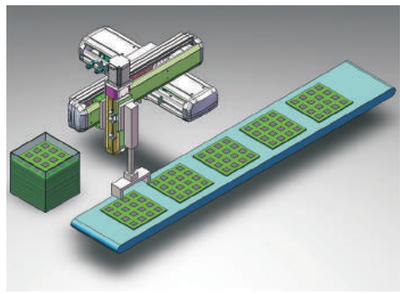


Piling device for circuit boards

Combine three single actuators Into X-Y-Z system, which can be used in receiver mechanism for circu it board assembly lines.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 | Z-axis PSH5

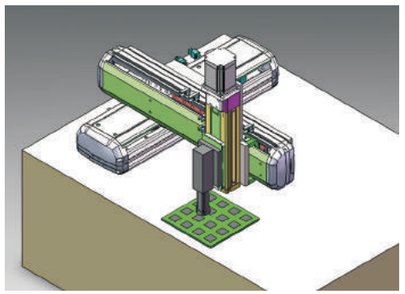


Visual Checking Device for CCD imaging

Fix the visual system onto the X-Y-Z system and execute the AOI checks of the appearance of PCB.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 | Z-axis PSH5

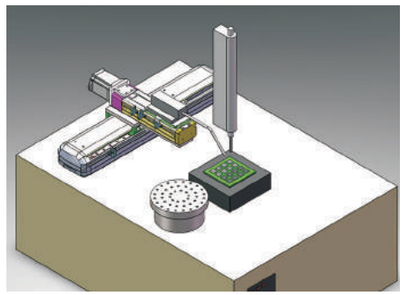


Screw-tightening Device

Use the X-Y system for pick-and-place of screws.

Use Models

X-axis PSH8 / PSS120 | Y-axis PSH5

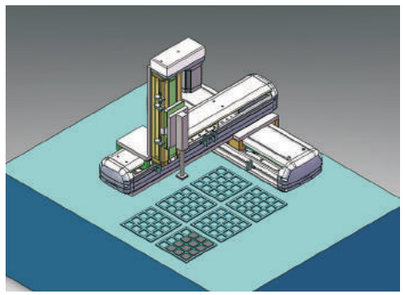


Pick-and-place device for small components

Combine three single actuators into X-Y-Z axes, which can be used in pick-and-place devices for small components.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 / Z-axis PSH5



Application Scenario

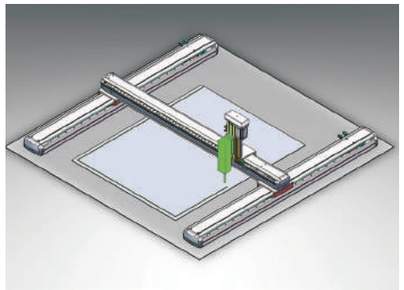
APPLICATIONS EXAMPLES MULTI AXIS

Adhesive dispenser device for large-size LCD glass substrate boards

Combine two Synchronous X-xais actuators and one Y-axis electric cylinders along with Z-axis into one system of high-speed Adhesive dispenser devices for LCD glass substrate boards.

Use Models

X-axis PBS140-2-pcs | Y-axis PSH12 / PSS140 | Z-axis PSH5

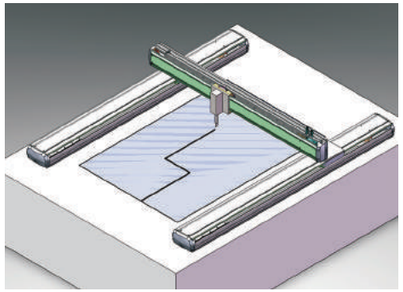


Cutting for Glass Substrate Boards

Combine two synchronous X-axis actuators With one Y-axis electric cylinders into one package of simple cutting mechanism for glass boards.

Use Models

X-axis PBS200-2-pcs | Y-axis PSH12 / PSS140

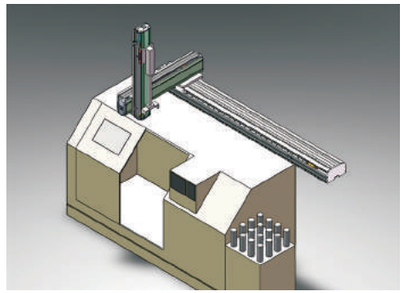


Pick-and-place devices for processed parts from machine tools

Combine three single actuators into X-Y-Z system, that can be installed onto two or three CNC machine tools as the pick-and-place mechanism for loading and unloading of processed parts from multiple processing.

Use Models

X-axis PSS200 | Y-axis PSS200 | Z-axis PSS140

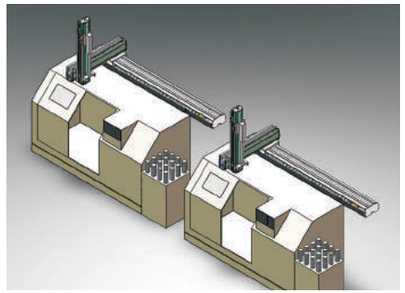


Pick-and-place devices for processed parts from machine tools

Combine three single actuators into X-Y-Z system that can be installed onto CNC machine tools as the pick-and-place mechanism for loading and unloading of processed parts, which Can save more cost than 6-axis mechanical arms.

Use Models

X-axis PSS200 | Y-axis PSS200 | Z-axis PSS140

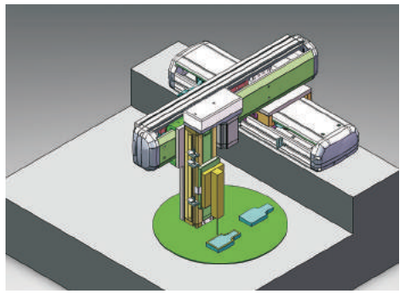


Various small parts coating device

Combine three uniaxial actuators into a X-Y-Z system that can perform dispensing and rubberizing operations Way cheaper than one rubberizing machine and utilize the rubberizing operation on the assembly line.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 | Z-axis PSH5 / PSH8

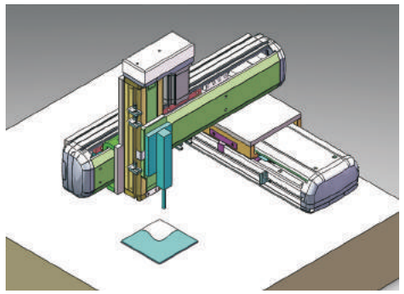


Mobile device fo r spray coating

Utilizes X-Y-Z axes to clean or spray coating.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 | Z-axis PSH5

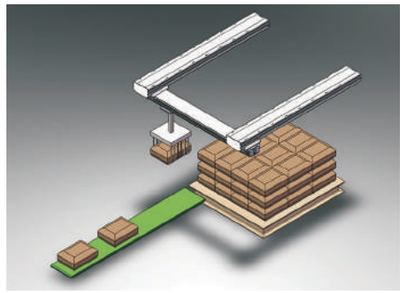


Conveyance device for large items

Utilizes two synchronous X-axis actuators with one Y-axis motor rlide to assemble into one pac kage of conveyance device fo r large-size items, With a cost saving more than 6-axis mechanical arms.

Use Models

X-axis PBS200-2-pcs / SHS170-2-pcs | Y-axis PSS200

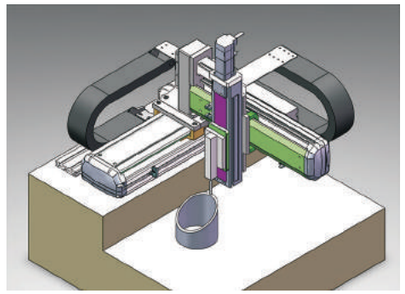


Pick-and-place device for small components

Utilizes X-Y-Z axes to assemble into a cantilever ad hesive dispenser that can perform 3-dimensional rubberizing.

Use Models

X-axis PSH12 / PSS140 | Y-axis PSH8 / PSS120 | Z-axis PSH8 / PSS120



Product Index 1-Axis

Precision Linear Module PSH Series
Guide Rail Embedded

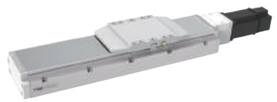
"Small structure Large loads"

PSH5

Maximum stroke 800mm
Maximum load 30KG 023
Body height 60mm
Body width 54mm

PSH8

Maximum stroke 1100mm
Maximum load 50KG 027
Body height 82mm
Body width 78mm

PSH12


Maximum stroke 1200mm
Maximum load 110KG 031
Body height 76mm
Body width 120mm

Precision Electric Cylinder PSY Series
Guide Rail Embedded

"New Product Lineup"

PSY8

Maximum stroke 900mm
Maximum load 50KG 039
Body height 82mm
Body width 78mm

PSY12

Maximum stroke 900mm
Maximum load 110KG 043
Body height 76mm
Body width 120mm

Universal Linear Module PSS Series
Screw Driver

PSS120

Maximum stroke 1050mm
Maximum load 50KG 051
Body height 70mm
Body width 102mm

PSS130

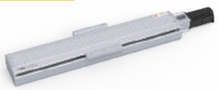
Maximum stroke 1050mm
Maximum load 70KG 055
Body height 78mm
Body width 135mm

PSS140

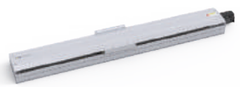
Maximum stroke 1050mm
Maximum load 110KG 061
Body height 78mm
Body width 135mm

PSS170

Maximum stroke 1250mm
Maximum load 120KG 067
Body height 97mm
Body width 170mm

PSS200


Maximum stroke 1500mm
Maximum load 140KG 071
Body height 101.5mm
Body width 175mm

PSS220


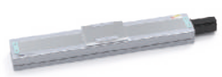
Maximum stroke 1500mm
Maximum load 150KG 075
Body height 122mm
Body width 220mm

https://skr.partcommunity.com

Welcome, visit to use 3D online drawing library!

Standardized product libraries to help you do a better job of delivering your designs. Shortening the delivery cycle of the whole machine is our continuous pursuit of the goal.

Universal Linear Module PSS Series
Screw Driver

PSC140


Maximum stroke 1050mm
Maximum load 110KG 085
Body height 91mm
Body width 135mm

PSC170

Maximum stroke 1250mm
Maximum load 120KG 089
Body height 107mm
Body width 170mm

New Structure Dustproof Module PSM Series
Ball Screw

"Innovative structure, unique"

PSM100

Maximum stroke 1050mm
Maximum load 50KG 097
Body height 65mm
Body width 102mm

PSM140

Maximum stroke 1050mm
Maximum load 110KG 101
Body height 74mm
Body width 135mm

PSM170

Maximum stroke 1250mm
Maximum load 120KG 105
Body height 92mm
Body width 170mm

European Standard Compact Linear Module SK Series - Synchronous Belt Drive

SK60

Maximum stroke 3000mm
Maximum load 32KG 113
Body height 90mm
Body width 63mm

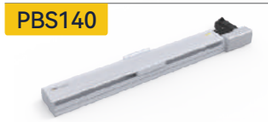
SK80

Maximum stroke 3550mm
Maximum load 60KG 119
Body height 104mm
Body width 84mm

Universal Linear Module PBS Series
Synchronous Belt Drive

PBS120

Maximum stroke 3050mm
Maximum load 30KG 129
Body height 83mm
Body width 120mm

PBS140


Maximum stroke 3050mm
Maximum load 35KG 135
Body height 78mm
Body width 135mm

PBS140S

Maximum stroke 3050mm
Maximum load 35KG 141
Body height 93mm
Body width 135mm

PBS170

Maximum stroke 3050mm
Maximum load 65KG 147
Body height 97mm
Body width 170mm

PBS170S

Maximum stroke 3050mm
Maximum load 65KG 153
Body height 108mm
Body width 170mm

Also available in PBS200, PBS220; please turn to the next page >>

Product Index 1-Axis

Universal Linear Module PBS Series
Synchronous Belt Drive

PBS200

Maximum stroke 3050mm
Maximum load 85KG
Body height 101.5mm
Body width 175mm
159

PBS220

Maximum stroke 3050mm
Maximum load 85KG
Body height 101.5mm
Body width 220mm
165

Also available in PBS120, PBS140, PBS170, etc.;
<<please turn to the previous page

Universal Linear Module PBC Series
Synchronous Belt Drive

PBC140

Maximum stroke 3050mm
Maximum load 35KG
Body height 91mm
Body width 135mm
175

PBC170

Maximum stroke 3050mm
Maximum load 65KG
Body height 107mm
Body width 170mm
181

Dual-drive linear modules PPS, PPB series – Ball Screw Drive, Synchronous Belt Drive

PPS170

Maximum stroke 900mm
Maximum load 110KG
Body height 97mm
Body width 170mm
191

" Double screw, double motor drive "

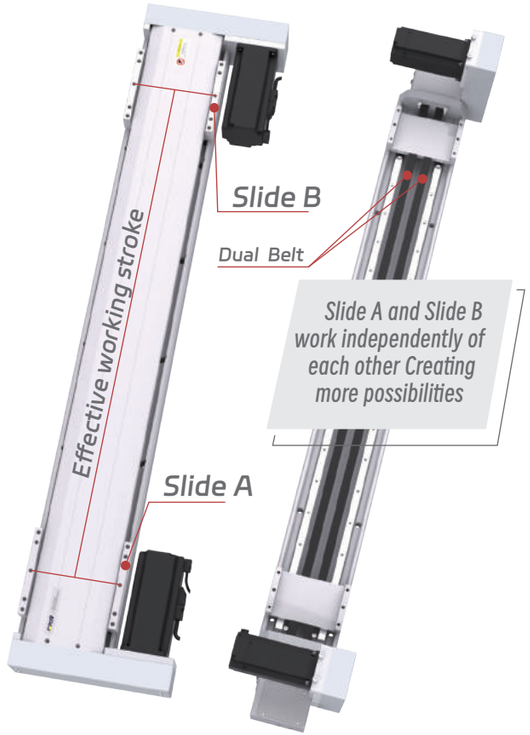
PPB170

Maximum stroke 2450mm
Maximum load 10KG
Body height 78mm
Body width 135mm
195

PPB140

Maximum stroke 2650mm
Maximum load 20KG
Body height 97mm
Body width 170mm
199

" Dual timing belts, dual motor drive "



Large Handling Linear Module SHS Series-The Gear And Rack

SHS14

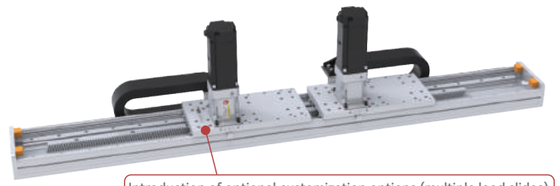
Maximum stroke 3500mm
Maximum load 200KG
Body height 63mm
Body width 135mm
207

SHS17

Maximum stroke 5500mm
Maximum load 250KG
Body height 79mm
Body width 170mm
211

SHS22

Maximum stroke 5500mm
Maximum load 300KG
Body height 96mm
Body width 220mm
215



Linear Motor SKR Series-Have Iron Core Series

SKR12S

Maximum stroke 2478mm
Maximum load 30KG
Body height 85mm
Body width 120mm
223

SKR14S

Maximum stroke 2478mm
Maximum load 60KG
Body height 95mm
Body width 140mm
227

SKR17S

Maximum stroke 3018mm
Maximum load 90KG
Body height 105mm
Body width 170mm
231

SKR22

Maximum stroke 3225mm
Maximum load 140KG
Body height 122mm
Body width 220mm
235

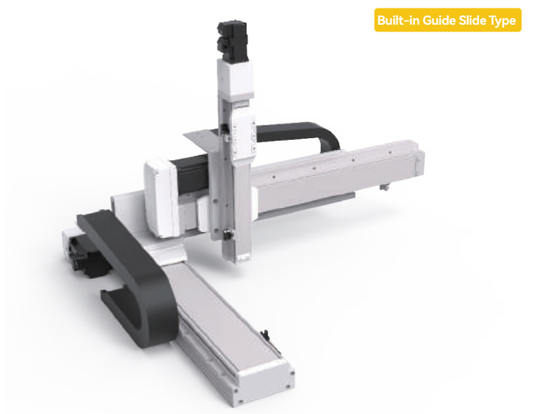
Product selection is questionable and the product does not meet your needs!
Please contact me at E-mail:manager@zjskt.com

Product Index Multi-Axis

Cantilever triaxial XYSH322-A →P245

axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSH8	10	100-1100	400	8~0.5
Y-axis	PSH5	10	100-500	100	
Z-axis	PSH5	5	50-250	100+brake	

Cantilever triaxial XYSH432-A →P255

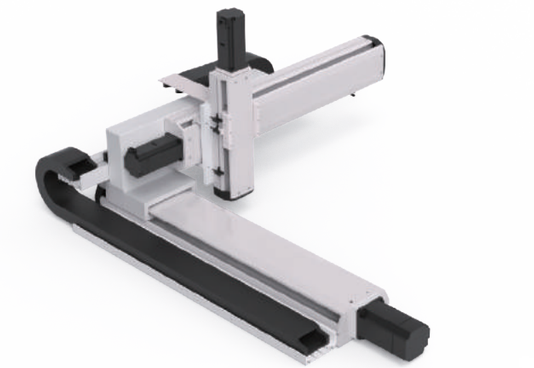


axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSH12	20	50-1100	400	10~0.5
Y-axis	PSH8	10	100-500	200	
Z-axis	PSH5	5	50-350	100+brake	

Cantilever 2-axis XYSS760-A →P271

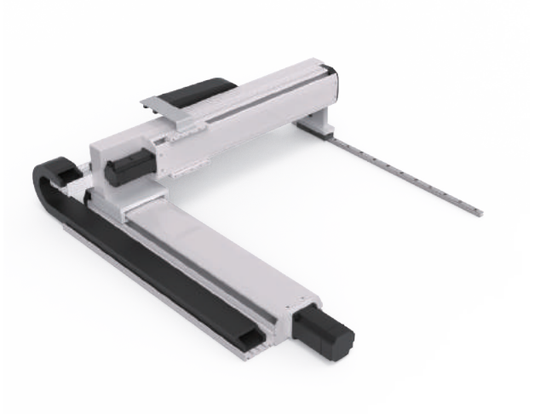
axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	750	35~20
Y-axis	PSS140	20	100-650	400	

Cantilever triaxial XYSS764-A →P273



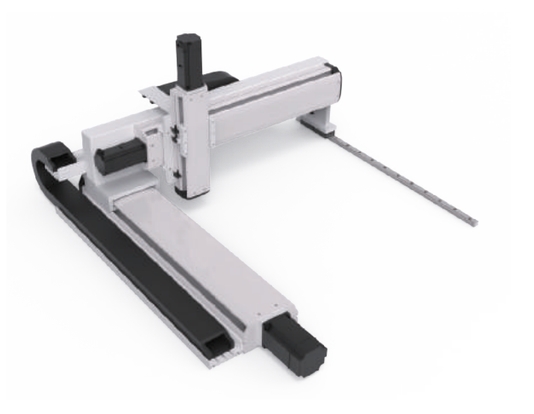
axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	400	12
Y-axis	PSS140	20	100-650	200	
Z-axis	PSS120	5	100-550	200+brake	

Cantilever 2-axis XYSS760-G →P275



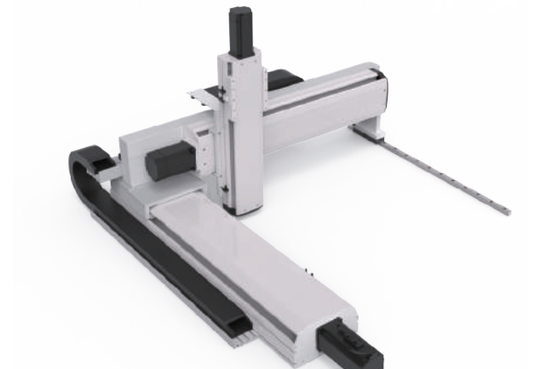
axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	10	100-1250	750	35~30
Y-axis	PSS140	20	250-850	400	

Cantilever triaxial XYSS764-G →P277



axis	Model	Ball Screw Lead(mm)	valid tripe (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	400	12
Y-axis	PSS140	20	250-850	200	
Z-axis	PSS120	5	100-650	200+brake	

Cantilever triaxial XYSS976-G →P279



axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS220	25	100-1500	750	18
Y-axis	PSS170	20	250-1050	750	
Z-axis	PSS140	10	100-550	400+brake	

Polar coor-dinates 2-axis XYSS760-P →P281

axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	750	18
Z-axis	PSS140	10	100-650	400+brake	

Product Index Multi-Axis

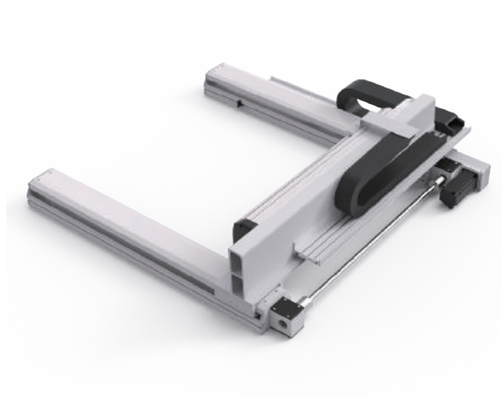
Polar coordinates 2-axis XYSS770-P →P283

axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	750	35
Z-axis	PSS170	10	100-650	750+brake	

Polar Coordinate Triaxial XYSS764-P →P285

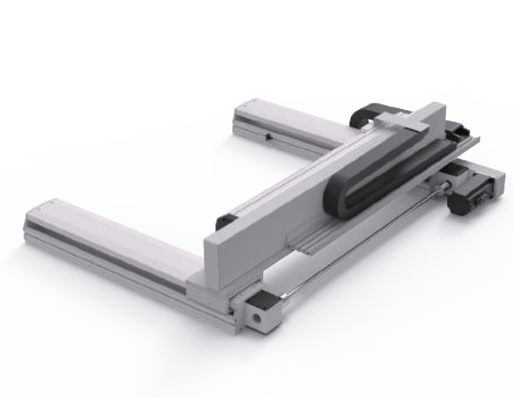
axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	750	8~2
Y-axis	PSS120	10	100-500	200	
Z-axis	PSS140	10	100-650	400+brake	

Linkage 2-axis XYBS660-F →P291



axis	Model	working speed	valid tripe (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PBS140S×2	2000mm/s	100-3050	400	10~2
Y-axis	PSS140	1000mm/s	250-650	200	

Linkage 2-axis XYBS760-F →P293



axis	Model	working speed	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PBS170S×2	2000mm/s	100-3050	750	35~20
Y-axis	PSS140	1000mm/s	250-1050	400	

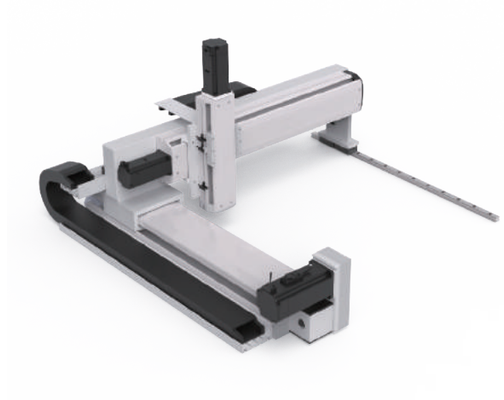
Polar Coordinate Triaxial XYSS774-P →P287

axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	750	18~3
Y-axis	PSS120	10	100-500	200	
Z-axis	PSS170	10	100-650	750+brake	

Polar Coordinate Triaxial XYSS776-P →P289

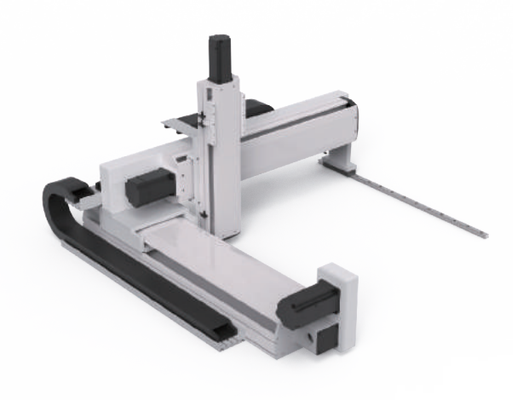
axis	Model	Ball Screw Lead(mm)	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PSS170	20	100-1250	750	30~5
Y-axis	PSS140	10	100-600	400	
Z-axis	PSS170	10	100-650	750+brake	

Gantry 3-axis XYBS764-G →P295



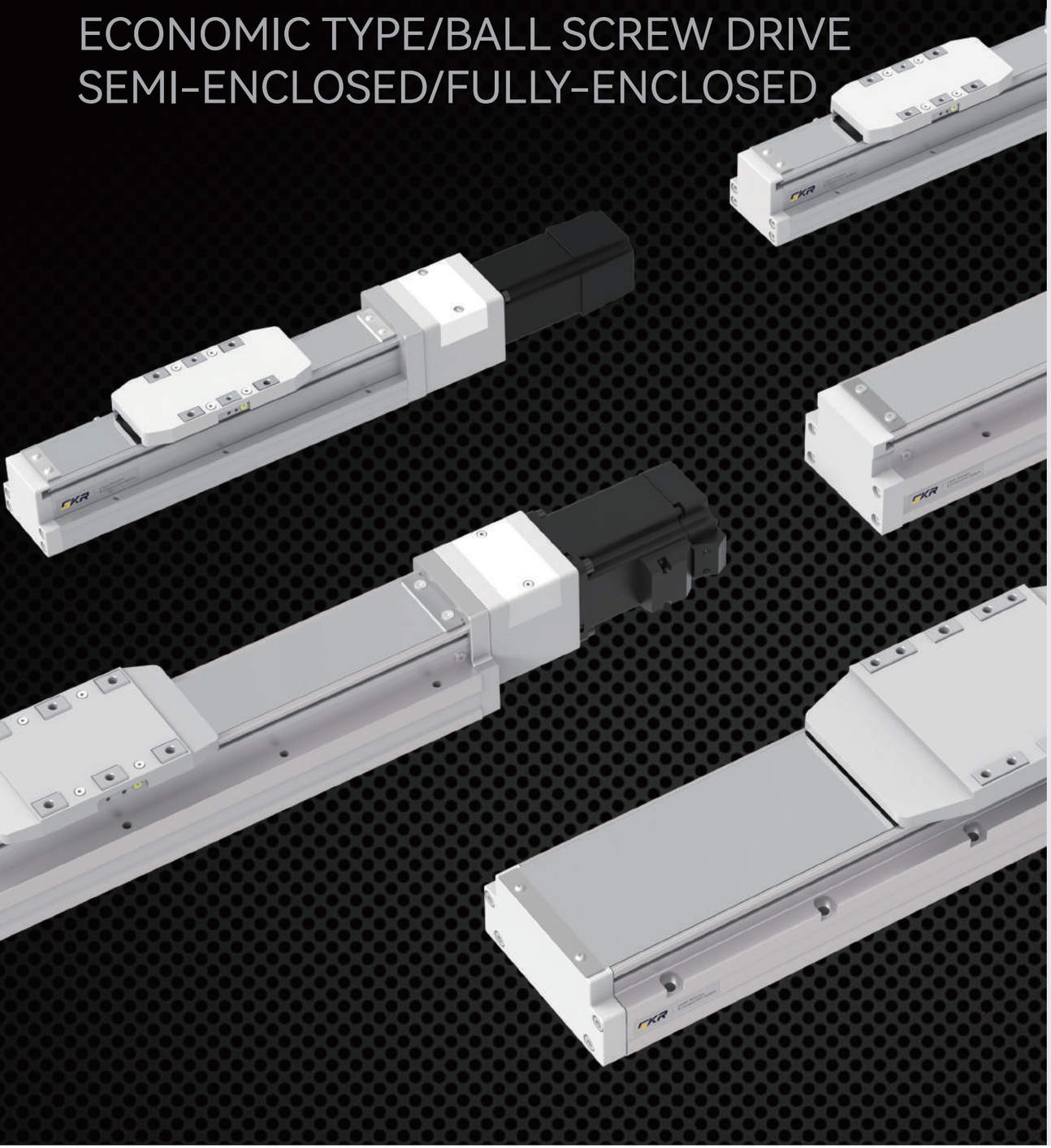
axis	Model	working speed	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PBS170S	2000mm/s	400-3050	750	12
Y-axis	PSS140	1000mm/s	250-750	200	
Z-axis	PSS120	250mm/s	100-550	200+brake	

Gantry 3-axis XYBS976-G →P297



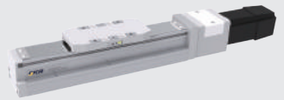
axis	Model	working speed	valid trip (mm)	Power (w)	Load Shaft Handling(kg)
X-axis	PBS220	2000mm/s	600-3050	750	18
Y-axis	PSS170	1000mm/s	250-750	750	
Z-axis	PSS140	500mm/s	100-550	400+brake	

PSH Series
Built-in rail series
ECONOMIC TYPE/BALL SCREW DRIVE
SEMI-ENCLOSED/FULLY-ENCLOSED



Product Catalog
CONTENTS

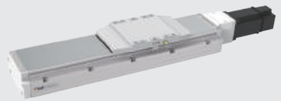
PSH5



Maximum stroke 800mm
Maximum load 30KG
Body height 60mm
Body width 54mm

····· 023

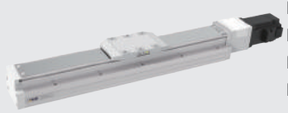
PSH12



Maximum stroke 1200mm
Maximum load 110KG
Body height 76mm
Body width 120mm

····· 031

PSH8



Maximum stroke 1100mm
Maximum load 50KG
Body height 78mm
Body width 82mm

····· 027

Product Index

INTEGRATED GUIDE RAIL LINEAR ELECTRIC SLIDE TABLE

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Ball Screw Spec (C7 grade)		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Diameter (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment, clean environment	Ball Screw	PSH5	100	54	±0.01	12	5	30	10	250
							10	15	5	500
							20	10	2.5	1000
		PSH8	200	82	±0.01	16	5	50	15	250
							10	30	8	500
							20	18	3	1000
		PSH12	400	120	±0.01	16	5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600

*Notes:

1.The rated speed is the speed at the motor's rated rotation (3000 r/min), or the speed limited by the ball screw's permissible rotation.

2.The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

Standard stroke and maximum operating speed"3
Stroke (mm) & Maximum Speed (mm/s)

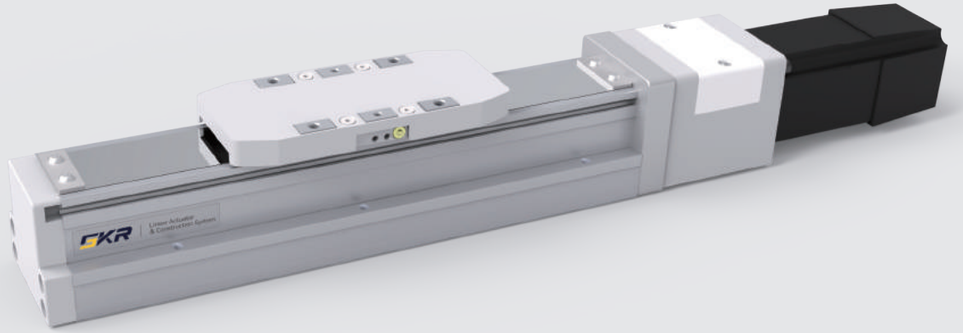
Represents working speed
speed

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	Page
250												225	200	175	150															023
500												450	400	350	300															
1000												900	800	700	600															
250															225	200	175	150	125	100	75									027
500															450	400	350	300	250	200	150									
1000															900	800	700	600	500	400	300									
250																225	200	175	167	158	150	133	125							031
500																450	400	350	333	317	300	267	250							
1000																900	800	700	667	633	600	533	500							
1600																1440	1280	1120	1067	1013	900	853	800							

3.The maximum speed for each stroke is the speed when the motor rotation is 3000 r/min. For longer strokes of ball screw driven models, abnormal noise and vibration may occur due to resonance when operating at maximum speed; the movement speed should be appropriately reduced.

4.Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PSH5 1-Axis



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	800mm	Maximum speed	1000mm/s	Maximux Static Torque	0.32N·m
Ball Screw	ø12mm				

Motor Connection type

BC

BL

BR

BM

Model Number Representation

PSH5 – L05 – S100 – BC – T10B – C 1 – N

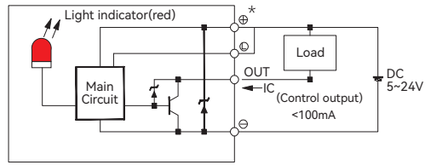
- PSH5 – Model Number
- L05 – Ball Screw Lead: 05 5mm; 10 10mm; 20 20mm
- S100 – Maximum Stroke: Working Stroke Range 50 - 800mm; Interval within the Effective Stroke Range 50mm stroke
- BC – Motor Position: BC Motor Direct Connection; BM Under Linear Module; BL Left Linear Module; BR Right Linear Module
- T10B – Motor Brand 、 Power Output: T Delta(standard); P Panasonic(standard); Y Yaskawa(standard); C Customer-provided; 10 100w; 20 200w; 40 400w; 75 750w; B With Brake*
- C – Origin Sensor: Out Side — C Moter side; D Opposite Motor Side; No Sensor — E No Sensor
- 1 – Endpoint Limit Sensor Configuration: 1 1 pcs; 2 2 pcs; 3 3 pcs; No Sensor — 0 No Sensor
- N – Non-Standard Model

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Specification

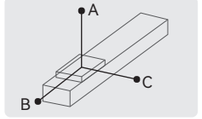
CAPABILITY	Repeatability (mm)		±0.01		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		250	500	1000
	Maximum Payload	Horizontal(kg)	30	15	10
		Vertical(kg)	10	5	2.5
	Rate Thrust (N)		341	170	85
	Working Stroke Range (mm)		50~800mm / 50mm stroke		
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		100		
	Ball Screw ø (mm)		C7ø12		
	Couping(mm)		7×8		
	Home Sensor	Outside	EE-SX674(NPN) EE-SX674P(PNP) PM-Y45(NPN) PM-Y45P(PNP)		

Inductor Wiring Diagram (Origin and Endpoints)



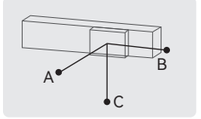
*When the srtoke is over 600mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P022 for standard stroke working speed.

Allowable Overhang



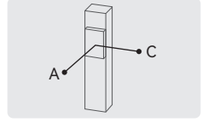
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	10kg	650	75	100
	20kg	440	32	45
	30kg	270	19	25
Lead 10 mm	5kg	600	145	185
	10kg	370	70	85
	15kg	250	42	52
Lead 20 mm	5kg	320	120	130
	8kg	220	70	80
	10kg	175	55	60



unit: mm

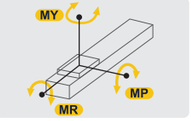
Wall Installation		A	B	C
Lead 5 mm	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	260
Lead 10 mm	5kg	180	145	600
	10kg	85	68	370
	15kg	52	42	250
Lead 20 mm	5kg	130	120	320
	8kg	75	70	220
	10kg	60	55	170



unit: mm

Vertical Installation		A	C
Lead 5 mm	6kg	145	145
	8kg	110	110
	10kg	90	90
Lead 10 mm	1kg	800	800
	3kg	260	260
	5kg	155	155
Lead 20 mm	1kg	600	600
	2kg	300	300
	2.5kg	250	250

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	103
MP	103
MR	144

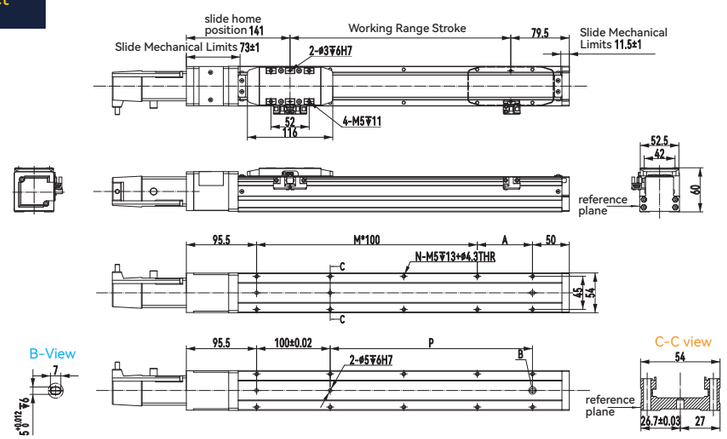
*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	100W	220V	ECMA-C20401ES	ASD-B2-0121-B
		With Brake (Vertical Type)	100W	220V	ECMA-C20401SS	ASD-B2-0121-B
Panasonic	P	Without Brake (Horizontal Type)	100W	220V	MSMF012L1U2M	MADLN05SG
		With Brake (Vertical Type)	100W	220V	MSMF012L1V2M	MADLN05SG
Yaskawa	Y	Without Brake (Horizontal Type)	100W	220V	SGM7J01AFC6S	SGD7SR90A00A002
		With Brake (Vertical Type)	100W	220V	SGM7J01AFC6E	SGD7SR90A00A002

BC Motor Direct Connection

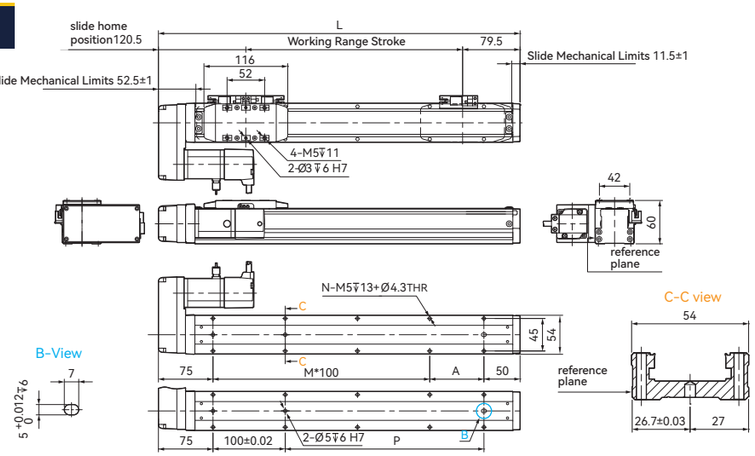
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.65	1.79	1.92	2.11	2.39	2.50	2.52	2.75	2.86	2.95	3.15	3.28	3.44	3.58	3.71	4.09

BL Left Linear Module

Unit:mm

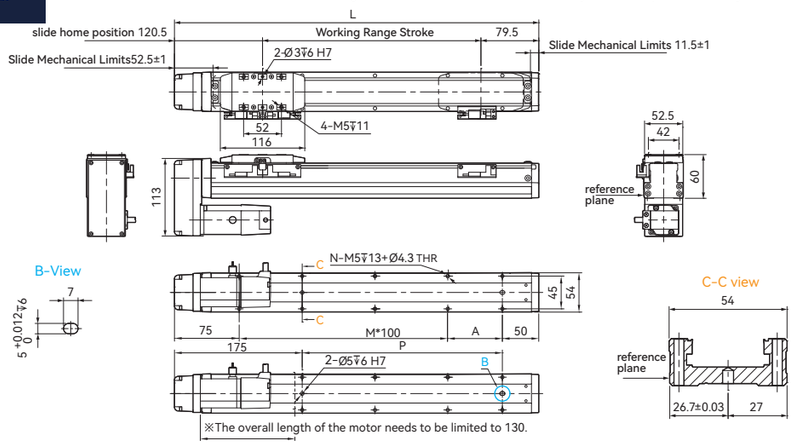


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

BM Under Linear Module

When the motor is folded down, it is not possible to apply the standard PIN holes if the holding motor is replaced or if the total length of the motor is exceeded, so consult your sales representative if you need to do so.

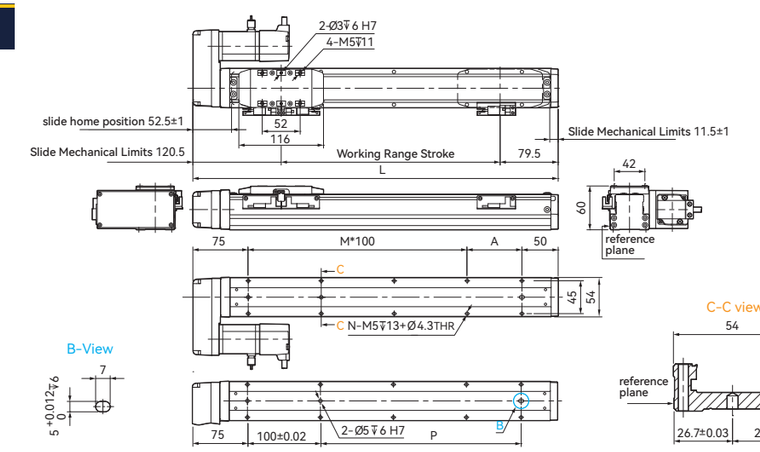
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

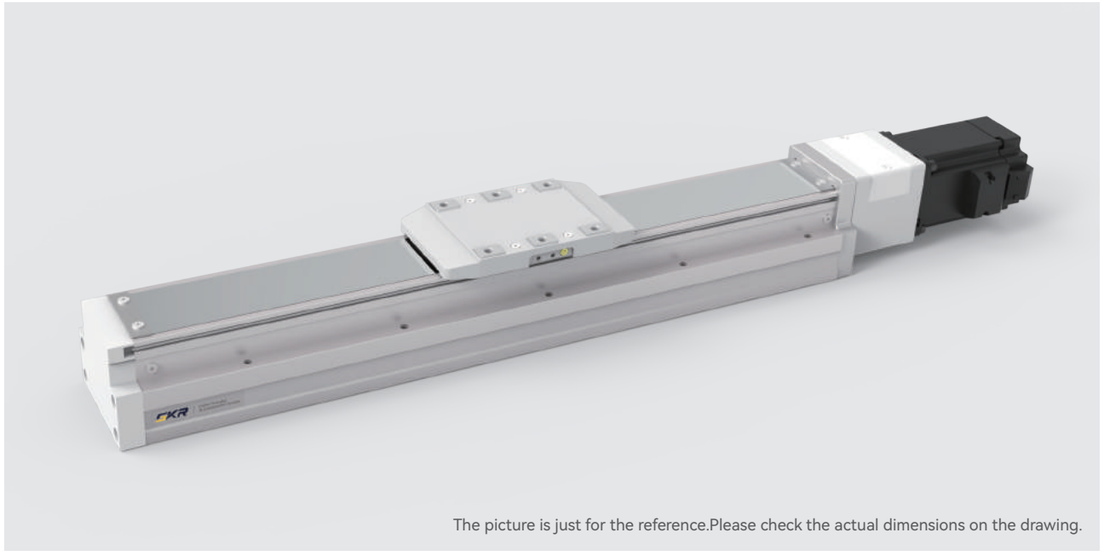
BR Right Linear Module

Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

PSH8 1-Axis



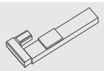
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1100mm
Maximum speed	1000mm/s
Maximux Static Torque	0.64N·m
Ball Screw	ø16mm

Motor Connection type

BC

BL


BR

BM

Model Number Representation

PSH8 – L05 – S100 – BC – T20B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm

Maximum Stroke

Working Stroke Range	50 - 1100mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

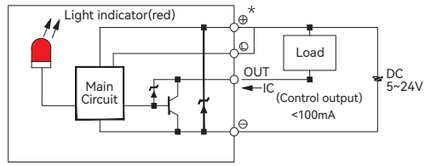
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

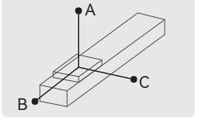
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	
	Maximum Speed (mm/s)		250	500	1000	
	Maximum Payload	Horizontal(kg)	50	30	18	
		Vertical(kg)	15	8	3	
	Rate Thrust (N)		683	341	174	
	Working Stroke Range (mm)		50~1100mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		200			
	Ball Screw ø (mm)		C7ø16			
	Couping(mm)		10×14 (11*)			
	Home Sensor	Outside	EE-SX674(NPN) EE-SX674P(PNP) PM-Y45(NPN) PM-Y45P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



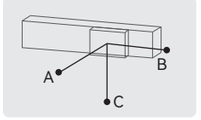
*When the srtoke is over 600mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P022 for standard stroke working speed.

Allowable Overhang



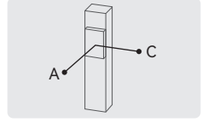
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	20kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82
Lead 10 mm	10kg	1730	286	412
	20kg	839	136	196
	30kg	541	86	124
Lead 20 mm	6kg	1213	403	493
	9kg	800	264	323
	18kg	592	194	238



unit: mm

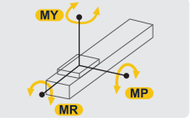
Wall Installation		A	B	C
Lead 5 mm	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506
Lead 10 mm	10kg	370	286	1400
	20kg	176	136	800
	30kg	112	86	495
Lead 20 mm	6kg	444	403	760
	9kg	292	264	277
	18kg	214	194	544



unit: mm

Vertical Installation		A	C
Lead 5 mm	10kg	331	331
	15kg	220	220
	—	—	—
Lead 10 mm	5kg	589	589
	8kg	368	368
	—	—	—
Lead 20 mm	3kg	935	935
	—	—	—
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	318
MP	318
MR	626

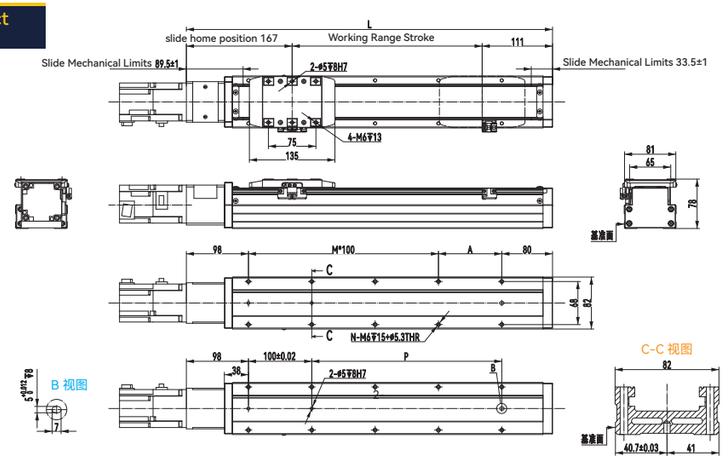
*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	200W	220V	ECMA-C20602RS	ASD-B2-0221-B
		With Brake (Vertical Type)	200W	220V	ECMA-C20602SS	ASD-B2-0221-B
Panasonic	P	Without Brake (Horizontal Type)	200W	220V	MHMF022L1U2M	MADLN15SG
		With Brake (Vertical Type)	200W	220V	MHMF022L1V2M	MADLN15SG
Yaskawa	Y	Without Brake (Horizontal Type)	200W	220V	SGM7J02AFC6S	SGD7S1R6A00A002
		With Brake (Vertical Type)	200W	220V	SGM7J02AFC6E	SGD7S1R6A00A002

BC Motor Direct Connection

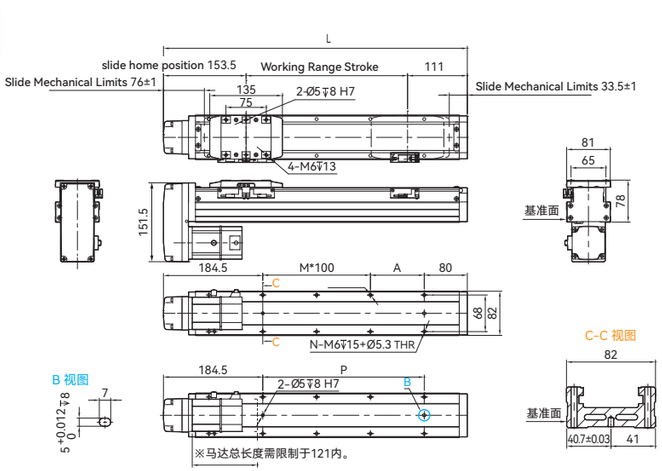
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.91	4.29	4.70	5.00	5.35	5.68	6.00	6.35	6.64	6.97	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.70	11.12

BM Under Linear Module

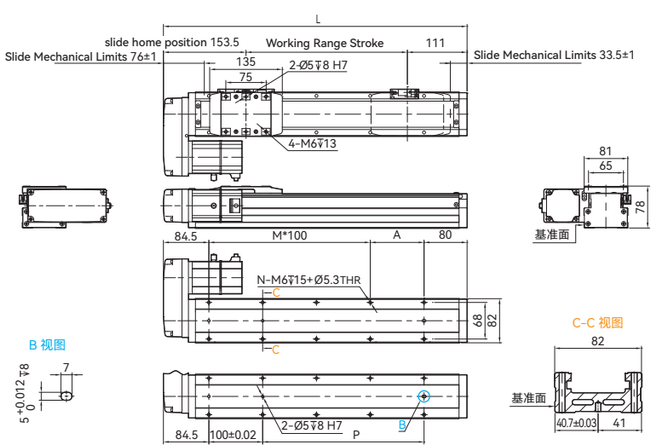
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

BL Left Linear Module

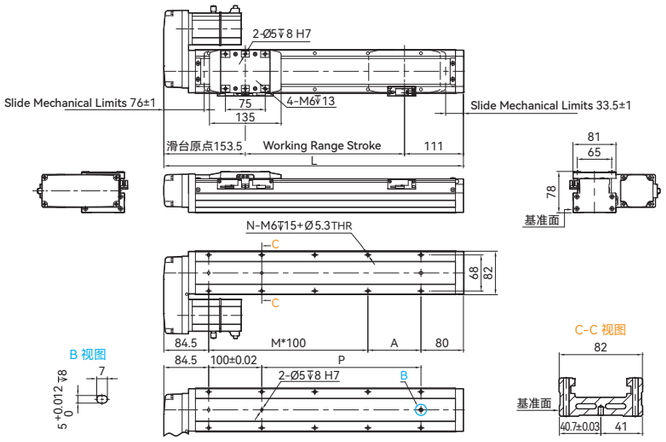
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

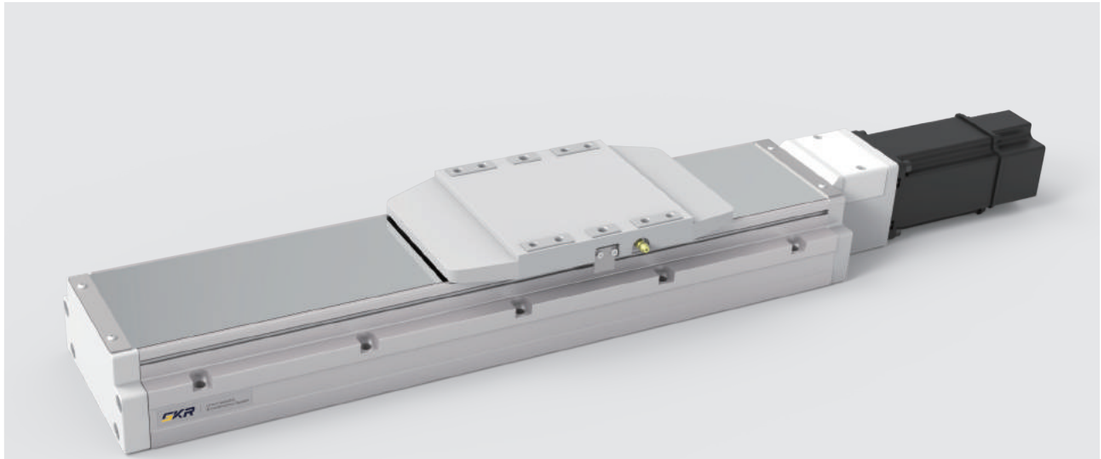
BR Right Linear Module

Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

PSH12 1-Axis



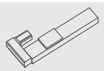
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1200mm
Maximum speed	1600mm/s
Maximux Static Torque	1.27N·m
Ball Screw	ø16mm

Motor Connection type

BC

BL



BR

BM

Model Number Representation

PSH12 – L05 – S100 – BC – T40B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm

Maximum Stroke

Working Stroke Range	50 - 800mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

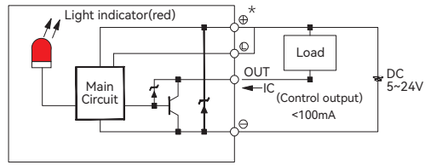
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

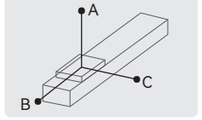
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	110	88	40	30
		Vertical(kg)	33	22	10	8
	Rate Thrust (N)		1388	694	374	218
	Working Stroke Range (mm)		50~1200mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400			
	Ball Screw ø (mm)		C7ø16			
	Couping(mm)		10×14			
	Home Sensor	Outside	EE-SX674(NPN) EE-SX674P(PNP) PM-Y45(NPN) PM-Y45P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



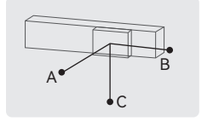
*When the srtoke is over 600mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P022 for standard stroke working speed.

Allowable Overhang



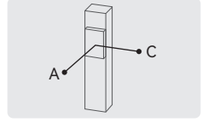
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	60kg	2850	250	340
	80kg	2100	180	250
	110kg	1500	120	170
Lead 10 mm	30kg	2850	490	600
	50kg	1700	280	350
	88kg	950	140	190
Lead 20 mm	10kg	3400	1250	1400
	22kg	1650	550	620
	40kg	900	290	330
Lead 32 mm	15kg	1100	570	550
	25kg	620	330	320
	30kg	520	270	260



unit: mm

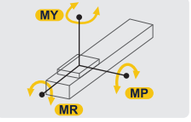
Wall Installation		A	B	C
Lead 5 mm	55kg	280	280	3300
	75kg	200	195	2400
	110kg	130	125	1550
Lead 10 mm	35kg	400	410	2500
	55kg	245	250	1550
	88kg	150	150	950
Lead 20 mm	12kg	900	1070	3000
	20kg	550	630	1800
	40kg	260	300	900
Lead 32 mm	15kg	440	570	1050
	30kg	210	270	520
	—	—	—	—



unit: mm

Vertical Installation		A	C
Lead 5 mm	15kg	1200	1200
	22kg	820	820
	33kg	550	550
Lead 10 mm	10kg	1600	1600
	14kg	1150	1150
	22kg	730	730
Lead 20 mm	7kg	1800	1800
	10kg	1250	1250
	—	—	—
Lead 32 mm	5kg	1600	1600
	8kg	1000	1000
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	606
MP	606
MR	1168

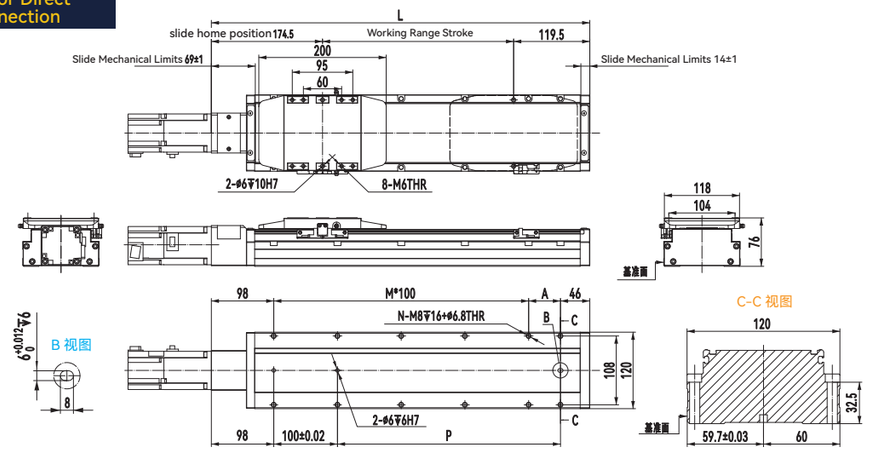
*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

BC Motor Direct Connection

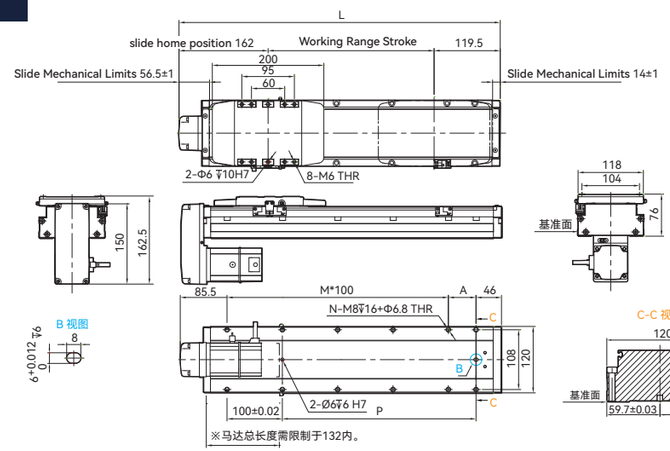
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1

BM Under Linear Module

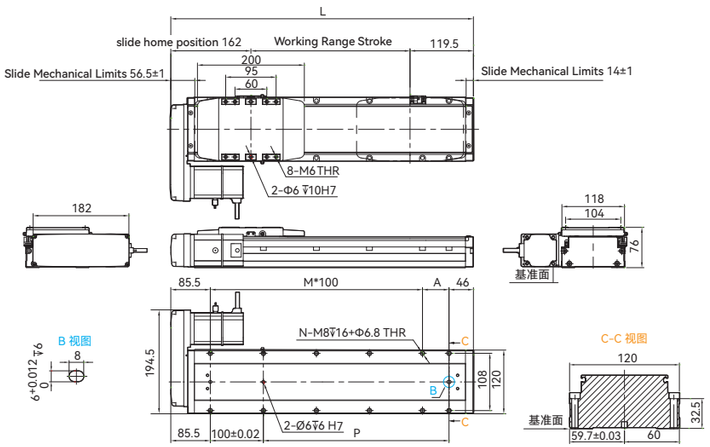
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5	1331.5	1381.5	1431.5	1481.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.5	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.3

BL Left Linear Module

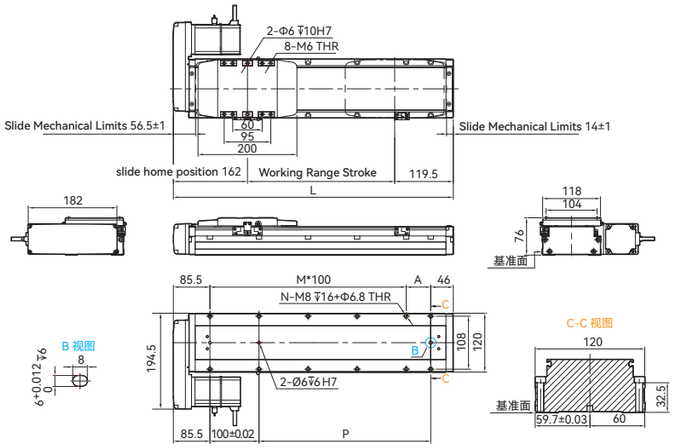
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5	1331.5	1381.5	1431.5	1481.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.5	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.3

BR Right Linear Module

Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5	1331.5	1381.5	1431.5	1481.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.5	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.3

PSY Series
Built-in Guide Electric Cylinder Series
ECONOMIC TYPE/BALL SCREW DRIVE SEMI-ENCLOSED

Product Catalog
CONTENTS

PSY8

Maximum stroke 800mm
Maximum load 50KG
Body height 73.5mm
Body width 82mm
····· 039

PSY12

Maximum stroke 800mm
Maximum load 110KG
Body height 64mm
Body width 120mm
····· 043

Product Index

Built-in Guide Electric Cylinder Series

Use Where	Driven Mode	Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Ball Screw Spec (C7 grade)		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Diameter (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment	Ball Screw	PSY8	200	82	±0.01	16	5	50	15	250
							10	30	8	500
							20	12	2.5	1000
		PSY12	400	120	±0.01	16	5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600

*Notes:

The rated speed is the speed at the motor's rated rotation (3000 r/min), or the speed limited by the ball screw's permissible rotation.

The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

Standard stroke and maximum operating speed"3 Stroke (mm) & Maximum Speed (mm/s)	Represents working speed speed	Page
Stroke: 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500		
250 — 225		039
500 — 450		
1000 — 900		
250		043
500		
1000		
1600		

3. The maximum speed for each stroke is the speed when the motor rotation is 3000 r/min. For longer strokes of ball screw driven models, abnormal noise and vibration may occur due to resonance when operating at maximum speed; the movement speed should be appropriately reduced.

4.Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PSY8 1-Axis

Ball Screw Drive

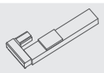
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	800mm	Maximum speed	1000mm/s	Maximux Static Torque	0.64N·m	Ball Screw	ø16mm

Motor Connection type

BC

BL


BR

BM

Model Number Representation

PSY8 – L05 – S100 – BC – T20B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm

Maximum Stroke

Working Stroke Range	50 - 800mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

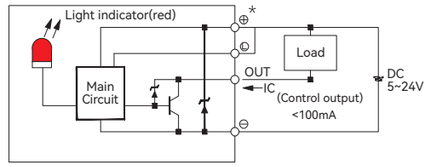
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

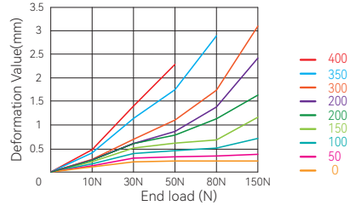
CAPABILITY	Repeatability (mm)		±0.01		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		250	500	1000
	Maximum Payload	Horizontal(kg)	50	30	12
		Vertical(kg)	15	8	2.5
	Rate Thrust (N)		683	341	174
	Working Stroke Range (mm)		50~800mm / 50mm stroke		
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		200		
	Ball Screw ø (mm)		C7ø16		
	Couping(mm)		10×14 (11*)		
	Home Sensor	Outside	EE-SX674(NPN) EE-SX674P(PNP) PM-Y45(NPN) PM-Y45P(PNP)		

Inductor Wiring Diagram (Origin and Endpoints)



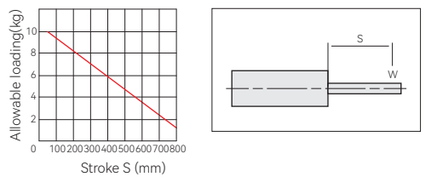
*When the srtoke is over 750mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Motor (200W) Shaft Diameter : Panasonic : 11mm ; Other : 14mm.
*Please refer to page P020 for standard stroke working speed.

Shaft Output Deformation Value



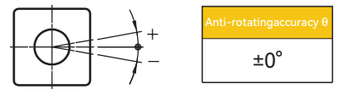
*This form is only reference values.

Allowable Overhang



*No external auxiliary mechanism, extension distance of load = 0.

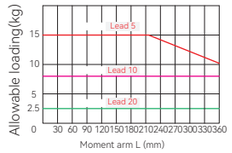
Anti-rotating Accuracy of Rod

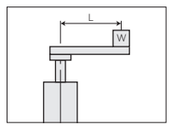


Anti-rotatingaccuracy θ
±0°

Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This maycause deformation of the Anti-rotating guide, abnormal responses of the auto switch, play in the internal guide or an increase in the sliding resistance.

Anti-rotating Accuracy of Rod





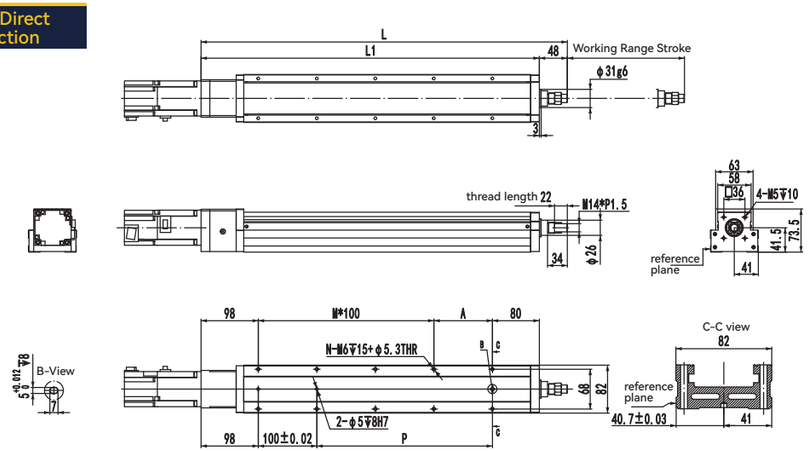
* Calculation conditions: 3000 rpm / min, acceleration and deceleration: 0.2s.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	200W	220V	ECMA-C20602RS	ASD-B2-0221-B
		With Brake (Vertical Type)	200W	220V	ECMA-C20602SS	ASD-B2-0221-B
Panasonic	P	Without Brake (Horizontal Type)	200W	220V	MHMF022L1U2M	MADLN15SG
		With Brake (Vertical Type)	200W	220V	MHMF022L1V2M	MADLN15SG
Yaskawa	Y	Without Brake (Horizontal Type)	200W	220V	SGM7J02AFC6S	SGD7S1R6A00A002
		With Brake (Vertical Type)	200W	220V	SGM7J02AFC6E	SGD7S1R6A00A002

BC Motor Direct Connection

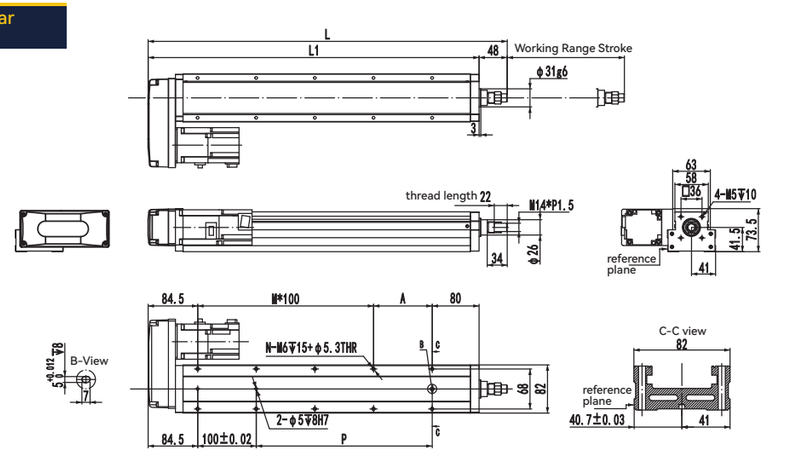
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126
L1	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	4	4.35	4.7	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25

BL Left Linear Module

Unit:mm

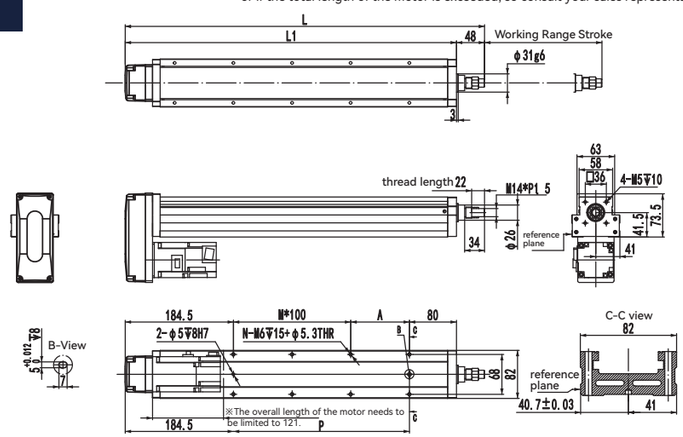


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5
L1	314.5	364.5	315.5	464.5	316.5	564.5	317.5	664.5	318.5	764.5	319.5	864.5	320.5	964.5	321.5	1064.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	4.1	4.45	4.8	5.15	5.5	5.85	6.2	6.55	6.9	7.25	7.6	7.95	8.3	8.65	9	9.35

BM Under Linear Module

When the motor is folded down, it is not possible to apply the standard PIN holes if the holding motor is replaced or if the total length of the motor is exceeded, so consult your sales representative if you need to do so.

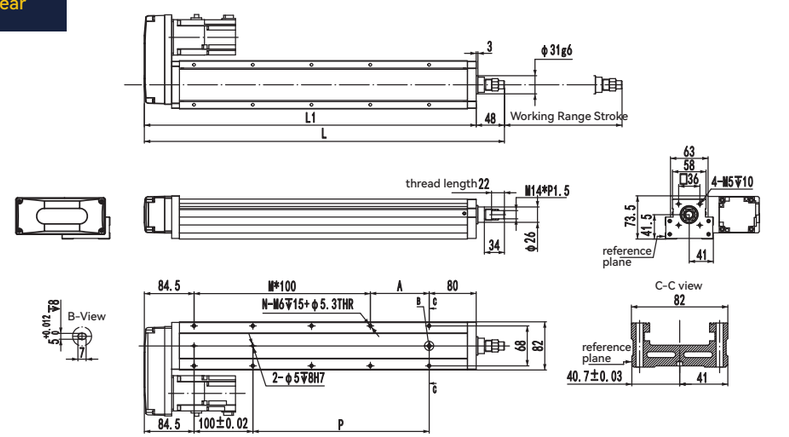
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5
L1	314.5	364.5	315.5	464.5	316.5	564.5	317.5	664.5	318.5	764.5	319.5	864.5	320.5	964.5	321.5	1064.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	4.1	4.45	4.8	5.15	5.5	5.85	6.2	6.55	6.9	7.25	7.6	7.95	8.3	8.65	9	9.35

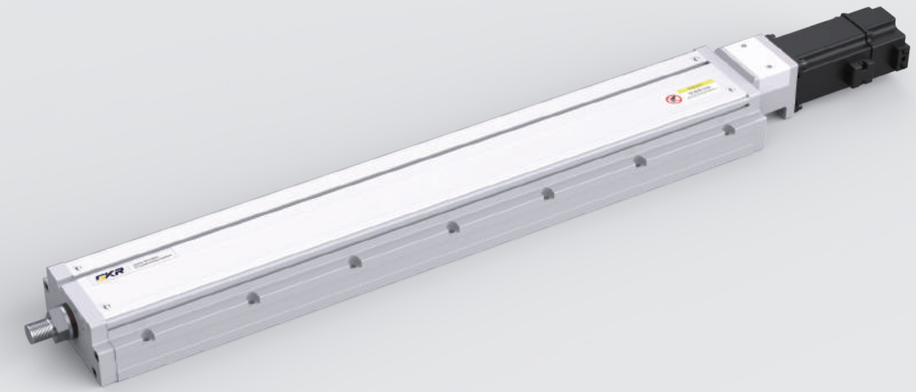
BR Right Linear Module

Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5
L1	314.5	364.5	315.5	464.5	316.5	564.5	317.5	664.5	318.5	764.5	319.5	864.5	320.5	964.5	321.5	1064.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	4.1	4.45	4.8	5.15	5.5	5.85	6.2	6.55	6.9	7.25	7.6	7.95	8.3	8.65	9	9.35

PSY12 1-Axis



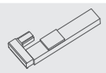
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	800mm	Maximum speed	1600mm/s	Maximux Static Torque	1.27N·m	Ball Screw	ø16mm

Motor Connection type

BC

BL


BR

BM

Model Number Representation

PSY12 – L05 – S100 – BC – T40B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm
32	32mm

Maximum Stroke

Working Stroke Range	50 – 800mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

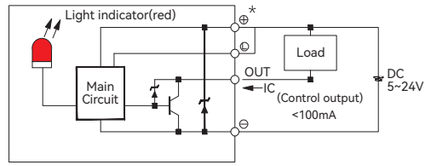
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

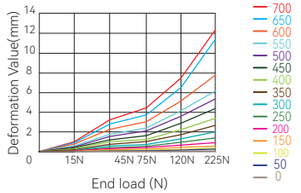
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	110	88	40	30
		Vertical(kg)	33	22	10	8
	Rate Thrust (N)		1388	694	374	218
	Working Stroke Range (mm)		50~800mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400			
	Ball Screw ø (mm)		C7ø16			
	Couping(mm)		10×14			
	Home Sensor	Outside	EE-SX674(NPN) EE-SX674P(PNP) PM-Y45(NPN) PM-Y45P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



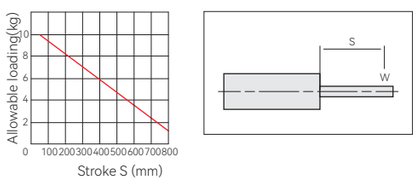
*When the srtoke is over 800mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P020 for standard stroke working speed.

Shaft Output Deformation Value



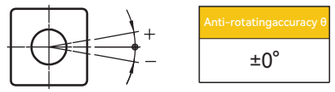
*This form is only reference values.

Allowable Overhang



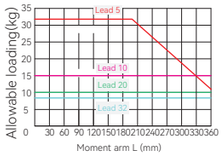
*No external auxiliary mechanism, extension distance of load = 0.

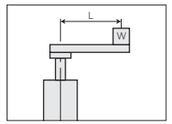
Anti-rotating Accuracy of Rod



Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This maycause deformation of the Anti-rotating guide, abnormal responses of the auto switch, play in the internal guide or an increase in the sliding resistance.

Anti-rotating Accuracy of Rod





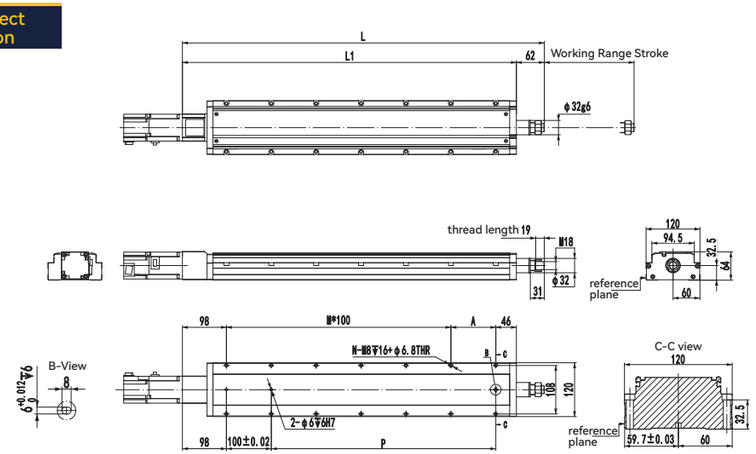
Calculation conditions: 3000 rpm / min, acceleration and deceleration: 0.2s.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

BC Motor Direct Connection

Unit:mm

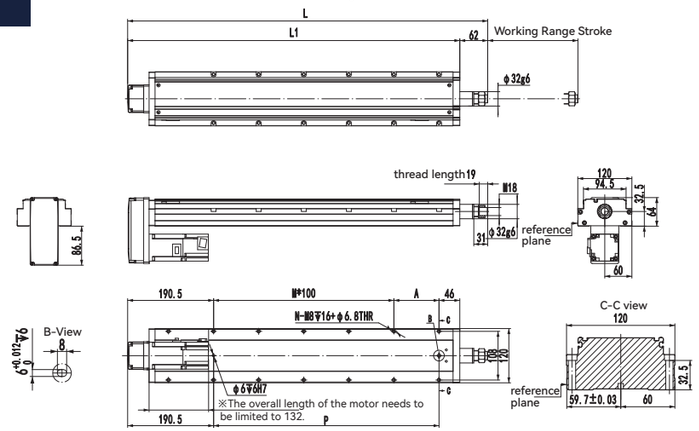


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156
L1	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
KG	4.85	5.35	5.85	6.35	6.85	7.35	7.85	8.35	8.85	9.35	9.85	10.35	10.85	11.35	11.85	12.35

BM Under Linear Module

When the motor is folded down, it is not possible to apply the standard PIN holes if the holding motor is replaced or if the total length of the motor is exceeded, so consult your sales representative if you need to do so.

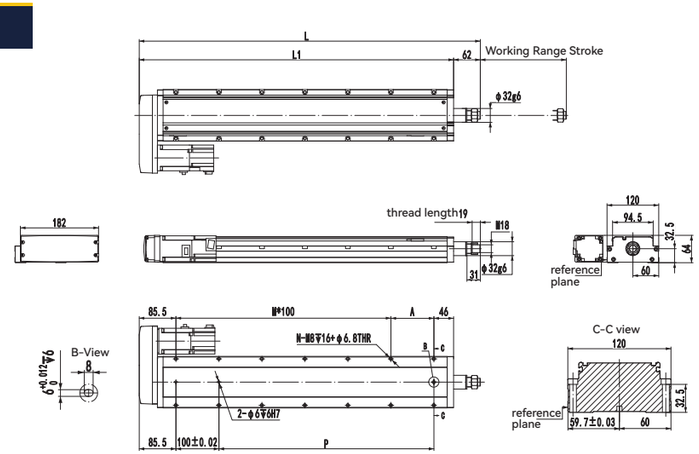
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	398.5	448.5	498.5	548.5	598.5	648.5	698.5	748.5	798.5	848.5	898.5	948.5	998.5	1048.5	1098.5	1148.5
L1	336.5	386.5	436.5	486.5	536.5	586.5	636.5	686.5	736.5	786.5	836.5	886.5	936.5	986.5	1036.5	1086.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
KG	5.3	5.78	6.26	6.74	7.22	7.7	8.18	8.66	9.14	9.62	10.1	10.58	11.06	11.54	12.02	12.5

BL Left Linear Module

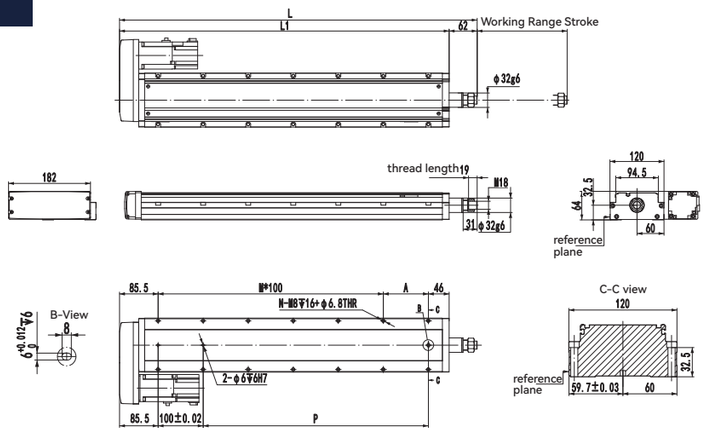
Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	393.5	443.5	493.5	543.5	593.5	643.5	693.5	743.5	793.5	843.5	893.5	943.5	993.5	1043.5	1093.5	1143.5
L1	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
KG	5.3	5.78	6.26	6.74	7.22	7.7	8.18	8.66	9.14	9.62	10.1	10.58	11.06	11.54	12.02	12.5

BR Right Linear Module

Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	393.5	443.5	493.5	543.5	593.5	643.5	693.5	743.5	793.5	843.5	893.5	943.5	993.5	1043.5	1093.5	1143.5
L1	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
KG	5.3	5.78	6.26	6.74	7.22	7.7	8.18	8.66	9.14	9.62	10.1	10.58	11.06	11.54	12.02	12.5

PSS Series

General Linear Module Series

PRECISION TYPE/BALL SCREW DRIVE

SEMI-ENCLOSED

Product Catalog

CONTENTS

PSS120

Maximum stroke 1050mm
Maximum load 50KG
Body height 70mm
Body width 102mm

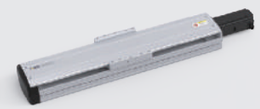
····· 051

PSS130

Maximum stroke 1050mm
Maximum load 70KG
Body height 78mm
Body width 135mm

····· 055

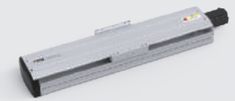
PSS140



Maximum stroke 1050mm
Maximum load 110KG
Body height 78mm
Body width 135mm

····· 061

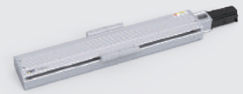
PSS170



Maximum stroke 1250mm
Maximum load 120KG
Body height 97mm
Body width 170mm

····· 067

PSS200



Maximum stroke 1500mm
Maximum load 140KG
Body height 101.5mm
Body width 175mm

····· 071

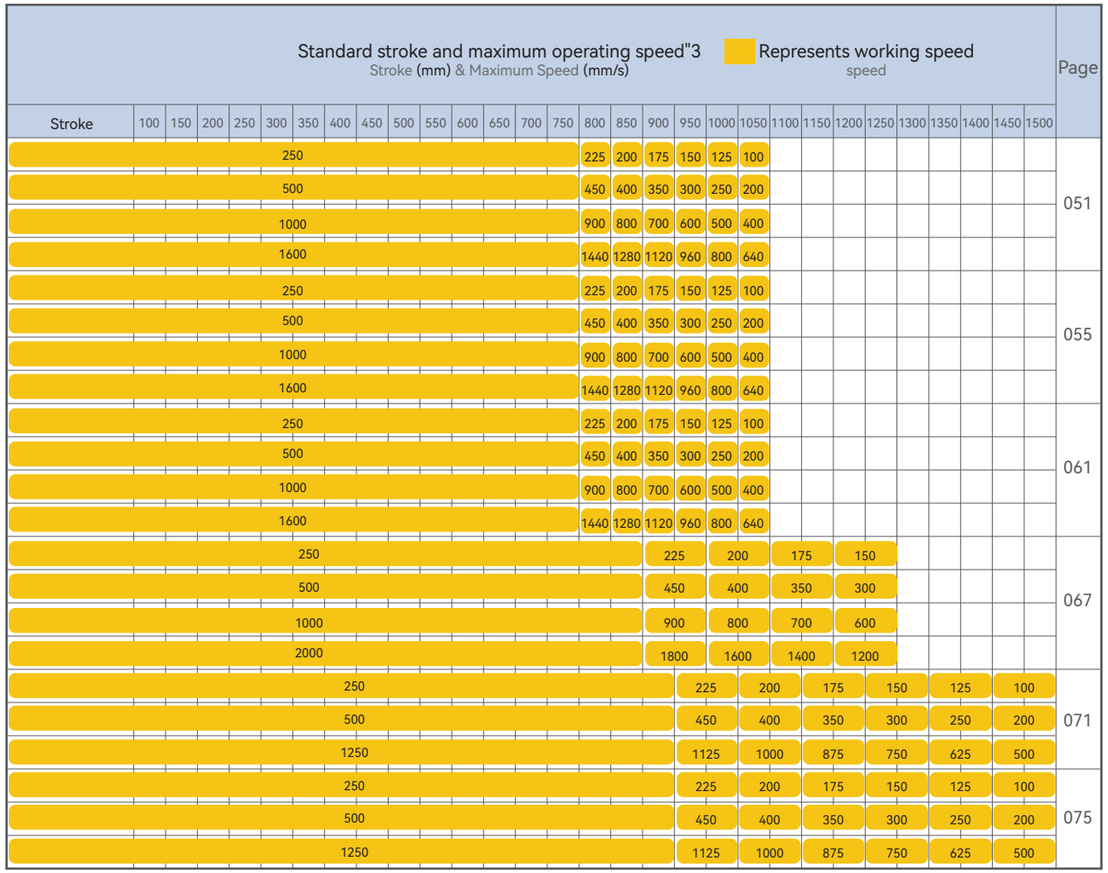
PSS220

Maximum stroke 1500mm
Maximum load 150KG
Body height 122mm
Body width 220mm

····· 075

Product Index

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Ball Screw Spec (C7 grade)		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Diameter (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment	Ball Screw	PSS120	200	102	±0.01	16	5	50	12	250
							10	30	8	500
							20	18	3	1000
							32	5	—	1600
		PSS130	200	135	±0.01	16	5	70	17	250
							10	47	12	500
							20	24	6	1000
							32	13	—	1600
		PSS140	400	135	±0.01	16	5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600
		PSS170	750	170	±0.01	20	5	120	50	250
							10	120	40	500
							20	83	25	1000
							40	43	12	2000
		PSS200	750	175	±0.01	25	5	140	50	250
							10	140	40	500
							25	95	18	1250
		PSS220	750	220	±0.01	25	5	150	55	250
							10	150	45	500
							25	105	20	1250



Page
051
055
061
067
071
075

*Notes:

1. The rated speed is the speed at the motor's rated rotation (3000 r/min), or the speed limited by the ball screw's permissible rotation.

2. The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

3. The maximum speed for each stroke is the speed when the motor rotation is 3000 r/min. For longer strokes of ball screw driven models, abnormal noise and vibration may occur due to resonance when operating at maximum speed; the movement speed should be appropriately reduced.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PSS120 1-Axis

Ball Screw Drive

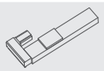
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1050mm
Maximum speed	1600mm/s
Maximux Static Torque	0.64N·m
Ball Screw	ø16mm
Linear Guide	12×7.5-2pcs

Motor Connection type

BC

BL

 BR

BM

Model Number Representation

PSS120 – L05 – S100 – BC – T20B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm
32	32mm

Maximum Stroke

Working Stroke Range	50 - 1050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

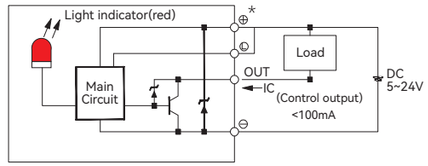
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

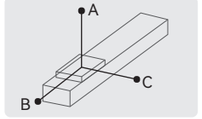
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	50	30	18	5
		Vertical(kg)	12	8	3	—
	Rate Thrust (N)		788	394	197	123
	Working Stroke Range (mm)		100~1050mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		200			
	Ball Screw ø (mm)		C7ø16			
	Linear Guide (mm)		W12×H7.5			
	Couping(mm)		10×14			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



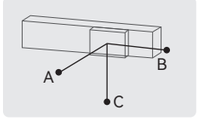
*When the srtoke is over 750mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P050 for standard stroke working speed.

Allowable Overhang



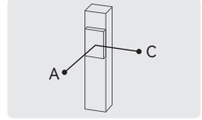
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	30kg	882	65	78
	40kg	606	43	51
	50kg	437	29	35
Lead 10 mm	15kg	875	138	157
	25kg	485	73	83
	30kg	386	56	64
Lead 20 mm	5kg	1160	384	386
	10kg	561	180	181
	18kg	288	88	89
Lead 32 mm	3kg	822	444	385
	5kg	492	255	224
	—	—	—	—



unit: mm

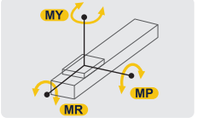
Wall Installation		A	B	C
Lead 5 mm	25kg	100	84	1102
	35kg	63	52	725
	50kg	35	29	433
Lead 10 mm	10kg	250	221	1311
	20kg	110	97	633
	30kg	64	56	385
Lead 20 mm	6kg	317	316	955
	12kg	147	144	455
	18kg	89	88	288
Lead 32 mm	2kg	591	682	1256
	5kg	224	255	488
	—	—	—	—



unit: mm

Vertical Installation		A	C
Lead 5 mm	5kg	544	544
	8kg	341	341
	12kg	227	227
Lead 10 mm	4kg	606	606
	8kg	303	303
	—	—	—
Lead 20 mm	2kg	961	961
	3kg	639	639
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	150
MP	130
MR	130

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

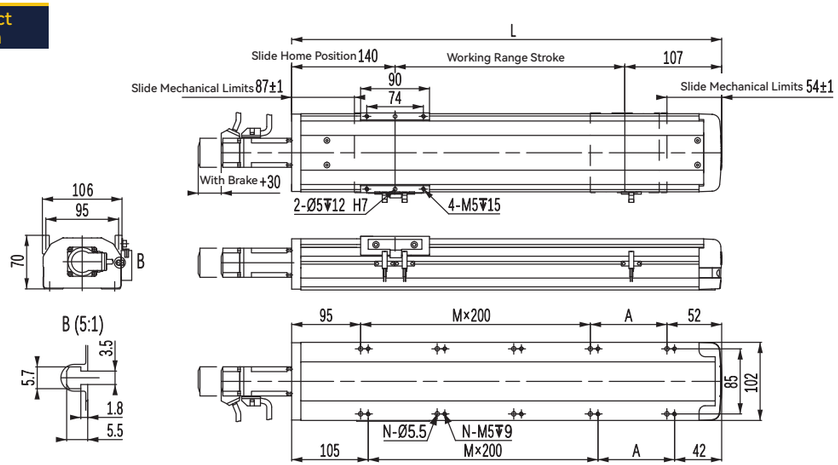
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	200W	220V	ECMA-C20602RS	ASD-B2-0221-B
		With Brake (Vertical Type)	200W	220V	ECMA-C20602SS	ASD-B2-0221-B
Panasonic	P	Without Brake (Horizontal Type)	200W	220V	MHMF022L1U2M	MADLN15SG
		With Brake (Vertical Type)	200W	220V	MHMF022L1V2M	MADLN15SG
Yaskawa	Y	Without Brake (Horizontal Type)	200W	220V	SGM7J02AFC6S	SGD7S1R6A00A002
		With Brake (Vertical Type)	200W	220V	SGM7J02AFC6E	SGD7S1R6A00A002

PSS120 1-Axis

BC Motor Direct Connection

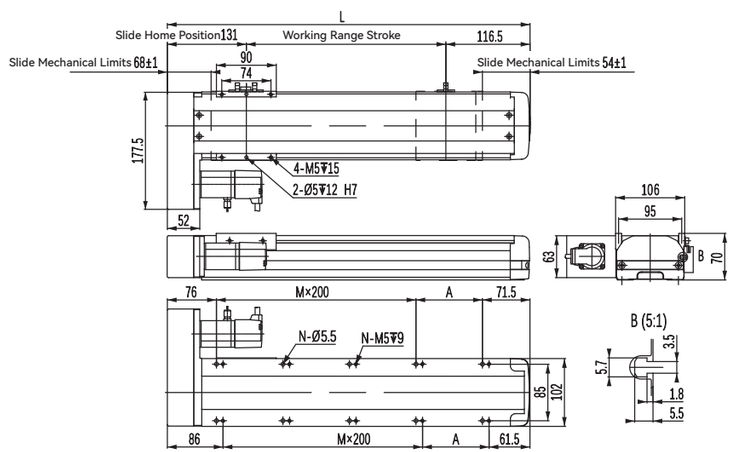
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347	397	447	497	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.67	6.06	6.45	6.84	7.23	7.63	8.01	8.4	8.79	9.18	9.57	9.96	10.35	10.74	11.13	11.52	11.91	12.3	12.69	13.08

BL Left Linear Module

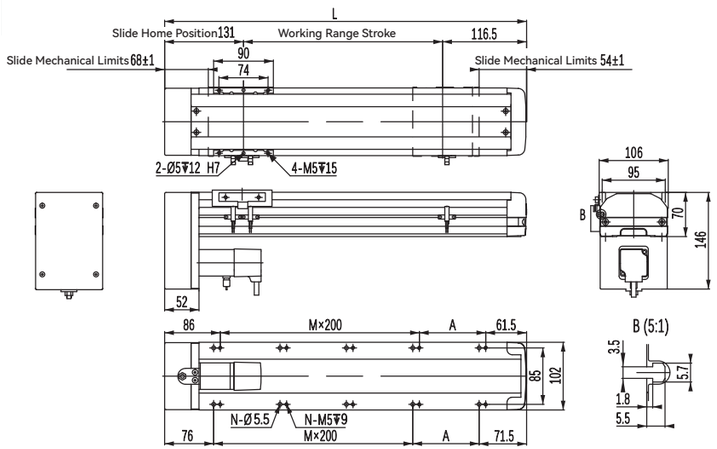
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

BM Under Linear Module

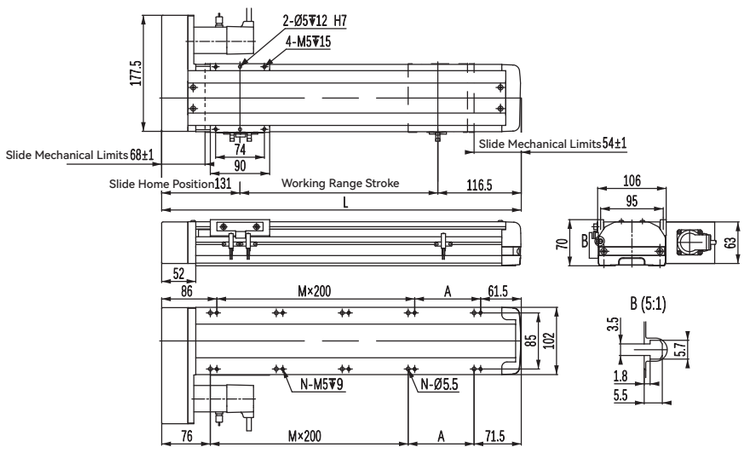
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

BR Right Linear Module

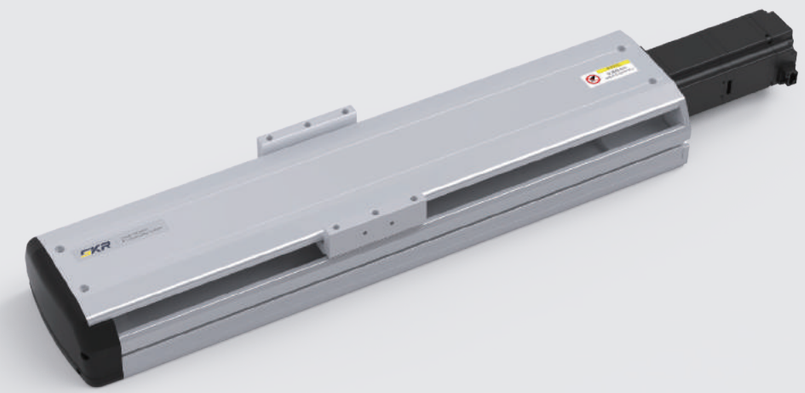
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

PSS130 1-Axis

Ball Screw Drive



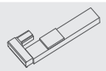
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1050mm
Maximum speed	1600mm/s
Maximux Static Torque	0.64N·m
Ball Screw	ø16mm
Linear Guide	15×12.5-2pcs

Motor Connection type

BC

BL

 BR

BM

M

Model Number Representation

PSS130 – L05 – S100 – BC – T20B – C 1 – N

- PSS130 – Model Number
- L05 – Ball Screw Lead

05	5mm
10	10mm
20	20mm
32	32mm

- S100 – Maximum Stroke

Working Stroke Range	100 - 1050mm
Interval within the Effective Stroke Range	50mm stroke

- BC – Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module
M	Motor Built-In

- T20B – Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

- C – Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

- 1 – Endpoint Limit Sensor Configuration

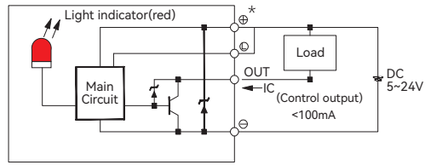
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

- N – Non-Standard Model

Specification

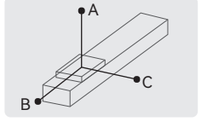
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	70	47	24	13
		Vertical(kg)	17	12	6	—
	Rate Thrust (N)		788	394	197	123
	Working Stroke Range (mm)		100~1050mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		200			
	Ball Screw ø (mm)		C7ø16			
	Linear Guide (mm)		W15×H12.5			
	Couping(mm)		10×14			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



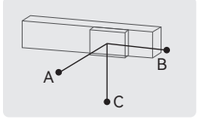
*Please refer to page P050 for standard stroke working speed.
*Acceleration and deacceleration value is set 0.2 second.
*When the srtoke is over 750mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.

Allowable Overhang



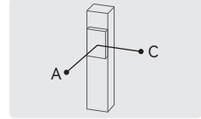
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	40kg	795	63	225
	55kg	558	43	155
	70kg	422	32	115
Lead 10 mm	25kg	588	95	276
	35kg	410	65	190
	47kg	295	46	135
Lead 20 mm	6kg	1068	355	710
	15kg	416	136	275
	24kg	252	81	166
Lead 32 mm	7kg	385	205	298
	13kg	204	106	156
	—	—	—	—



unit: mm

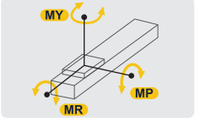
Wall Installation		A	B	C
Lead 5 mm	30kg	310	88	1066
	50kg	172	49	620
	70kg	115	32	422
Lead 10 mm	20kg	351	122	743
	30kg	225	78	484
	47kg	135	46	294
Lead 20 mm	5kg	852	428	1227
	12kg	345	173	522
	24kg	166	81	253
Lead 32 mm	6kg	350	240	453
	13kg	155	106	204
	—	—	—	—



unit: mm

Vertical Installation		A	C
Lead 5 mm	5kg	580	580
	11kg	264	264
	17kg	170	170
Lead 10 mm	4kg	644	644
	8kg	322	322
	12kg	215	215
Lead 20 mm	3kg	667	667
	6kg	335	335
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	174
MP	175
MR	153

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

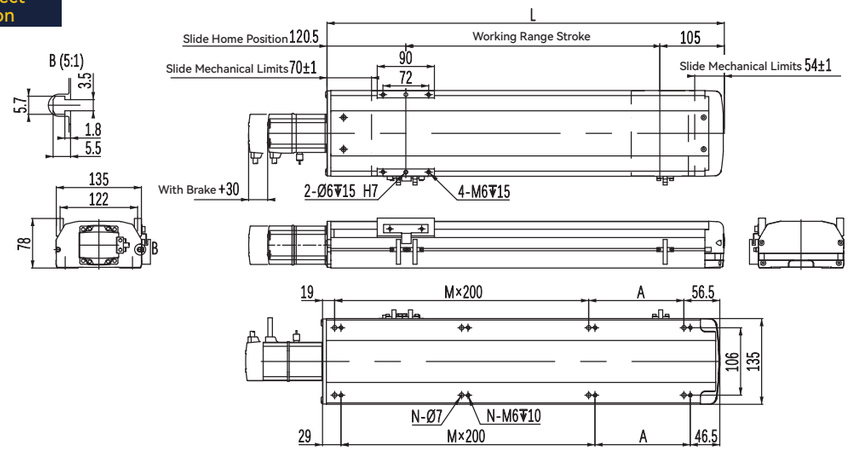
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	200W	220V	ECMA-C20602RS	ASD-B2-0221-B
		With Brake (Vertical Type)	200W	220V	ECMA-C20602SS	ASD-B2-0221-B
Panasonic	P	Without Brake (Horizontal Type)	200W	220V	MHMF022L1U2M	MADLN15SG
		With Brake (Vertical Type)	200W	220V	MHMF022L1V2M	MADLN15SG
Yaskawa	Y	Without Brake (Horizontal Type)	200W	220V	SGM7J02AFC6S	SGD7S1R6A00A002
		With Brake (Vertical Type)	200W	220V	SGM7J02AFC6E	SGD7S1R6A00A002

PSS130 1-Axis

BC Motor Direct Connection

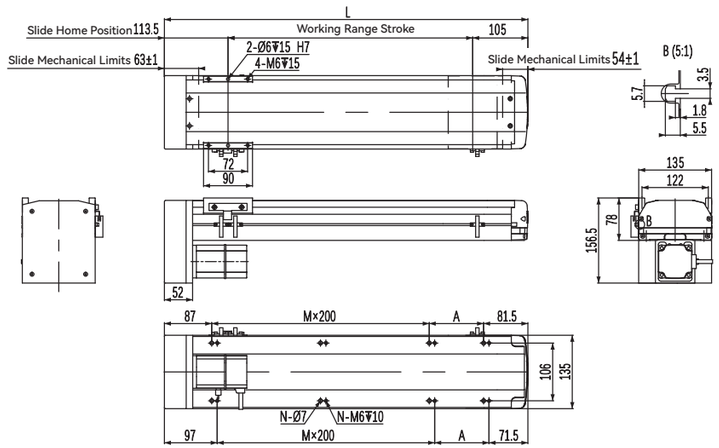
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	7.96	8.52	9.08	9.64	10.2	10.76	11.32	11.88	12.44	13	13.56	14.12	14.68	15.24	15.80	16.36	16.92	17.48	18.04	18.60

BM Under Linear Module

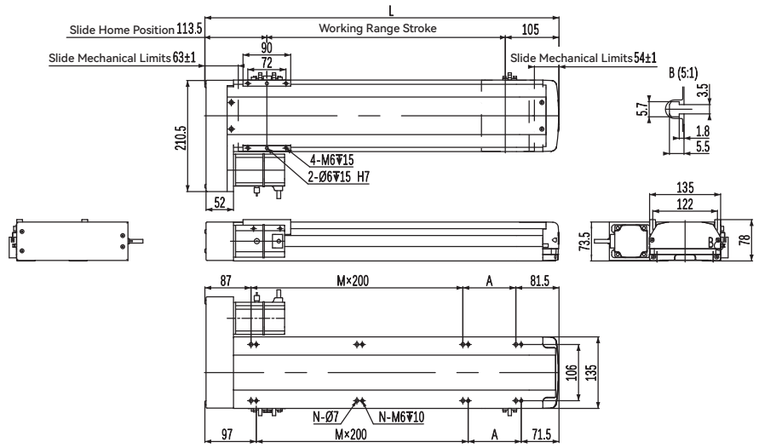
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

BL Left Linear Module

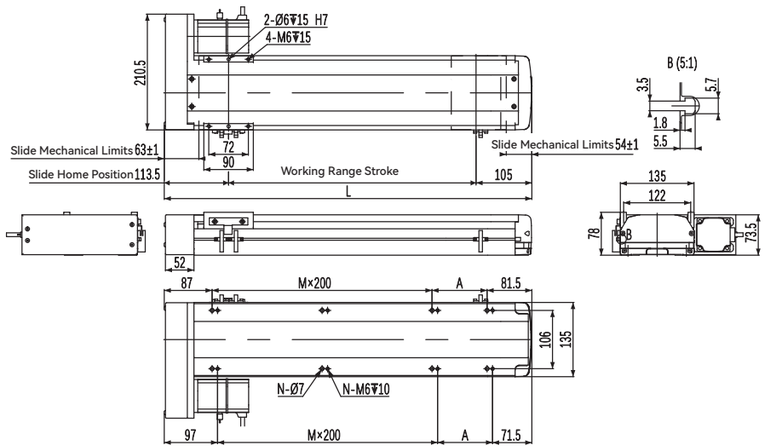
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

BR Right Linear Module

Unit:mm

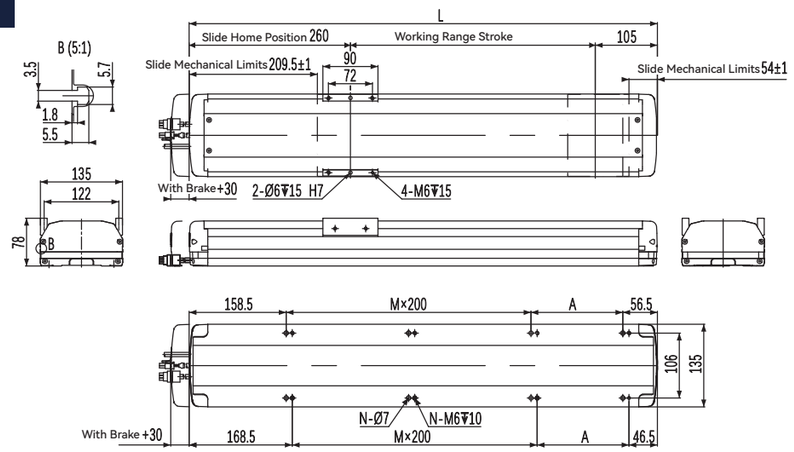


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

PSS130 1-Axis

M Motor Built-In

Unit:mm

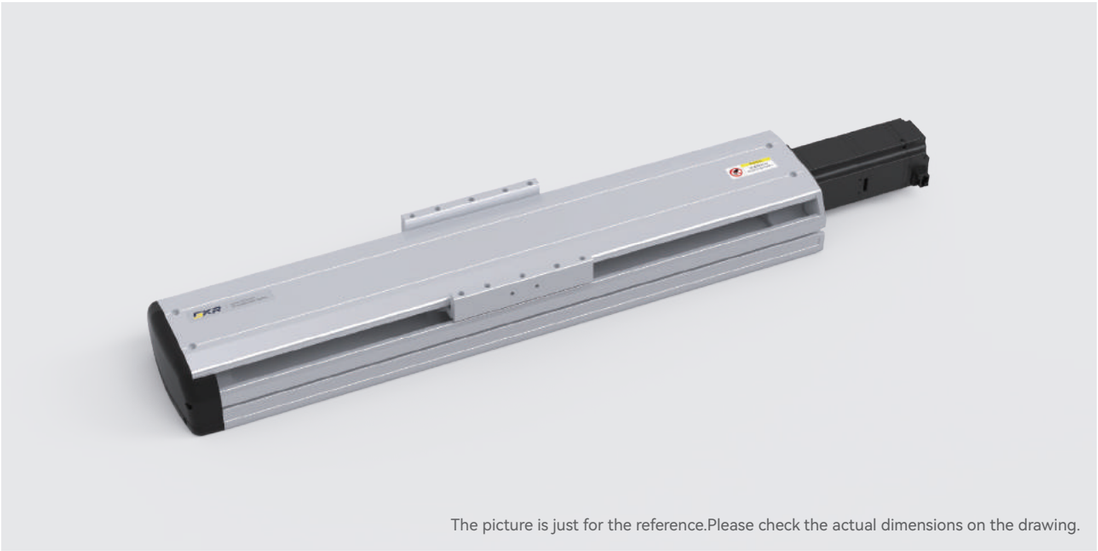


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	8.86	9.42	9.98	10.54	11.1	11.66	12.22	12.78	13.34	13.9	14.46	15.02	15.58	16.14	16.7	17.26	17.82	18.38	18.94	19.5

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PSS140 1-Axis

Ball Screw Drive



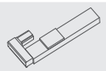
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1050mm
Maximum speed	1600mm/s
Maximux Static Torque	1.27N·m
Ball Screw	ø16mm
Linear Guide	15×12.5-2pcs

Motor Connection type

BC

BL

 BR

BM

M

Model Number Representation

PSS140 – L05 – S100 – BC – T40B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm
32	32mm

Maximum Stroke

Working Stroke Range	100 - 1050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module
M	Motor Built-In

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

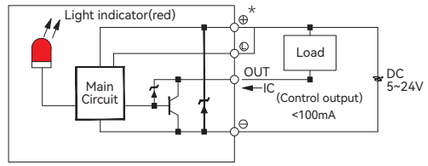
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

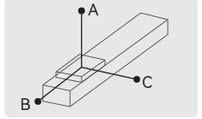
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	110	88	40	30
		Vertical(kg)	33	22	10	8
	Rate Thrust (N)		1564	782	391	244
	Working Stroke Range (mm)		100~1050mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400			
	Ball Screw ø (mm)		C7ø16			
	Linear Guide (mm)		W15×H12.5			
	Couping(mm)		10×14			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



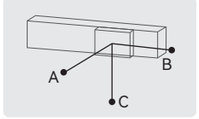
*Please refer to page P050 for standard stroke working speed.
*Acceleration and deacceleration value is set 0.2 second.
*When the srtoke is over 750mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.

Allowable Overhang



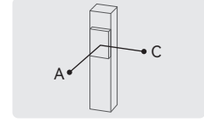
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	60kg	2512	242	232
	80kg	1811	172	164
	110kg	1284	114	108
Lead 10 mm	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122
Lead 20 mm	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233
Lead 32 mm	15kg	1033	545	405
	25kg	604	311	233
	30kg	495	251	188



unit: mm

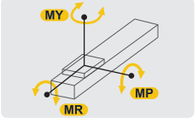
Wall Installation		A	B	C
Lead 5 mm	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
Lead 10 mm	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
Lead 20 mm	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
Lead 32 mm	15kg	405	545	1033
	30kg	188	251	495
	—	—	—	—



unit: mm

Vertical Installation		A	C
Lead 5 mm	15kg	1118	1118
	22kg	770	770
	33kg	513	513
Lead 10 mm	10kg	1500	1500
	14kg	1072	1072
	22kg	682	682
Lead 20 mm	7kg	1700	1700
	10kg	1188	1188
	—	—	—
Lead 32 mm	5kg	1503	1503
	8kg	944	944
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

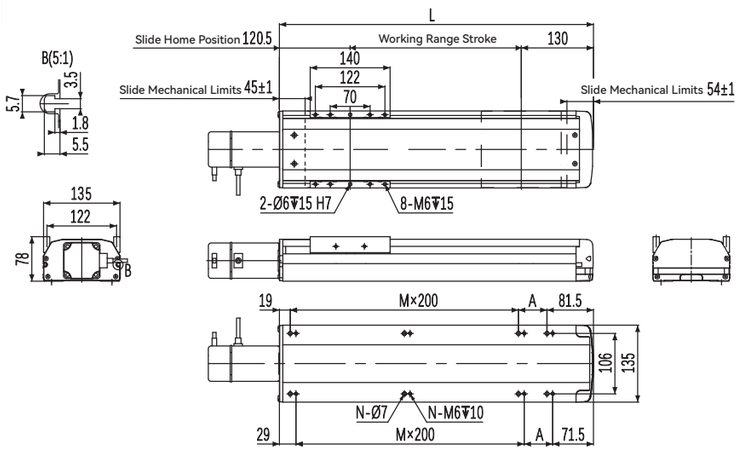
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

BC Motor Direct Connection

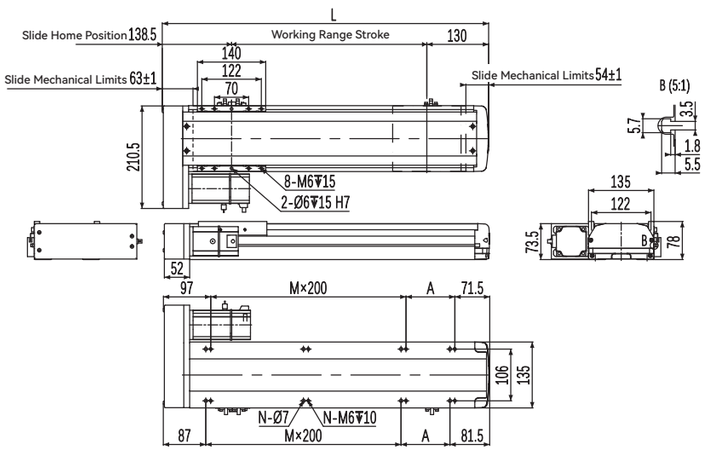
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	9.3	9.85	10.4	10.95	11.5	12.05	12.6	13.15	13.7	14.25	14.8	15.35	15.9	16.45	17	17.55	18.1	18.65	19.2	19.75

BL Left Linear Module

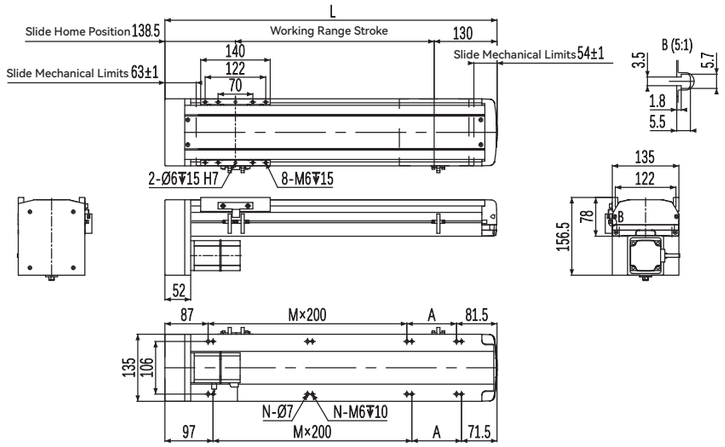
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.2	19.66	20.2

BM Under Linear Module

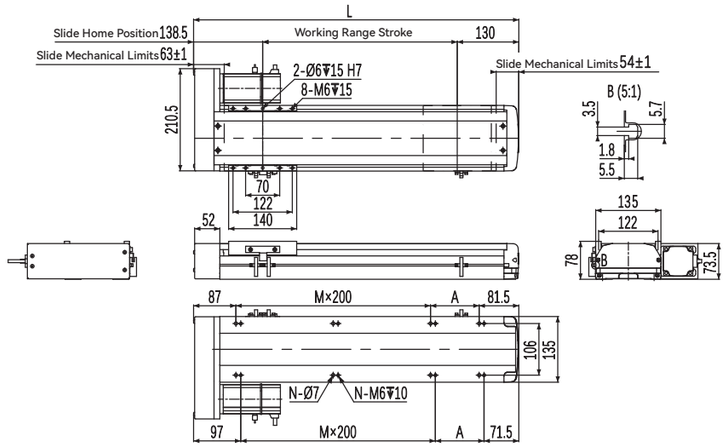
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12	14	14	14	14
KG	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.2	19.66	20.2

BR Right Linear Module

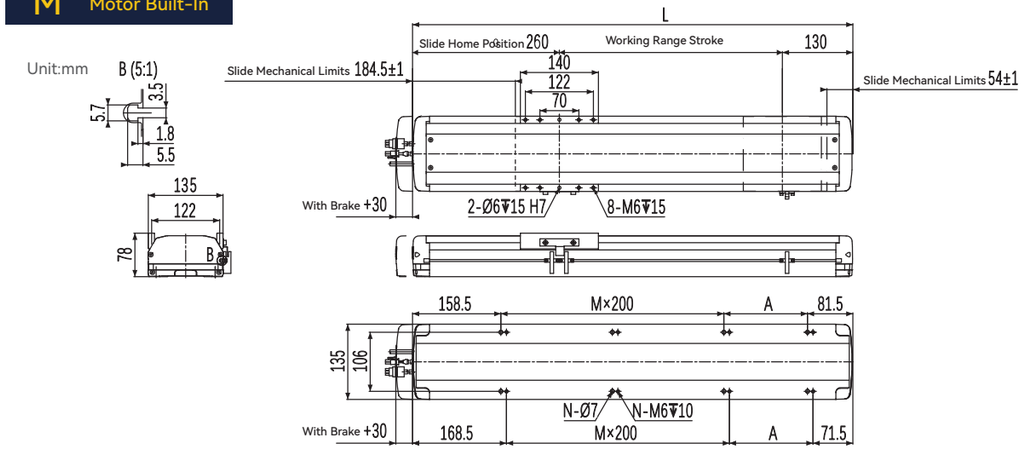
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.2	19.66	20.2

PSS140 1-Axis

M Motor Built-In

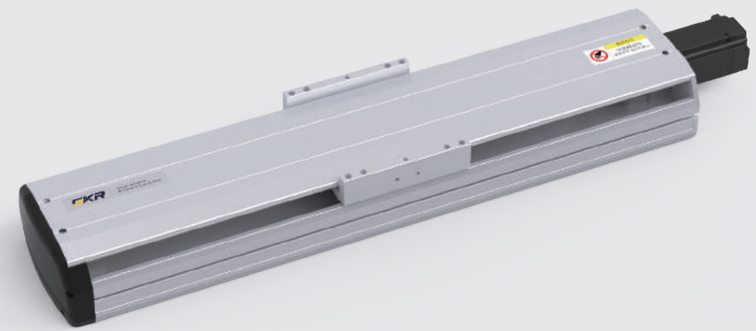


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.06	10.62	11.18	11.74	12.3	12.86	13.42	13.98	14.54	15.1	15.66	16.22	16.78	17.34	17.9	18.46	19.02	19.58	20.14	20.7

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PSS170 1-Axis

Ball Screw Drive



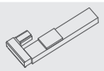
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1250mm
Maximum speed	2000mm/s
Maximux Static Torque	2.39N·m
Ball Screw	ø20mm
Linear Guide	20×15-2pcs

Motor Connection type

BC

BL

 BR

BM

Model Number Representation

PSS170 – L05 – S100 – BC – T75B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm
40	40mm

Maximum Stroke

Working Stroke Range	100 - 1250mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

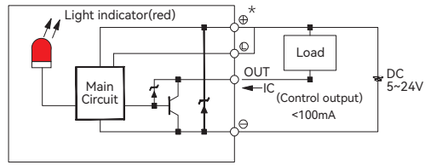
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

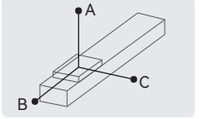
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s)		250	500	1000	2000
	Maximum Payload	Horizontal(kg)	120	120	83	43
		Vertical(kg)	50	40	25	12
	Rate Thrust (N)		2943	1471	735	367
	Working Stroke Range (mm)		100~1250mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750			
	Ball Screw ø (mm)		C7ø20			
	Linear Guide (mm)		W20×H15			
	Couping(mm)		12×19			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



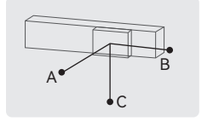
*Please refer to page P050 for standard stroke working speed.
*Acceleration and deacceleration value is set 0.2 second.
*When the srtoke is over 850mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.

Allowable Overhang



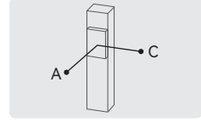
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	70kg	3235	349	408
	90kg	2482	263	306
	120kg	1861	187	218
Lead 10 mm	65kg	1911	338	373
	85kg	1445	248	276
	120kg	1000	164	182
Lead 20 mm	35kg	1666	547	538
	55kg	1030	331	328
	83kg	654	206	204
Lead 40 mm	15kg	1126	740	577
	22kg	755	491	384
	43kg	366	231	183



unit: mm

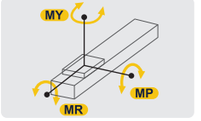
Wall Installation		A	B	C
Lead 5 mm	75kg	377	322	2988
	95kg	288	246	2333
	120kg	218	187	1850
Lead 10 mm	60kg	408	368	2092
	80kg	296	266	1554
	120kg	182	164	1002
Lead 20 mm	30kg	633	644	1961
	50kg	365	369	1143
	83kg	204	206	656
Lead 40 mm	12kg	729	936	1417
	22kg	384	491	755
	43kg	183	231	366



unit: mm

Vertical Installation		A	C
Lead 5 mm	20kg	1368	1368
	30kg	911	911
	50kg	546	546
Lead 10 mm	15kg	1618	1618
	25kg	970	970
	40kg	607	607
Lead 20 mm	10kg	1922	1922
	14kg	1377	1377
	25kg	769	769
Lead 40 mm	7kg	1356	1356
	12kg	790	790
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

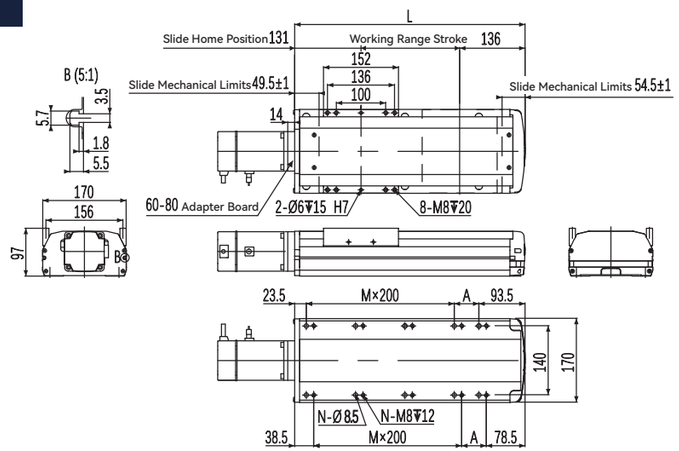
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

PSS170 1-Axis

BC Motor Direct Connection

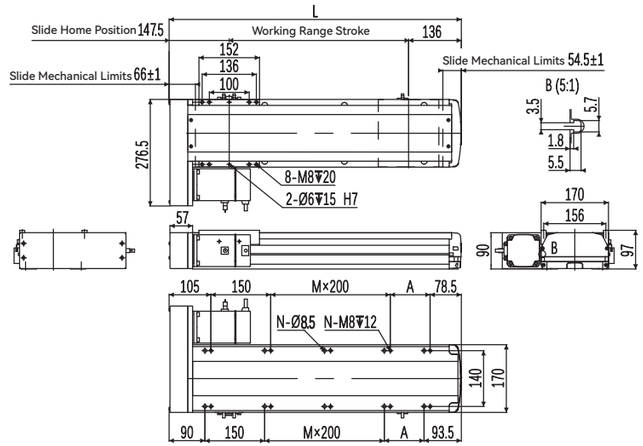
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	10.02	10.79	11.57	12.34	13.11	13.88	14.65	15.42	16.19	16.96	17.73	18.5	19.28	20.05	20.82	21.59	22.36	23.13	23.9	24.67	25.44	26.21	26.98	27.75

BL Left Linear Module

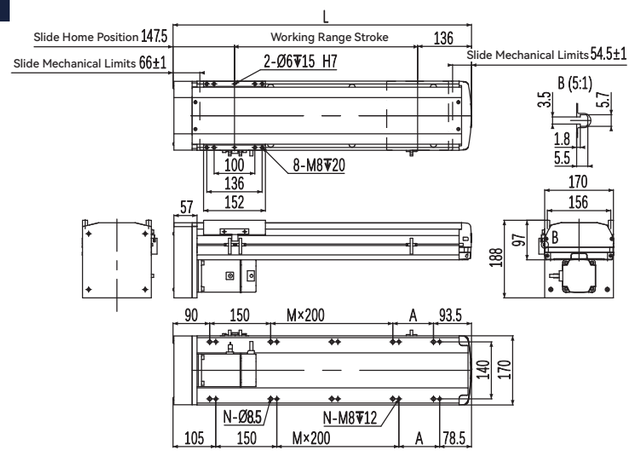
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03

BM Under Linear Module

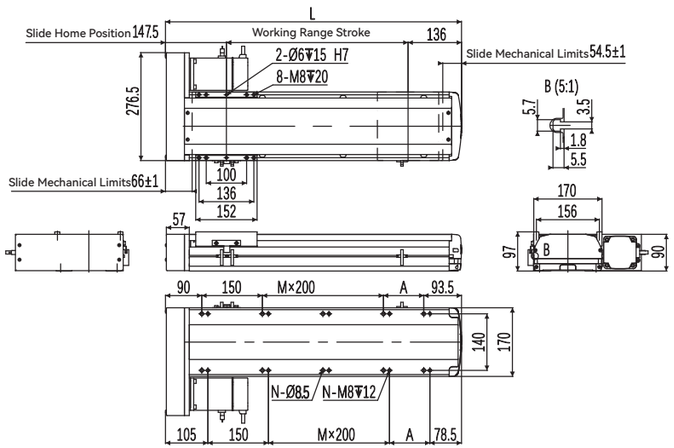
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03

BR Right Linear Module

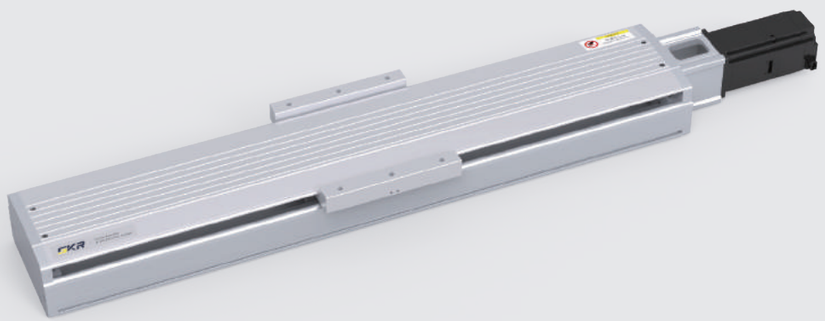
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03

PSS200 1-Axis

Ball Screw Drive



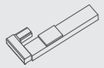
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1500mm	Maximum speed	1250mm/s	Maximux Static Torque	2.39N·m	Ball Screw	ø25mm	Linear Guide	20×15-2pcs

Motor Connection type

BC

BL



BR

BM

Model Number Representation

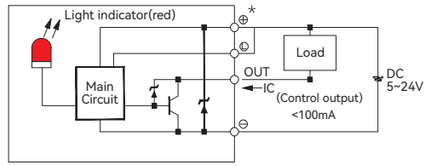
PSS200 – L05 – S100 – BC – T75B – C 1 – N

- PSS200 – Model Number
- L05 – Ball Screw Lead: 05 5mm; 10 10mm; 25 25mm
- S100 – Maximum Stroke: Working Stroke Range 100 – 1500mm; Interval within the Effective Stroke Range 50mm stroke
- BC – Motor Position: BC Motor Direct Connection; BM Under Linear Module; BL Left Linear Module; BR Right Linear Module
- T75B – Motor Brand 、 Power Output: T Delta(standard); P Panasonic(standard); Y Yaskawa(standard); C Customer-provided; 10 100w; 20 200w; 40 400w; 75 750w; B With Brake *
  Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.
- C 1 – Origin Sensor / Endpoint Limit Sensor Configuration
  - Out Side: C Moter side; D Opposite Motor Side
  - No Sensor: E No Sensor
  - 1 1 pcs; 2 2 pcs; 3 3 pcs
  - No Sensor: 0 No Sensor
- N – Non-Standard Model

Specification

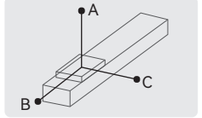
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	25	
	Maximum Speed (mm/s)		250	500	1250	
	Maximum Payload	Horizontal(kg)	140	140	95	
		Vertical(kg)	50	40	18	
	Rate Thrust (N)		2943	1471	588	
	Working Stroke Range (mm)		100~1500mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750			
	Ball Screw ø (mm)		C7ø25			
	Linear Guide (mm)		W20×H15			
	Couping(mm)		17×19			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



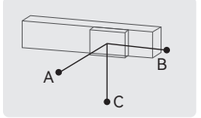
*Please refer to page P050 for standard stroke working speed.
*Acceleration and deacceleration value is set 0.2 second.
*When the srtoke is over 900mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.

Allowable Overhang



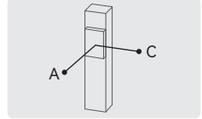
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	100kg	4800	433	357
	120kg	3680	291	231
	140kg	3157	196	147
Lead 10 mm	100kg	3020	363	274
	120kg	2354	234	167
	140kg	1913	149	95
Lead 25 mm	65kg	1322	414	258
	75kg	936	251	136
	95kg	693	150	62



unit: mm

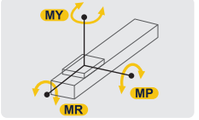
Wall Installation		A	B	C
Lead 5 mm	100kg	300	369	4300
	120kg	212	269	3511
	140kg	147	196	3157
Lead 10 mm	100kg	227	303	2700
	120kg	151	214	2244
	140kg	95	149	1913
Lead 25 mm	70kg	220	364	1204
	80kg	115	220	866
	95kg	62	150	693



unit: mm

Vertical Installation		A	C
Lead 5 mm	30kg	2155	2155
	40kg	1568	1568
	50kg	1088	1088
Lead 10 mm	25kg	2305	2305
	35kg	1595	1595
	40kg	1196	1196
Lead 25 mm	15kg	2511	2511
	18kg	1833	1833
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

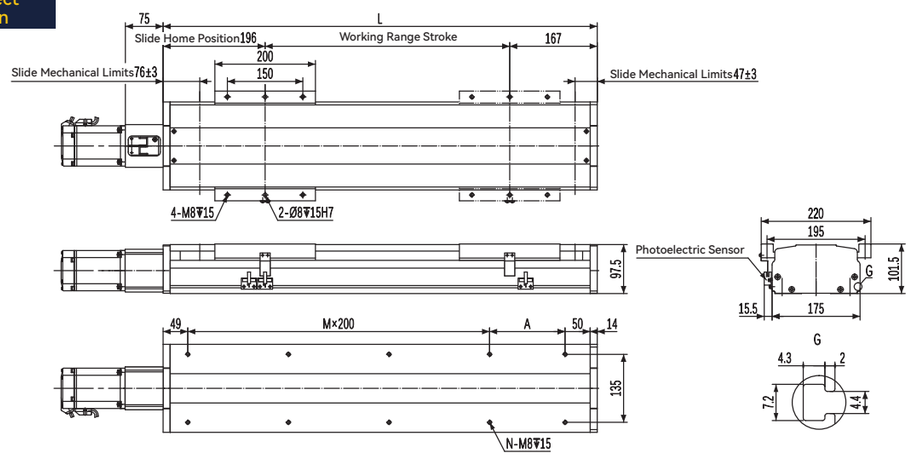
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

BC Motor Direct Connection

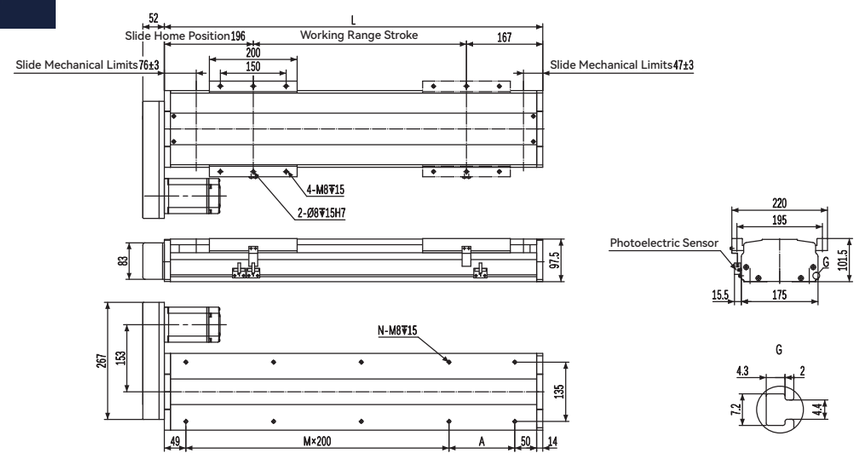
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	463	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5

BL Left Linear Module

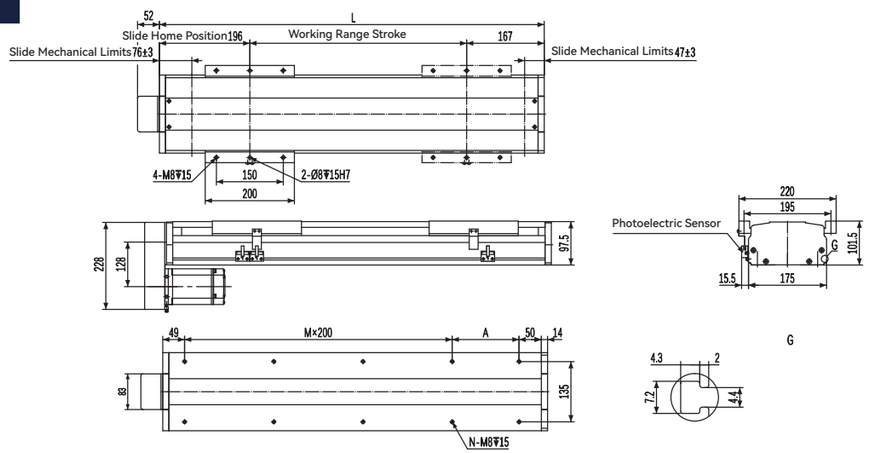
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	463	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5

BM Under Linear Module

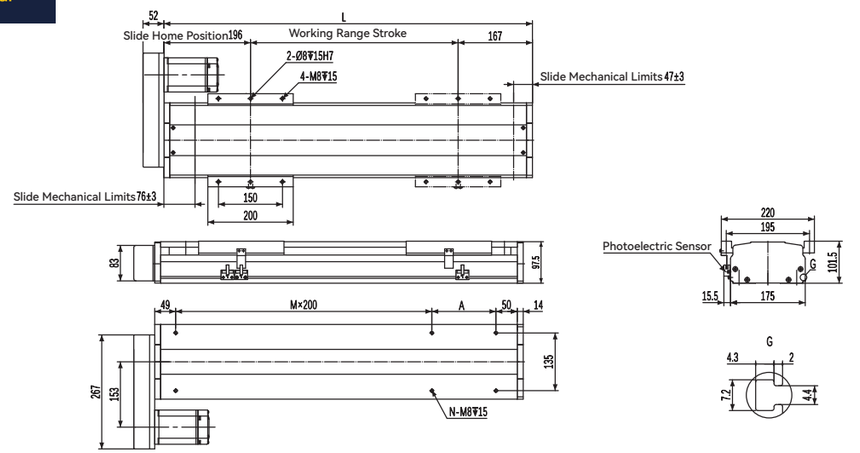
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	463	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5

BR Right Linear Module

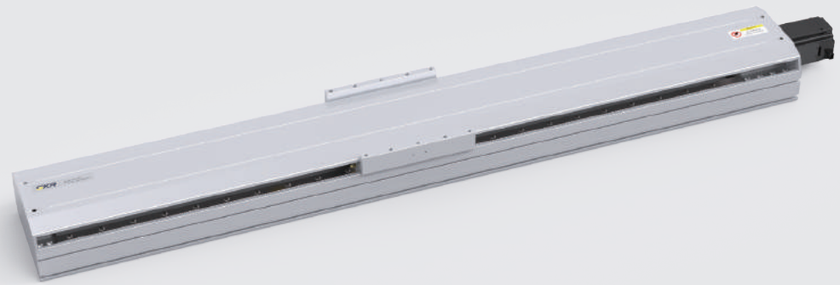
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	463	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5

PSS220 1-Axis

Ball Screw Drive



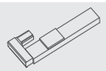
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1500mm	Maximum speed	1250mm/s	Maximux Static Torque	2.39N·m	Ball Screw	ø25mm	Linear Guide	23×18-2pcs

Motor Connection type

BC

BL

 BR

BM

M

Model Number Representation

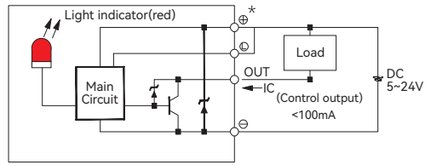
PSS220 – L05 – S100 – BC – T75B – C 1 – N

- PSS220 – Model Number
- L05 – Ball Screw Lead: 05 5mm; 10 10mm; 25 25mm
- S100 – Maximum Stroke: Working Stroke Range 100 - 1500mm; Interval within the Effective Stroke Range 50mm stroke
- BC – Motor Position: BC Motor Direct Connection; BM Under Linear Module; BL Left Linear Module; BR Right Linear Module; M Motor Built-In
- T75B – Motor Brand 、 Power Output: T Delta(standard); P Panasonic(standard); Y Yaskawa(standard); C Customer-provided; 10 100w; 20 200w; 40 400w; 75 750w; B With Brake*
  Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.
- C 1 – Origin Sensor: Out Side — C Moter side; D Opposite Motor Side; No Sensor — E No Sensor
  Endpoint Limit Sensor Configuration: 1 1 pcs; 2 2 pcs; 3 3 pcs; No Sensor — 0 No Sensor
- N – Non-Standard Model

Specification

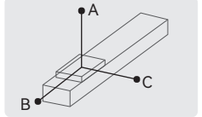
CAPABILITY	Repeatability (mm)		±0.01		
	Ball Screw Lead (mm)		5	10	25
	Maximum Speed (mm/s)		250	500	1250
	Maximum Payload	Horizontal(kg)	150	150	105
		Vertical(kg)	55	45	20
	Rate Thrust (N)		2943	1471	588
	Working Stroke Range (mm)		100~1500mm / 50mm stroke		
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750		
	Ball Screw ø (mm)		C7ø25		
	Linear Guide (mm)		W23×H18		
	Couping(mm)		17×19		
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)		

Inductor Wiring Diagram (Origin and Endpoints)



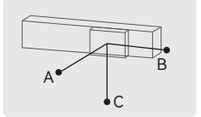
*Please refer to page P050 for standard stroke working speed.
*Acceleration and deacceleration value is set 0.2 second.
*When the srtoke is over 900mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.

Allowable Overhang



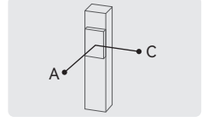
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	100kg	5000	633	557
	125kg	3880	491	431
	150kg	3357	396	347
Lead 10 mm	100kg	3220	563	474
	125kg	2554	434	367
	150kg	2113	349	295
Lead 25 mm	65kg	1522	614	458
	85kg	1136	451	336
	105kg	893	350	262



unit: mm

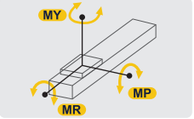
Wall Installation		A	B	C
Lead 5 mm	110kg	500	569	4500
	130kg	412	469	3711
	150kg	347	396	3357
Lead 10 mm	110kg	427	503	2900
	130kg	351	414	2444
	150kg	295	349	2113
Lead 25 mm	70kg	420	564	1404
	90kg	315	420	1066
	105kg	262	350	893



unit: mm

Vertical Installation		A	C
Lead 5 mm	30kg	2355	2355
	40kg	1768	1768
	55kg	1288	1288
Lead 10 mm	25kg	2505	2505
	35kg	1795	1795
	45kg	1396	1396
Lead 25 mm	15kg	2711	2711
	20kg	2033	2033
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	2052
MP	2052
MR	1810

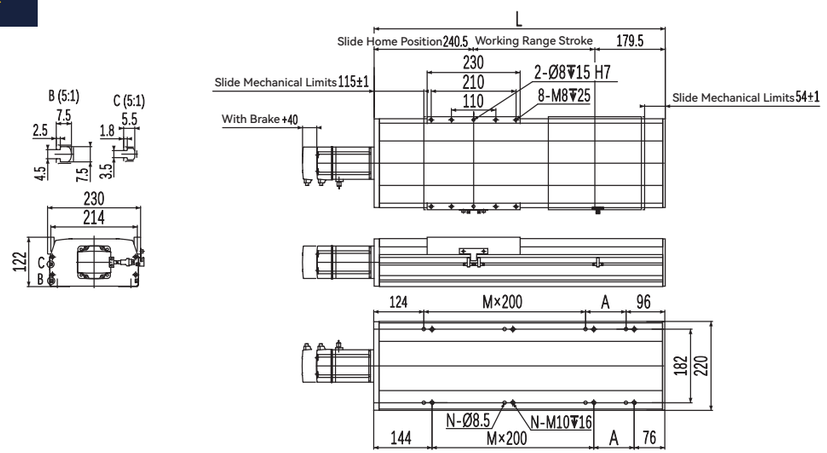
*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

BC Motor Direct Connection

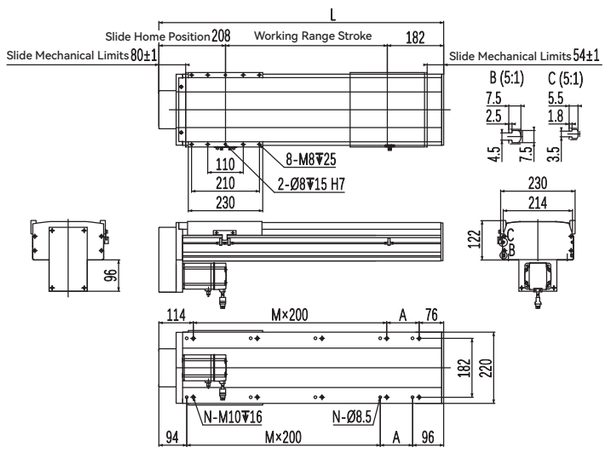
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	26.86	28.32	29.78	31.24	32.7	34.16	35.62	37.08	38.54	40	41.46	42.92	44.38	45.84	47.3	48.76	50.22	51.68	53.14	54.6	56.06	57.52	58.98	60.44	61.9	63.36	64.82	66.28	67.74

BM Under Linear Module

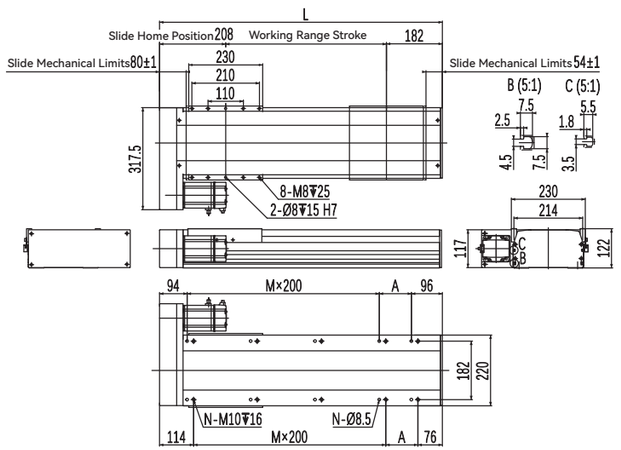
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94	53.4	54.86	56.32	57.78	59.24	60.7	62.16	63.62	65.08	66.54

BL Left Linear Module

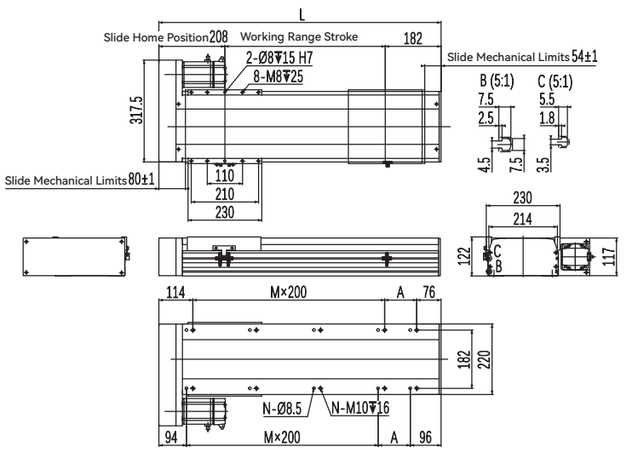
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94	53.4	54.86	56.32	57.78	59.24	60.7	62.16	63.62	65.08	66.54

BR Right Linear Module

Unit:mm

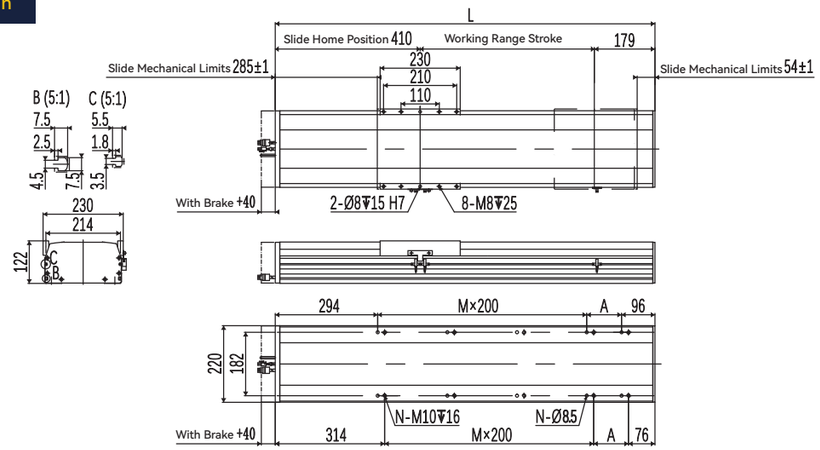


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94	53.4	54.86	56.32	57.78	59.24	60.7	62.16	63.62	65.08	66.54

PSS220 1-Axis

M Motor Built-In

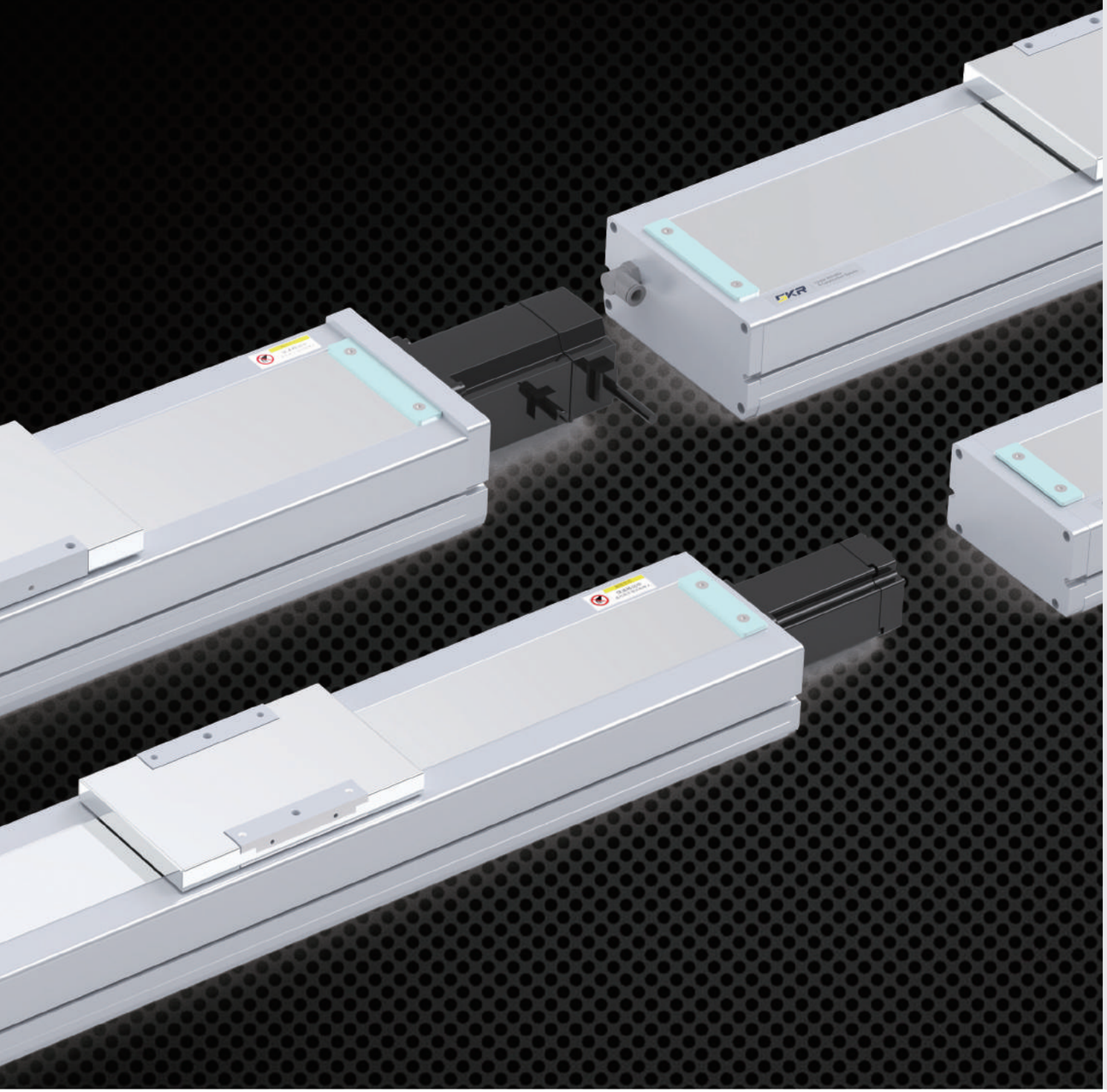
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	29.32	30.79	32.26	33.73	35.2	36.67	38.14	39.61	41.08	42.55	44.02	45.49	46.96	48.43	49.9	51.37	52.84	54.31	55.78	57.25	58.72	60.19	61.66	63.13	64.6	66.07	67.54	69.01	70.48

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PSC Series
Linear Module Series
PRECISION TYPE/BAII SCREW DRIVE
FULLY-ENCLOSED



Product Catalog

CONTENTS

PSC140

Maximum stroke 1050mm
Maximum load 110KG
Body height 91mm
Body width 135mm

····· 085

PSC170

Maximum stroke 1250mm
Maximum load 120KG
Body height 107mm
Body width 170mm

····· 089

Product Index

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Ball Screw Spec (C7 grade)		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Diameter (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment, clean environment	Ball Screw	PSC140	400	135	±0.01	16	5	110	33	250
							10	88	22	500
							20	40	8	1000
		PSC170	750	170	±0.01	20	5	120	50	250
							10	120	40	500
							20	83	25	1000
							40	50	10	2000

Standard stroke and maximum operating speed"3
Stroke (mm) & Maximum Speed (mm/s)

Represents working speed
speed

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	Page
250															225	200	175	150	125	100										085
500															450	400	350	300	250	200										
1000															900	800	700	600	500	400										
250																	225		200		175		150							089
500																	450		400		350		300							
1000																	900		800		700		600							
2000																	1800		1600		1400		1200							

*Notes:

1. The rated speed is the speed at the motor's rated rotation (3000 r/min), or the speed limited by the ball screw's permissible rotation.

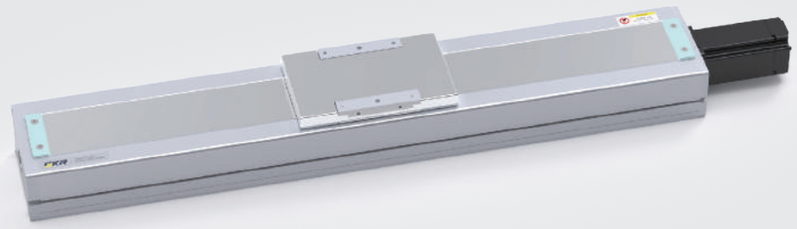
2. The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

3.The maximum speed for each stroke is the speed when the motor rotation is 3000 r/min. For longer strokes of ball screw driven models, abnormal noise and vibration may occur due to resonance when operating at maximum speed; the movement speed should be appropriately reduced.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PSC140 1-Axis

Ball Screw Drive



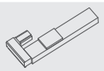
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1050mm
Maximum speed	1000mm/s
Maximux Static Torque	1.27N·m
Ball Screw	ø16mm
Linear Guide	15×12.5-2pcs

Motor Connection type

BC

BL

 BR

BM

Model Number Representation

PSC140 – L05 – S100 – BC – T40B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm

Maximum Stroke

Working Stroke Range	100 - 1050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

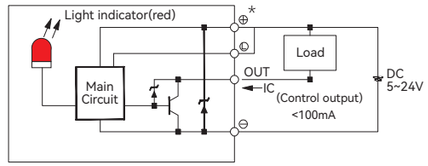
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

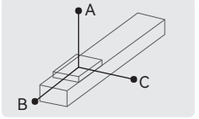
CAPABILITY	Repeatability (mm)		±0.01		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		250	500	1000
	Maximum Payload	Horizontal(kg)	110	88	40
		Vertical(kg)	33	22	8
	Rate Thrust (N)		1564	782	391
	Working Stroke Range (mm)		100~1050mm / 50mm stroke		
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400		
	Ball Screw ø (mm)		C7ø16		
	Linear Guide (mm)		W15×H12.5		
	Couping(mm)		10×14		
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)		
		Inside	EE-SX674(NPN) EE-SX674P(PNP)		

Inductor Wiring Diagram (Origin and Endpoints)



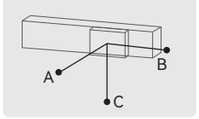
*Please refer to page P084 for standard stroke working speed.
*Acceleration and deacceleration value is set 0.2 second.
*When the srtoke is over 750mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.

Allowable Overhang



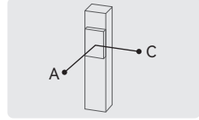
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	60kg	2448	316	322
	80kg	2197	247	257
	110kg	2005	207	219
Lead 10 mm	30kg	1958	370	490
	50kg	1660	370	333
	88kg	1725	247	243
Lead 20 mm	10kg	2263	1672	958
	20kg	1400	852	535
	40kg	1052	448	328



unit: mm

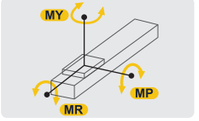
Wall Installation		A	B	C
Lead 5 mm	60kg	204	112	1394
	80kg	130	57	1115
	110kg	85	24	895
Lead 10 mm	30kg	414	333	1277
	50kg	235	157	929
	88kg	129	57	751
Lead 20 mm	10kg	997	1217	1709
	20kg	513	555	985
	40kg	268	231	640



unit: mm

Vertical Installation		A	C
Lead 5 mm	20kg	762	614
	25kg	607	489
	33kg	498	483
Lead 10 mm	10kg	1365	1101
	15kg	901	727
	22kg	674	543
Lead 20 mm	4kg	2402	2018
	6kg	1701	1366
	8kg	1305	1055

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

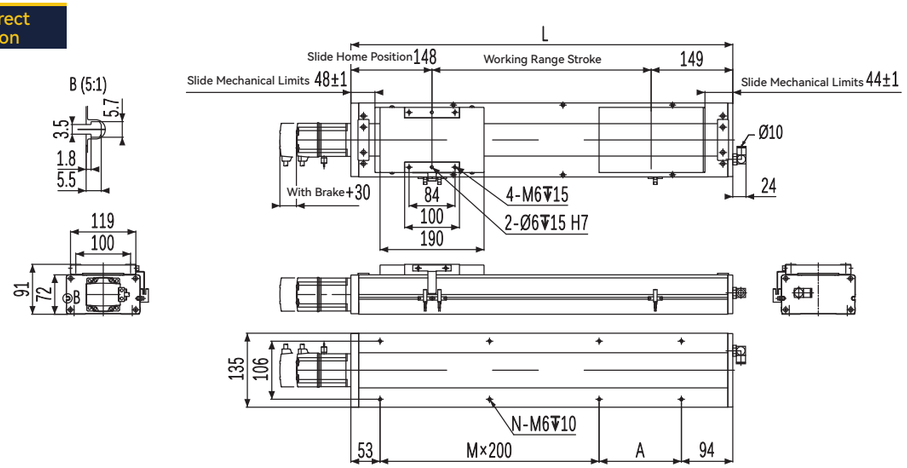
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

PSC140 1-Axis

BC Motor Direct Connection

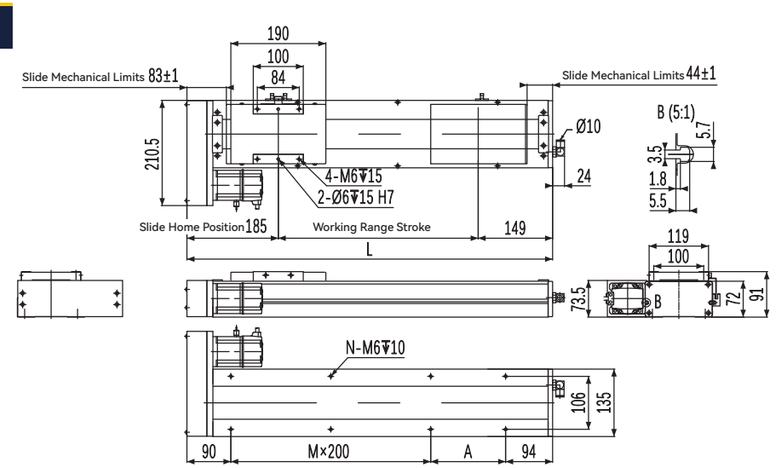
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	397	447	497	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.6	11	11.5	12	12.5	13	13.4	14	14.4	15	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.3	19.9

BL Left Linear Module

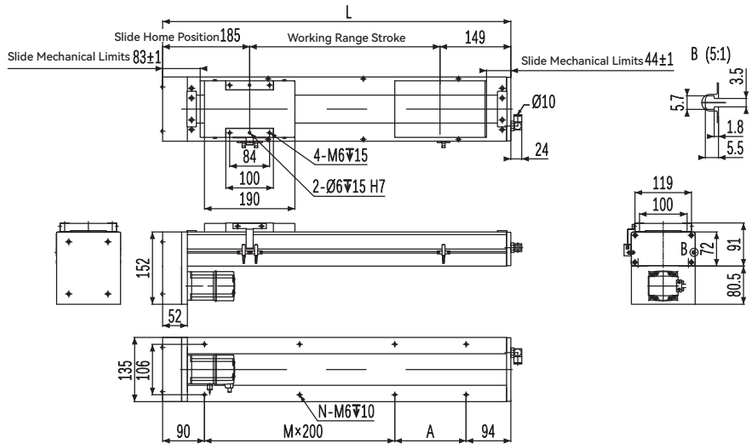
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.6	11	11.5	12	12.5	13	13.4	14	14.4	15	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.3	19.9

BM Under Linear Module

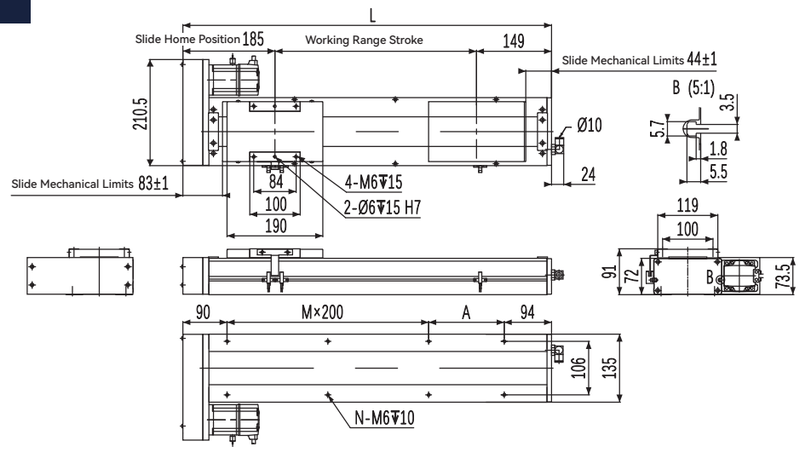
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.6	11	11.5	12	12.5	13	13.4	14	14.4	15	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.3	19.9

BR Right Linear Module

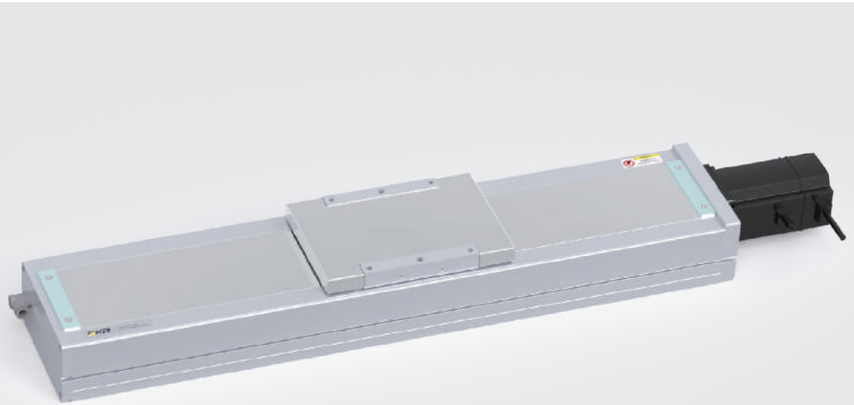
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.6	11	11.5	12	12.5	13	13.4	14	14.4	15	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.3	19.9

PSC170 1-Axis

Ball Screw Drive



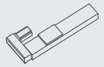
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1250mm	Maximum speed	2000mm/s	Maximux Static Torque	2.39N·m
Ball Screw	ø20mm	Linear Guide	20×15-2pcs		

Motor Connection type

BC

BL

 BR

BM

Model Number Representation

PSC170 – L05 – S100 – BC – T75B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm
40	40mm

Maximum Stroke

Working Stroke Range	100 – 1250mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection
BM	Under Linear Module
BL	Left Linear Module
BR	Right Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

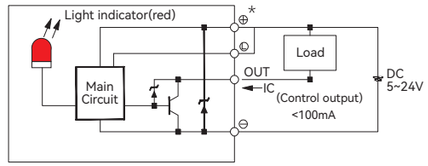
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

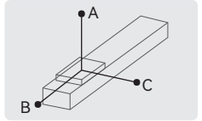
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s)		250	500	1000	2000
	Maximum Payload	Horizontal(kg)	120	120	83	50
		Vertical(kg)	50	40	25	10
	Rate Thrust (N)		2943	1471	735	367
	Working Stroke Range (mm)		100~1250mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750			
	Ball Screw ø (mm)		C7ø20			
	Linear Guide (mm)		W20×H15			
	Couping(mm)		12×19			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			
		Inside	EE-SX674(NPN) EE-SX674P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



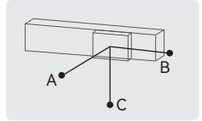
*Please refer to page P084 for standard stroke working speed.
*Acceleration and deacceleration value is set 0.2 second.
*When the srtoke is over 850mm,the run-out of the ball screw will occur.We recommend to low down the working speed under this cicumstances.

Allowable Overhang



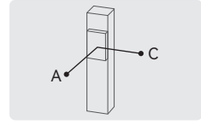
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	60kg	2980	435	577
	100kg	2000	207	331
	110kg	1846	202	269
Lead 10 mm	60kg	2440	428	570
	75kg	2010	253	336
	90kg	1851	207	274
Lead 20 mm	30kg	2652	899	994
	50kg	1775	526	593
	75kg	1396	317	267
Lead 40 mm	10kg	3545	2738	2003
	20kg	2545	1360	1185
	35kg	2640	664	739



unit: mm

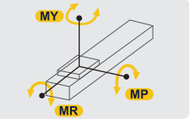
Wall Installation		A	B	C
Lead 5 mm	60kg	530	350	2438
	100kg	277	165	1995
	110kg	215	118	1836
Lead 10 mm	60kg	533	353	2441
	75kg	293	179	2010
	90kg	230	133	1851
Lead 20 mm	30kg	982	815	2573
	50kg	569	442	1680
	75kg	337	232	1258
Lead 40 mm	10kg	2020	2671	3500
	20kg	1200	1281	2480
	35kg	755	591	2518



unit: mm

Vertical Installation		A	C
Lead 5 mm	20kg	1510	1220
	30kg	1210	990
	40kg	992	962
Lead 10 mm	15kg	1778	1778
	25kg	1050	1050
	30kg	750	750
Lead 20 mm	5kg	1700	1700
	10kg	2202	2202
	14kg	1485	1485
Lead 40 mm	7kg	650	650
	—	—	—
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

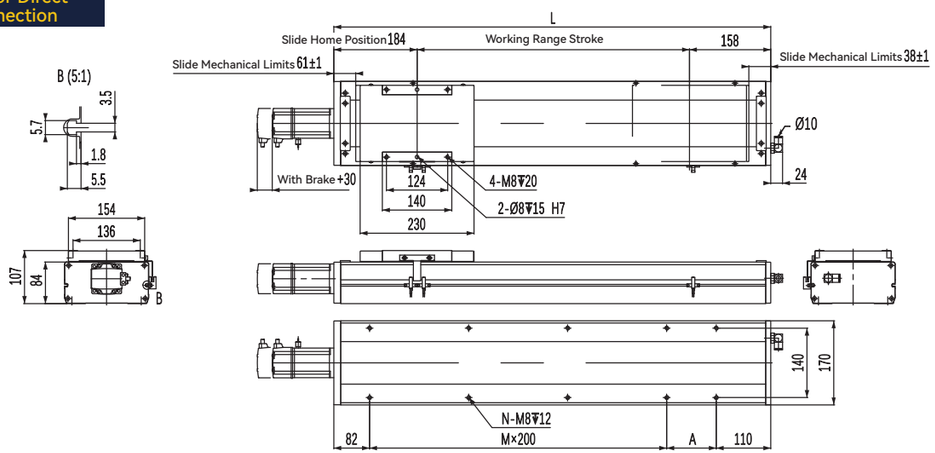
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

BC Motor Direct Connection

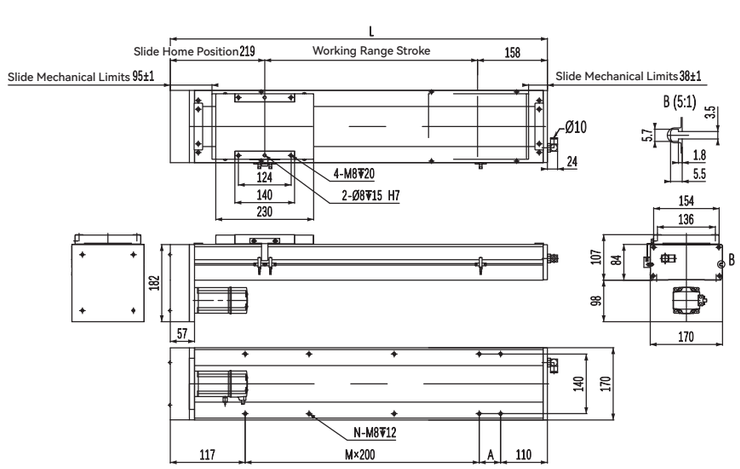
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

BM Under Linear Module

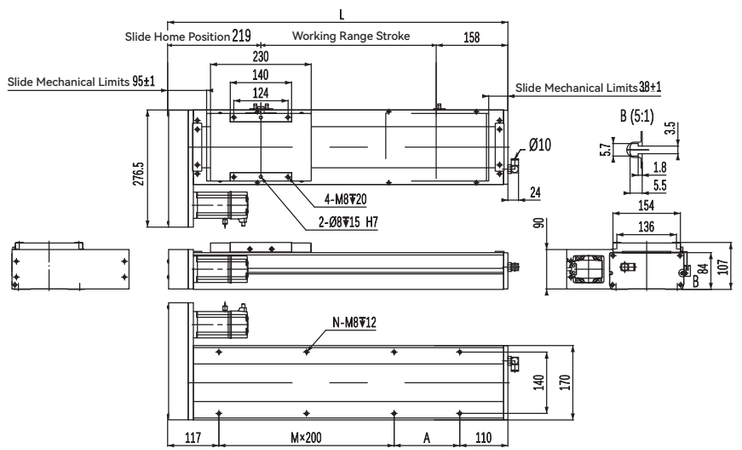
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

BL Left Linear Module

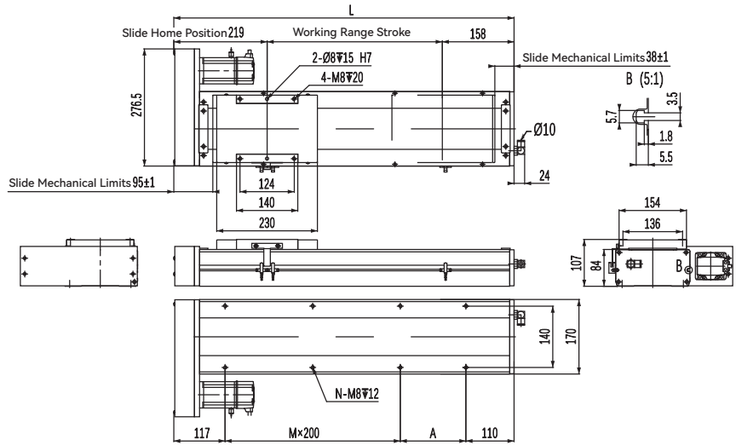
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

BR Right Linear Module

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

PSM Series
Linear Module Series
PRECISION TYPE/BALL SCREW DRIVE
SEMI-ENCLOSED

Product Catalog
CONTENTS

PSM100

Maximum stroke 1050mm
Maximum load 50KG
Body height 65mm
Body width 102mm

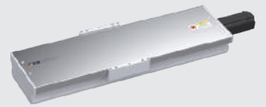
····· 097

PSM140

Maximum stroke 1050mm
Maximum load 110KG
Body height 74mm
Body width 135mm

····· 101

PSM170



Maximum stroke 1250mm
Maximum load 120KG
Body height 92mm
Body width 170mm

····· 105

Product Index

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Ball Screw Spec (C7 grade)		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Diameter (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
Semi-enclosed	Ball Screw	PSM100	200	102	±0.01	16	5	50	12	250
							10	30	8	500
							20	18	3	1000
							32	5	—	1600
		PSM140	400	135	±0.01	16	5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600
		PSM170	750	170	±0.01	20	5	120	50	250
							10	120	40	500
							20	83	25	1000
							40	43	12	2000

Standard stroke and maximum operating speed"3
Stroke (mm) & Maximum Speed (mm/s)

Represents working speed
speed

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	Page
250															225	200	175	150	125	100										097
500															450	400	350	300	250	200										
1000															900	800	700	600	500	400										
1600															1440	1280	1120	960	800	640										
250															225	200	175	150	125	100										101
500															450	400	350	300	250	200										
1000															900	800	700	600	500	400										
1600															1440	1280	1120	960	800	640										
250																	225		200		175		150							105
500																	450		400		350		300							
1000																	900		800		700		600							
2000																	1800		1600		1400		1200							

*Notes:

1. The rated speed is the speed at the motor's rated rotation (3000 r/min), or the speed limited by the ball screw's permissible rotation.

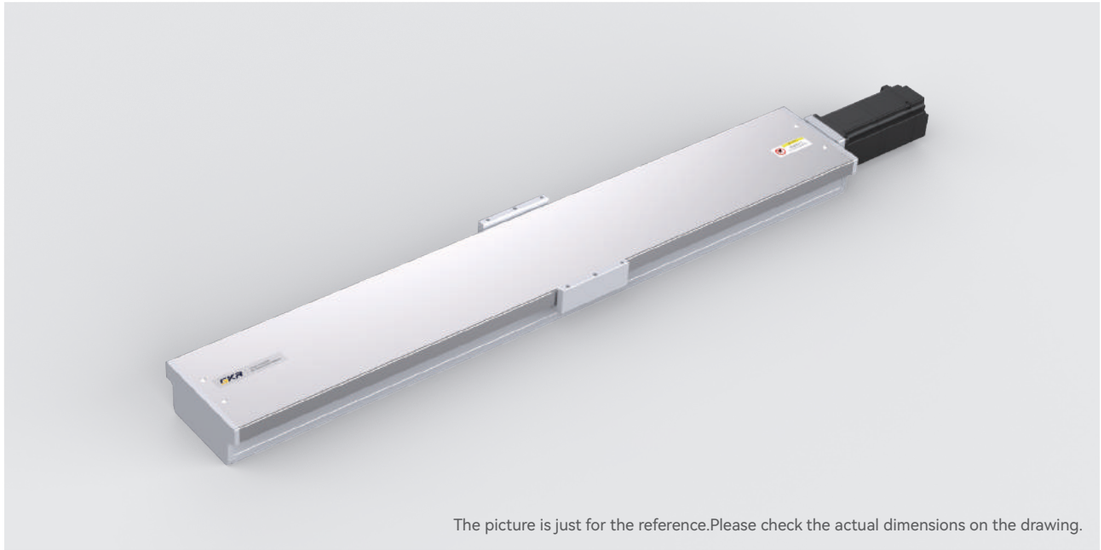
2.The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

3. The maximum speed for each stroke is the speed when the motor rotation is 3000 r/min. For longer strokes of ball screw driven models, abnormal noise and vibration may occur due to resonance when operating at maximum speed; the movement speed should be appropriately reduced.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PSM100 1-Axis

Ball Screw Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1050mm	Maximum speed	1600mm/s	Maximux Static Torque	0.64N·m	Ball Screw	ø16mm	Linear Guide	12×7.5-2pcs
Motor Connection type	BC						

Model Number Representation

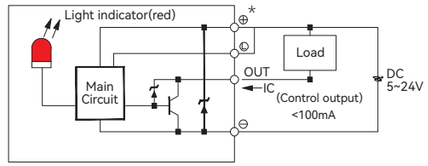
PSM100 – L05 – S100 – BC – T20B – C 1 – N

- PSM100 – Model Number
- L05 – Ball Screw Lead: 05 5mm; 10 10mm; 20 20mm; 32 32mm
- S100 – Maximum Stroke: Working Stroke Range 100 – 1050mm; Interval within the Effective Stroke Range 50mm stroke
- BC – Motor Position: BC Motor Direct Connection
- T20B – Motor Brand 、 Power Output: T Delta(standard); P Panasonic(standard); Y Yaskawa(standard); C Customer-provided; 10 100w; 20 200w; 40 400w; 75 750w; B With Brake *
  Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.
- C 1 – Origin Sensor: Out Side — C Moter side; D Opposite Motor Side; No Sensor — E No Sensor
- C 1 – Endpoint Limit Sensor Configuration: 1 1 pcs; 2 2 pcs; 3 3 pcs; No Sensor — 0 No Sensor
- N – Non-Standard Model

Specification

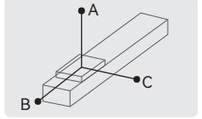
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	50	30	18	5
		Vertical(kg)	12	8	3	—
	Rate Thrust (N)		788	394	197	123
	Working Stroke Range (mm)		100~1050mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		200			
	Ball Screw ø (mm)		C7ø16			
	Linear Guide (mm)		W12×H7.5			
	Couping(mm)		10×14			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



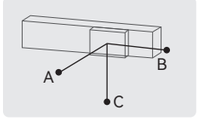
*When the srtoke is over 750mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P096 for standard stroke working speed.

Allowable Overhang



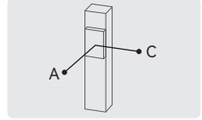
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	30kg	882	65	78
	40kg	606	43	51
	50kg	437	29	35
Lead 10 mm	15kg	875	138	157
	25kg	485	73	83
	30kg	386	56	64
Lead 20 mm	5kg	1160	384	386
	10kg	561	180	181
	18kg	288	88	89
Lead 32 mm	3kg	822	444	385
	5kg	492	255	224
	—	—	—	—



unit: mm

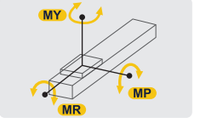
Wall Installation		A	B	C
Lead 5 mm	25kg	100	84	1102
	35kg	63	52	725
	50kg	35	29	433
Lead 10 mm	10kg	250	221	1311
	20kg	110	97	633
	30kg	64	56	385
Lead 20 mm	6kg	317	316	955
	12kg	147	144	455
	18kg	89	88	288
Lead 32 mm	2kg	591	682	1256
	5kg	224	255	488
	—	—	—	—



unit: mm

Vertical Installation		A	C
Lead 5 mm	5kg	544	544
	8kg	341	341
	12kg	227	227
Lead 10 mm	4kg	606	606
	8kg	303	303
	—	—	—
Lead 20 mm	2kg	961	961
	3kg	639	639
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	150
MP	130
MR	130

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

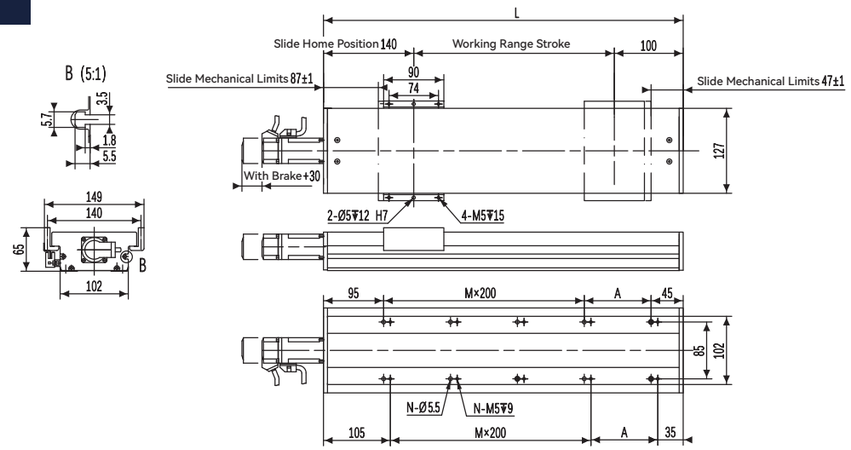
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	200W	220V	ECMA-C20602RS	ASD-B2-0221-B
		With Brake (Vertical Type)	200W	220V	ECMA-C20602SS	ASD-B2-0221-B
Panasonic	P	Without Brake (Horizontal Type)	200W	220V	MHMF022L1U2M	MADLN15SG
		With Brake (Vertical Type)	200W	220V	MHMF022L1V2M	MADLN15SG
Yaskawa	Y	Without Brake (Horizontal Type)	200W	220V	SGM7J02AFC6S	SGD7S1R6A00A002
		With Brake (Vertical Type)	200W	220V	SGM7J02AFC6E	SGD7S1R6A00A002

PSM100 1-Axis

BC Motor Direct Connection

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.67	6.06	6.45	6.84	7.23	7.63	8.01	8.4	8.79	9.18	9.57	9.96	10.35	10.74	11.13	11.52	11.91	12.3	12.69	13.08

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Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PSM140 1-Axis

Ball Screw Drive

The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1050mm	Maximum speed	1600mm/s
Maximux Static Torque	1.27N·m	Ball Screw	ø16mm
Linear Guide	15×12.5-2pcs	Motor Connection type	BC

Model Number Representation

PSM140 – L05 – S100 – BC – T40B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm
32	32mm

Maximum Stroke

Working Stroke Range	100 - 1050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BC	Motor Direct Connection

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

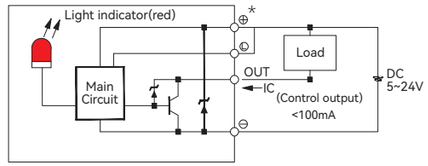
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

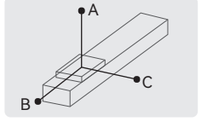
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	110	80	40	30
		Vertical(kg)	33	22	10	8
	Rate Thrust (N)		1564	782	391	244
	Working Stroke Range (mm)		100~1050mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400			
	Ball Screw ø (mm)		C7ø16			
	Linear Guide (mm)		W15×H12.5			
	Couping(mm)		10×14			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



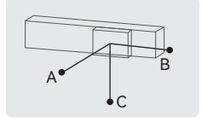
*When the srtoke is over 750mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P096 for standard stroke working speed.

Allowable Overhang



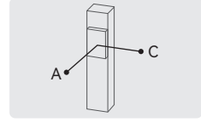
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	60kg	2512	242	232
	80kg	1811	172	164
	110kg	1284	114	108
Lead 10 mm	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122
Lead 20 mm	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233
Lead 32 mm	15kg	1033	545	405
	25kg	604	311	233
	30kg	495	251	188



unit: mm

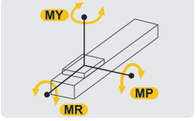
Wall Installation		A	B	C
Lead 5 mm	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
Lead 10 mm	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
Lead 20 mm	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
Lead 32 mm	15kg	405	545	1033
	30kg	188	251	495
	—	—	—	—



unit: mm

Vertical Installation		A	C
Lead 5 mm	15kg	1118	1118
	22kg	770	770
	33kg	513	513
Lead 10 mm	10kg	1500	1500
	14kg	1072	1072
	22kg	682	682
Lead 20 mm	7kg	1700	1700
	10kg	1188	1188
	—	—	—
Lead 32 mm	5kg	1503	1503
	8kg	944	944
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

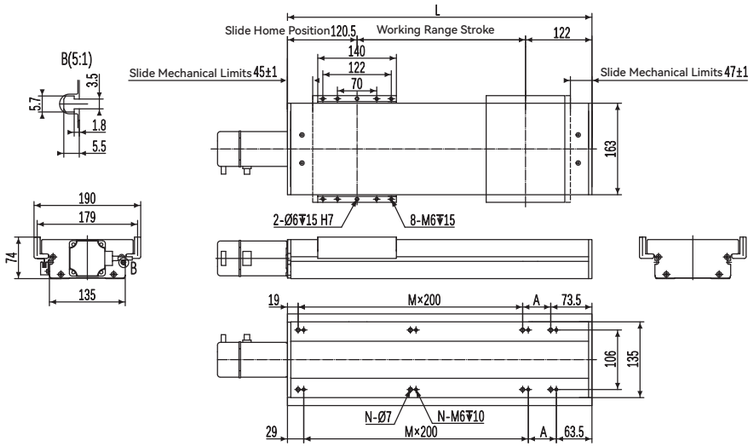
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

PSM140 1-Axis

BC Motor Direct Connection

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	342.5	392.5	442.5	492.5	542.5	592.5	642.5	692.5	742.5	792.5	842.5	892.5	942.5	992.5	1042.5	1092.5	1142.5	1192.5	1242.5	1292.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	9.3	9.85	10.4	10.95	11.5	12.05	12.6	13.15	13.7	14.25	14.8	15.35	15.9	16.45	17	17.55	18.1	18.65	19.2	19.75

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PSM170 1-Axis

Ball Screw Drive

The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	1250mm	Maximum speed	2000mm/s	Maximux Static Torque	2.39N·m
Ball Screw	ø20mm	Linear Guide	20×15-2pcs		
Motor Connection type	BC				

Model Number Representation

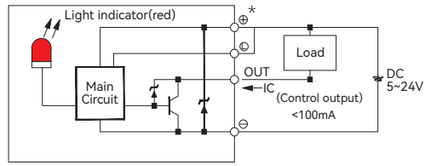
PSM170 – L05 – S100 – BC – T75B – C 1 – N

- PSM170 – Model Number
- L05 – Ball Screw Lead: 05 5mm; 10 10mm; 20 20mm; 40 40mm
- S100 – Maximum Stroke: Working Stroke Range 100 - 1250mm; Interval within the Effective Stroke Range 50mm stroke
- BC – Motor Position: BC Motor Direct Connection
- T75B – Motor Brand 、 Power Output: T Delta(standard); P Panasonic(standard); Y Yaskawa(standard); C Customer-provided; 10 100w; 20 200w; 40 400w; 75 750w; B With Brake*. Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.
- C 1 – Origin Sensor: Out Side — C Moter side; D Opposite Motor Side; No Sensor — E No Sensor
- Endpoint Limit Sensor Configuration: 1 1 pcs; 2 2 pcs; 3 3 pcs; No Sensor — 0 No Sensor
- N – Non-Standard Model

Specification

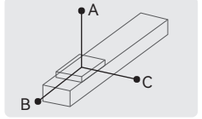
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s)		250	500	1000	2000
	Maximum Payload	Horizontal(kg)	120	120	83	43
		Vertical(kg)	50	40	25	12
	Rate Thrust (N)		2943	1471	735	367
	Working Stroke Range (mm)		100~1250mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750			
	Ball Screw ø (mm)		C7ø20			
	Linear Guide (mm)		W20×H15			
	Couping(mm)		12×19			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



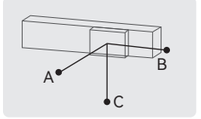
*When the srtoke is over 850mm,the run-out of the ball screw will occur.
We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P096 for standard stroke working speed.

Allowable Overhang



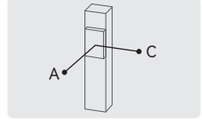
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	70kg	3235	349	408
	90kg	2482	263	306
	120kg	1861	187	218
Lead 10 mm	65kg	1911	338	373
	85kg	1445	248	276
	120kg	1000	164	182
Lead 20 mm	35kg	1666	547	538
	55kg	1030	331	328
	83kg	654	206	204
Lead 40 mm	15kg	1126	740	577
	22kg	755	491	384
	43kg	366	231	183



unit: mm

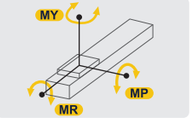
Wall Installation		A	B	C
Lead 5 mm	75kg	377	322	2988
	95kg	288	246	2333
	120kg	218	187	1850
Lead 10 mm	60kg	408	368	2092
	80kg	296	266	1554
	120kg	182	164	1002
Lead 20 mm	30kg	633	644	1961
	50kg	365	369	1143
	83kg	204	206	656
Lead 40 mm	12kg	729	936	1417
	22kg	384	491	755
	43kg	183	231	366



unit: mm

Vertical Installation		A	C
Lead 5 mm	20kg	1368	1368
	30kg	911	911
	50kg	546	546
Lead 10 mm	15kg	1618	1618
	25kg	970	970
	40kg	607	607
Lead 20 mm	10kg	1922	1922
	14kg	1377	1377
	25kg	769	769
Lead 40 mm	7kg	1356	1356
	12kg	790	790
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

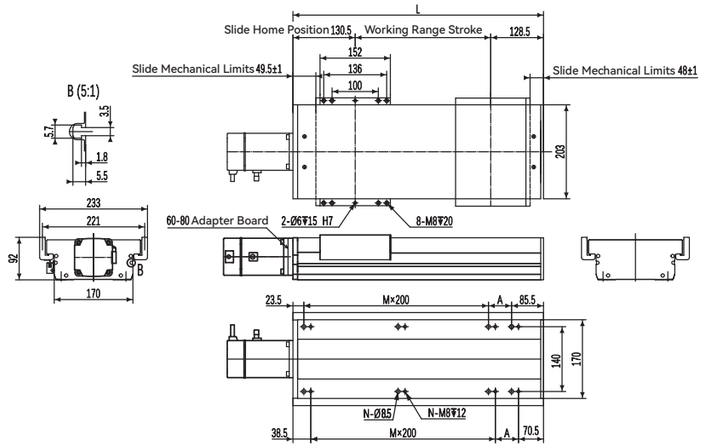
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

PSM170 1-Axis

BC Motor Direct Connection

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	359	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	10.02	10.79	11.57	12.34	13.11	13.88	14.65	15.42	16.19	16.96	17.73	18.5	19.28	20.05	20.82	21.59	22.36	23.13	23.9	24.67	25.44	26.21	26.98	27.75

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SK Series
Linear Module Series
ECONOMIC TYPE/BELT DRIVE
SEMI-ENCLOSED

Product Catalog
CONTENTS

SK60

Maximum stroke 3000mm
Maximum load 32KG
Body height 90mm
Body width 63mm

····· 113

SK80

Maximum stroke 3550mm
Maximum load 60KG
Body height 104mm
Body width 84mm

····· 119

Product Index

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Drive Spec		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Belt Width (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment	Belt	SK60	400	63	±0.05	25	13	32	—	650
							26	14	—	1300
							43	10	5	2160
							65	8	4	2000
							130	5	2	2000
		SK80	750	84	±0.05	35	15	60	—	750
							30	45	—	1500
							50	30	12	2000
							75	20	8	2000
							150	10	3	2000

*Notes:

1.The rated speed is the speed at the motor's rated rotation (3000 r/min).

2. The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

Standard stroke and maximum operating speed"3 Represents working speed
Stroke (mm) & Maximum Speed (mm/s) speed

Stroke	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3550	3600	Page
					650																									113
					1300																									
					2160																									
					2000 *For a lead of 65, the maximum motor speed limit is ≤ 1846 r/min。																										
					2000 *For a lead of 130 with a 1:1 direct drive by the motor, the maximum motor speed limit is ≤ 923r /min。																										
					750																									119
					1250																									
					2000 *For a lead of 50, the maximum motor speed limit is ≤ 2400 r/min。																										
					2000 *For a lead of 75, the maximum motor speed limit is ≤ 1601 r/min。																										
					2000 *For a lead of 150, the maximum motor speed limit is ≤ 800 r/min。																										

3.Except for the leads marked with a star, the maximum speed for other leads corresponds to the speed when the motor's rotation is 3000 r/min. For the leads marked with a star, the motor's rotation should be limited according to the data in the above table, with the operating speed at this time being the highest safe speed. If this limit is exceeded, severe resonance may occur in the slide table.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

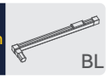
SK60 1-Axis

Timing Belt Drive

The picture is just for the reference.Please check the actual dimensions on the drawing.

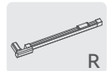
Maximum stroke	3000mm	Maximum speed	2160mm/s	Maximux Static Torque	1.27N·m	Belt Width	25mm	Linear Guide	15×12.5-1pcs

Motor Connection type

 BL

BR

L

 R

LD

LU

RD

RU

Model Number Representation

SK60 – P65 – S450 – L – T40B – C 1 – N

- SK60 – Model Number
- P65 – Timing Belt
  - P polyurethane
  - lead
  - 13 13mm
  - 26 26mm
  - 43 43mm
  - 65 65mm
  - 130 130mm
- S450 – Maximum Stroke

Working Stroke Range	100 - 3000mm
Interval within the Effective Stroke Range	50mm stroke

- L – Motor Position

BL	Left Linear Module
BR	Right Linear Module
L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

- T40B – Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

- C – Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

- 1 – Endpoint Limit Sensor Configuration

1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

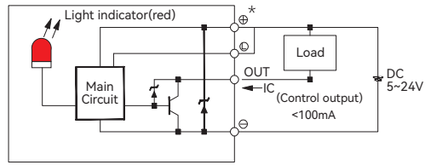
- N – Non-Standard Model

Specification

CAPABILITY	Repeatability (mm)		±0.05				
	Lead (mm)		13	26	43 *	65	130
	Maximum Speed (mm/s)		650	1300	2160	2000	2000
	Maximum Payload	Horizontal(kg)	32	14	10	8	5
		Vertical(kg)	—	—	5	4	2
	Reduction Ratio		1/10	1/5	1/3	1/2	1/1
	Rate Thrust (N)		600	300	180	120	60
	Working Stroke Range (mm)		450~3000mm / 50mm stroke				
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400				
	Linear Guide(mm)		W15×H12.5				
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)				

※The correct calculation for a gear that moves 130mm per revolution is as follows: Lead ÷ Reduction Ratio × Motor RPM = Actual Speed.

Inductor Wiring Diagram (Origin and Endpoints)



*Acceleration and deacceleration value is set 0.4 second.
*The maximum working speed needs to meet the effective stroke to be greater than or equal to 800mm
*Please refer to page P112 for standard stroke working speed.

Allowable Overhang

unit: mm

Horizontal Installation		A	B	C
Lead 13 mm	32kg	400	20	15
Lead 26 mm	14kg	400	40	20
Lead 43 mm	10kg	400	40	30
Lead 65 mm	8kg	430	50	35
Lead 130 mm	5kg	500	80	50

unit: mm

Wall Installation		A	B	C
Lead 13 mm	—	—	—	—
Lead 26 mm	—	—	—	—
Lead 43 mm	9kg	70	35	230
Lead 65 mm	8kg	80	50	270
Lead 130 mm	5kg	100	75	350

unit: mm

Vertical Installation		A	C
Lead 13 mm	—	—	—
Lead 26 mm	—	—	—
Lead 43 mm	5kg	80	50
Lead 65 mm	4kg	100	60
Lead 130 mm	2kg	150	80

Static Loading Moment

unit: N·m

Horizontal Installation	
MY	280
MP	280
MR	60

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

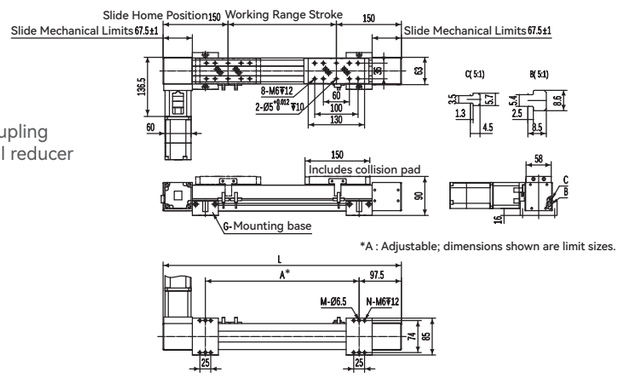
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

BL Left Linear Module

Unit:mm

The diagram shows direct coupling with an option for an external reducer or gear reduction box.



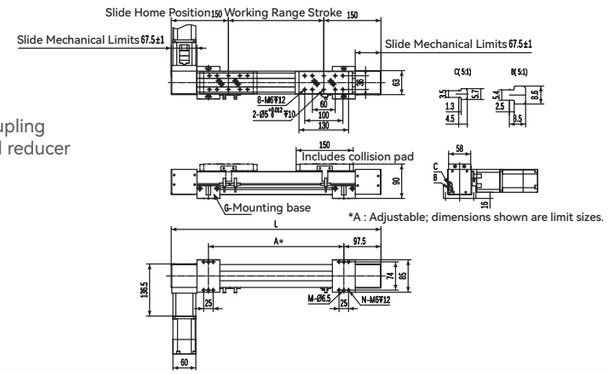
Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705	1755	1805
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	6.85	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.4	10.6	10.9	11.1	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355	2405	2455	2505	2555	2605	2655	2705	2755	2805	2855	2905	2955	3005	3055	3105
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.4	13.6	13.9	14.1	14.4	14.6	14.9	15.1	15.4	15.6	15.9	16.1	16.4	16.6	16.9	17.1	17.4	17.6	17.9	18.1	18.4	18.6	18.9	19.1	19.4	19.6

BR Right Linear Module

Unit:mm

The diagram shows direct coupling with an option for an external reducer or gear reduction box.



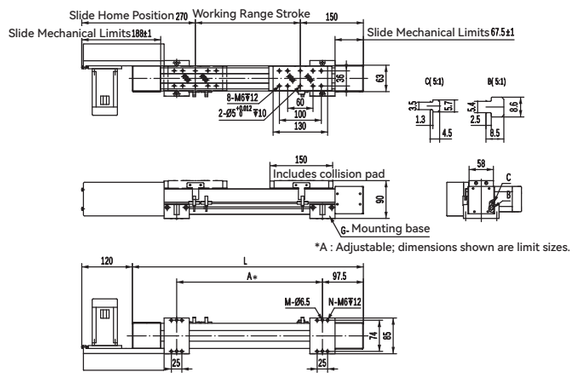
Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705	1755	1805
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	6.85	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.4	10.6	10.9	11.1	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355	2405	2455	2505	2555	2605	2655	2705	2755	2805	2855	2905	2955	3005	3055	3105
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.4	13.6	13.9	14.1	14.4	14.6	14.9	15.1	15.4	15.6	15.9	16.1	16.4	16.6	16.9	17.1	17.4	17.6	17.9	18.1	18.4	18.6	18.9	19.1	19.4	19.6

L Left Linear Module

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox.



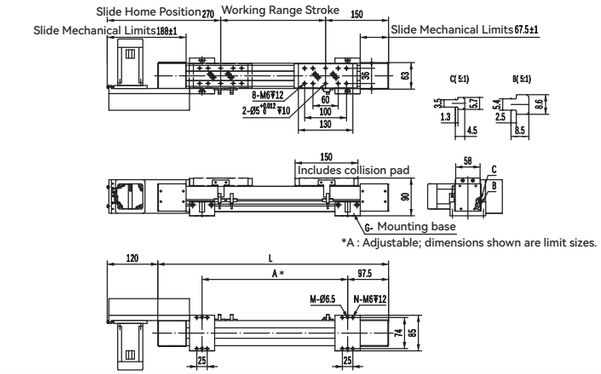
Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.35	10.6	10.85	11.1	11.35	11.6	11.85	12.1	12.35	12.6	12.85	13.1	13.35

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1847	1897	1947	1997	2047	2097	2147	2197	2247	2297	2347	2397	2447	2497	2547	2597	2647	2697	2747	2797	2847	2897	2947	2997	3047	3097
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.6	13.85	14.1	14.35	14.6	14.85	15.1	15.35	15.6	15.85	16.1	16.35	16.6	16.85	17.1	17.35	17.6	17.85	18.1	18.35	18.6	18.85	19.1	19.35	19.6	19.85

R Right Linear Module

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox.



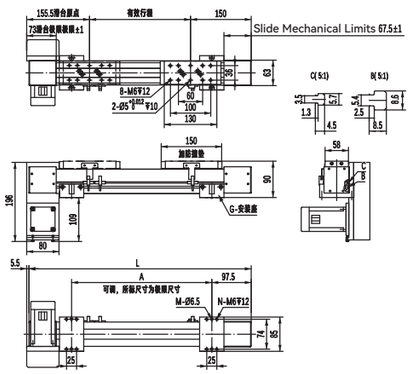
Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.35	10.6	10.85	11.1	11.35	11.6	11.85	12.1	12.35	12.6	12.85	13.1	13.35

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1847	1897	1947	1997	2047	2097	2147	2197	2247	2297	2347	2397	2447	2497	2547	2597	2647	2697	2747	2797	2847	2897	2947	2997	3047	3097
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.6	13.85	14.1	14.35	14.6	14.85	15.1	15.35	15.6	15.85	16.1	16.35	16.6	16.85	17.1	17.35	17.6	17.85	18.1	18.35	18.6	18.85	19.1	19.35	19.6	19.85

LD Motor Lower Left

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘



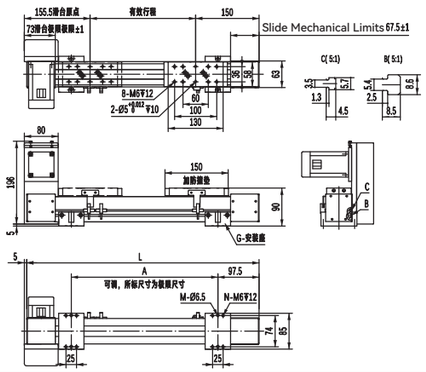
Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.35	10.6	10.85	11.1	11.35	11.6	11.85	12.1	12.35	12.6	12.85	13.1	13.35

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1847	1897	1947	1997	2047	2097	2147	2197	2247	2297	2347	2397	2447	2497	2547	2597	2647	2697	2747	2797	2847	2897	2947	2997	3047	3097
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.6	13.85	14.1	14.35	14.6	14.85	15.1	15.35	15.6	15.85	16.1	16.35	16.6	16.85	17.1	17.35	17.6	17.85	18.1	18.35	18.6	18.85	19.1	19.35	19.6	19.85

LU Motor Upper Left

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘



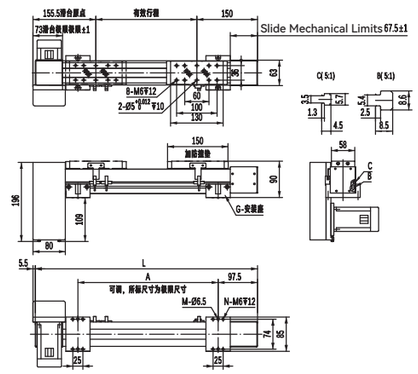
Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.35	10.6	10.85	11.1	11.35	11.6	11.85	12.1	12.35	12.6	12.85	13.1	13.35

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1847	1897	1947	1997	2047	2097	2147	2197	2247	2297	2347	2397	2447	2497	2547	2597	2647	2697	2747	2797	2847	2897	2947	2997	3047	3097
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.6	13.85	14.1	14.35	14.6	14.85	15.1	15.35	15.6	15.85	16.1	16.35	16.6	16.85	17.1	17.35	17.6	17.85	18.1	18.35	18.6	18.85	19.1	19.35	19.6	19.85

RD Motor Lower Right

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘



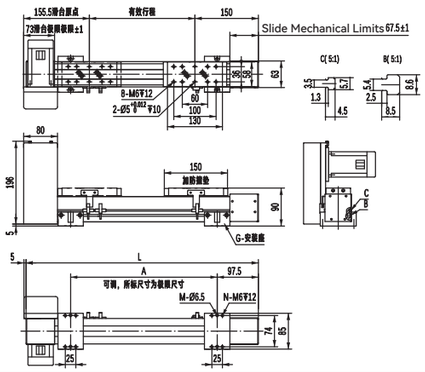
Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.35	10.6	10.85	11.1	11.35	11.6	11.85	12.1	12.35	12.6	12.85	13.1	13.35

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1847	1897	1947	1997	2047	2097	2147	2197	2247	2297	2347	2397	2447	2497	2547	2597	2647	2697	2747	2797	2847	2897	2947	2997	3047	3097
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.6	13.85	14.1	14.35	14.6	14.85	15.1	15.35	15.6	15.85	16.1	16.35	16.6	16.85	17.1	17.35	17.6	17.85	18.1	18.35	18.6	18.85	19.1	19.35	19.6	19.85

RU Motor Upper Right

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘

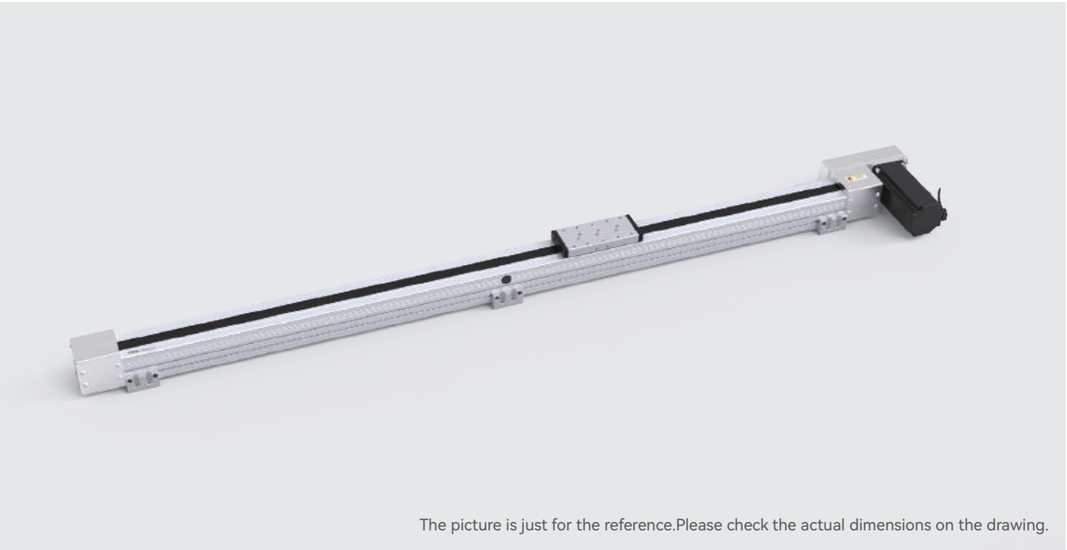


Stroke	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
A	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797
M	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
N	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16
G	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
KG	7.1	7.35	7.6	7.85	8.1	8.35	8.6	8.85	9.1	9.35	9.6	9.85	10.1	10.35	10.6	10.85	11.1	11.35	11.6	11.85	12.1	12.35	12.6	12.85	13.1	13.35

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300
A	1847	1897	1947	1997	2047	2097	2147	2197	2247	2297	2347	2397	2447	2497	2547	2597	2647	2697	2747	2797	2847	2897	2947	2997	3047	3097
M	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12
N	16	16	16	16	16	20	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24
G	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
KG	13.6	13.85	14.1	14.35	14.6	14.85	15.1	15.35	15.6	15.85	16.1	16.35	16.6	16.85	17.1	17.35	17.6	17.85	18.1	18.35	18.6	18.85	19.1	19.35	19.6	19.85

SK80 1-Axis

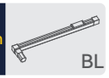
Timing Belt Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	3550mm	Maximum speed	2000mm/s	Maximux Static Torque	2.37N·m	Belt Width	30mm	Linear Guide	20×15-1pcs

Motor Connection type


BL

BR

L

R

LD

LU

RD

RU

Model Number Representation

SK80 – P75 – S100 – L – T75B – C 1 – N

Model Number

Timing Belt

P	polyurethane
lead	
15	15mm
25	25mm
50	50mm
75	75mm
150	150mm

Maximum Stroke

Working Stroke Range	100 - 3550mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BL	Left Linear Module
BR	Right Linear Module
L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

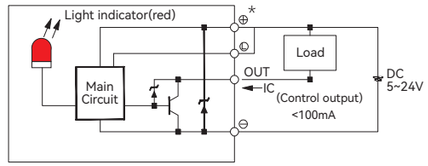
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

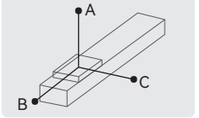
CAPABILITY	Repeatability (mm)		±0.05				
	Lead (mm)		15	30	50	75	150
	Maximum Speed (mm/s)		750	1500	2000	2000	2000
	Maximum Payload	Horizontal(kg)	60	30	30	20	10
		Vertical(kg)	–	–	12	8	3
	Reduction Ratio		1/10	1/5	1/3	1/2	1/1
	Rate Thrust (N)		972	486	291	194	98
	Working Stroke Range (mm)		500~3550mm / 50mm stroke				
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750				
	Linear Guide(mm)		W20×H15				
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)				

Inductor Wiring Diagram (Origin and Endpoints)



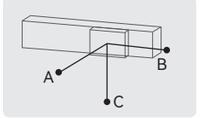
*Acceleration and deacceleration value is set 0.4 second.
*The maximum working speed needs to meet the effective stroke to be greater than or equal to 800mm
*Please refer to page P112 for standard stroke working speed.

Allowable Overhang



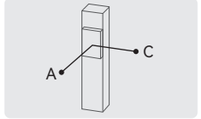
unit: mm

Horizontal Installation		A	B	C
Lead 15 mm	60kg	700	80	15
Lead 30 mm	45kg	600	100	20
Lead 50 mm	30kg	600	160	30
Lead 75 mm	20kg	600	260	40
Lead 150 mm	10kg	600	300	50



unit: mm

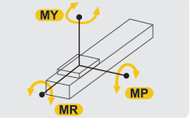
Wall Installation		A	B	C
Lead 15 mm	60kg	15	80	450
Lead 30 mm	45kg	20	100	500
Lead 50 mm	30kg	25	160	500
Lead 75 mm	20kg	30	240	600
Lead 150 mm	10kg	35	320	600



unit: mm

Vertical Installation		A	C
Lead 15 mm	—	—	—
Lead 30 mm	—	—	—
Lead 50 mm	12kg	350	350
Lead 75 mm	8kg	400	400
Lead 150 mm	3kg	450	450

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	384
MP	384
MR	130

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

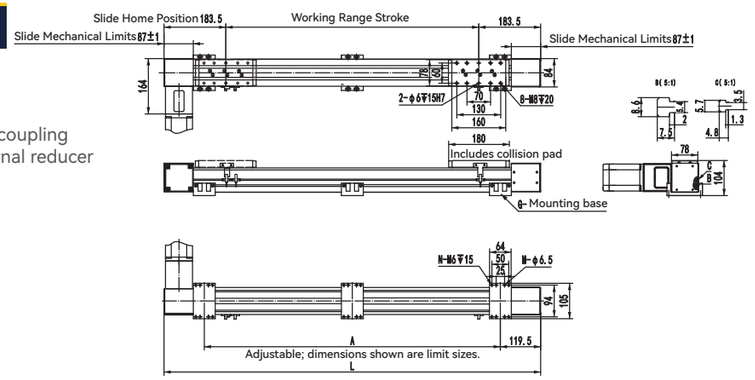
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

BL Left Linear Module

Unit:mm

The diagram shows direct coupling with an option for an external reducer or gear reduction box. ⇲



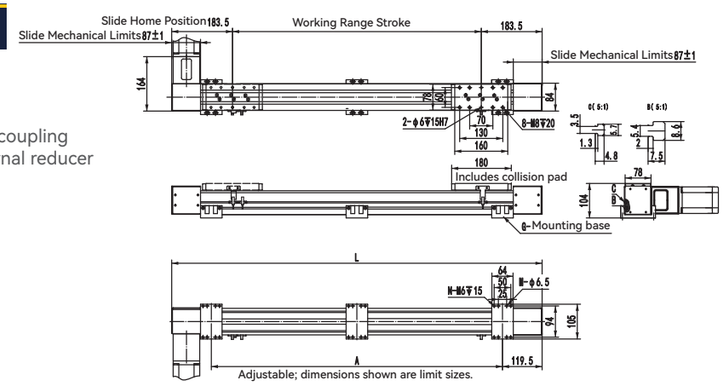
Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

BR Right Linear Module

Unit:mm

The diagram shows direct coupling with an option for an external reducer or gear reduction box. ⇲



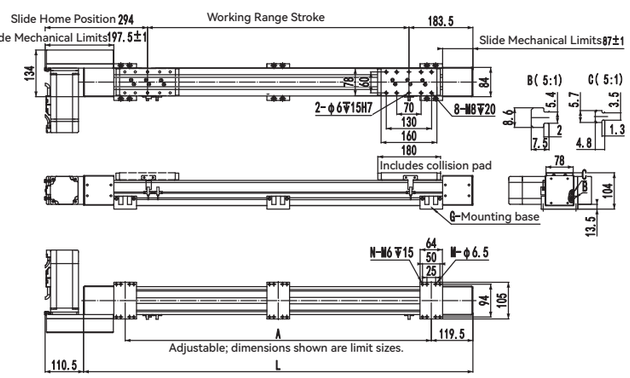
Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

L Left Linear Module

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ⇲



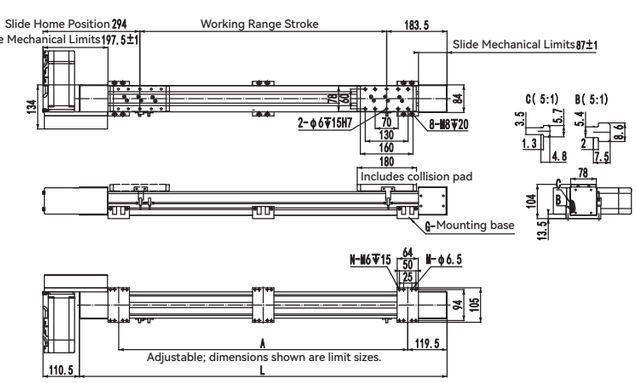
Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

R Right Linear Module

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ⇲



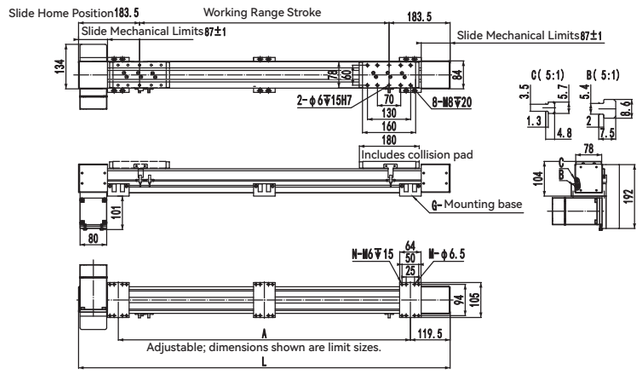
Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

LD Motor Lower Left

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘



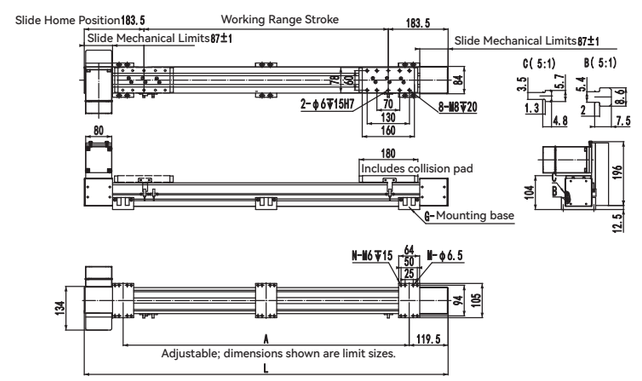
Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

LU Motor Upper Left

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘



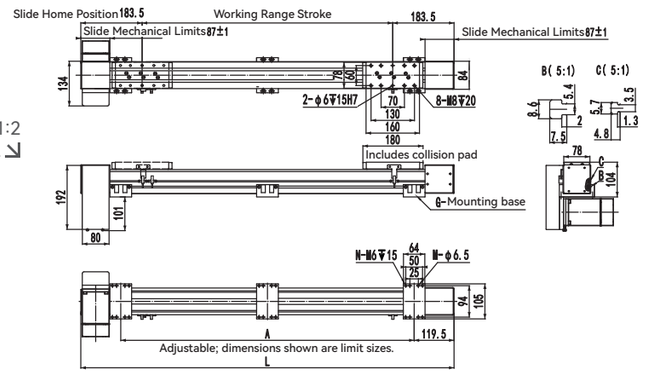
Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

RD Motor Lower Right

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘



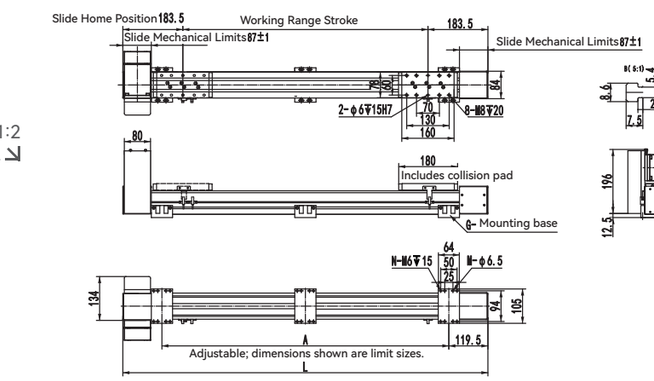
Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	1	7	1	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

RU Motor Upper Right

Unit:mm

The diagram shows the use of a 1:2 synchronous belt pulley gearbox. ↘



Stroke	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
A	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128
M	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
N	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	16	16	16	16	16	16	16	16	16	16	20
G	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
KG	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	21.2	21.4	21.6	21.8	22	22.2	22.4	22.6	22.8	23	23.7

Stroke	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550
L	2417	2467	2517	2567	2617	2667	2717	2767	2817	2867	2917	2967	3017	3067	3117	3167	3217	3267	3317	3367	3417	3467	3517	3567	3617	3667	3717	3767	3817	3867	3917
A	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628	2678	2728	2778	2828	2878	2928	2978	3028	3078	3128	3178	3228	3278	3328	3378	3428	3478	3528	3578	3628	3678
M	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
N	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	28	32	32
G	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	1	7	1	7	7	7	7	7	7	8	8
KG	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.3	28	28.4	28.8	29.2	29.6	30	30.4	30.8	31.2	31.6	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.6	40

PBS Series
Linear Module Series
ECONOMIC TYPE/BELT DRIVE
SEMI-ENCLOSED

Product Catalog

CONTENTS

PBS120

Maximum stroke 3050mm
Maximum load 30KG
Body height 83mm
Body width 120mm
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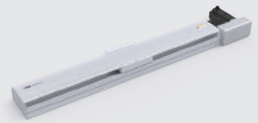
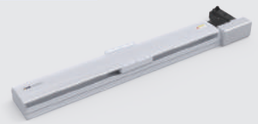
PBS140



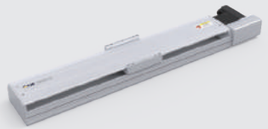
Maximum stroke 3050mm
Maximum load 35KG
Body height 78mm
Body width 135mm
····· 135

PBS140S



Maximum stroke 3050mm
Maximum load 35KG
Body height 93mm
Body width 135mm
····· 141

PBS170



Maximum stroke 3050mm
Maximum load 65KG
Body height 97mm
Body width 170mm
····· 147

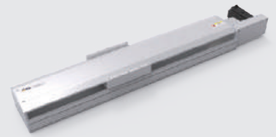
PBS170S

Maximum stroke 3050mm
Maximum load 65KG
Body height 108mm
Body width 170mm
····· 153

PBS200

Maximum stroke 3050mm
Maximum load 85KG
Body height 101.5mm
Body width 175mm
····· 159

PBS220



Maximum stroke 3050mm
Maximum load 85KG
Body height 134mm
Body width 220mm
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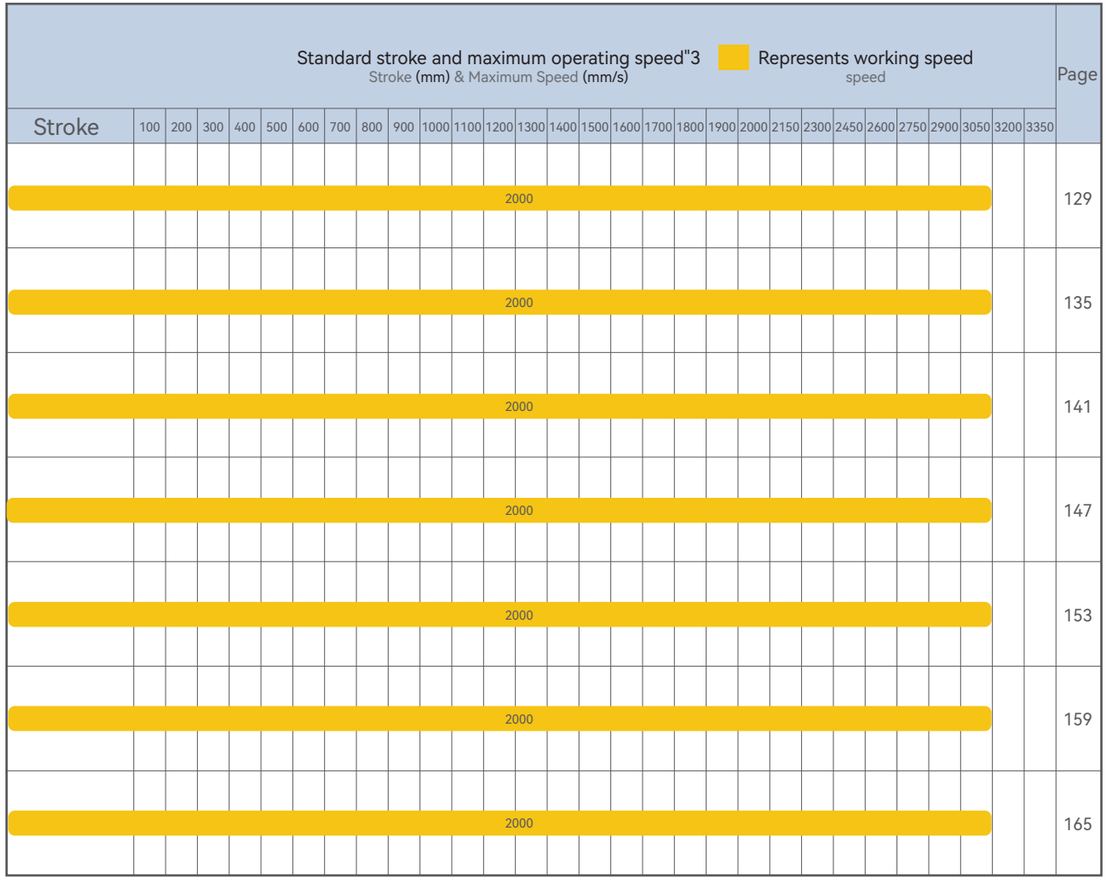
Product Index

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Drive Spec		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Belt Width (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment	Belt	PBS120	400	120	±0.04	20	40	30	Disable	2000
		PBS140	400	135	±0.04	20	40	35	Disable	2000
		PBS140S	750	135	±0.04	20	40	35	Disable	2000
		PBS170	750	170	±0.04	35	40	65	Disable	2000
		PBS170S	750	170	±0.04	35	40	65	Disable	2000
		PBS200	750	175	±0.04	35	40	85	Disable	2000
		PBS220	750	220	±0.04	50	40	85	Disable	2000



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*Notes:

1. The rated speed is the speed at the motor's rated rotation (3000 r/min).

2. The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

3. The maximum speed for each stroke is the speed at the electric rotation rate (3000 r/min), which represents the highest safe speed. If this speed is exceeded, severe resonance may occur in the slide table.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PBS120 1-Axis

Timing Belt Drive

The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	1.27N·m	Belt Width	20mm	Linear Guide	15×12.5-2pcs

Motor Connection type

Model Number Representation

PBS120 – R40 – S100 – L – T40B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

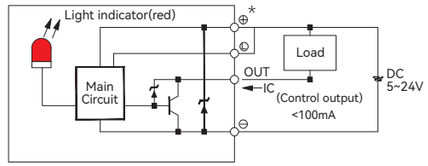
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

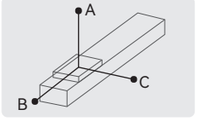
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	30
		Vertical(kg)	Disable
	Rate Thrust (N)		195
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400
	Timing Belt Width (mm)		20
	Linear Guide(mm)		W15×H12.5
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



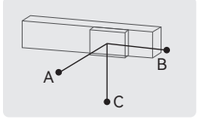
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P128 for standard stroke working speed.

Allowable Overhang



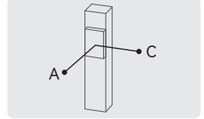
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	10kg	1794	688	538
	20kg	858	324	253
	30kg	670	251	197



unit: mm

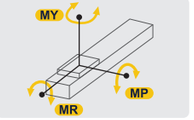
Wall Installation		A	B	C
Lead 40 mm	15kg	348	446	1170
	18kg	285	365	961
	30kg	197	251	670



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

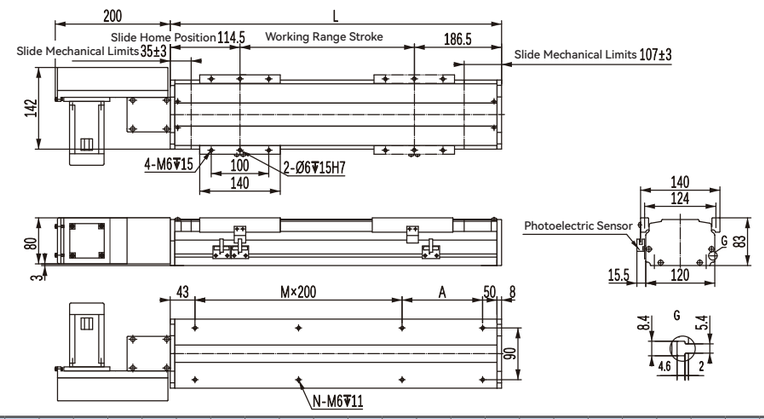
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

PBS120 1-Axis

L Left Linear Module

Unit:mm

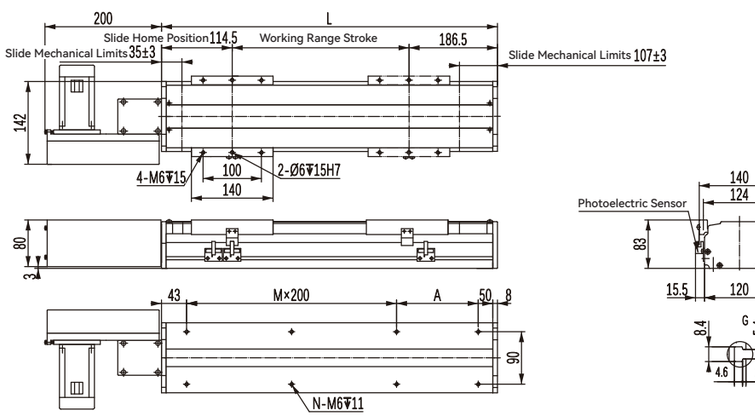


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	16	18	18	18	18	20	20
KG	7.5	8.1	8.7	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5	23.1	23.7	24.3	24.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601	2651	2701	2751	2801	2851	2901	2951	3001	3051	3101	3151	3201	3251	3301	3351
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	25.5	26.1	26.7	27.3	27.9	28.5	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.9	37.5	38.1	38.7	39.3	39.9	40.5	41.1	41.7	42.3	42.9

R Right Linear Module

Unit:mm

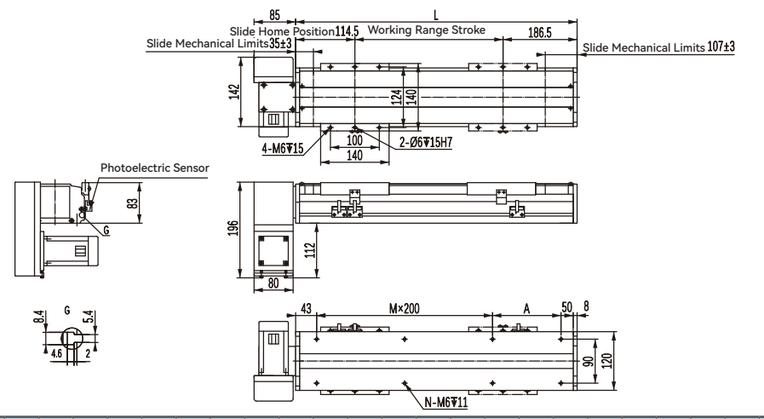


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	16	18	18	18	18	20	20
KG	7.5	8.1	8.7	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5	23.1	23.7	24.3	24.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601	2651	2701	2751	2801	2851	2901	2951	3001	3051	3101	3151	3201	3251	3301	3351
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	25.5	26.1	26.7	27.3	27.9	28.5	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.9	37.5	38.1	38.7	39.3	39.9	40.5	41.1	41.7	42.3	42.9

LD Motor Lower Left

Unit:mm

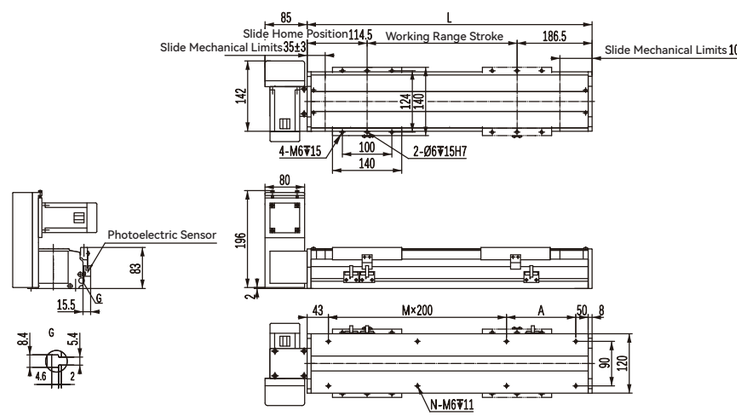


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	7.5	8.1	8.7	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5	23.1	23.7	24.3	24.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601	2651	2701	2751	2801	2851	2901	2951	3001	3051	3101	3151	3201	3251	3301	3351
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	25.5	26.1	26.7	27.3	27.9	28.5	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.9	37.5	38.1	38.7	39.3	39.9	40.5	41.1	41.7	42.3	42.9

LU Motor Upper Left

Unit:mm



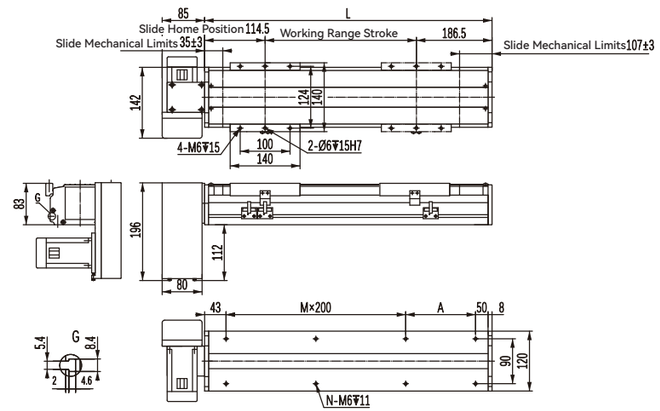
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	7.5	8.1	8.7	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5	23.1	23.7	24.3	24.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601	2651	2701	2751	2801	2851	2901	2951	3001	3051	3101	3151	3201	3251	3301	3351
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	25.5	26.1	26.7	27.3	27.9	28.5	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.9	37.5	38.1	38.7	39.3	39.9	40.5	41.1	41.7	42.3	42.9

PBS120 1-Axis

RD Motor Lower Right

Unit:mm

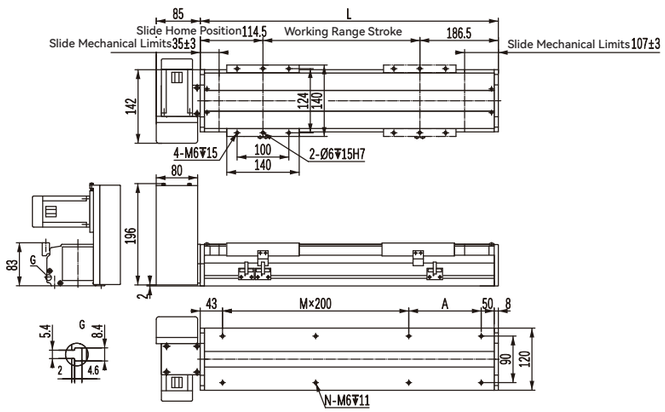


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	7.5	8.1	8.7	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5	23.1	23.7	24.3	24.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601	2651	2701	2751	2801	2851	2901	2951	3001	3051	3101	3151	3201	3251	3301	3351
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	25.5	26.1	26.7	27.3	27.9	28.5	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.9	37.5	38.1	38.7	39.3	39.9	40.5	41.1	41.7	42.3	42.9

RU Motor Upper Right

Unit:mm



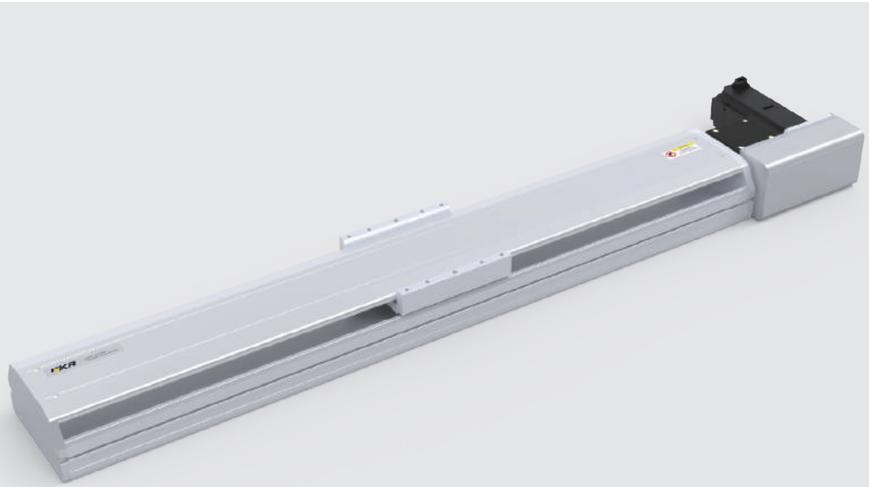
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	7.5	8.1	8.7	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5	23.1	23.7	24.3	24.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601	2651	2701	2751	2801	2851	2901	2951	3001	3051	3101	3151	3201	3251	3301	3351
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	25.5	26.1	26.7	27.3	27.9	28.5	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.9	37.5	38.1	38.7	39.3	39.9	40.5	41.1	41.7	42.3	42.9

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBS140 1-Axis

Timing Belt Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	1.27N·m	Belt Width	20mm	Linear Guide	15×12.5-2pcs

Motor Connection type

Model Number Representation

PBS140 – R40 – S100 – L – T40B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

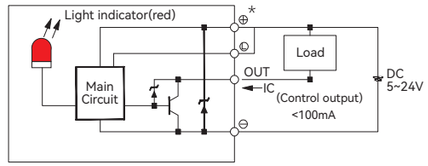
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

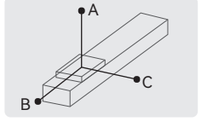
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	35
		Vertical(kg)	Disable
	Rate Thrust (N)		195
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400
	Timing Belt Width (mm)		20
	Linear Guide(mm)		W15×H12.5
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



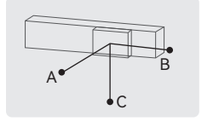
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P128 for standard stroke working speed.

Allowable Overhang



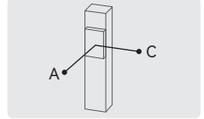
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	10kg	2700	1700	1050
	20kg	2100	850	650
	35kg	1700	600	500



unit: mm

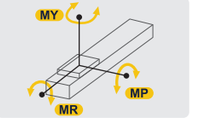
Wall Installation		A	B	C
Lead 40 mm	15kg	1070	1200	2000
	18kg	600	560	1500
	35kg	410	350	1150



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

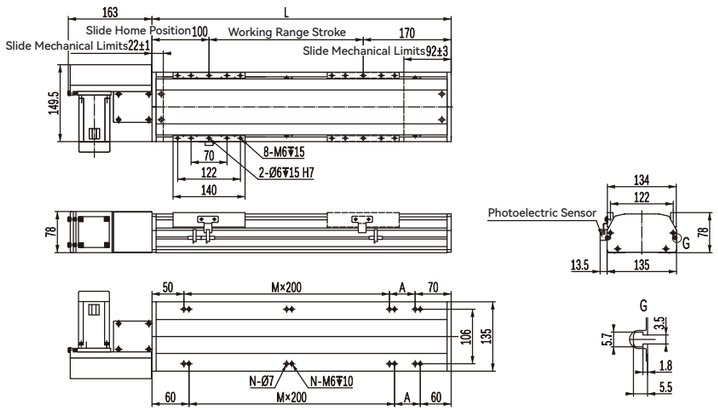
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

PBS140 1-Axis

L Left Linear Module

Unit:mm

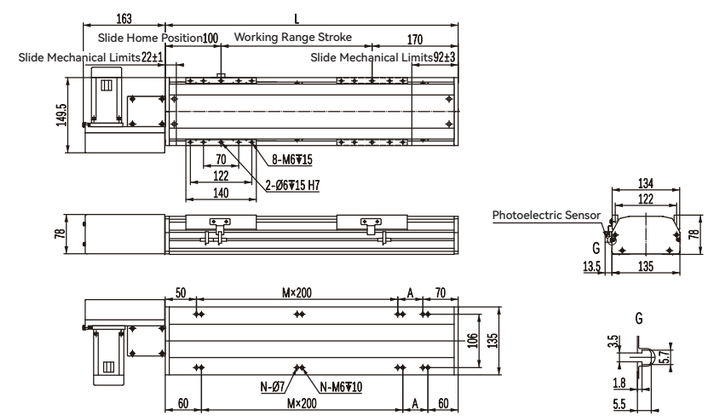


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25	25.2	26	26.5	27	27.5	28	27.3	27.65	28	28.35	28.7	29.05	29.4	29.75	30.1	30.45	30.8	31.15	31.5	31.85	32.2	32.55	32.9	37	37.5	38	38.5	39	39.5

R Right Linear Module

Unit:mm

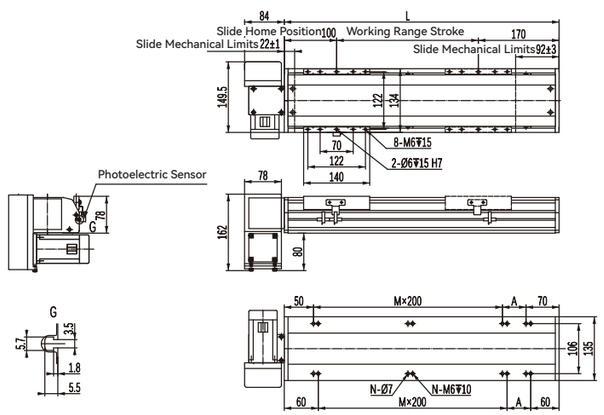


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25	25.2	26	26.5	27	27.5	28	27.3	27.65	28	28.35	28.7	29.05	29.4	29.75	30.1	30.45	30.8	31.15	31.5	31.85	32.2	32.55	32.9	37	37.5	38	38.5	39	39.5

LD Motor Lower Left

Unit:mm

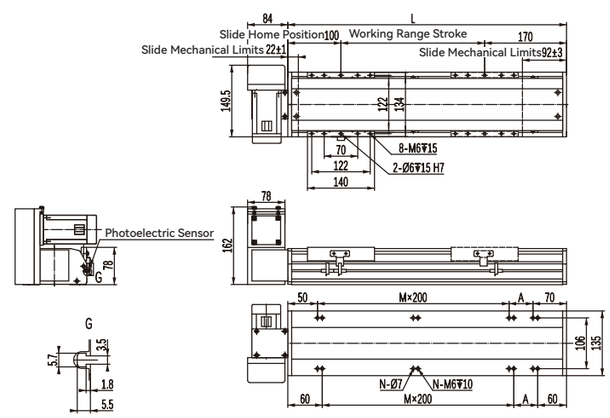


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25	25.2	26	26.5	27	27.5	28	27.3	27.65	28	28.35	28.7	29.05	29.4	29.75	30.1	30.45	30.8	31.15	31.5	31.85	32.2	32.55	32.9	37	37.5	38	38.5	39	39.5

LU Motor Upper Left

Unit:mm



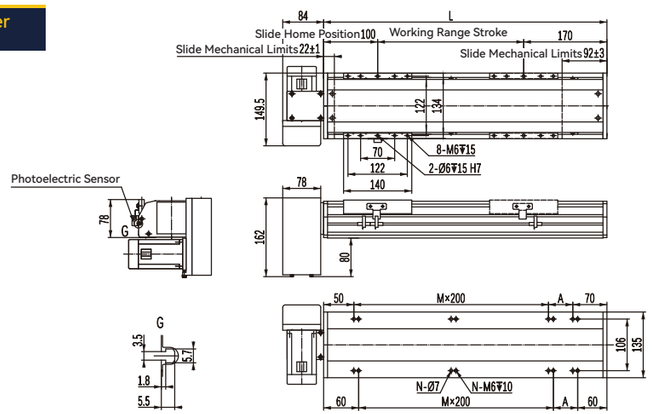
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25	25.2	26	26.5	27	27.5	28	27.3	27.65	28	28.35	28.7	29.05	29.4	29.75	30.1	30.45	30.8	31.15	31.5	31.85	32.2	32.55	32.9	37	37.5	38	38.5	39	39.5

PBS140 1-Axis

RD Motor Lower Right

Unit:mm

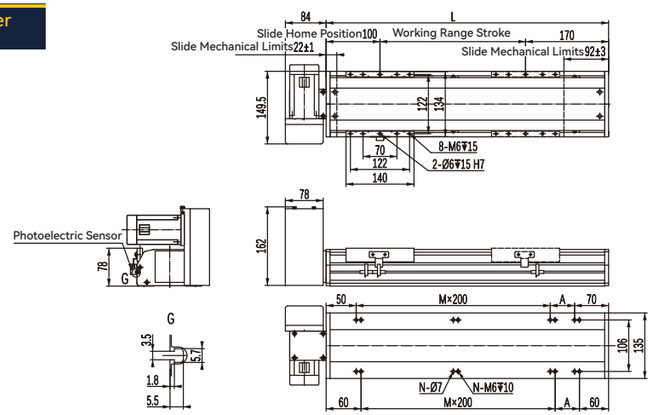


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25	25.2	26	26.5	27	27.5	28	27.3	27.65	28	28.35	28.7	29.05	29.4	29.75	30.1	30.45	30.8	31.15	31.5	31.85	32.2	32.55	32.9	37	37.5	38	38.5	39	39.5

RU Motor Upper Right

Unit:mm



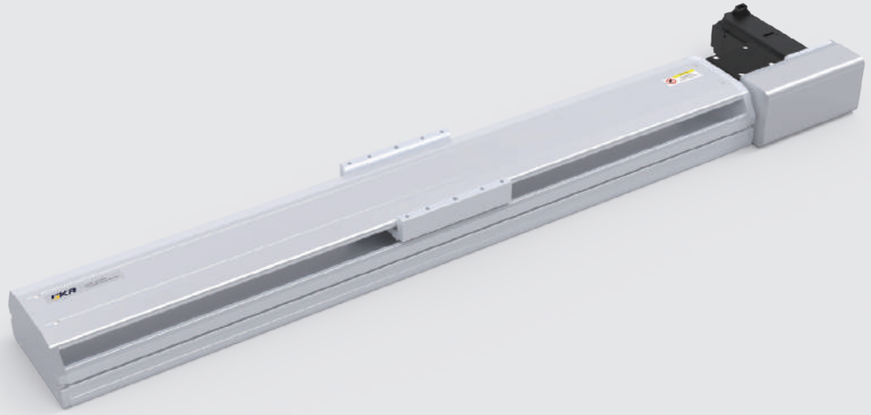
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25	25.2	26	26.5	27	27.5	28	27.3	27.65	28	28.35	28.7	29.05	29.4	29.75	30.1	30.45	30.8	31.15	31.5	31.85	32.2	32.55	32.9	37	37.5	38	38.5	39	39.5

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBS140S 1-Axis

Timing Belt Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	1.27N·m	Belt Width	20mm	Linear Guide	15×12.5-2pcs

Motor Connection type

Model Number Representation

PBS140S – R40 – S100 – L – T40B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

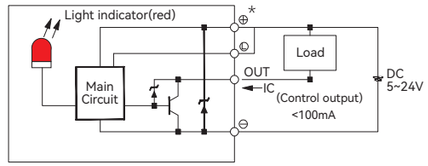
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

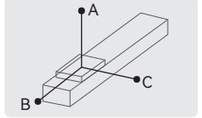
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	35
		Vertical(kg)	Disable
	Rate Thrust (N)		195
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400
	Timing Belt Width (mm)		20
	Linear Guide(mm)		W15×H12.5
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



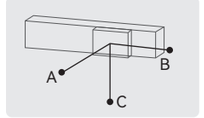
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P128 for standard stroke working speed.

Allowable Overhang



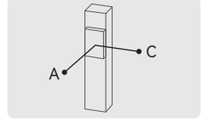
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	10kg	2700	1700	1050
	20kg	2100	850	650
	35kg	1700	600	500



unit: mm

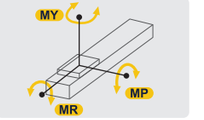
Wall Installation		A	B	C
Lead 40 mm	15kg	1070	1200	2000
	18kg	600	560	1500
	35kg	410	350	1150



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

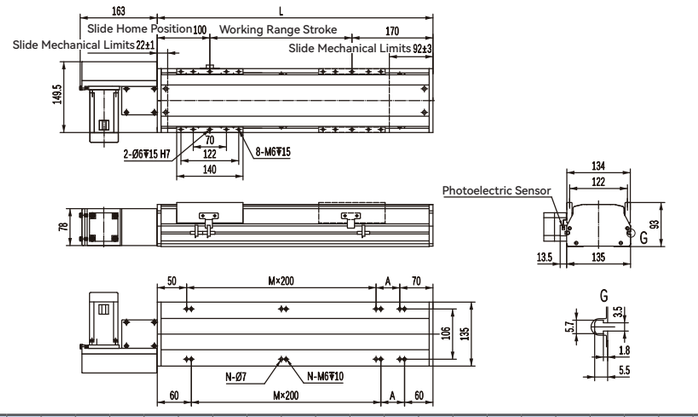
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

PBS140S 1-Axis

L Left Linear Module

Unit:mm

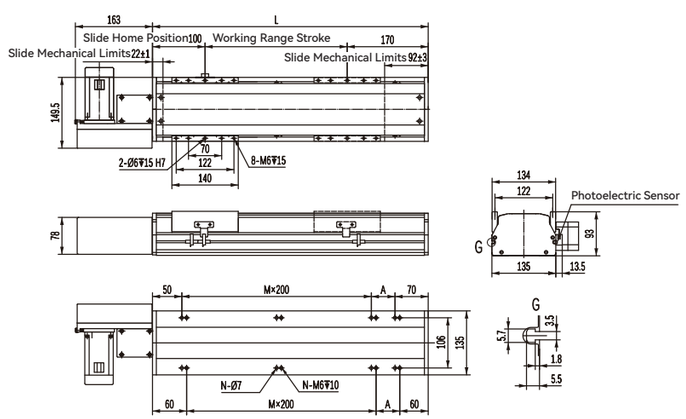


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	30	32	32	32	32	34	34	34
KG	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40

R Right Linear Module

Unit:mm

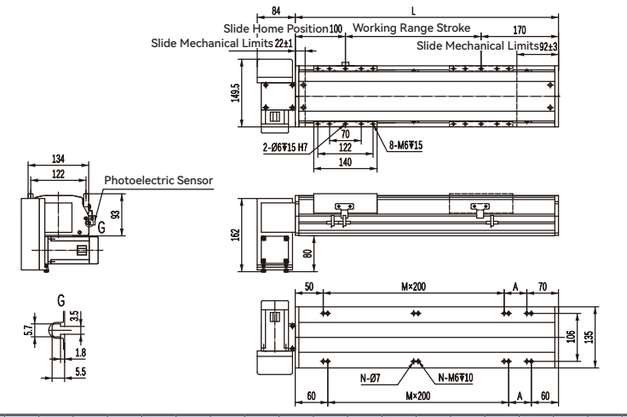


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	30	32	32	32	32	34	34	34
KG	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40

LD Motor Lower Left

Unit:mm

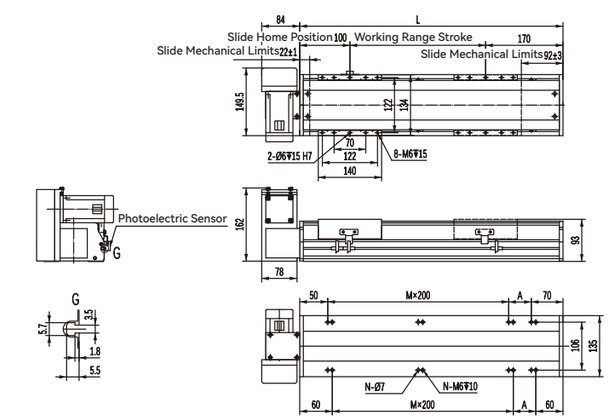


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40

LU Motor Upper Left

Unit:mm



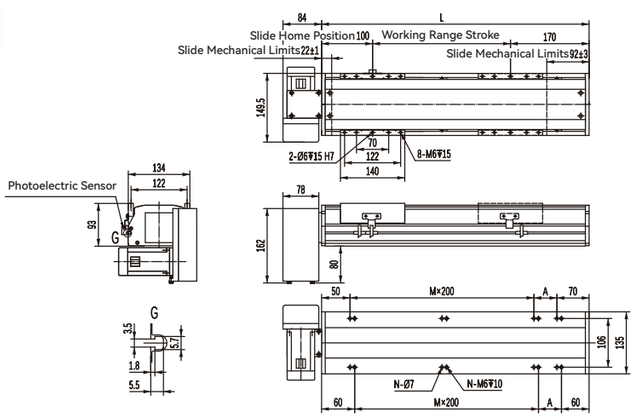
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40

PBS140S 1-Axis

RD Motor Lower Right

Unit:mm

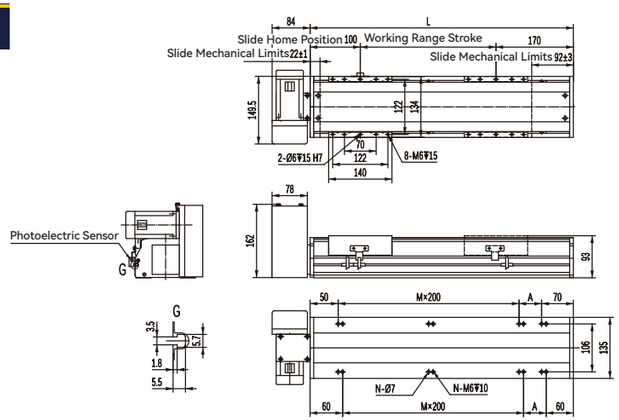


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40

RU Motor Upper Right

Unit:mm

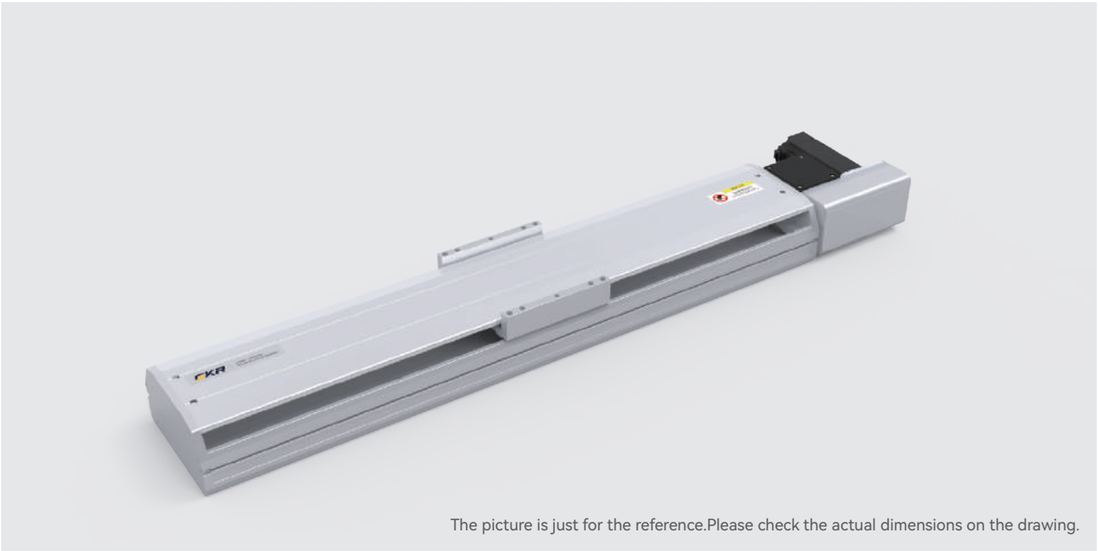


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBS170 1-Axis



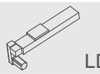
The picture is just for the reference.Please check the actual dimensions on the drawing.

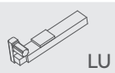
Maximum stroke	3050mm	Maximum speed	2000mm/s
Maximux Static Torque	2.39N·m	Belt Width	35mm
Linear Guide	20×15-2pcs		

Motor Connection type

L

R

 LD

 LU

RD

RU

Model Number Representation

PBS170 – R40 – S100 – L – T75B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

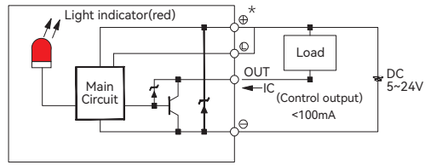
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

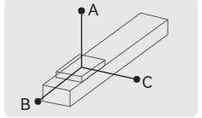
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	65
		Vertical(kg)	Disable
	Rate Thrust (N)		368
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750
	Timing Belt Width (mm)		35
	Linear Guide(mm)		W20×H15
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



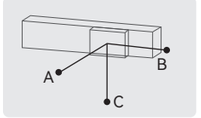
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P128 for standard stroke working speed.

Allowable Overhang



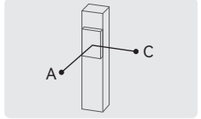
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	10kg	3000	1900	1300
	20kg	2300	1000	800
	30kg	2000	700	600
	65kg	900	320	290



unit: mm

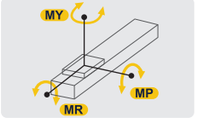
Wall Installation		A	B	C
Lead 40 mm	10kg	1300	1500	2300
	20kg	800	700	1750
	30kg	600	450	1350
	65kg	290	210	610



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

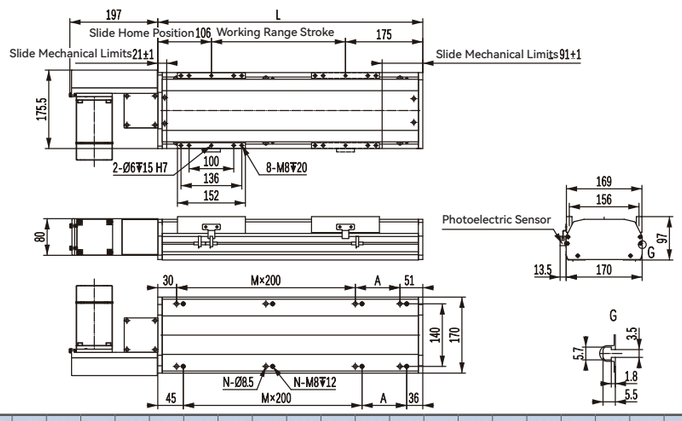
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

PBS170 1-Axis

L Left Linear Module

Unit:mm

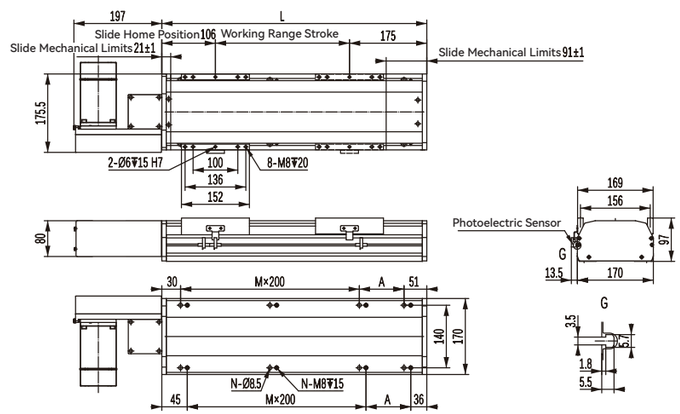


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	32.7	33.4	34.1	34.8	35.5	36.2	36.9	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53

R Right Linear Module

Unit:mm



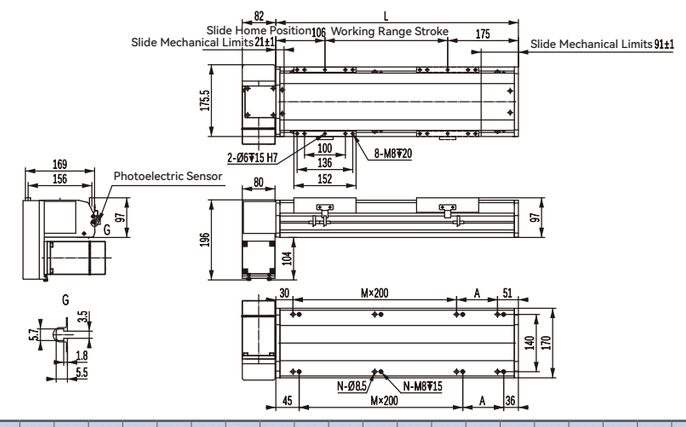
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	32.7	33.4	34.1	34.8	35.5	36.2	36.9	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53

Sales Manager:manager@zjskt.com

LD Motor Lower Left

Unit:mm

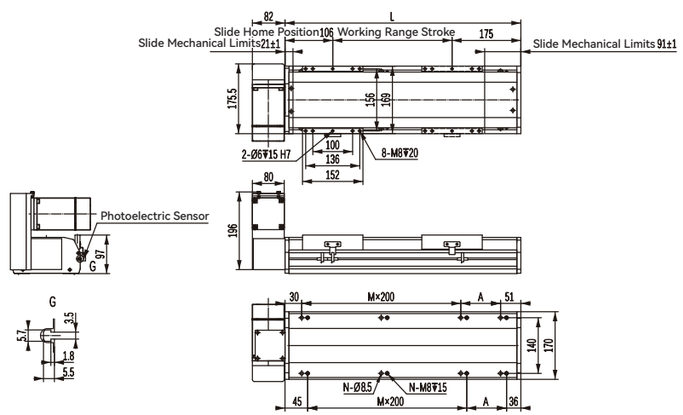


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8
N	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	32.7	33.4	34.1	34.8	35.5	36.2	36.9	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53

LU Motor Upper Left

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8
N	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	32.7	33.4	34.1	34.8	35.5	36.2	36.9	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53

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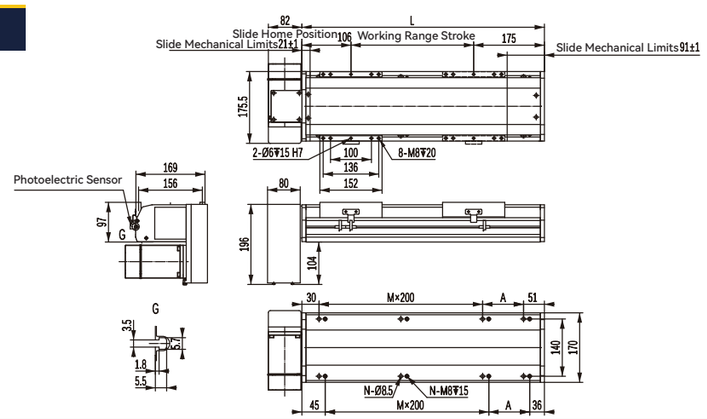
PBS170 1-Axis

RD Motor Lower Right

Unit:mm

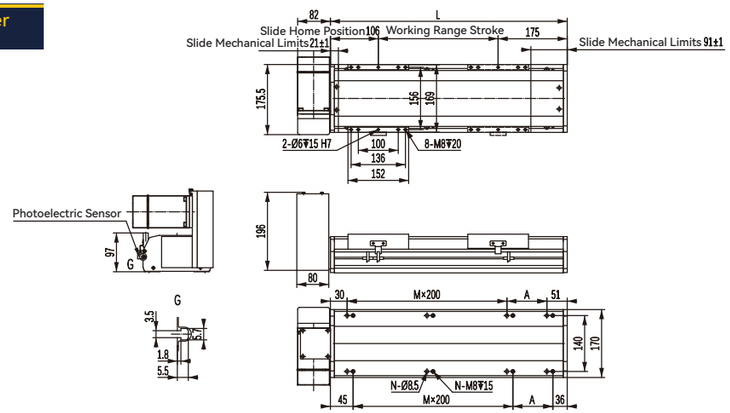


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	32.7	33.4	34.1	34.8	35.5	36.2	36.9	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53

RU Motor Upper Right

Unit:mm



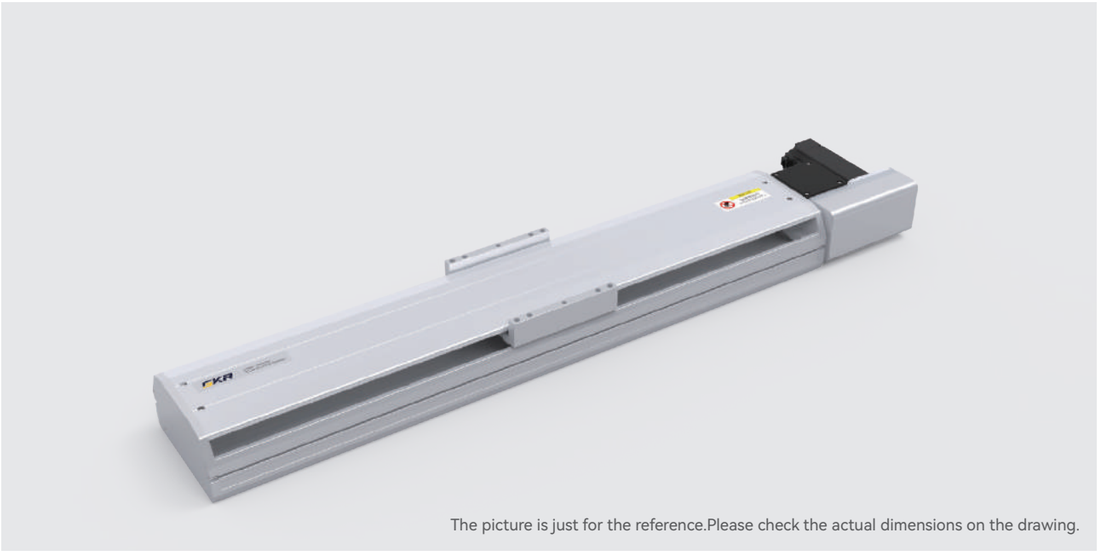
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	24.3	25	25.7	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.3	32

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	32.7	33.4	34.1	34.8	35.5	36.2	36.9	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBS170S 1-Axis

Timing Belt Drive



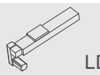
The picture is just for the reference.Please check the actual dimensions on the drawing.

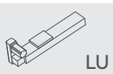
Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	2.39N·m	Belt Width	35mm	Linear Guide	20×15-2pcs

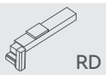
Motor Connection type

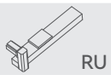
L

R

 LD

 LU

 RD

 RU

Model Number Representation

PBS170S – R40 – S100 – L – T75B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

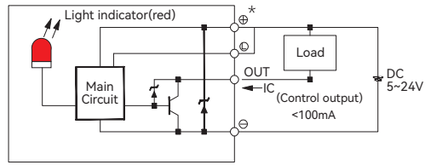
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

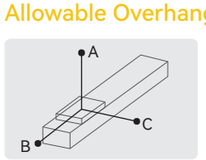
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	65
		Vertical(kg)	Disable
	Rate Thrust (N)		368
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750
	Timing Belt Width (mm)		35
	Linear Guide(mm)		W20×H15
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



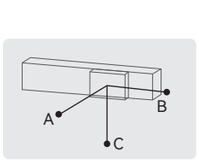
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P128 for standard stroke working speed.

Allowable Overhang



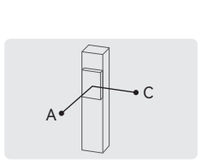
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	10kg	3000	1900	1300
	20kg	2300	1000	800
	30kg	2000	700	600
	65kg	900	320	290



unit: mm

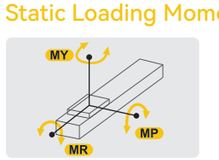
Wall Installation		A	B	C
Lead 40 mm	10kg	1300	1500	2300
	20kg	800	700	1750
	30kg	600	450	1350
	65kg	290	210	610



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

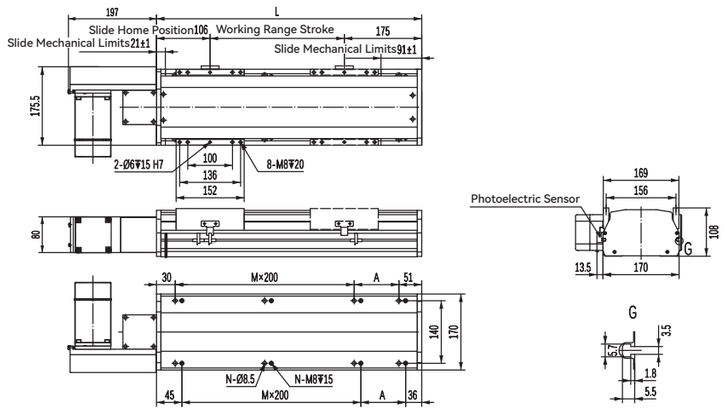
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

PBS170S 1-Axis

L Left Linear Module

Unit:mm

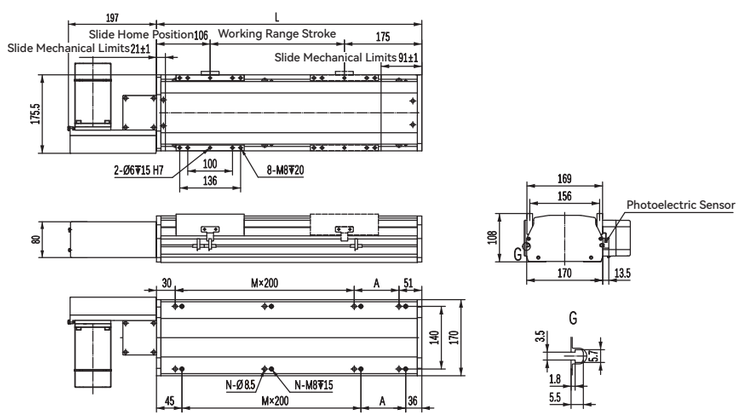


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	12.5	13.3	14.1	14.9	15.7	16.5	17.3	18.1	18.9	19.7	20.5	21.3	22.1	22.9	23.7	24.5	25.3	26.1	26.9	27.7	28.5	29.3	30.1	30.9	31.7	32.5	33.3	34.1	34.9	35.7

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.5	37.3	38.1	38.9	39.7	40.5	41.3	42.1	42.9	43.7	44.5	45.3	46.1	46.9	47.7	48.5	49.3	50.1	50.9	51.7	52.5	53.3	54.1	54.9	55.7	56.5	57.3	58.1	52.9	59.7

R Right Linear Module

Unit:mm



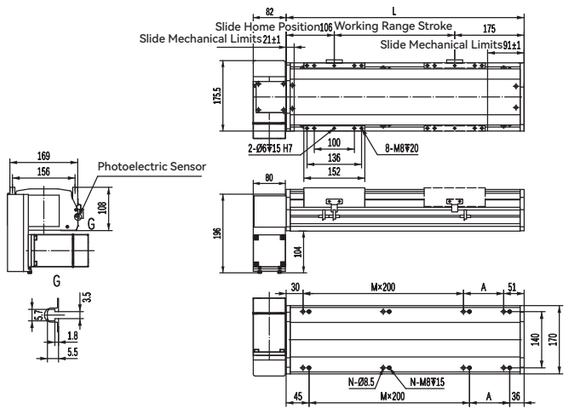
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	12.5	13.3	14.1	14.9	15.7	16.5	17.3	18.1	18.9	19.7	20.5	21.3	22.1	22.9	23.7	24.5	25.3	26.1	26.9	27.7	28.5	29.3	30.1	30.9	31.7	32.5	33.3	34.1	34.9	35.7

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.5	37.3	38.1	38.9	39.7	40.5	41.3	42.1	42.9	43.7	44.5	45.3	46.1	46.9	47.7	48.5	49.3	50.1	50.9	51.7	52.5	53.3	54.1	54.9	55.7	56.5	57.3	58.1	52.9	59.7

Sales Manager:manager@zjskt.com

LD Motor Lower Left

Unit:mm

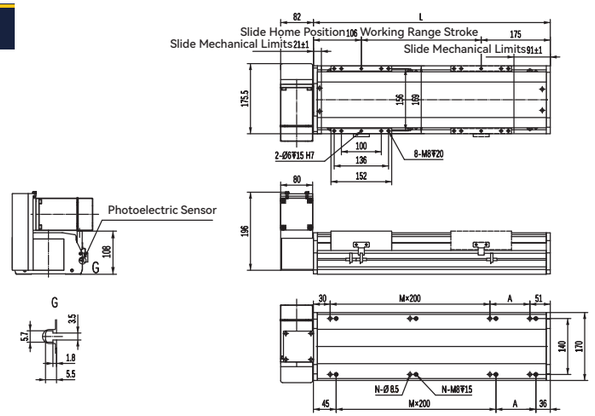


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	12.5	13.3	14.1	14.9	15.7	16.5	17.3	18.1	18.9	19.7	20.5	21.3	22.1	22.9	23.7	24.5	25.3	26.1	26.9	27.7	28.5	29.3	30.1	30.9	31.7	32.5	33.3	34.1	34.9	35.7

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.5	37.3	38.1	38.9	39.7	40.5	41.3	42.1	42.9	43.7	44.5	45.3	46.1	46.9	47.7	48.5	49.3	50.1	50.9	51.7	52.5	53.3	54.1	54.9	55.7	56.5	57.3	58.1	52.9	59.7

LU Motor Upper Left

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	12.5	13.3	14.1	14.9	15.7	16.5	17.3	18.1	18.9	19.7	20.5	21.3	22.1	22.9	23.7	24.5	25.3	26.1	26.9	27.7	28.5	29.3	30.1	30.9	31.7	32.5	33.3	34.1	34.9	35.7

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.5	37.3	38.1	38.9	39.7	40.5	41.3	42.1	42.9	43.7	44.5	45.3	46.1	46.9	47.7	48.5	49.3	50.1	50.9	51.7	52.5	53.3	54.1	54.9	55.7	56.5	57.3	58.1	52.9	59.7

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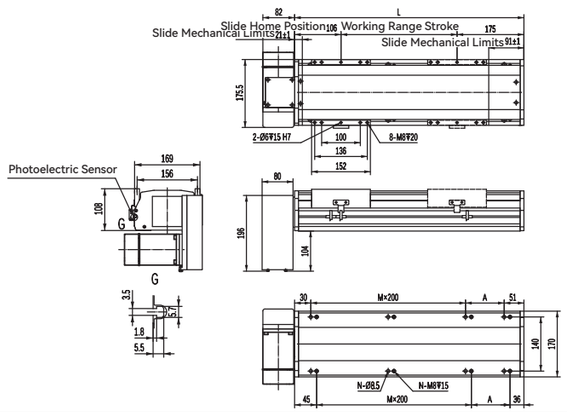
PBS170S 1-Axis

RD Motor Lower Right

Unit:mm

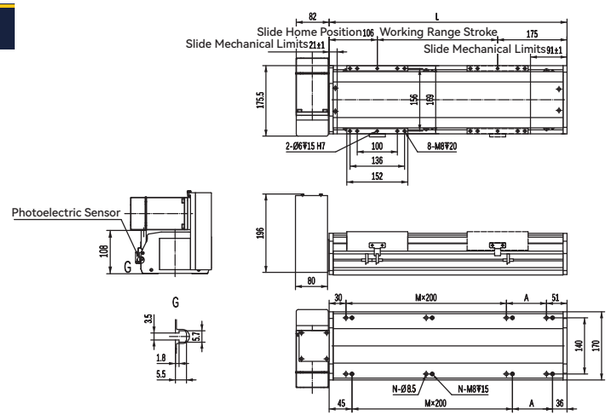


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	12.5	13.3	14.1	14.9	15.7	16.5	17.3	18.1	18.9	19.7	20.5	21.3	22.1	22.9	23.7	24.5	25.3	26.1	26.9	27.7	28.5	29.3	30.1	30.9	31.7	32.5	33.3	34.1	34.9	35.7

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.5	37.3	38.1	38.9	39.7	40.5	41.3	42.1	42.9	43.7	44.5	45.3	46.1	46.9	47.7	48.5	49.3	50.1	50.9	51.7	52.5	53.3	54.1	54.9	55.7	56.5	57.3	58.1	52.9	59.7

RU Motor Upper Right

Unit:mm



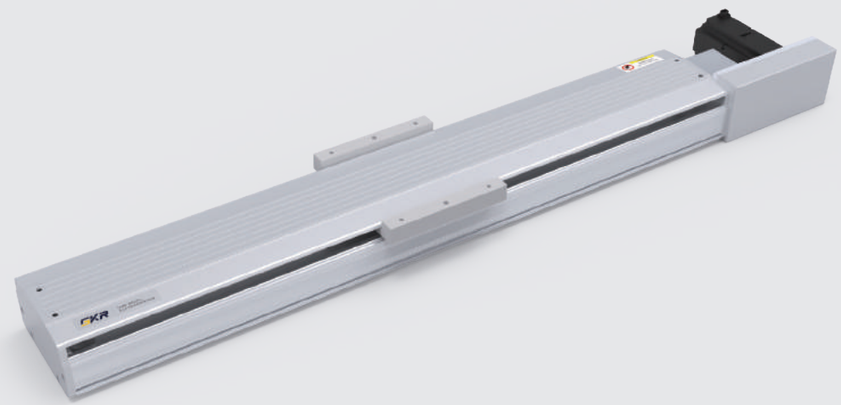
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	12.5	13.3	14.1	14.9	15.7	16.5	17.3	18.1	18.9	19.7	20.5	21.3	22.1	22.9	23.7	24.5	25.3	26.1	26.9	27.7	28.5	29.3	30.1	30.9	31.7	32.5	33.3	34.1	34.9	35.7

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1881	1931	1981	2031	2081	2131	2181	2231	2281	2331	2381	2431	2481	2531	2581	2631	2681	2731	2781	2831	2881	2931	2981	3031	3081	3131	3181	3231	3281	3331
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.5	37.3	38.1	38.9	39.7	40.5	41.3	42.1	42.9	43.7	44.5	45.3	46.1	46.9	47.7	48.5	49.3	50.1	50.9	51.7	52.5	53.3	54.1	54.9	55.7	56.5	57.3	58.1	52.9	59.7

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBS200 1-Axis

Timing Belt Drive



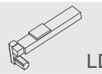
The picture is just for the reference.Please check the actual dimensions on the drawing.

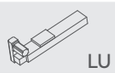
Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	2.39N·m	Belt Width	35mm	Linear Guide	20×15-2pcs

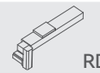
Motor Connection type

L

R

 LD

 LU

 RD

RU

Model Number Representation

PBS200 – R40 – S100 – L – T75B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

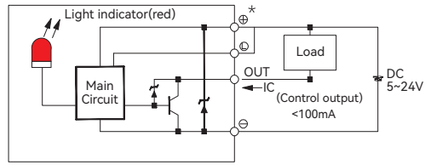
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

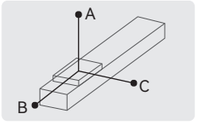
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	85
		Vertical(kg)	Disable
	Rate Thrust (N)		368
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750
	Timing Belt Width (mm)		35
	Linear Guide(mm)		W20×H15
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



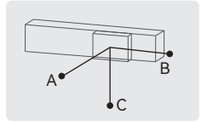
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P128 for standard stroke working speed.

Allowable Overhang



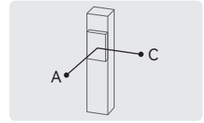
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	45kg	1588	600	349
	65kg	1052	328	285
	85kg	768	281	206



unit: mm

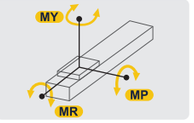
Wall Installation		A	B	C
Lead 40 mm	40kg	500	685	1805
	60kg	315	430	1152
	85kg	206	281	768



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	2052
MP	2052
MR	1810

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

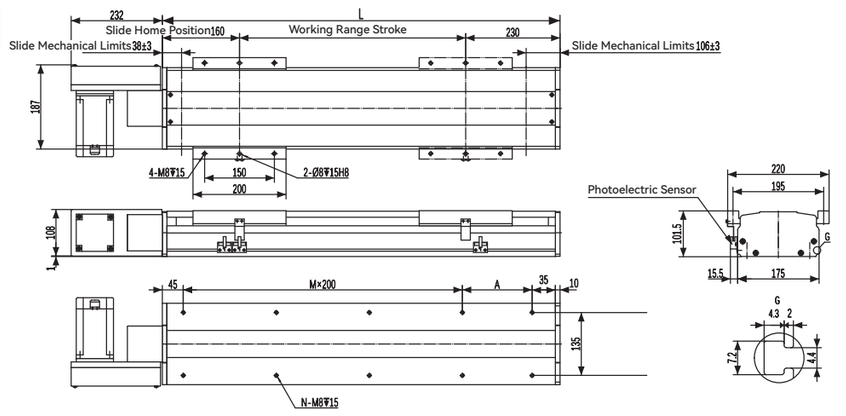
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

PBS200 1-Axis

L Left Linear Module

Unit:mm

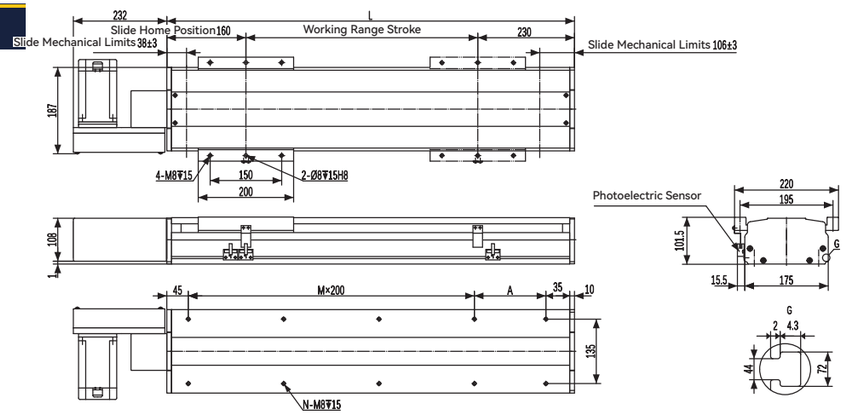


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390	3440
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
KG	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

R Right Linear Module

Unit:mm

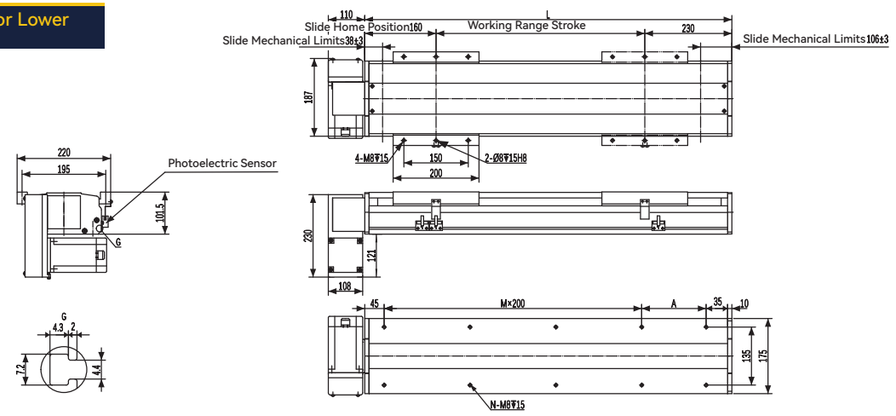


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390	3440
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
KG	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

LD Motor Lower Left

Unit:mm

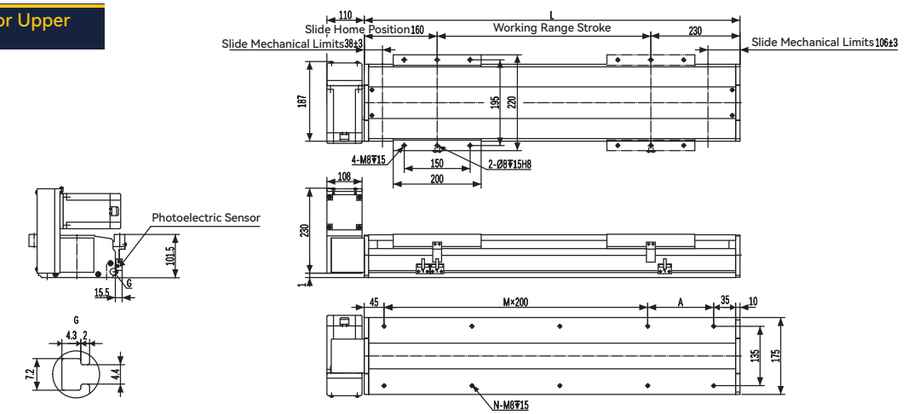


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390	3440
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
KG	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

LU Motor Upper Left

Unit:mm



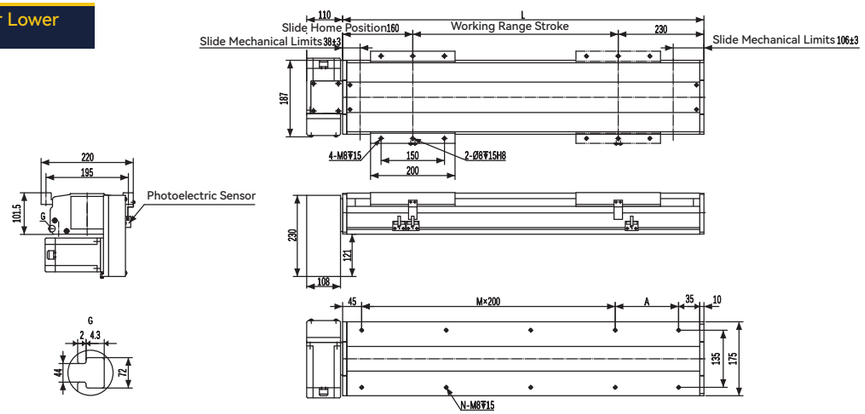
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390	3440
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
KG	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

PBS200 1-Axis

RD Motor Lower Right

Unit:mm

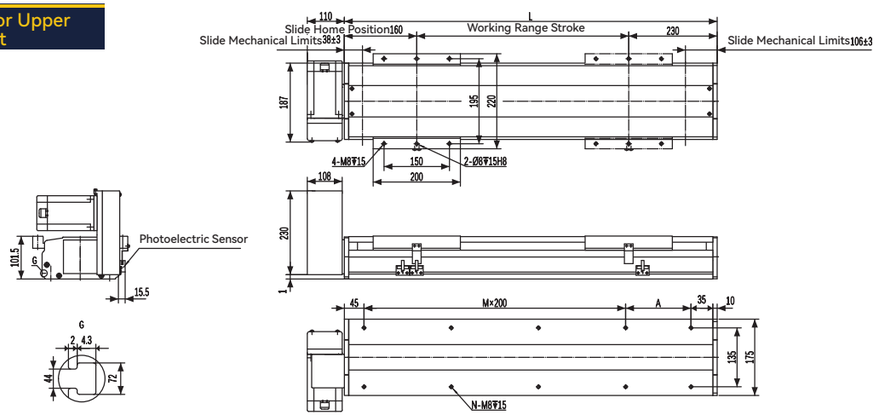


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390	3440
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
KG	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

RU Motor Upper Right

Unit:mm



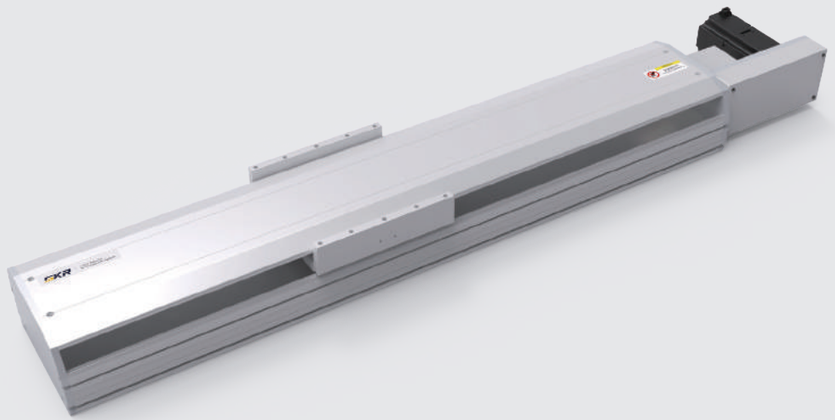
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390	3440
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
KG	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBS220 1-Axis

Timing Belt Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	2.39N·m	Belt Width	50mm	Linear Guide	23×18-2pcs

Motor Connection type

Model Number Representation

PBS220 – R40 – S100 – L – T75B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

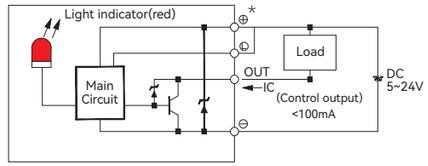
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

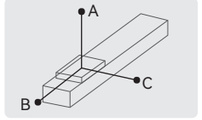
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	85
		Vertical(kg)	Disable
	Rate Thrust (N)		368
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750
	Timing Belt Width (mm)		50
	Linear Guide(mm)		W23×H18
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



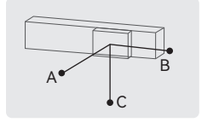
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P128 for standard stroke working speed.

Allowable Overhang



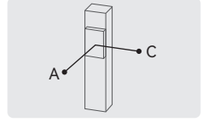
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	45kg	1588	600	349
	65kg	1052	328	285
	85kg	768	281	206



unit: mm

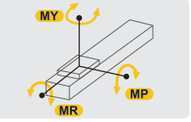
Wall Installation		A	B	C
Lead 40 mm	40kg	500	685	1805
	60kg	315	430	1152
	85kg	206	281	768



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	2052
MP	2052
MR	1810

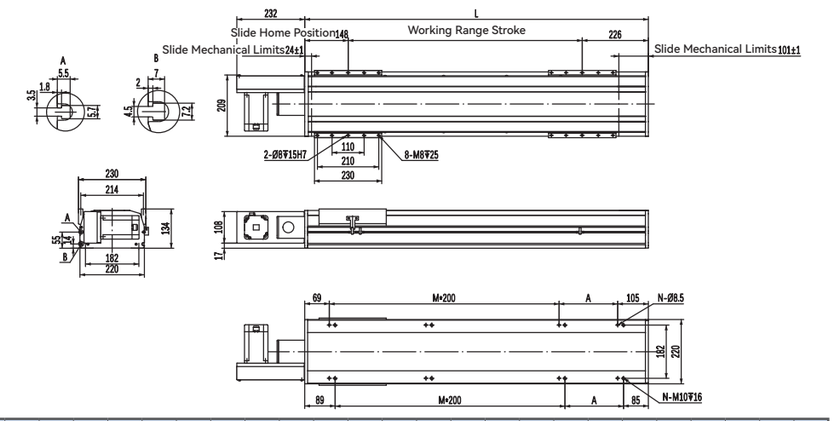
*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

L Left Linear Module

Unit:mm

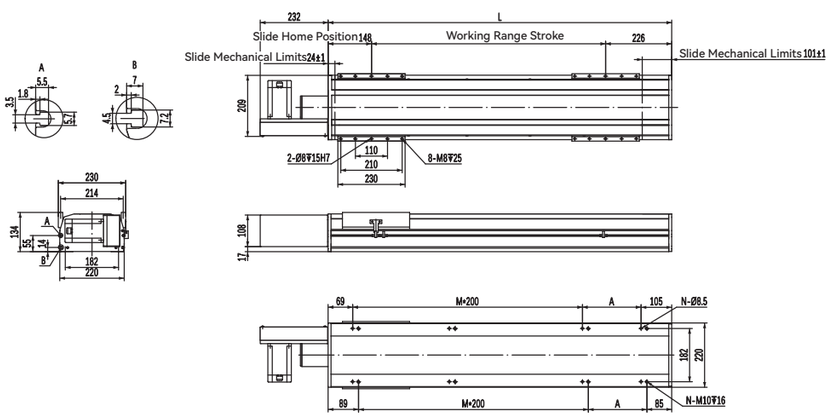


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.7	39.9	41.1	42.3	43.5	44.7	45.9	47.1	48.3	49.5	50.7	51.9	53.1	54.3	55.5	56.7	57.9	59.1	60.3	61.5	62.7	63.9	65.1

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1974	2024	2074	2124	2174	2224	2274	2324	2374	2424	2474	2524	2574	2624	2674	2724	2774	2824	2874	2924	2974	3024	3074	3124	3174	3224	3274	3324	3374	3424
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66.3	67.5	68.7	69.9	71.1	72.3	73.5	74.7	75.9	77.1	78.3	79.5	80.7	81.9	83.1	84.3	85.5	86.7	87.9	89.1	90.3	91.5	92.7	93.9	95.1	96.3	97.5	98.7	99.9	101.1

R Right Linear Module

Unit:mm

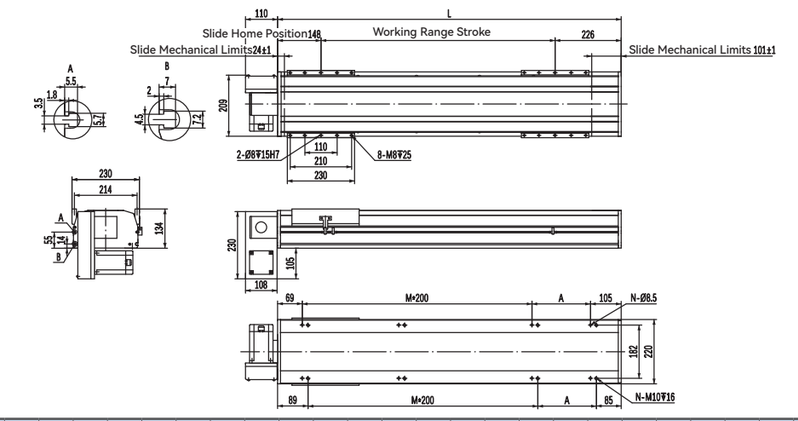


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.7	39.9	41.1	42.3	43.5	44.7	45.9	47.1	48.3	49.5	50.7	51.9	53.1	54.3	55.5	56.7	57.9	59.1	60.3	61.5	62.7	63.9	65.1

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1974	2024	2074	2124	2174	2224	2274	2324	2374	2424	2474	2524	2574	2624	2674	2724	2774	2824	2874	2924	2974	3024	3074	3124	3174	3224	3274	3324	3374	3424
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66.3	67.5	68.7	69.9	71.1	72.3	73.5	74.7	75.9	77.1	78.3	79.5	80.7	81.9	83.1	84.3	85.5	86.7	87.9	89.1	90.3	91.5	92.7	93.9	95.1	96.3	97.5	98.7	99.9	101.1

LD Motor Lower Left

Unit:mm

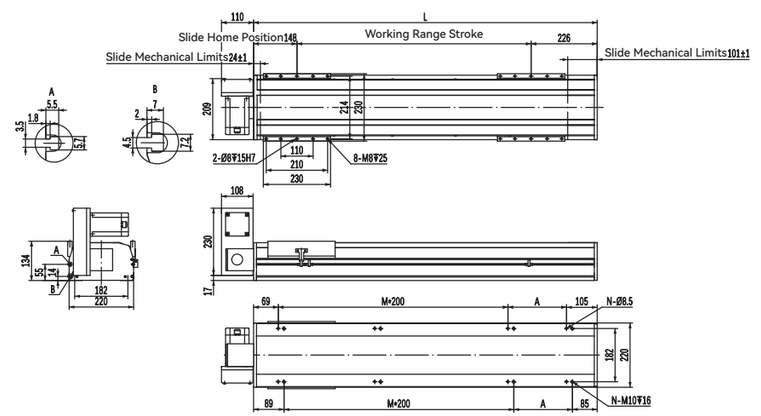


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.7	39.9	41.1	42.3	43.5	44.7	45.9	47.1	48.3	49.5	50.7	51.9	53.1	54.3	55.5	56.7	57.9	59.1	60.3	61.5	62.7	63.9	65.1

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1974	2024	2074	2124	2174	2224	2274	2324	2374	2424	2474	2524	2574	2624	2674	2724	2774	2824	2874	2924	2974	3024	3074	3124	3174	3224	3274	3324	3374	3424
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66.3	67.5	68.7	69.9	71.1	72.3	73.5	74.7	75.9	77.1	78.3	79.5	80.7	81.9	83.1	84.3	85.5	86.7	87.9	89.1	90.3	91.5	92.7	93.9	95.1	96.3	97.5	98.7	99.9	101.1

LU Motor Upper Left

Unit:mm



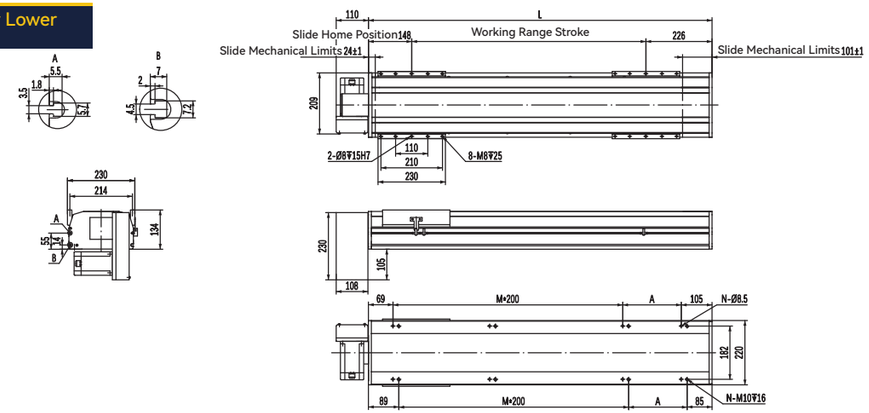
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.7	39.9	41.1	42.3	43.5	44.7	45.9	47.1	48.3	49.5	50.7	51.9	53.1	54.3	55.5	56.7	57.9	59.1	60.3	61.5	62.7	63.9	65.1

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1974	2024	2074	2124	2174	2224	2274	2324	2374	2424	2474	2524	2574	2624	2674	2724	2774	2824	2874	2924	2974	3024	3074	3124	3174	3224	3274	3324	3374	3424
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66.3	67.5	68.7	69.9	71.1	72.3	73.5	74.7	75.9	77.1	78.3	79.5	80.7	81.9	83.1	84.3	85.5	86.7	87.9	89.1	90.3	91.5	92.7	93.9	95.1	96.3	97.5	98.7	99.9	101.1

PBS220 1-Axis

RD Motor Lower Right

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
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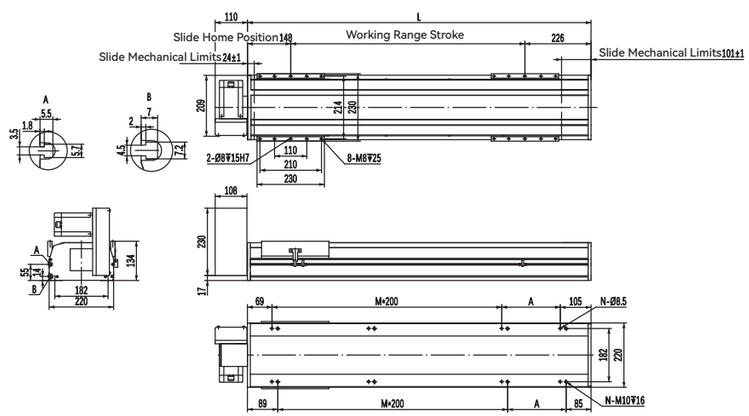
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.7	39.9	41.1	42.3	43.5	44.7	45.9	47.1	48.3	49.5	50.7	51.9	53.1	54.3	55.5	56.7	57.9	59.1	60.3	61.5	62.7	63.9	65.1

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1974	2024	2074	2124	2174	2224	2274	2324	2374	2424	2474	2524	2574	2624	2674	2724	2774	2824	2874	2924	2974	3024	3074	3124	3174	3224	3274	3324	3374	3424
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66.3	67.5	68.7	69.9	71.1	72.3	73.5	74.7	75.9	77.1	78.3	79.5	80.7	81.9	83.1	84.3	85.5	86.7	87.9	89.1	90.3	91.5	92.7	93.9	95.1	96.3	97.5	98.7	99.9	101.1

RU Motor Upper Right

Unit:mm

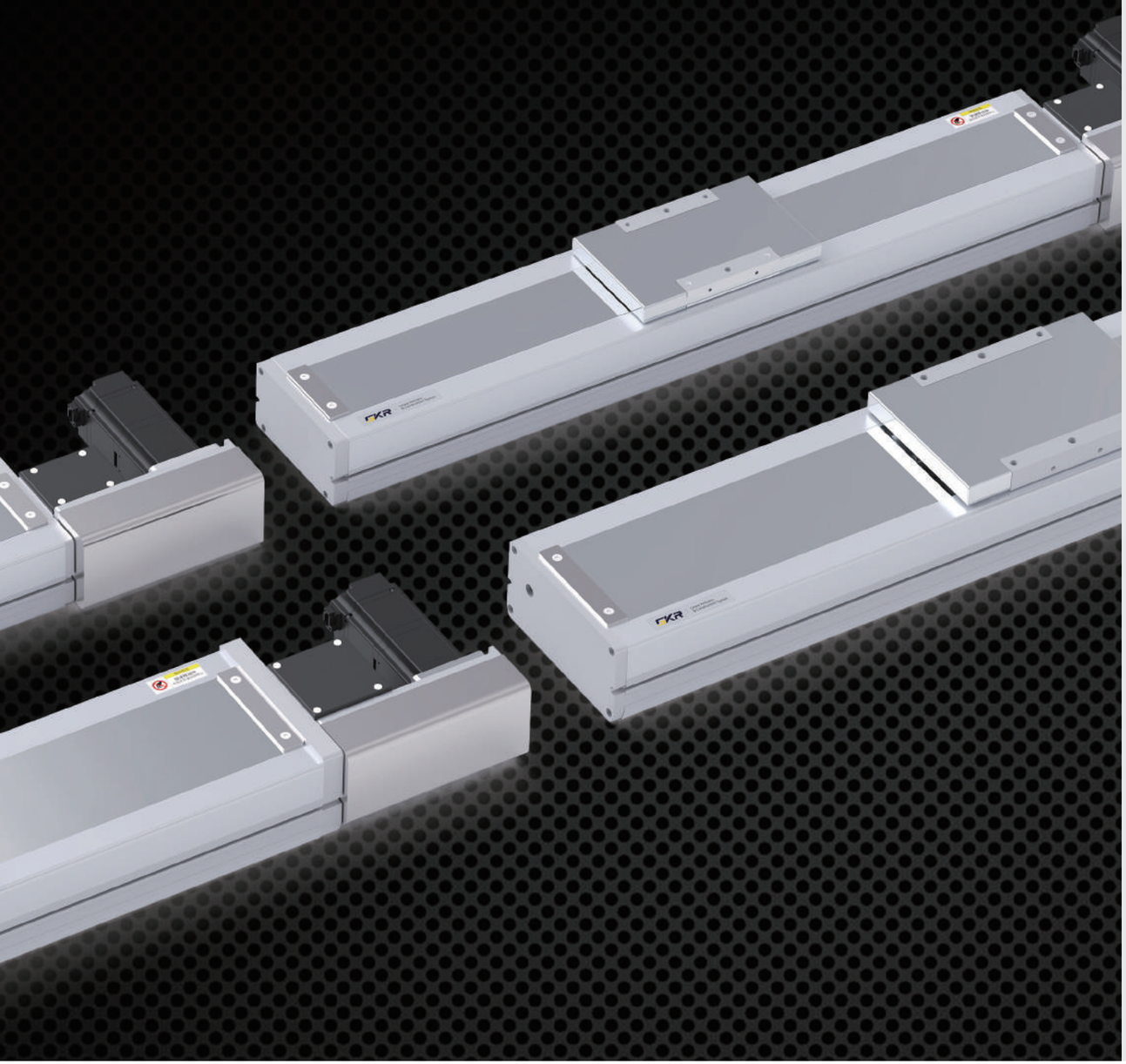


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.7	39.9	41.1	42.3	43.5	44.7	45.9	47.1	48.3	49.5	50.7	51.9	53.1	54.3	55.5	56.7	57.9	59.1	60.3	61.5	62.7	63.9	65.1

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1974	2024	2074	2124	2174	2224	2274	2324	2374	2424	2474	2524	2574	2624	2674	2724	2774	2824	2874	2924	2974	3024	3074	3124	3174	3224	3274	3324	3374	3424
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66.3	67.5	68.7	69.9	71.1	72.3	73.5	74.7	75.9	77.1	78.3	79.5	80.7	81.9	83.1	84.3	85.5	86.7	87.9	89.1	90.3	91.5	92.7	93.9	95.1	96.3	97.5	98.7	99.9	101.1

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBC Series
Linear Module Series
ECONOMIC TYPE/BEIT DRIVE
FULLY-ENCIOSED



Product Catalog

CONTENTS

PBC140

Maximum stroke 3050mm
Maximum load 35KG
Body height 91mm
Body width 135mm

····· 175

PBC170

Maximum stroke 3050mm
Maximum load 65KG
Body height 107mm
Body width 170mm

····· 181

Product Index

SPEC INDEX STANDARD BELT MODULE SERIESR

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Drive Spec		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Belt Width (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment	Belt	PBC140	400	135	±0.04	20	40	35	Disable	2000
		PBC170	750	170	±0.04	35	40	65	Disable	2000

Standard stroke and maximum operating speed"3 Represents working speed

Stroke (mm) & Maximum Speed (mm/s) speed

Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2150	2300	2450	2600	2750	2900	3050	3200	3350	Page
PBC140												2000																		175
PBC170												2000																		181

*Notes:

1.The rated speed is the speed at the motor's rated rotation (3000 r/min), or the speed limited by the ball screw's permissible rotation.

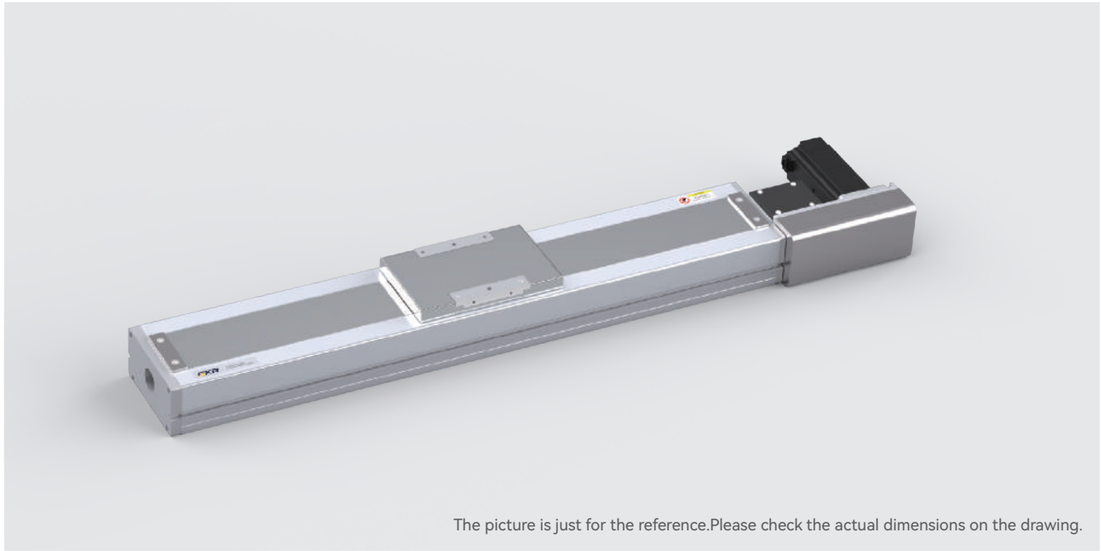
2. The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

3.The maximum speed for each stroke is the speed when the motor rotation is 3000 r/min. For longer strokes of ball screw driven models, abnormal noise and vibration may occur due to resonance when operating at maximum speed; the movement speed should be appropriately reduced.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PBC140 1-Axis

Timing Belt Drive



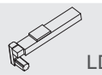
The picture is just for the reference.Please check the actual dimensions on the drawing.

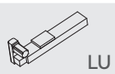
Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	1.27N·m	Belt Width	20mm	Linear Guide	15×12.5-2pcs

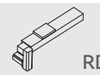
Motor Connection type

L

R

 LD

 LU

 RD

RU

Model Number Representation

PBC140–R40–S100 – L – T40B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

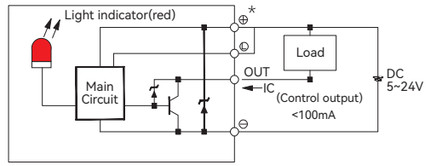
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

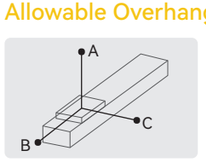
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	35
		Vertical(kg)	Disable
	Rate Thrust (N)		195
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400
	Timing Belt Width (mm)		20
	Linear Guide(mm)		W15×H12.5
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



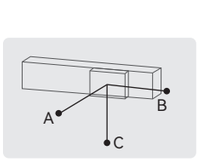
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P174 for standard stroke working speed.

Allowable Overhang



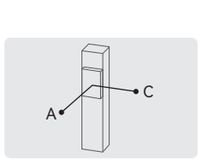
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	10kg	2700	1700	1050
	20kg	2100	850	650
	35kg	1700	600	500



unit: mm

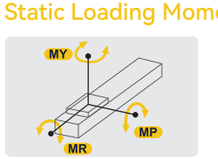
Wall Installation		A	B	C
Lead 40 mm	15kg	1070	1200	2000
	18kg	600	560	1500
	35kg	410	350	1150



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

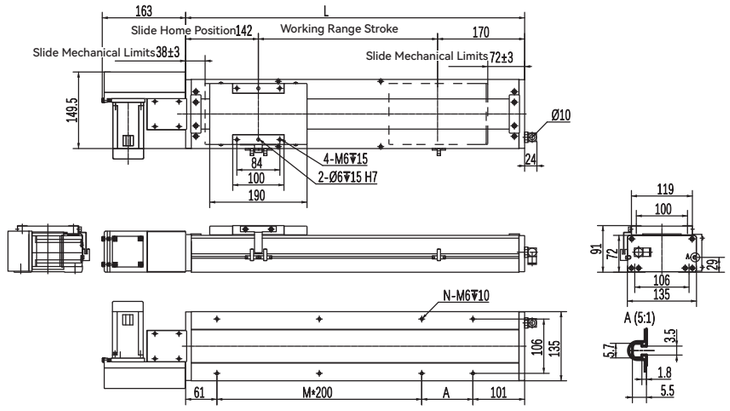
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

PBC140 1-Axis

L Left Linear Module

Unit:mm

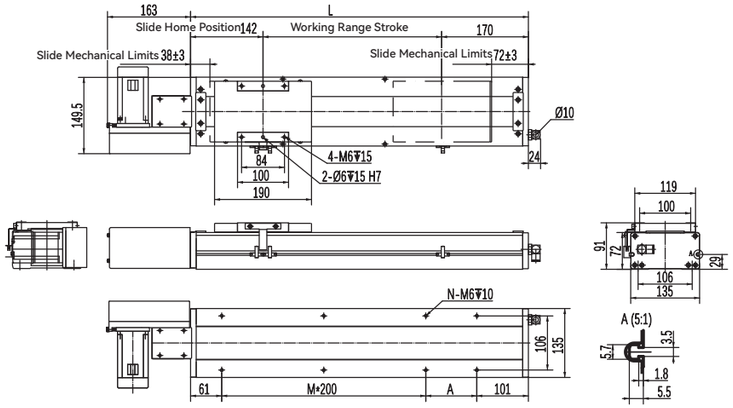


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462	1512	1562	1612	1662	1712	1762	1812	1862
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1912	1962	2012	2062	2112	2162	2212	2262	2312	2362	2412	2462	2512	2562	2612	2662	2712	2762	2812	2862	2912	2962	3012	3062	3112	3162	3212	3262	3312	3362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	26.1	26.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

R Right Linear Module

Unit:mm

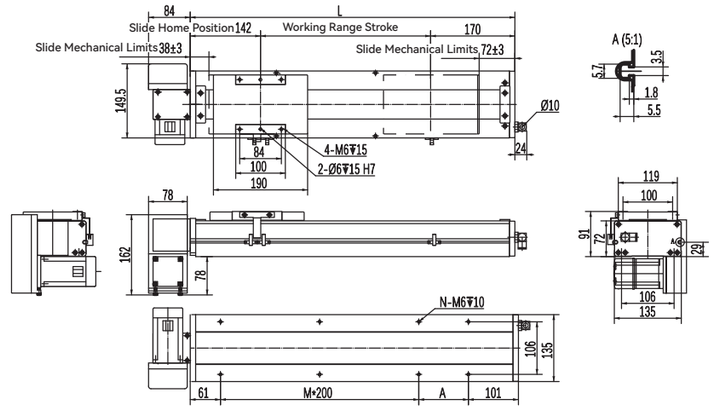


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462	1512	1562	1612	1662	1712	1762	1812	1862
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1912	1962	2012	2062	2112	2162	2212	2262	2312	2362	2412	2462	2512	2562	2612	2662	2712	2762	2812	2862	2912	2962	3012	3062	3112	3162	3212	3262	3312	3362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	26.1	26.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

LD Motor Lower Left

Unit:mm

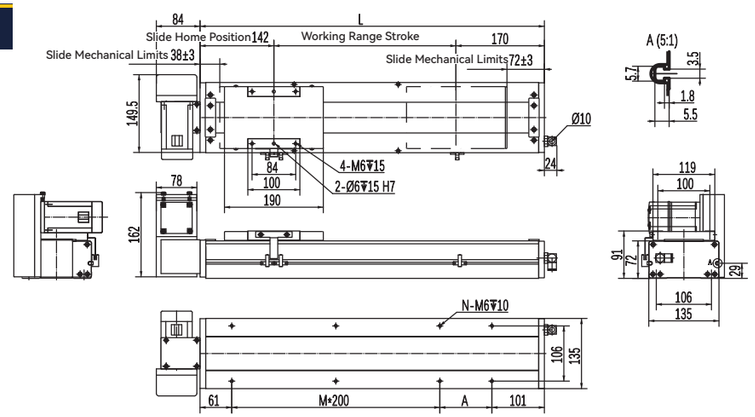


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462	1512	1562	1612	1662	1712	1762	1812	1862
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1912	1962	2012	2062	2112	2162	2212	2262	2312	2362	2412	2462	2512	2562	2612	2662	2712	2762	2812	2862	2912	2962	3012	3062	3112	3162	3212	3262	3312	3362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	27.5	26.1	26.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

LU Motor Upper Left

Unit:mm



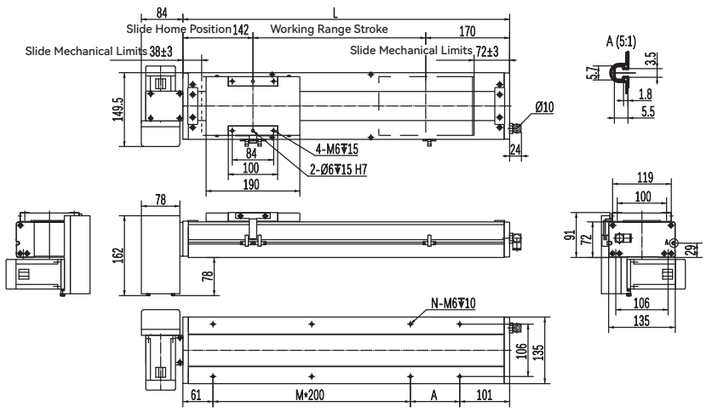
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462	1512	1562	1612	1662	1712	1762	1812	1862
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1912	1962	2012	2062	2112	2162	2212	2262	2312	2362	2412	2462	2512	2562	2612	2662	2712	2762	2812	2862	2912	2962	3012	3062	3112	3162	3212	3262	3312	3362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	26.1	26.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

PBC140 1-Axis

RD Motor Lower Right

Unit:mm

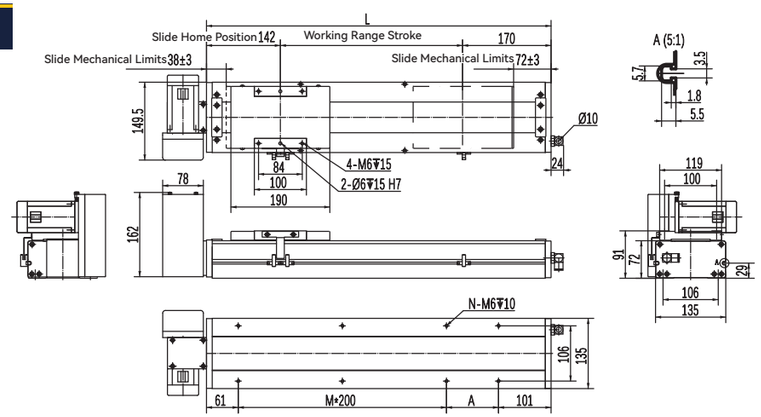


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462	1512	1562	1612	1662	1712	1762	1812	1862
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1912	1962	2012	2062	2112	2162	2212	2262	2312	2362	2412	2462	2512	2562	2612	2662	2712	2762	2812	2862	2912	2962	3012	3062	3112	3162	3212	3262	3312	3362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	26.1	26.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

RU Motor Upper Right

Unit:mm



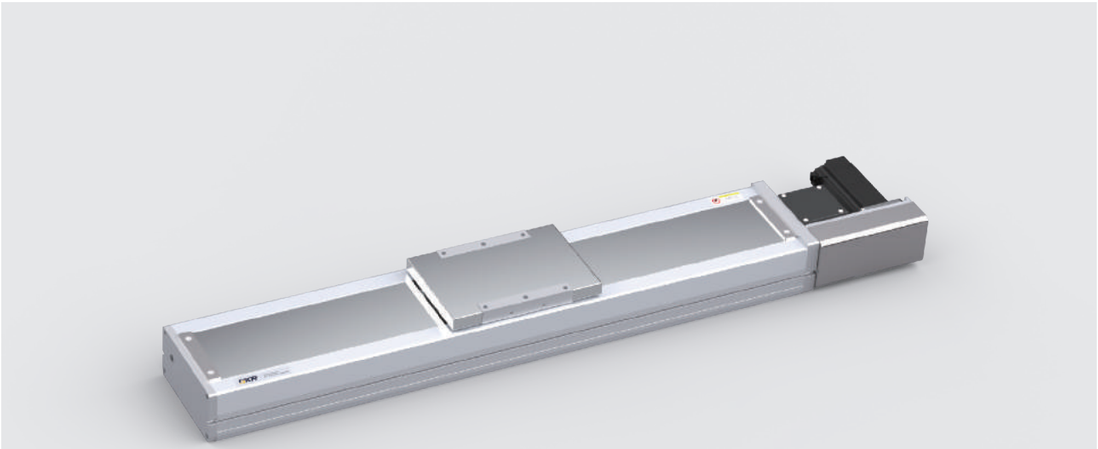
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462	1512	1562	1612	1662	1712	1762	1812	1862
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1912	1962	2012	2062	2112	2162	2212	2262	2312	2362	2412	2462	2512	2562	2612	2662	2712	2762	2812	2862	2912	2962	3012	3062	3112	3162	3212	3262	3312	3362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	26.1	26.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PBC170 1-Axis

Timing Belt Drive



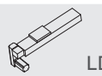
The picture is just for the reference.Please check the actual dimensions on the drawing.

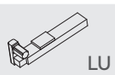
Maximum stroke	3050mm	Maximum speed	2000mm/s	Maximux Static Torque	2.39N·m	Belt Width	35mm	Linear Guide	20×15-2pcs

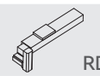
Motor Connection type

L

R

 LD

 LU

 RD

RU

Model Number Representation

PBC170–R40–S100 – L – T75B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

40	40mm

Maximum Stroke

Working Stroke Range	100 - 3050mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
R	Right Linear Module
LD	Motor Lower Left
LU	Motor Upper Left
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

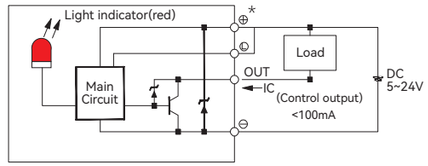
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

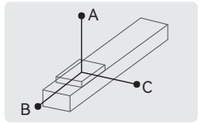
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	65
		Vertical(kg)	Disable
	Rate Thrust (N)		368
	Working Stroke Range (mm)		100~3050mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750
	Timing Belt Width (mm)		35
	Linear Guide(mm)		W20×H15
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



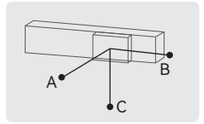
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P174 for standard stroke working speed.

Allowable Overhang



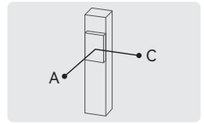
unit: mm

Horizontal Installation		A	B	C
Lead 40 mm	10kg	3000	1900	1300
	20kg	2300	1000	800
	30kg	2000	700	600
	65kg	900	320	290



unit: mm

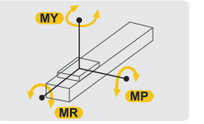
Wall Installation		A	B	C
Lead 40 mm	10kg	1300	1500	2300
	20kg	800	700	1750
	30kg	600	450	1350
	65kg	290	210	610



unit: mm

Vertical Installation	A	C
Lead 40 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

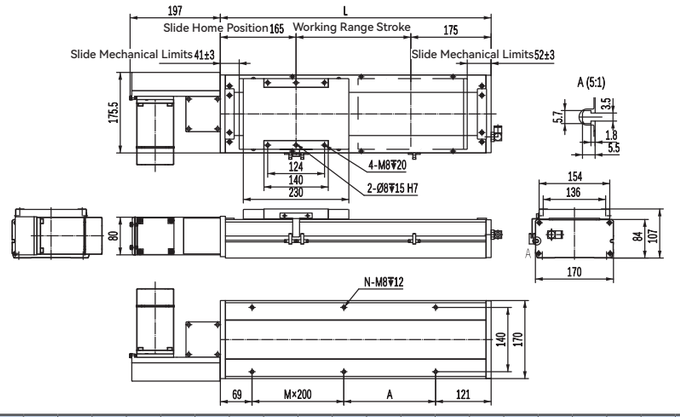
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

PBC170 1-Axis

L Left Linear Module

Unit:mm

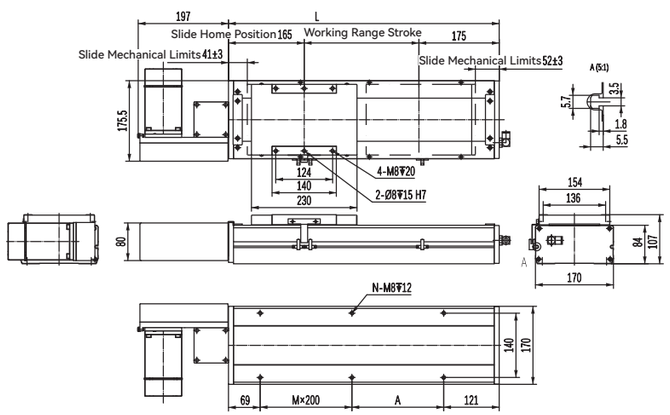


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1940	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

R Right Linear Module

Unit:mm



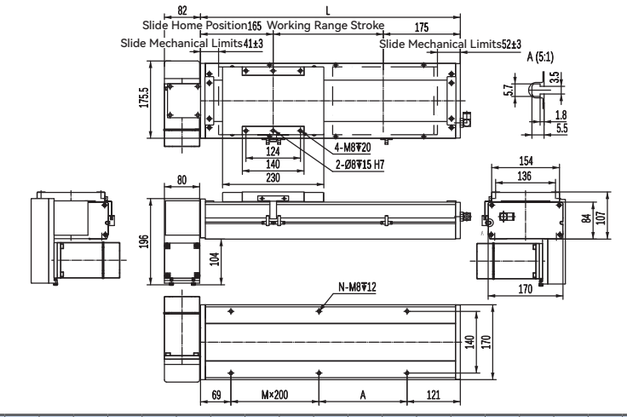
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1940	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

Sales Manager:manager@zjskt.com

LD Motor Lower Left

Unit:mm

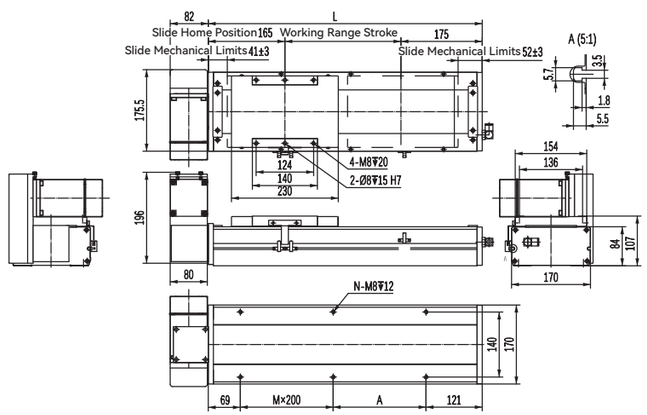


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1940	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

LU Motor Upper Left

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1940	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

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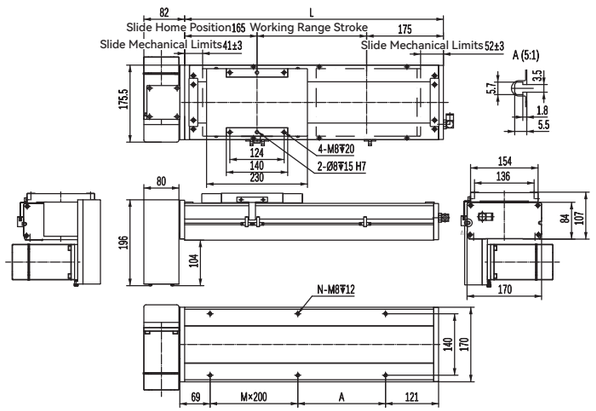
PBC170 1-Axis

RD Motor Lower Right

Unit:mm

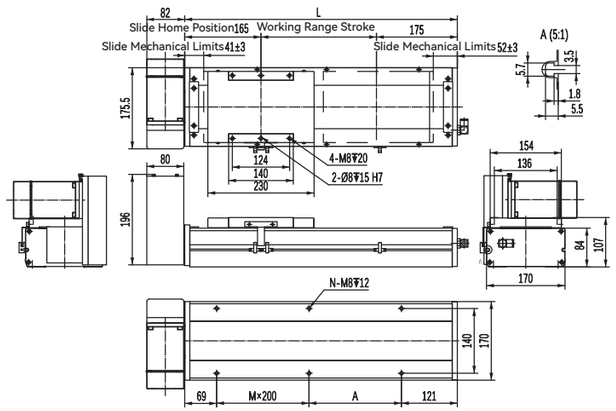


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1940	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

RU Motor Upper Right

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1940	1990	2040	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340	3390
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

PPS & PPB Series
Dual-Drive Differential Motion Linear Module Series

PRECISION TYPE/BALL SCREW DRIVE
BELT DRIVE/SEMI-ENCLOSED

Product Catalog

CONTENTS

PPS170

Maximum stroke 900mm
Maximum load 110KG
Body height 97mm
Body width 170mm

····· 191

PPB170

Maximum stroke 2650mm
Maximum load 20KG
Body height 97mm
Body width 170mm

····· 195

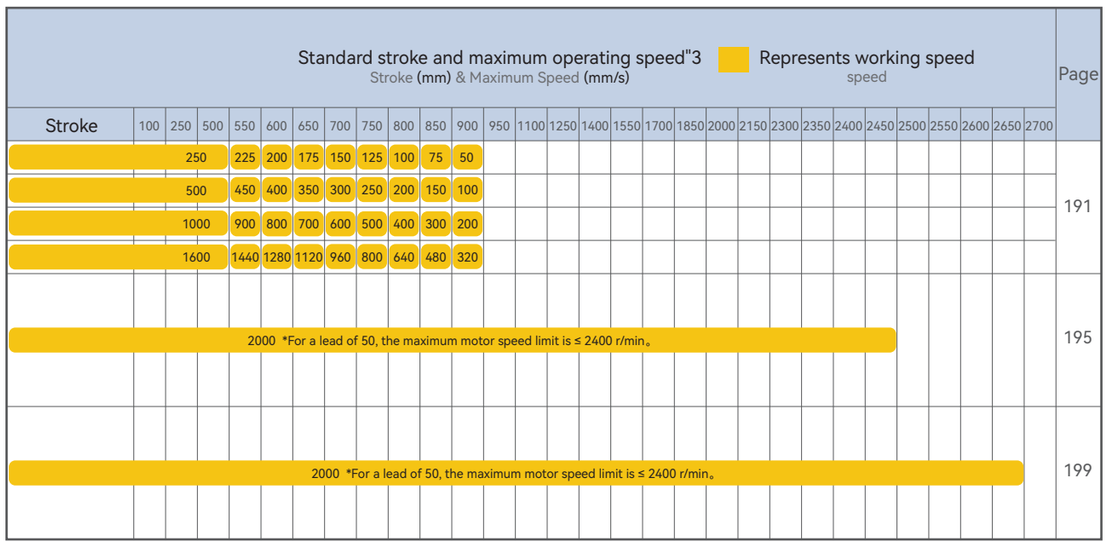
PPB140

Maximum stroke 2450mm
Maximum load 10KG
Body height 78mm
Body width 135mm

····· 199

Product Index

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Specification		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Dimensions (mm)	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment	Ball Screw	PPS170	400	170	±0.01	C7ø16	5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600
	Belt	PPB140	200	135	±0.04	15	50	10	Disable	2000
		PPB170	400	170	±0.04	20	50	20	Disable	2000



*Notes:

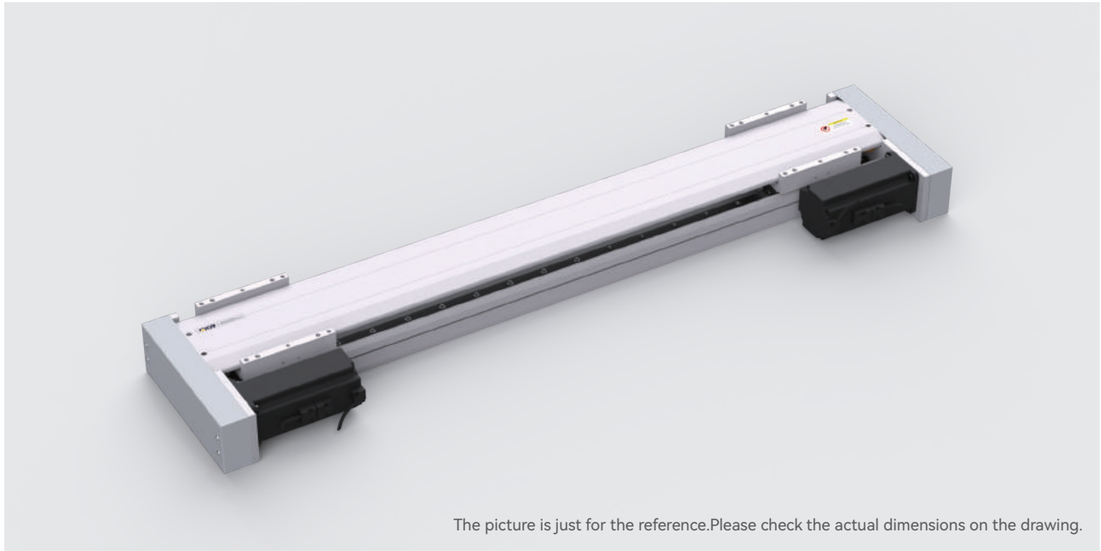
1. The rated speed is the speed at the motor's rated rotation (3000 r/min), or the speed limited by the ball screw's permissible rotation.

2. The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

3. The maximum speed for each stroke is the speed when the motor rotation is 3000 r/min. For longer strokes of ball screw driven models, abnormal noise and vibration may occur due to resonance when operating at maximum speed; the movement speed should be appropriately reduced. Due to the unique structure of the PPB products, it is necessary to reduce the motor's rotations for use; please refer to the data in the above table.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

PPS170 1-Axis



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	900mm
Maximum speed	1600mm/s
Maximux Static Torque	1.27N·m
Ball Screw	ø16mm-2pcs
Linear Guide	15×12.5-2pcs

Motor Connection type

BL

BR

BM

Model Number Representation

PPS170 – L05 – S100 – BL – T40B – C 1 – N

Model Number

Ball Screw Lead

05	5mm
10	10mm
20	20mm
32	32mm

Maximum Stroke

Working Stroke Range	100 - 900mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

BL	Left Linear Module
BR	Right Linear Module
BM	Under Linear Module

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

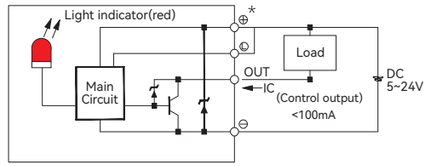
Endpoint Limit Sensor Configuration

1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Specification

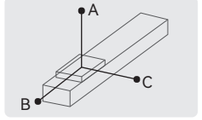
CAPABILITY	Repeatability (mm)		±0.01			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	110	88	40	30
		Vertical(kg)	33	22	10	8
	Rate Thrust (N)		1564	782	391	244
	Working Stroke Range (mm)		100~900mm / 50mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400			
	Ball Screw ø (mm)		C7ø16			
	Couping(mm)		W15×H12.5			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

Inductor Wiring Diagram (Origin and Endpoints)



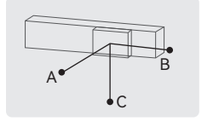
*When the srtoke is over 500mm,the run-out of the ballscrew will occur.We recommend to low down the working speed under this cicumstances.
*Acceleration and deacceleration value is set 0.2 second.
*Please refer to page P190 for standard stroke working speed.

Allowable Overhang



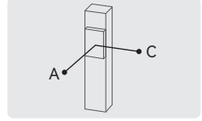
unit: mm

Horizontal Installation		A	B	C
Lead 5 mm	60kg	2512	242	232
	80kg	1811	172	164
	110kg	1284	114	108
Lead 10 mm	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122
Lead 20 mm	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233
Lead 32 mm	15kg	1033	545	405
	25kg	604	311	233
	30kg	495	251	188



unit: mm

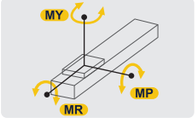
Wall Installation		A	B	C
Lead 5 mm	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
Lead 10 mm	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
Lead 20 mm	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
Lead 32 mm	15kg	405	545	1033
	30kg	188	251	495
	—	—	—	—



unit: mm

Vertical Installation		A	C
Lead 5 mm	15kg	1118	1118
	22kg	770	770
	33kg	513	513
Lead 10 mm	10kg	1500	1500
	14kg	1072	1072
	22kg	682	682
Lead 20 mm	7kg	1700	1700
	10kg	1188	1188
	—	—	—
Lead 32 mm	5kg	1503	1503
	8kg	944	944
	—	—	—

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	551
MP	552
MR	485

*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.
*Operation life is 10,000km when the product is using under the specified conditions.
*The torque value in the chart indicate the center of gravity.

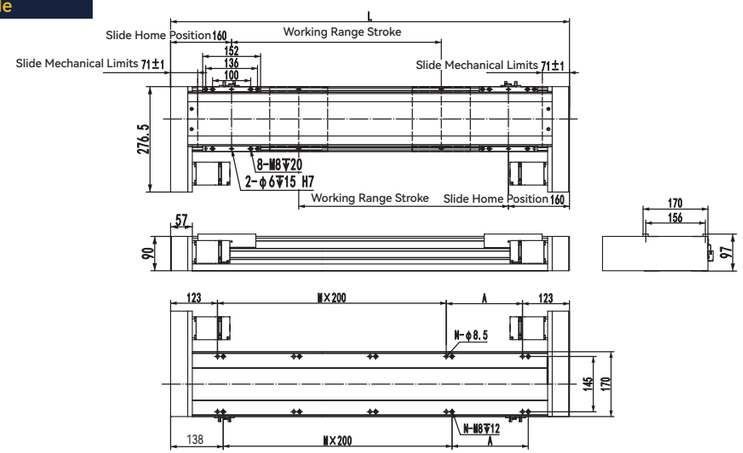
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

PPS170 1-Axis

BL Left Linear Module

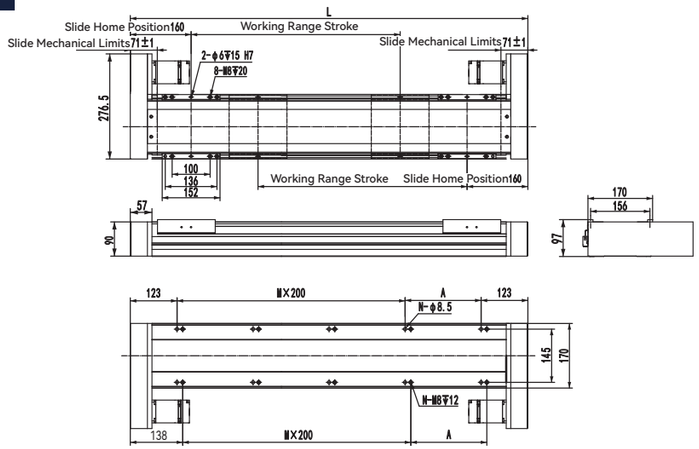
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
L	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	15	15.77	16.54	17.31	18.08	18.85	19.62	20.39	21.16	21.93	22.7	23.47	24.24	25.01	25.78	26.55	27.32

BR Right Linear Module

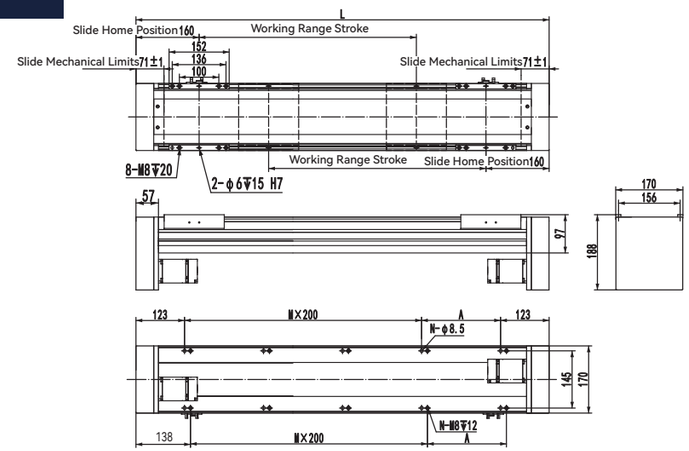
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
L	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	15	15.77	16.54	17.31	18.08	18.85	19.62	20.39	21.16	21.93	22.7	23.47	24.24	25.01	25.78	26.55	27.32

BM Under Linear Module

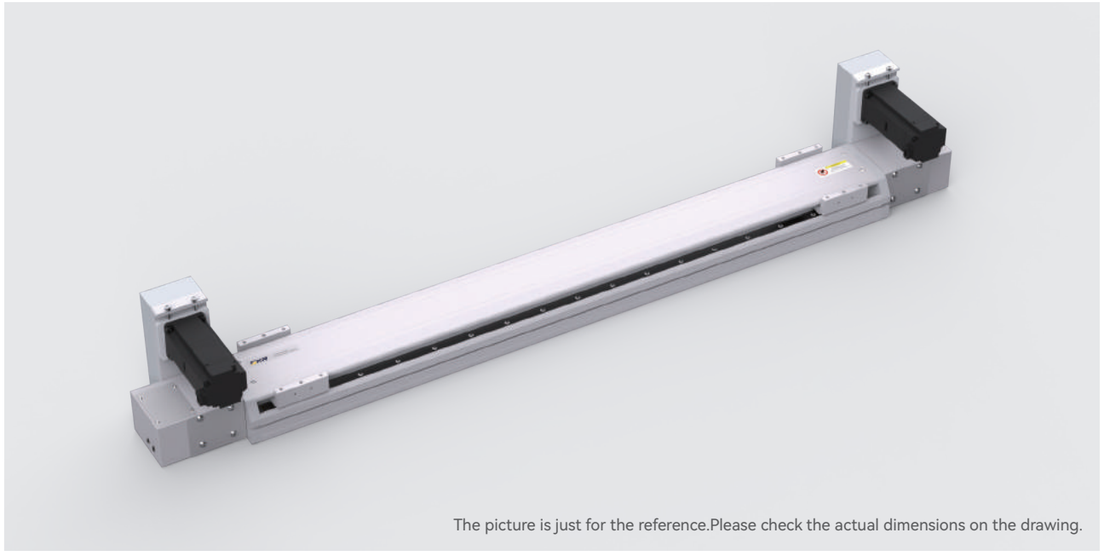
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
L	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	15	15.77	16.54	17.31	18.08	18.85	19.62	20.39	21.16	21.93	22.7	23.47	24.24	25.01	25.78	26.55	27.32

PPB140 1-Axis

Timing Belt Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	2450mm	Maximum speed	2000mm/s	Maximux Static Torque	0.64N·m	Belt Width	15mm-2pcs	Linear Guide	15×12.5-2pcs

Motor Connection type

L

RD

RU

Model Number Representation

PPB140 – R50 – S100 – L – T20B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

50	50mm

Maximum Stroke

Working Stroke Range	100 - 2450mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

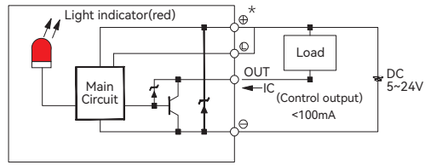
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

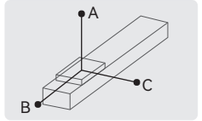
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		50
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	10
		Vertical(kg)	Disable
	Rate Thrust (N)		81
	Working Stroke Range (mm)		100~2450mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		200
	Timing Belt Width (mm)		15
	Linear Guide(mm)		W15×H12.5
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



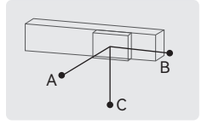
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P190 for standard stroke working speed.

Allowable Overhang



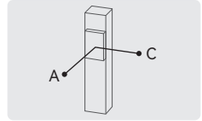
unit: mm

Horizontal Installation		A	B	C
Lead 50 mm	5kg	1000	350	600
	10kg	600	250	350



unit: mm

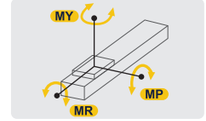
Wall Installation		A	B	C
Lead 50 mm	5kg	600	400	1000
	10kg	350	255	600



unit: mm

Vertical Installation		A	C
Lead 50 mm	Disable		

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	174
MP	175
MR	153

*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

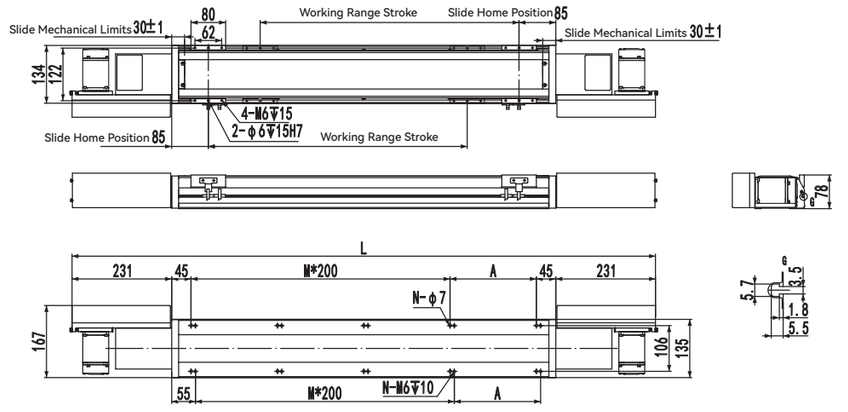
Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	200W	220V	ECMA-C20602RS	ASD-B2-0221-B
		With Brake (Vertical Type)	200W	220V	ECMA-C20602SS	ASD-B2-0221-B
Panasonic	P	Without Brake (Horizontal Type)	200W	220V	MHMF022L1U2M	MADLN15SG
		With Brake (Vertical Type)	200W	220V	MHMF022L1V2M	MADLN15SG
Yaskawa	Y	Without Brake (Horizontal Type)	200W	220V	SGM7J02AFC6S	SGD7S1R6A00A002
		With Brake (Vertical Type)	200W	220V	SGM7J02AFC6E	SGD7S1R6A00A002

PPB140 1-Axis

L Left Linear Module

Unit:mm

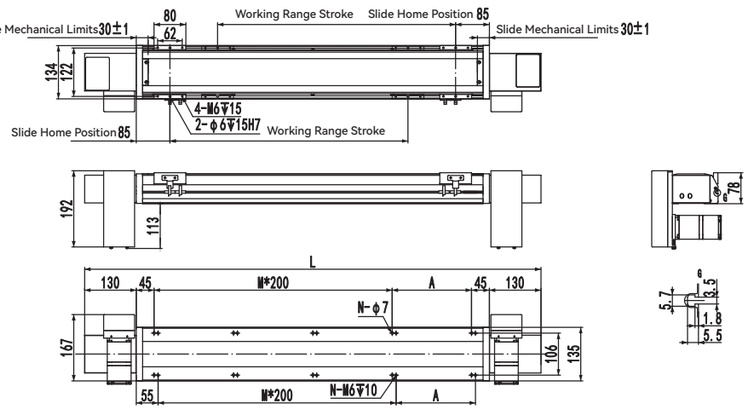


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	852	902	952	1002	1052	1102	1152	1202	1252	1302	1352	1402	1452	1502	1552	1602	1652	1702	1752	1802	1852	1902	1952	2002
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
KG	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26

Stroke	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450
L	2052	2102	2152	2202	2252	2302	2352	2402	2452	2502	2552	2602	2652	2702	2752	2802	2852	2902	2952	3002	3052	3102	3152	3202
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38

RD Motor Lower Right

Unit:mm

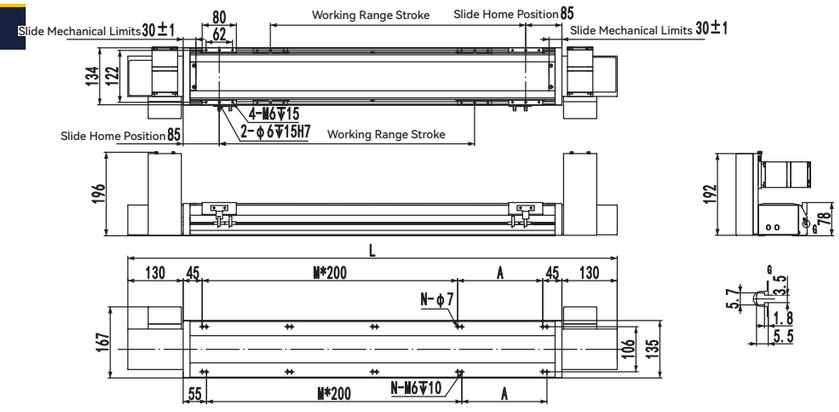


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
KG	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5

Stroke	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450
L	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5

RU Motor Upper Right

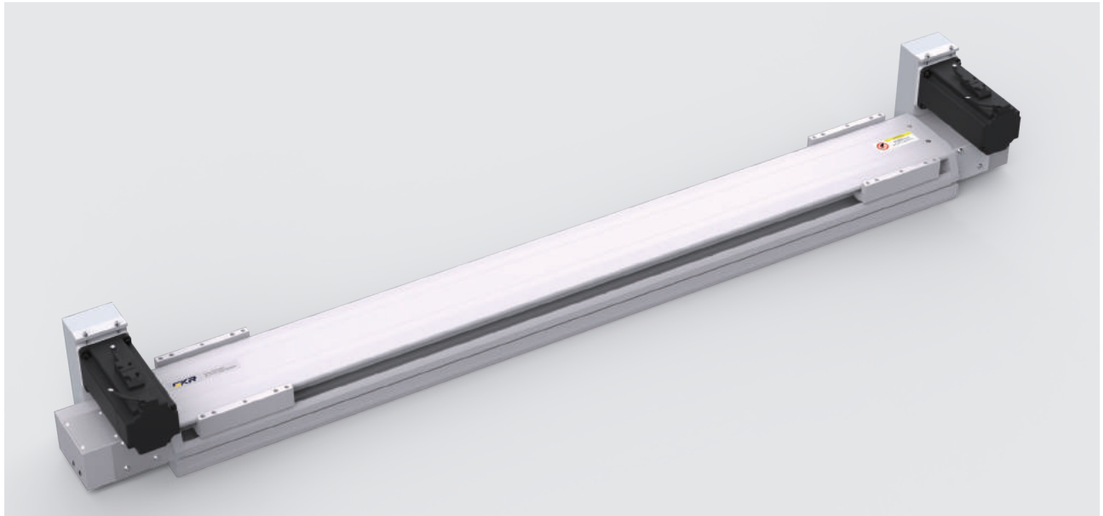
Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
KG	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5

Stroke	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450
L	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5

PPB170 1-Axis



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	2450mm
Maximum speed	2000mm/s
Maximux Static Torque	1.27N·m
Belt Width	20mm-2pcs
Linear Guide	20×15-2pcs

Motor Connection type

L

RD

RU

Model Number Representation

PPB170 - R50 - S100 – L – T40B – C 1 – N

Model Number

Timing Belt

P	polyurethane
R	rubber

lead

50	50mm

Maximum Stroke

Working Stroke Range	100 - 2450mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position

L	Left Linear Module
RD	Motor Lower Right
RU	Motor Upper Right

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Endpoint Limit Sensor Configuration

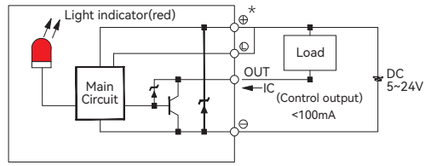
1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

Non-Standard Model

Specification

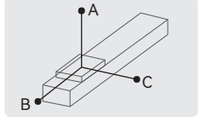
CAPABILITY	Repeatability (mm)		±0.04
	Lead (mm)		50
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal(kg)	20
		Vertical(kg)	Disable
	Rate Thrust (N)		160
	Working Stroke Range (mm)		100~2450mm / 50mm stroke
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400
	Timing Belt Width (mm)		20
	Linear Guide(mm)		W20×H15
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)

Inductor Wiring Diagram (Origin and Endpoints)



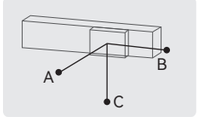
*Acceleration and deacceleration value is set 0.4 second.
*Please refer to page P174 for standard stroke working speed.

Allowable Overhang



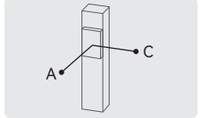
unit: mm

Horizontal Installation		A	B	C
Lead 50 mm	10kg	2000	800	700
	20kg	1500	500	450



unit: mm

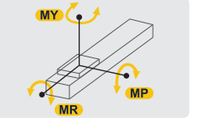
Wall Installation		A	B	C
Lead 50 mm	10kg	600	550	1400
	20kg	400	350	900



unit: mm

Vertical Installation	A	C
Lead 50 mm	Disable	

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1032
MP	1034
MR	908

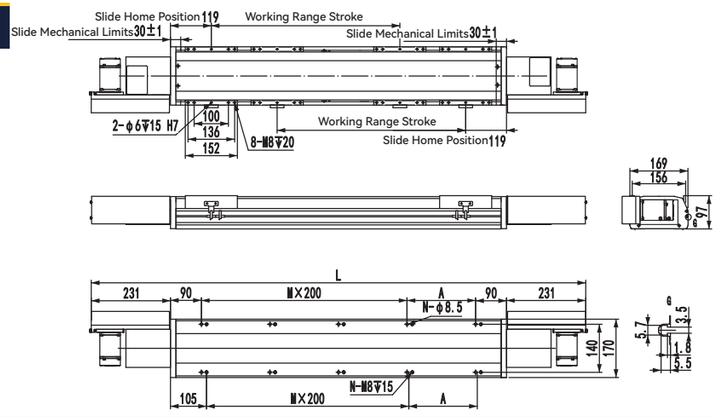
*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

L Left Linear Module

Unit:mm

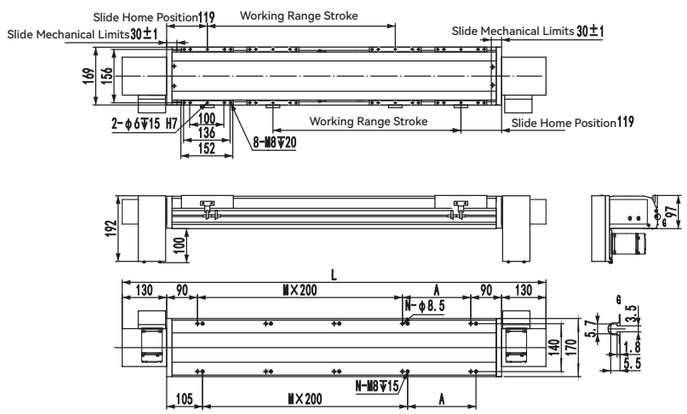


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592	1642	1692	1742	1792	1842	1892	1942	1992	2042	2092	2142	2192	2242
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18
KG	20	20.7	21.4	22.1	22.8	23.5	24.2	24.9	25.6	26.3	27	27.7	28.4	29.1	29.8	30.5	31.2	31.9	32.6	33.3	34	34.7	35.4	36.1	36.8	37.5

Stroke	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650
L	2292	2342	2392	2442	2492	2542	2592	2642	2692	2742	2792	2842	2892	2942	2992	3042	3092	3142	3192	3242	3292	3342	3392	3442	3492	3542
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14
N	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32
KG	38.2	38.9	39.6	40.3	41	41.7	42.4	43.1	43.8	44.5	45.2	45.9	46.6	47.3	48	48.7	49.4	50.1	50.8	51.5	52.2	52.9	53.6	54.3	55	55.7

RD Motor Lower Right

Unit:mm

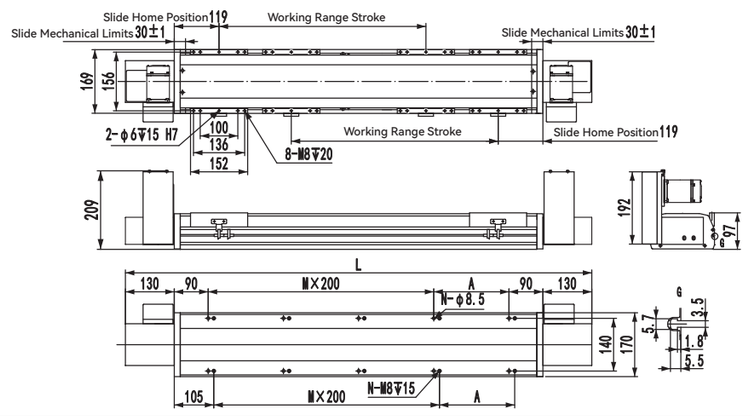


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	1
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18
KG	19.4	20.1	20.8	215	22.2	22.9	23.6	243	25	25.7	26.4	27.1	278	285	29.2	29.9	30.6	313	32	32.7	33.4	34.1	34.8	35.5	36.2	36.9

Stroke	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650
L	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14
N	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32
KG	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53	53.7	54.4	55.1

RU Motor Upper Right

Unit:mm



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	1
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18
KG	19.4	20.1	20.8	215	22.2	22.9	23.6	243	25	25.7	26.4	27.1	278	285	29.2	29.9	30.6	313	32	32.7	33.4	34.1	34.8	35.5	36.2	36.9

Stroke	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650
L	2090	2140	2190	2240	2290	2340	2390	2440	2490	2540	2590	2640	2690	2740	2790	2840	2890	2940	2990	3040	3090	3140	3190	3240	3290	3340
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14
N	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32
KG	37.6	38.3	39	39.7	40.4	41.1	41.8	42.5	43.2	43.9	44.6	45.3	46	46.7	47.4	48.1	48.8	49.5	50.2	50.9	51.6	52.3	53	53.7	54.4	55.1

SHS Series
Gear and Rack Drive Series
ECONOMIC TYPE/RACK AND PINION DRIVE
SEMI-ENCLOSED/FULLY-ENCLOSED

Product Catalog
CONTENTS

SHS14

Maximum stroke 3500mm
Maximum load 200KG
Body height 63mm
Body width 135mm
····· 207

SHS17

Maximum stroke 5500mm
Maximum load 250KG
Body height 79mm
Body width 170mm
····· 211

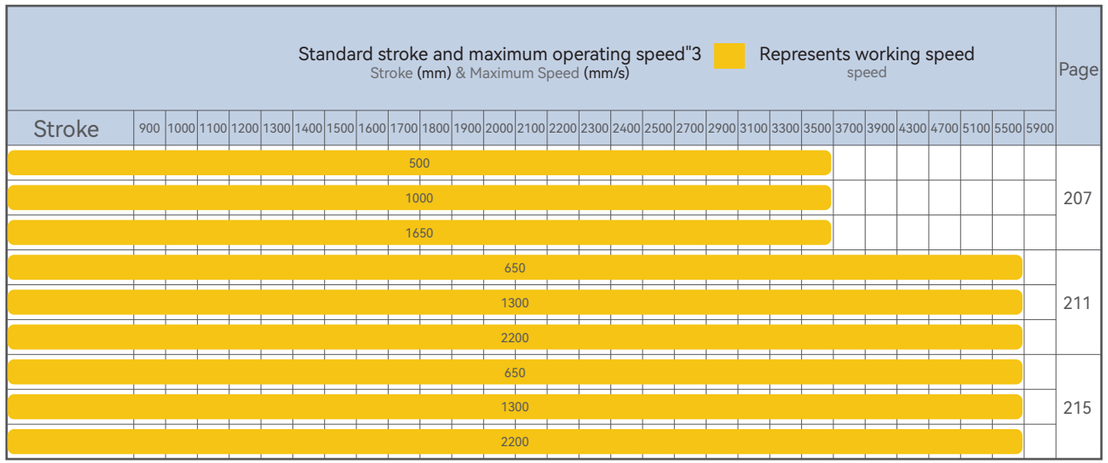
SHS22

Maximum stroke 5500mm
Maximum load 300KG
Body height 96mm
Body width 220mm
····· 215

Product Index

SPEC INDEX STANDARD RACK AND PINION MODULE SERIESR

Use Where	Driven Mode	Product Model	Motor Power (W)	Width (mm)	Positioning Precision (mm)	Rack and pinion Spec		Maximum Load Weight"2		Maximum speed"1 (mm/s)
						Rack Specifica-tion	Lead (mm)	Horizontal load(kg)	Vertical load(kg)	
General environment	Rack and pinion	SHS14	400	135	±0.02	1.5M	10	200	40	500
							20	110	30	1000
							33	70	20	1650
		SHS17	750	170	±0.02	2M	13	250	60	650
							26	135	40	1300
							44	85	25	2200
		SHS22	750	220	±0.02	2M	13	300	80	650
							26	160	50	1300
							44	100	30	2200



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*Notes:

1.The rated speed is the speed at the motor's rated rotation (3000 r/min).

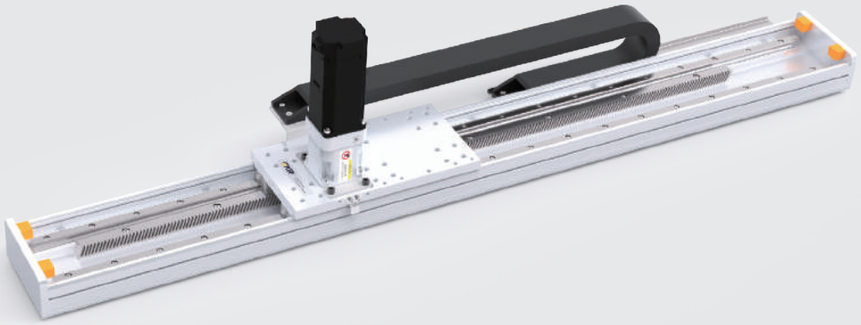
2. The maximum load weight is the mass at rated rotation when the acceleration is 0.3G (or 0.15G when the ball screw lead is 5mm or less). If within the range of maximum load weight, it can be transported at this speed, regardless of the load weight. However, as the weight increases, the acceleration and deceleration curves become more gradual. If the movement distance is short, the maximum indicated speed may not be reached.

3. The maximum speed for all strokes corresponds to a motor rotation speed of 3000 r/min. Please note that if the product is damaged due to non-compliance with the defined restrictions on motor rotations, we will be unable to provide warranty services.

4. Stroke refers to the maximum travel distance that our standard products can achieve. Please consult our sales staff if you have special requirements.

SHS14 1-Axis

Rack and pinion Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	3500mm	Maximum speed	1650mm/s	Maximux Static Torque	1.27N·m
Rack Specification	1.5M	Linear Guide	15×12.5-2支		
Motor Connection type	BC				

Model Number Representation

SHS14A – L10 – S900 – BC – T40B – C 1 – N

Model Number

Slider Type
- A Standard
- B Dustproof

Rock and Pinion Lead
- 10 10mm
- 20 20mm
- 33 33mm

Maximum Stroke

A Standard type	900 - 3500mm
B Dustproof type	600 - 2500mm
Interval within the Effective Stroke Range	100mm stroke

Motor Position
- BC Motor Direct Connection

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

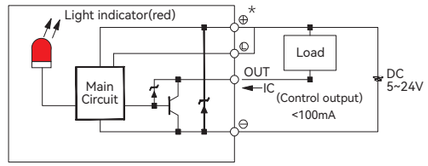
Non-Standard Model

Specification

CAPABILITY	Repeatability (mm)		±0.02			
	Rack and Pinion Lead (mm) *		10	20	33	
	Maximum Speed (mm/s) *		500	1000	1650	
	Maximum Payload	Horizontal(kg)	200	110	70	
		Vertical(kg)	40	30	20	
	Reducer Speed Ratio *		1/10	1/5	1/3	
	Rate Thrust (N)		833	416	250	
	Type A Working Stroke Range (mm)		900~3500mm / 100mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		400			
	Linear Guide(mm)		W15×H12.5			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

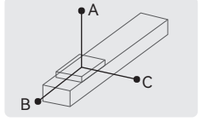
The actual lead per gear revolution is 99.96 mm. The correct calculation method is: Lead ÷ Reduction Ratio × Motor RPM = Actual Speed.

Inductor Wiring Diagram (Origin and Endpoints)



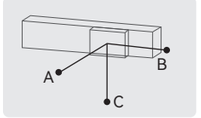
*Please refer to page P206 for standard stroke working speed.

Allowable Overhang



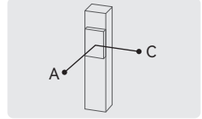
unit: mm

Horizontal Installation		A	B	C
Lead 10 mm	100kg	867	173	156
	150kg	567	113	101
	200kg	420	85	75
Lead 20 mm	55kg	788	157	142
	80kg	530	107	96
	110kg	382	77	69
Lead 33 mm	30kg	723	144	130
	50kg	308	85	77
	70kg	300	60	55



unit: mm

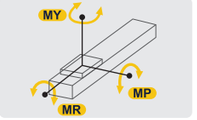
Wall Installation		A	B	C
Lead 10 mm	100kg	173	200	867
	150kg	113	131	567
	200kg	85	98	420
Lead 20 mm	55kg	256	269	1261
	80kg	172	182	849
	110kg	124	130	611
Lead 33 mm	30kg	341	360	1444
	50kg	200	212	849
	70kg	142	150	601



unit: mm

Vertical Installation		A	C
Lead 10 mm	20kg	1000	810
	30kg	654	519
	40kg	485	381
Lead 20 mm	10kg	1625	1317
	20kg	797	632
	30kg	525	413
Lead 33 mm	5kg	2363	1915
	10kg	1158	919
	20kg	573	450

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	716
MP	718
MR	631

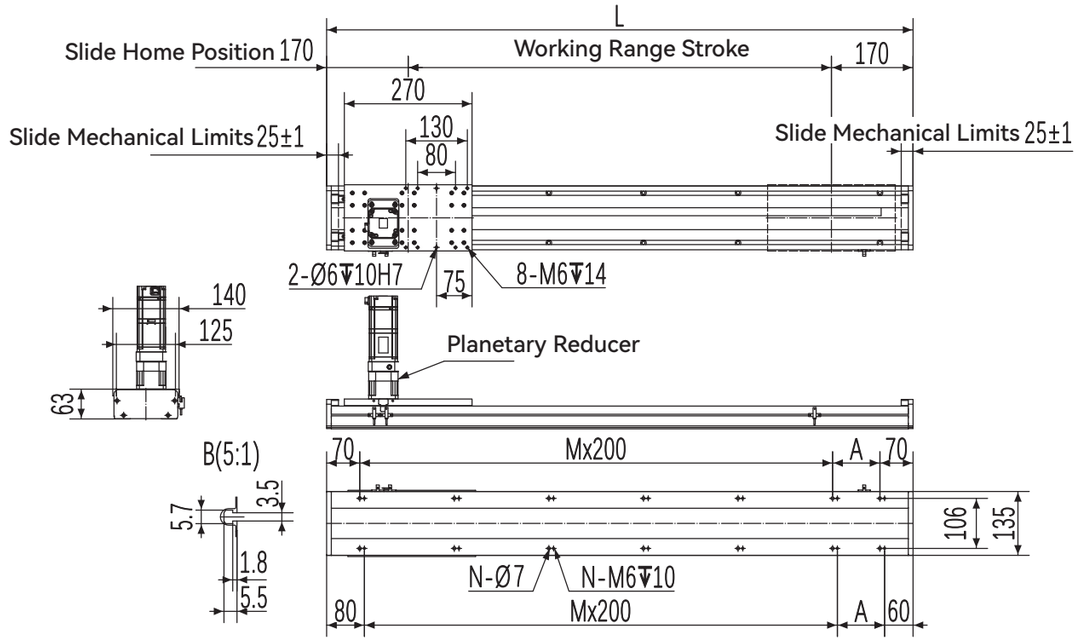
*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	400W	220V	ECMA-C20604RS	ASD-B2-0421-B
		With Brake (Vertical Type)	400W	220V	ECMA-C20604SS	ASD-B2-0421-B
Panasonic	P	Without Brake (Horizontal Type)	400W	220V	MHMF042L1U2M	MBDLN25SG
		With Brake (Vertical Type)	400W	220V	MHMF042L1V2M	MBDLN25SG
Yaskawa	Y	Without Brake (Horizontal Type)	400W	220V	SGM7J04AFC6S	SGD7S2R8A00A002
		With Brake (Vertical Type)	400W	220V	SGM7J04AFC6E	SGD7S2R8A00A002

A Standard

Unit:mm

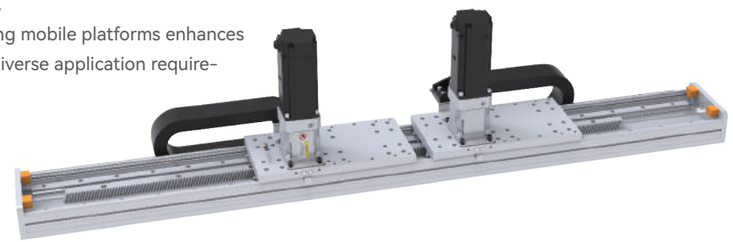


Stroke	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
L	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540	3640	3740	3840
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40
KG	17.5	18.75	20	21.25	22.5	23.75	25	26.25	27.5	28.75	30	31.25	32.5	33.75	35	36.25	37.5	38.75	40	41.25	42.5	43.75	45	46.25	47.5	48.75	50

Introduction to Customizable Solutions: Multiple Load-Carrying Mobile Platforms

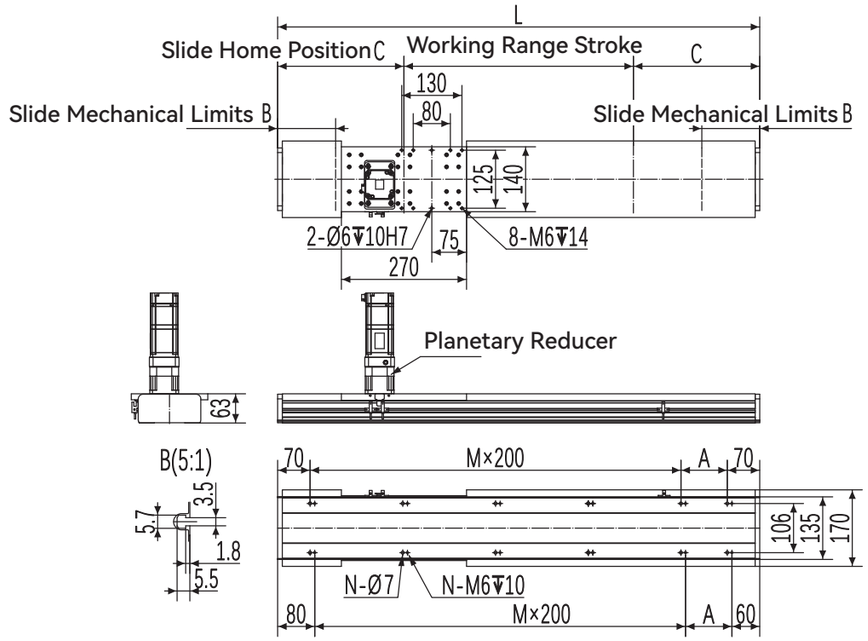
Upgrade Configuration:

The addition of several load-carrying mobile platforms enhances the system's adaptability to meet diverse application requirements.



B Dustproof

Unit:mm



Stroke	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	1240	1384	1528	1674	1818	1962	2106	2250	2396	2540	2684	2828	2974	3118	3262	3406	3550	3696	3840	3984
A	100	44	188	134	78	222	166	110	56	200	144	88	234	178	122	66	210	156	100	44
M	5	6	6	7	8	8	9	10	11	11	12	13	13	14	15	16	16	17	18	19
N	14	16	16	18	20	20	22	24	26	26	28	30	30	32	34	36	36	38	40	42
B	180	202	224	247	269	291	313	335	358	380	402	424	447	469	491	513	535	558	580	602
C	320	342	364	387	409	431	453	475	498	520	542	564	587	609	631	653	675	698	720	742
KG	17.5	19.3	21.1	22.93	24.73	26.53	28.33	30.13	31.95	33.75	35.55	37.35	39.18	40.98	42.78	44.58	46.38	48.2	50	51.8

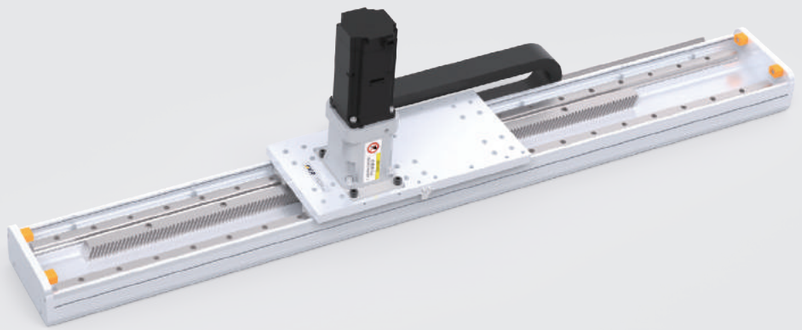
Type B Dust-Proof Product Visualization:

Upgrade Configuration:

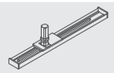
Includes the integration of a flexible accordion protective cover, enhancing its suitability for various environmental conditions.

SHS17 1-Axis

Rack and pinion Drive



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	5500mm	Maximum speed	2200mm/s	Maximux Static Torque	2.39N·m
Rack Specification	2M	Linear Guide	20×19-2支		
Motor Connection type	 BC				

Model Number Representation

SHS17A – L13 – S900 – BC – T75B – C 1 – N

Model Number

Slider Type
- A Standard
- B Dustproof

Rock and Pinion Lead
- 13 13mm
- 26 26mm
- 44 44mm

Maximum Stroke

A Standard type	900 - 5500mm
B Dustproof type	600 - 4000mm
Interval within the Effective Stroke Range	100mm stroke

Motor Position
- BC Motor Direct Connection

Motor Brand 、 Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

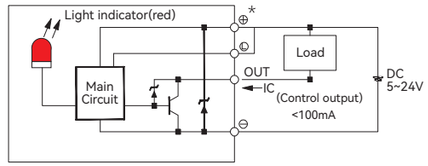
Non-Standard Model

Specification

CAPABILITY	Repeatability (mm)		±0.02			
	Rack and Pinion Lead (mm) *		13	26	44	
	Maximum Speed (mm/s) *		650	1300	2200	
	Maximum Payload	Horizontal(kg)	250	135	85	
		Vertical(kg)	60	40	25	
	Reducer Speed Ratio *		1/10	1/5	1/3	
	Rate Thrust (N)		1133	566	340	
	Type A Working Stroke Range (mm)		900~5500mm / 100mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750			
	Linear Guide(mm)		W20×H19			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

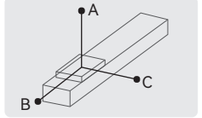
The actual lead per gear revolution is 133.2 mm. The correct calculation method is: Lead ÷ Reduction Ratio × Motor RPM = Actual Speed.

Inductor Wiring Diagram (Origin and Endpoints)



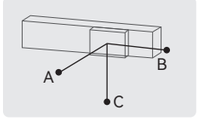
*Please refer to page P206 for standard stroke working speed.

Allowable Overhang



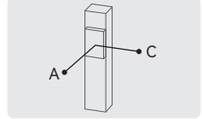
unit: mm

Horizontal Installation		A	B	C
Lead 13 mm	100kg	1300	260	195
	200kg	637	127	96
	300kg	420	85	64
Lead 26 mm	40kg	1625	533	415
	80kg	797	261	203
	160kg	394	129	100
Lead 44 mm	30kg	1083	433	358
	50kg	637	255	211
	100kg	316	126	104



unit: mm

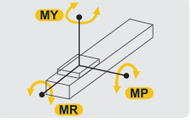
Wall Installation		A	B	C
Lead 13 mm	100kg	300	300	1300
	200kg	147	147	637
	300kg	98	98	420
Lead 26 mm	40kg	610	555	2600
	80kg	299	272	1274
	160kg	148	135	631
Lead 44 mm	30kg	579	541	2167
	50kg	347	317	1274
	100kg	172	157	631



unit: mm

Vertical Installation		A	C
Lead 13 mm	30kg	1000	800
	45kg	654	512
	80kg	364	282
Lead 26 mm	20kg	1219	975
	30kg	797	624
	50kg	473	367
Lead 44 mm	8kg	2217	1773
	20kg	868	681
	30kg	573	445

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	1342
MP	1344
MR	1180

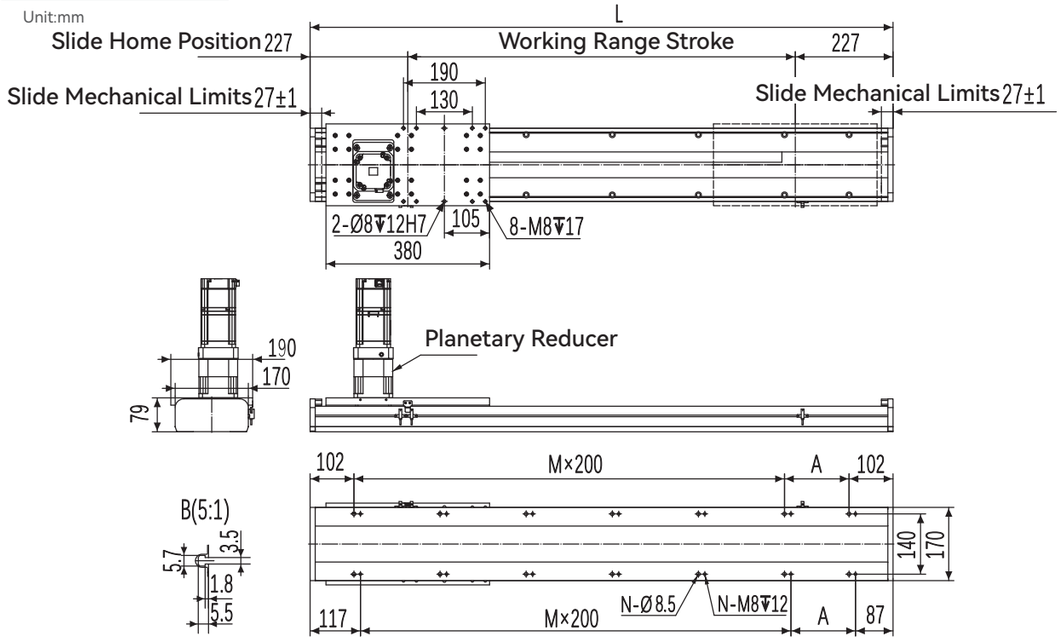
*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

Recommended Motor Table

Brand	Coding	Whether With Brake	Motor Power	(AC-voltage)	Servo Motor Model	Servo Drive Model
Delta	T	Without Brake (Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		With Brake (Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
Panasonic	P	Without Brake (Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		With Brake (Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
Yaskawa	Y	Without Brake (Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		With Brake (Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

A Standard

Unit:mm



Stroke	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
L	1354	1454	1554	1654	1754	1854	1954	2054	2154	2254	2354	2454	2554	2654	2754	2854	2954	3054	3154	3254	3354	3454	3554	3654	3754	3854	3954
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40
KG	29	30.75	32.5	34.25	36	37.75	39.5	41.25	43	44.75	46.5	48.25	50	51.75	53.5	55.25	57	58.75	60.5	62.25	64	65.75	67.5	69.25	71	72.75	74.5

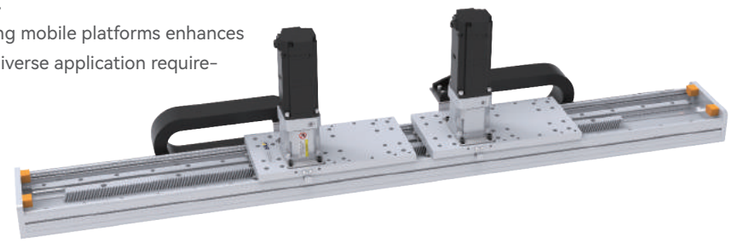
Stroke	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500
L	4054	4154	4254	4354	4454	4554	4654	4754	4854	4954	5054	5154	5254	5354	5454	5554	5654	5754	5854	5954
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28
N	42	42	44	44	46	46	48	48	50	50	52	52	54	54	56	56	58	58	60	60
KG	76.25	78	79.75	81.5	83.25	85	86.75	88.5	90.25	92	93.75	95.5	97.25	99	100.7	102.5	104.2	106	107.7	109.5

Extra long stroke order, need toextend the delivery time.
Please consult the sales for details.

Introduction to Customizable Solutions: Multiple Load-Carrying Mobile Platforms

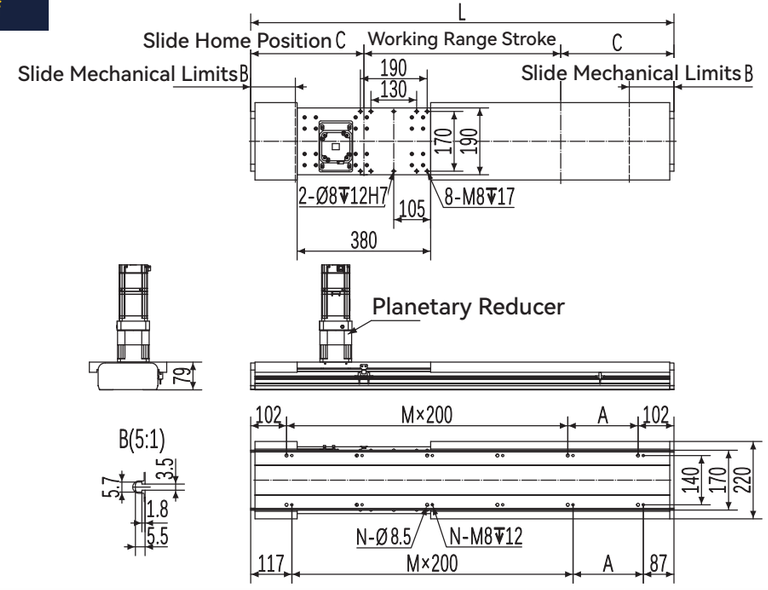
Upgrade Configuration:

The addition of several load-carrying mobile platforms enhances the system's adaptability to meet diverse application requirements.



B Dustproof

Unit:mm



Stroke	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	1302	1438	1574	1710	1846	1984	2120	2256	2392	2528	2664	2802	2938	3074	3210	3346	3484	3620	3756	3892	4028
A	98	234	170	106	42	180	116	52	188	124	60	198	134	70	206	142	80	216	152	88	224
M	5	5	6	7	8	8	9	10	10	11	12	12	13	14	14	15	16	16	17	18	18
N	14	14	16	18	20	20	22	24	24	26	28	28	30	32	32	34	36	36	38	40	40
B	156	174	192	210	228	247	265	283	301	319	337	356	374	392	410	428	447	465	483	501	519
C	351	369	387	405	423	442	460	478	496	514	532	551	569	587	605	623	642	660	678	696	714
KG	28.09	30.47	32.85	35.23	37.61	40.03	42.41	44.79	47.17	49.55	51.93	54.34	56.72	59.1	61.48	63.86	66.28	68.66	71.04	73.42	75.8

Stroke	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	4164	4302	4438	4574	4710	4846	4984	5120	5256	5392	5528	5664	5802	5938
A	160	98	234	170	106	42	180	116	52	188	124	60	198	134
M	19	20	20	21	22	23	23	24	25	25	26	27	27	28
N	42	44	44	46	48	50	50	52	54	54	56	58	58	60
B	537	556	574	592	610	628	647	665	683	701	719	737	756	774
C	732	751	769	787	805	823	842	860	878	896	914	932	951	969
KG	78.18	80.59	82.97	85.35	87.73	90.11	92.53	94.91	97.29	99.67	102.05	104.43	106.84	109.22

Extra long stroke order, need toextend the delivery time.
Please consult the sales for details.

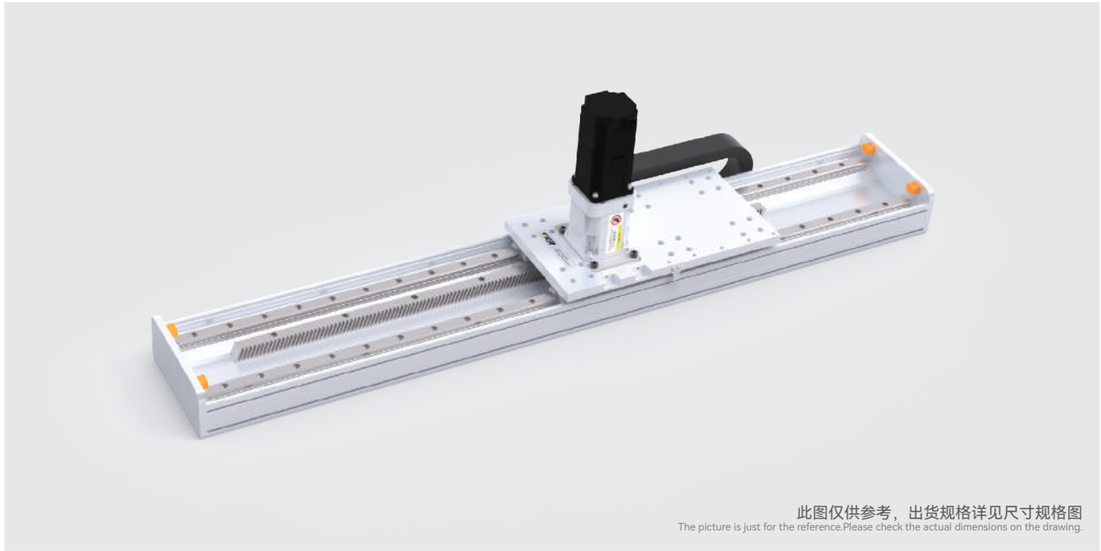
Type B Dust-Proof Product Visualization:

Upgrade Configuration:

Includes the integration of a flexible accordion protective cover, enhancing its suitability for various environmental conditions.

SHS22 1-Axis

Rack and pinion Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum stroke	5500mm
Maximum speed	2200mm/s
Maximux Static Torque	2.39N·m
Rack Specification	2M
Linear Guide	23×18-2支
Motor Connection type	BC

Model Number Representation

SHS22A – L13 – S900 – BC – T75B – C 1 – N

Model Number

Slider Type
- A Standard
- B Dustproof

Rock and Pinion Lead
- 13 13mm
- 26 26mm
- 44 44mm

Maximum Stroke

A Standard type	900 - 5500mm
B Dustproof type	600 - 4000mm
Interval within the Effective Stroke Range	50mm stroke

Motor Position
- BC Motor Direct Connection

Motor Brand 、Power Output

T	Delta(standard)	10	100w	B	With Brake *
P	Panasonic(standard)	20	200w		
Y	Yaskawa(standard)	40	400w		
C	Customer-provided	75	750w		

Note: Not indicated if there is no brake; Please consult the sales staff for the selection of stepper motors.

Origin Sensor

Out Side	
C	Moter side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

1	1 pcs
2	2 pcs
3	3 pcs
No Sensor	
0	No Sensor

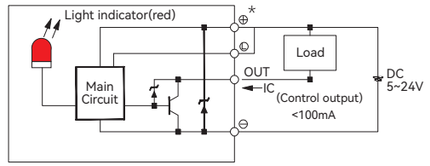
Non-Standard Model

Specification

CAPABILITY	Repeatability (mm)		±0.02			
	Rack and Pinion Lead (mm) *		13	26	44	
	Maximum Speed (mm/s) *		650	1300	2200	
	Maximum Payload	Horizontal(kg)	300	160	100	
		Vertical(kg)	80	50	30	
	Reducer Speed Ratio *		1/10	1/5	1/3	
	Rate Thrust (N)		1133	566	340	
	Type A Working Stroke Range (mm)		900~5500mm / 100mm stroke			
PRODUCT ACCESSORIES	AC Servo Motor Output (W)		750			
	Linear Guide(mm)		W23×H18			
	Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)			

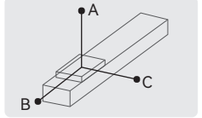
The actual lead per gear revolution is 133.2 mm. The correct calculation method is: Lead ÷ Reduction Ratio × Motor RPM = Actual Speed.

Inductor Wiring Diagram (Origin and Endpoints)



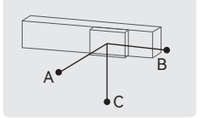
*Please refer to page P206 for standard stroke working speed.

Allowable Overhang



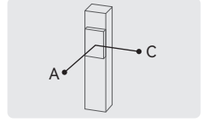
unit: mm

Horizontal Installation		A	B	C
Lead 13 mm	100kg	1950	385	273
	200kg	956	189	134
	300kg	631	125	88
Lead 26 mm	40kg	2438	789	580
	80kg	1195	386	285
	160kg	592	191	140
Lead 44 mm	30kg	1625	641	501
	50kg	956	377	294
	100kg	473	187	146



unit: mm

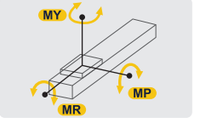
Wall Installation		A	B	C
Lead 13 mm	100kg	420	436	130
	200kg	205	213	637
	300kg	135	140	420
Lead 26 mm	40kg	853	806	2600
	80kg	419	395	1274
	160kg	207	195	631
Lead 44 mm	30kg	827	784	2167
	50kg	486	462	1274
	100kg	241	228	631



unit: mm

Vertical Installation		A	C
Lead 13 mm	30kg	1300	1039
	45kg	850	666
	80kg	473	367
Lead 26 mm	20kg	1585	1268
	30kg	1035	811
	50kg	615	477
Lead 44 mm	8kg	2881	2305
	20kg	1130	886
	30kg	745	578

Static Loading Moment



unit: N·m

Horizontal Installation	
MY	2052
MP	2052
MR	1810

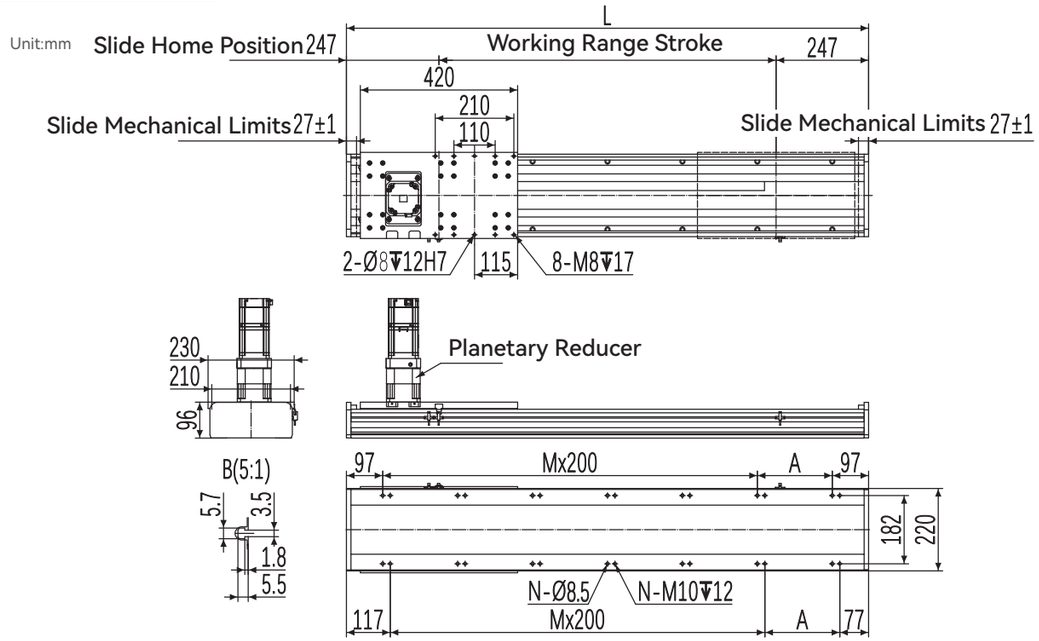
*The torque value in the chart indicate the center of gravity.
*Operation life is 7,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use, contact us for the details if you want to apply ceiling-mount inverse usage.

推荐搭配伺服电机一览表 Recommended Motor Table

品牌 Brand	特征码 Coding	有无刹车 Whether With Brake	马达功率 Motor Power	电源电压 (AC-voltage)	伺服马达型号 Motor Model	伺服驱动型号 Motor Model
台达 Delta	T	无刹车(水平使用) Without Brake(Horizontal Type)	750W	220V	ECMA-C20807RS	ASD-B2-0721-B
		有刹车(垂直使用) With Brake(Vertical Type)	750W	220V	ECMA-C20807SS	ASD-B2-0721-B
松下 Panasonic	P	无刹车(水平使用) Without Brake(Horizontal Type)	750W	220V	MHMF082L1U2M	MCDLN35SG
		有刹车(垂直使用) With Brake(Vertical Type)	750W	220V	MHMF082L1V2M	MCDLN35SG
安川 Yaskawa	Y	无刹车(水平使用) Without Brake(Horizontal Type)	750W	220V	SGM7J08AFC6S	SGD7S5R5A00A002
		有刹车(垂直使用) With Brake(Vertical Type)	750W	220V	SGM7J08AFC6E	SGD7S5R5A00A002

A Standard

Unit:mm



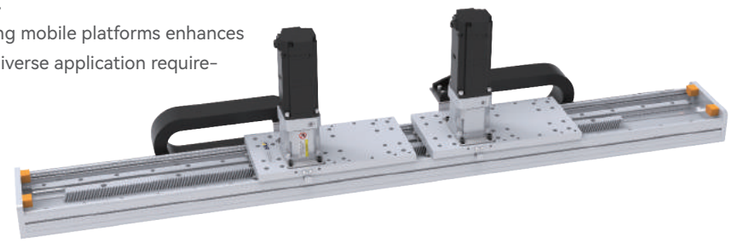
Stroke	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
L	1394	1494	1594	1694	1794	1894	1994	2094	2194	2294	2394	2494	2594	2694	2794	2894	2994	3094	3194	3294	3394	3494	3594	3694	3794	3894	3994
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40
KG	46.2	48.87	51.54	54.21	56.88	59.55	62.22	64.89	67.56	70.23	72.9	75.57	78.24	80.91	83.58	86.25	88.92	91.59	94.26	96.93	99.6	102.2	104.9	107.6	110.3	113	115.6

Stroke	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	
L	4094	4194	4294	4394	4494	4594	4694	4794	4894	4994	5094	5194	5294	5394	5494	5594	5694	5794	5894	5994	*Extra long stroke order, need toextend the delivery time. Please consult the sales for details.*
A	100	200	100	200	100	200	100	200	100	2000	100	200	100	200	100	200	100	200	100	200	
M	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	
N	42	42	44	44	46	46	48	48	50	50	52	52	54	54	56	56	58	58	60	60	
KG	118.3	121	123.6	126.3	129	131.6	134.3	137	139.7	142.3	145	147.7	150.3	153	155.7	158.3	161	163.7	166.3	169	

Introduction to Customizable Solutions: Multiple Load-Carrying Mobile Platforms

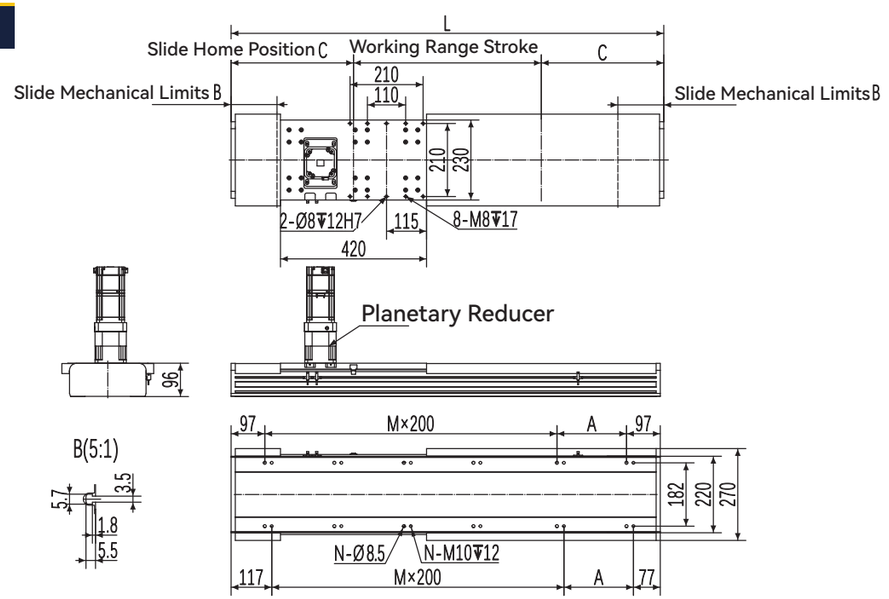
Upgrade Configuration:

The addition of several load-carrying mobile platforms enhances the system's adaptability to meet diverse application requirements.



B Dustproof

Unit:mm



Stroke	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
L	1342	1478	1614	1750	1886	2024	2160	2296	2432	2568	2704	2842	2978	3114	3250	3386	3524	3660	3796	3932	4068
A	148	84	220	156	92	230	166	102	238	174	110	48	184	120	56	192	130	66	202	138	74
M	5	6	6	7	8	8	9	10	10	11	12	13	13	14	15	15	16	17	17	18	19
N	14	16	16	18	20	20	22	24	24	26	28	30	30	32	34	34	36	38	38	40	42
B	156	174	192	210	228	247	265	283	301	319	337	356	374	392	410	428	447	465	483	501	519
C	317	389	407	425	443	462	480	498	516	534	552	571	589	607	625	643	662	680	698	716	73
KG	444.8	48.4	52.1	55.7	59.3	63	66.7	70.3	73.9	77.6	81.2	84.9	88.5	92.1	95.8	99.4	103.1	106.7	110.3	114	117.6

Stroke	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	
L	4204	4342	4478	4614	4750	4886	5024	5160	5296	5432	5568	5704	5842	5978	*Extra long stroke order, need toextend the delivery time. Please consult the sales for details.*
A	210	148	84	220	156	92	230	166	102	238	174	110	48	184	
M	19	20	21	21	22	23	23	24	25	25	26	27	28	28	
N	42	44	46	46	48	50	50	52	54	54	56	58	60	60	
B	537	556	574	592	610	628	647	665	683	701	719	737	756	774	
C	752	771	789	807	825	843	862	880	898	916	934	952	971	989	
KG	121.2	124.9	128.5	132.2	135.8	139.4	143.1	146.8	150.4	154.01	157.7	161.3	165	168.6	

Type B Dust-Proof Product Visualization:

Upgrade Configuration:

Includes the integration of a flexible accordion protective cover, enhancing its suitability for various environmental conditions.

SKR Series
Linear Motor Series
(With Iron Core Series)
SEMI-ENCLOSED

Product Catalog

CONTENTS

SKR12S

Maximum stroke 2478mm
Maximum load 30KG
Body height 85mm
Body width 120mm

····· 223

SKR17S

Maximum stroke 3018mm
Maximum load 90KG
Body height 105mm
Body width 170mm

····· 231

SKR14S

Maximum stroke 2478mm
Maximum load 60KG
Body height 95mm
Body width 140mm

····· 227

SKR22

Maximum stroke 3225mm
Maximum load 140KG
Body height 122mm
Body width 220mm

····· 235

Internal Structure Diagram

Repeatability:±0.002mm

Maximum stroke:3255mm(Customized for Clients: Maximum Delivery Travel of 30 meters)

Multiple Load-Bearing Slide (Mover) Options

High Precision、High Speed、Long Travel

A High Rigid Body / High Rigid Upper Cover

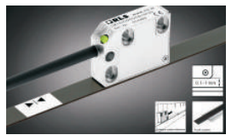
High Rigidity Cover Plate

Features a special anti-bending design. During long travel applications, the cover plate is resistant to twisting and deformation.

Top Cover

B Rotor: Coil

C Stator: Magnetic Plate



Magnetic Scale
ZB Reading Head

Brand	Mark	Encoder Model	Resolving power	Reaction rate	Output signal	Maximum available length	IP level
SIKO	S	MSK200/1-0110	1μm	6m/s	A/B	100,000mm	67
ELGO	S	EMIX1X	1μm	4m/s	A/B	32,000mm	67
SKR	Z	ZBRS	1μm	5m/s	A/B	15,000mm	65
		ZBRL	2μm	5m/s	A/B	15,000mm	65
Renishaw	S	LM10IC001BB10A00	1μm	7m/s	A/B	100,000mm	68
	R	RH100X30D05A	1μm	6m/s	A/B	20,000mm	50

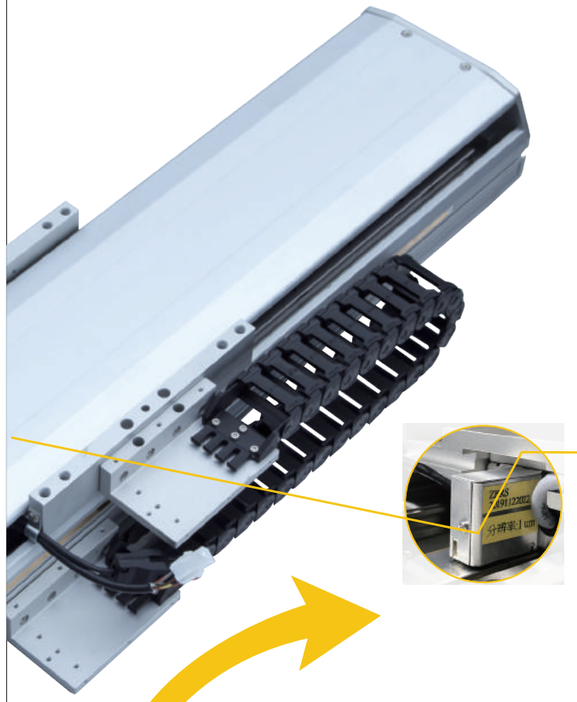
For higher precision and speed, please consult our sales personnel (resolutions up to 0.1μm and speeds up to 8m/s are available).

Driver

Recommended Driver Compatibility List

Brand	Mark	Driver Model	Watp	AC-Voltage	Connection signal
Servotronix	S	CDHD-P1	400W	Single Phase 220V Three Phase 220V	TTL 1VV
Panasonic	P	A6L BTDH	400W	Single Phase 220V Three Phase 220V	TTL IGBTPWM
Delta	T	ASDA-A2R-L	400W	Single Phase 220V Three Phase 220V	TTL (Spin waves can be converted)

Compatible with three commonly used types of linear drivers on the market.



NEW
UPGRADE

Features

1. Ultra-low vibration, can replace coreless linear motors
2. Sinusoidal winding for smooth output
3. Locking surface made of high thermal conductivity aluminum for excellent heat dissipation and high thrust
4. Full metal coverage, no electromagnetic interference

High Rigidity Body
High Rigidity Cover Plate

Silent Operation

Effectively reduces noise during operation, enhances smoothness, longevity, and lubrication efficiency. It is widely applicable in various industries, particularly suitable for high-tech sectors requiring high speed, quiet operation, and low dust generation.

No Magnetic Grid, No Grating

Repeatability ±0.002m | Resolution ±0.001m

Revolutionary "ZB Reading Head" Replaces Glass and Magnetic Scales

This newly developed encoder is designed to perfectly replace the functions of glass grating scales and magnetic grating scales, offering exceptional value for money. It achieves a high precision with a resolution of 0.001 mm, surpassing the accuracy requirements typically needed for ball screws.

Options for external mounting of glass scales are available.

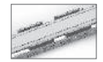
Variety of Combinations

Optional Configuration: Single Axis with Multiple Power Slides and Synchronized Dual Drive Axes

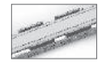
Capable of supporting multiple slides.

For related product information, please refer to read this selection catalog.

Carriage Customize



Dual Slide Dual Motor Model



Dual Slide Single Motor Model

Extended Slide Single Motor Model

SKR12S 1-Axis

The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum Stroke	2478mm	Maximum speed	3000mm/s	Peak Force	221/405/N	Rated Force@100C	72/137/N	Linear Guide	15×H12.5pcs

Model Number Representation

Model Number – Coil – Working Stroke Range – Encoder – Driver – Sensor options – Slider number – Non-standard Model

SKR12S – C1 – S534 – Z – P – C3 – 1 – N

Model Number

Coil specifications

Standard Type YA20-C1 400W
Extended Type YA20-C2 400W

Maximum Stroke *

Working Stroke Range	2478mm
Interval within the Effective Stroke Range	108mm stroke

Note: Non-standard specifications, please consult the salesman.

Encoder

R	Grating Scale 1μm Renishaw
S	Magnetic Scale 1μm SIKO
Z	ZB Reading Head 1μm SKR

Driver

P	Panasonic
T	Delta
S	Servotronix

Origin Sensor

C1	Scale Sensor (Grating)
C3	Sensors ×3 pcs Sensor

Note:Front&Rear sensors connect driver

Slider

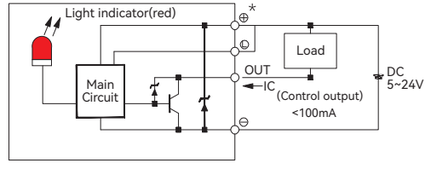
1	Number of slides

Note: One body can use several slider

Specification

Drive Mode		YA20-C1	YA20-C2
Performance	Encoder	Magnetic Scale/Grating Scale/ZB Reading Head	
	Maximum Speed (mm/s)"1"2	4000	
	Maximum Payload (G)"2	2.5	
	Payload (kg)"3 Horizontal	15	30
	Resolution (μm)	1μm/5μm	
	Peak Force (N)	221	405
	Rated Force @ 100C (N)	72	137
	Working Stroke Range (mm)	102~2478mm/108mm stroke	
	Use Temperature (℃)	0~40	

Inductor Wiring Diagram (Origin and Endpoints)



- Maximum speed minimum resolution change.
- The speed, acceleration is limited by load.
- The acceleration is the load of 2G action, speed is limited by the thrust and velocity characteristics.
- Repeat the zero clearance.
- Using the incremental magnetic ruler, the accuracy of walking positional can be modified by software.
- Consulting the salesman if you need non-standard stroke.

Encoder Compatibility List

Brand	Mark	Encoder Model	Resolving power	Reaction rate	Output signal	Maximum available length	IP level
SIKO	S	MSK200/1-0110	1μm	6m/s	A/B	100,000mm	67
ELGO	S	EMIX1X	1μm	4m/s	A/B	32,000mm	67
SKR	Z	ZBRS	1μm	5m/s	A/B	15,000mm	65
		ZBRL	2μm	5m/s	A/B	15,000mm	65
Renishaw	S	LM10IC001BB10A00	1μm	7m/s	A/B	100,000mm	68
	R	RH100X30D05A	1μm	6m/s	A/B	20,000mm	50

Please consult the salesman for higher accuracy and speed.

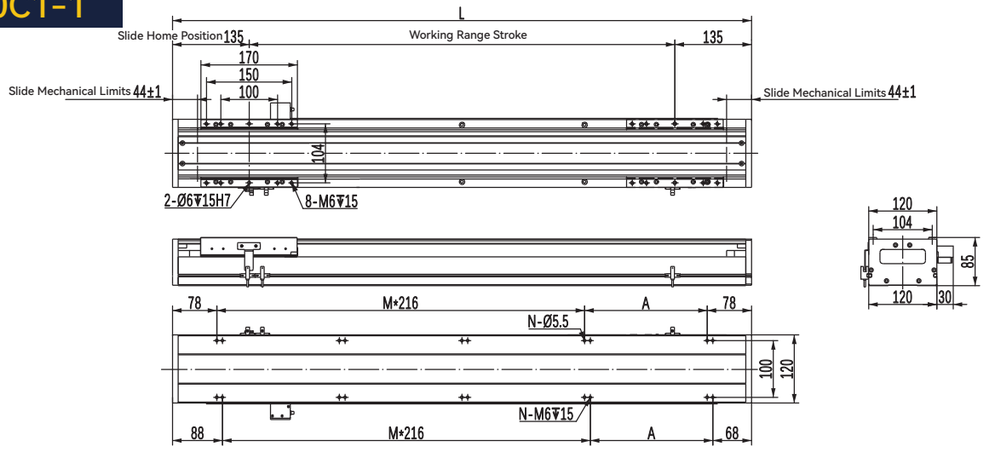
Recommended Controller Table

Brand	Mark	Driver Model	Watp	AC-voltage	Connection signal
Servotronix	S	CDHD-P1	400W	Single Phase 220V Three Phase 220V	TTL 1.VV
Panasonic	P	A6L BTDH	400W	Single Phase 220V Three Phase 220V	TTL IGBTPWM
Delta	T	ASD-A3-L	400W	Single Phase 220V Three Phase 220V	TTL (Spin waves can be converted)

SKR12S 1-Axis

YA20C1-1

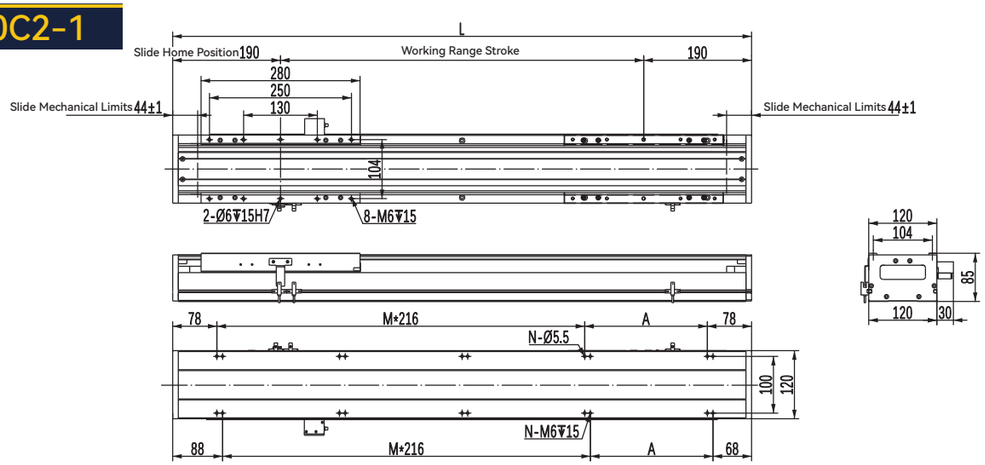
Unit:mm



Stroke	102	210	318	426	534	642	750	858	966	1074	1182	1290	1398	1506	1614	1722	1830	1938	2046	2154	2262	2370	2478
L	372	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100	2208	2316	2424	2532	2640	2748
A	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
KG	6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	19.2	20.4	21.6	22.8	24	25.2	26.4	27.6	28.8	30	31.2	32.4

YA20C2-1

Unit:mm



Stroke	100	208	316	424	532	640	748	856	964	1072	1180	1288	1396	1504	1612	1720	1828	1936	2044	2152	2260	2368	2476
L	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100	2208	2316	2424	2532	2640	2748	2856
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
KG	8.5	9.7	10.9	12.1	13.3	14.5	15.7	16.9	18.1	19.3	20.5	21.7	22.9	24.1	25.3	26.5	27.7	28.9	30.1	31.3	32.5	33.7	34.9

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

SKR14S 1-Axis

The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum Stroke	2478mm	Maximum speed	3000mm/s	Peak Force	405/810/N	Rated Force@100C	137/274/N	Linear Guide	15×H12.5pcs

Model Number Representation

Model Number	Coil	Working Stroke Range	Encoder	Driver	Sensor options	Slider number	Non-standard Model
SKR14S	C1	S750	Z	P	C3	1	N

Model Number

Coil specifications

Standard Type YA35-C1 400W
Extended Type YA35-C2 400W

Maximum Stroke *

Working Stroke Range	2478mm
Interval within the Effective Stroke Range	108mm stroke

Note: Non-standard specifications, please consult the salesman.

Encoder

R	Grating Scale 1μm Renishaw
S	Magnetic Scale 1μm SIKO
Z	ZB Reading Head 1μm SKR

Driver

P	Panasonic
T	Delta
S	Servotronix

Origin Sensor

C1	Scale Sensor (Grating)
C3	Sensors ×3 pcs Sensor

Note:Front&Rear sensors connect driver

Slider

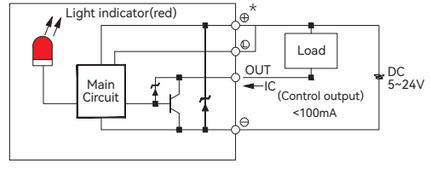
1	Number of slides

Note: One body can use several slider

Specification

Drive Mode		YA35-C1	YA35-C2
Performance	Encoder	Magnetic Scale/Grating Scale/ZB Reading Head	
	Maximum Speed (mm/s)"1"2	4000	
	Maximum Payload (G)"2	2.5	
	Payload (kg)"3 Horizontal	30	60
	Resolution (μm)	1μm/5μm	
	Peak Force (N)	405	810
	Rated Force @ 100C (N)	137	274
	Working Stroke Range (mm)	102~2478mm/108mm stroke	
	Use Temperature (℃)	0~40	

Inductor Wiring Diagram (Origin and Endpoints)



- Maximum speed minimum resolution change.
- The speed, acceleration is limited by load.
- The acceleration is the load of 2G action, speed is limited by the thrust and velocity characteristics.
- Repeat the zero clearance.
- Using the incremental magnetic ruler, the accuracy of walking positional can be modified by software.
- Consulting the salesman if you need non-standard stroke.

Encoder Compatibility List

Brand	Mark	Encoder Model	Resolving power	Reaction rate	Output signal	Maximum available length	IP level
SIKO	S	MSK200/1-0110	1μm	6m/s	A/B	100,000mm	67
ELGO	S	EMIX1X	1μm	4m/s	A/B	32,000mm	67
SKR	Z	ZBRS	1μm	5m/s	A/B	15,000mm	65
		ZBRL	2μm	5m/s	A/B	15,000mm	65
Renishaw	S	LM10IC001BB10A00	1μm	7m/s	A/B	100,000mm	68
	R	RH100X30D05A	1μm	6m/s	A/B	20,000mm	50

Please consult the salesman for higher accuracy and speed.

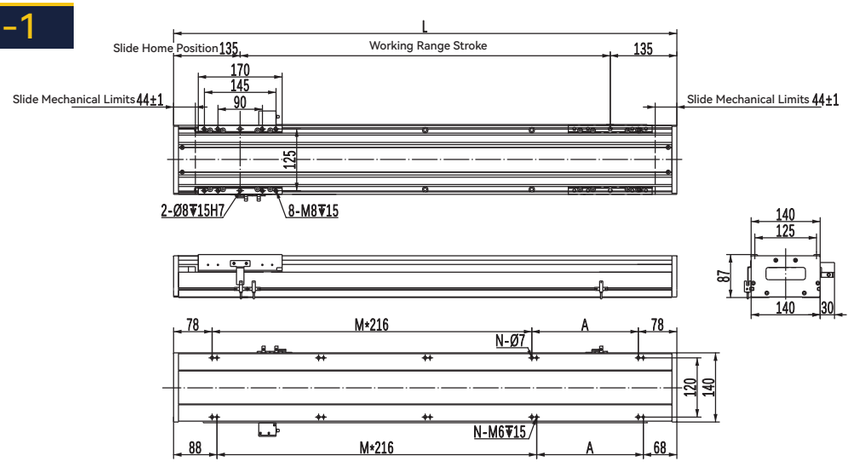
Recommended Controller Table

Brand	Mark	Driver Model	Watp	AC-voltage	Connection signal
Servotronix	S	CDHD-P1	400W	Single Phase 220V Three Phase 220V	TTL 1.VV
Panasonic	P	A6L BTDH	400W	Single Phase 220V Three Phase 220V	TTL IGBTPWM
Delta	T	ASD-A3-L	400W	Single Phase 220V Three Phase 220V	TTL (Spin waves can be converted)

SKR14S 1-Axis

YA35C1-1

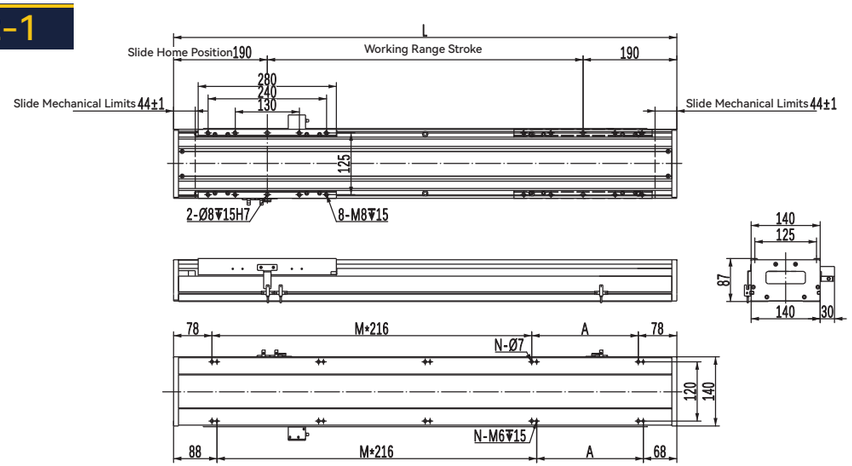
Unit:mm



Stroke	102	210	318	426	534	642	750	858	966	1074	1182	1290	1398	1506	1614	1722	1830	1938	2046	2154	2262	2370	2478
L	372	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100	2208	2316	2424	2532	2640	2748
A	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
KG	8.25	9.6	10.95	12.3	13.65	15	16.35	17.7	19.05	20.4	21.75	23.1	24.45	25.8	27.15	28.5	29.85	31.2	32.55	33.9	35.25	36.6	37.95

YA35C2-1

Unit:mm



Stroke	100	208	316	424	532	640	748	856	964	1072	1180	1288	1396	1504	1612	1720	1828	1936	2044	2152	2260	2368	2476
L	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100	2208	2316	2424	2532	2640	2748	2856
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
KG	11.2	12.55	13.9	15.25	16.6	17.95	19.3	20.65	22	23.35	24.7	26.05	27.4	28.75	30.1	31.45	32.8	34.15	35.5	36.85	38.2	39.55	40.9

Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

SKR17S 1-Axis

The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum Stroke	3016mm	Maximum speed	3000mm/s	Peak Force	592/1184/N	Rated Force@100C	193/386/N	Linear Guide	15×H12.5pcs

Model Number Representation

Model Number	Coil	Working Stroke Range	Encoder	Driver	Sensor options	Slider number	Non-standard Model
SKR17S	C1	S750	Z	P	C3	1	N

Model Number

Coil specifications

Standard Type YA49-C1 400W
Extended Type YA49-C2 750W

Maximum Stroke *

Working Stroke Range	3016mm
Interval within the Effective Stroke Range	108mm stroke

Note: Non-standard specifications, please consult the salesman.

Encoder

R	Grating Scale 1μm Renishaw
S	Magnetic Scale 1μm SIKO
Z	ZB Reading Head 1μm SKR

Driver

P	Panasonic
T	Delta
S	Servotronix

Origin Sensor

C1	Scale Sensor (Grating)
C3	Sensors ×3 pcs Sensor

Note:Front&Rear sensors connect driver

Slider

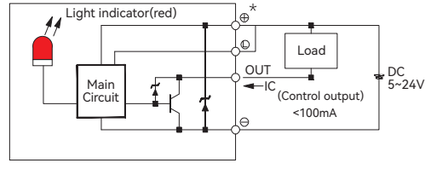
1	Number of slides

Note: One body can use several slider

Specification

Drive Mode		YA49-C1	YA49-C2
Performance	Encoder	Magnetic Scale/Grating Scale/ZB Reading Head	
	Maximum Speed (mm/s)"1"2	4000	
	Maximum Payload (G)"2	2.5	
	Payload (kg)"3 Horizontal	45	90
	Resolution (μm)	1μm/5μm	
	Peak Force (N)	592	1184
	Rated Force @ 100C (N)	193	386
	Working Stroke Range (mm)	102~3016mm/108mm stroke	
	Use Temperature (℃)	0~40	

Inductor Wiring Diagram (Origin and Endpoints)



- Maximum speed minimum resolution change.
- The speed, acceleration is limited by load.
- The acceleration is the load of 2G action, speed is limited by the thrust and velocity characteristics.
- Repeat the zero clearance.
- Using the incremental magnetic ruler, the accuracy of walking positional can be modified by software.
- Consulting the salesman if you need non-standard stroke.

Encoder Compatibility List

Brand	Mark	Encoder Model	Resolving power	Reaction rate	Output signal	Maximum available length	IP level
SIKO	S	MSK200/1-0110	1μm	6m/s	A/B	100,000mm	67
ELGO	S	EMIX1X	1μm	4m/s	A/B	32,000mm	67
SKR	Z	ZBRS	1μm	5m/s	A/B	15,000mm	65
		ZBRL	2μm	5m/s	A/B	15,000mm	65
Renishaw	S	LM10IC001BB10A00	1μm	7m/s	A/B	100,000mm	68
	R	RH100X30D05A	1μm	6m/s	A/B	20,000mm	50

Please consult the salesman for higher accuracy and speed.

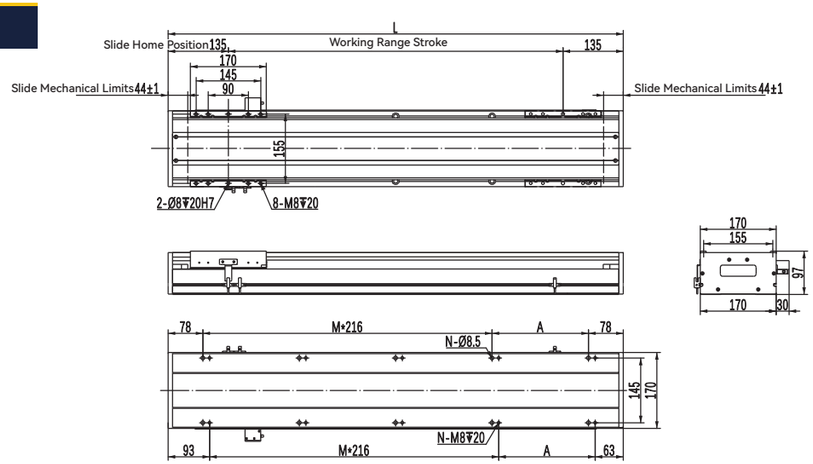
Recommended Controller Table

Brand	Mark	Driver Model	Watp	AC-voltage	Connection signal
Servotronix	S	CDHD-P1	400W/750W	Single Phase 220V Three Phase 220V	TTL 1.VV
Panasonic	P	A6L BTDH	400W/750W	Single Phase 220V Three Phase 220V	TTL IGBTPWM
Delta	T	ASD-A3-L	400W/750W	Single Phase 220V Three Phase 220V	TTL (Spin waves can be converted)

SKR17S 1-Axis

YA49C1-1

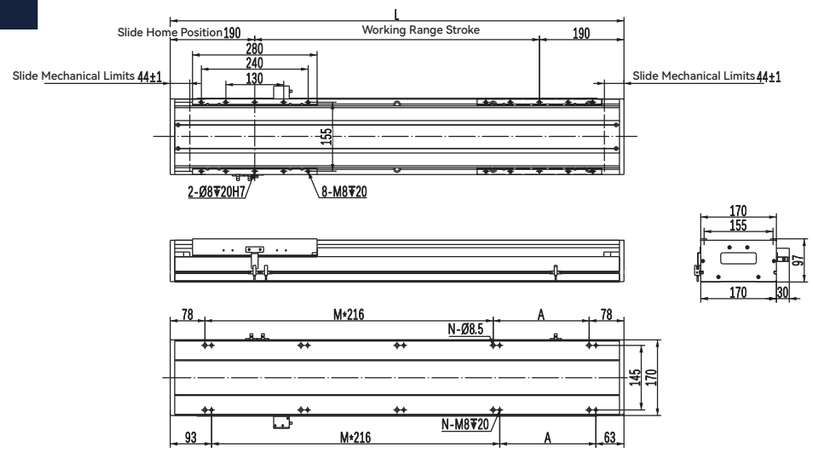
Unit:mm



Stroke	102	210	318	426	534	642	750	858	966	1074	1182	1290	1398	1506	1614	1722	1830	1938	2046	2154	2262	2370	2478	2586	2694	2802	2910	3018
L	372	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100	2208	2316	2424	2532	2640	2748	2856	2964	3072	3180	3288
A	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32
KG	9.95	12	14.05	16.1	18.15	20.2	22.25	24.3	26.35	28.4	30.45	32.5	34.55	36.6	38.65	40.7	42.75	44.8	46.85	48.9	50.95	53	55.05	57.1	59.15	61.2	63.25	65.3

YA49C2-1

Unit:mm



Stroke	100	208	316	424	532	640	748	856	964	1072	1180	1288	1396	1504	1612	1720	1828	1936	2044	2152	2260	2368	2476	2584	2692	2800	2908	3016
L	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100	2208	2316	2424	2532	2640	2748	2856	2964	3072	3180	3288	3396
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32
KG	14.1	16.15	18.2	20.25	22.3	24.35	26.4	28.45	30.5	32.55	34.6	36.65	38.7	40.75	42.8	44.85	46.9	48.95	51	53.05	55.1	57.15	59.2	61.25	63.3	65.35	67.4	69.45

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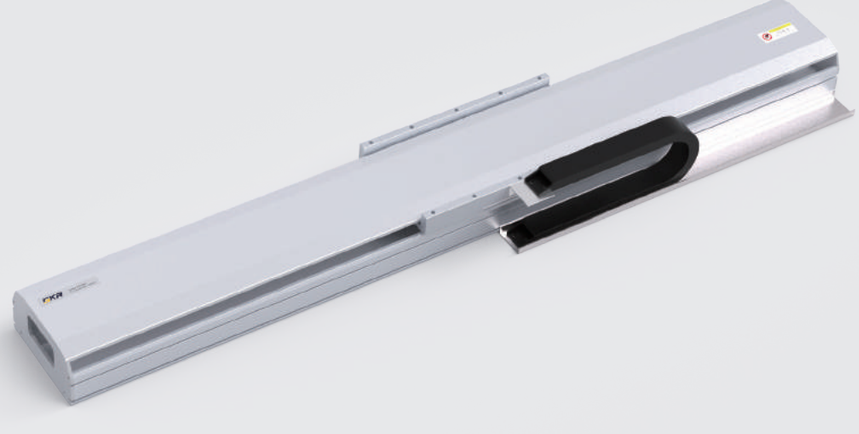
SKR22 1-Axis



The picture is just for the reference.Please check the actual dimensions on the drawing.

Maximum Stroke	3225mm	Maximum speed	4000mm/s	Peak Force	840/1680/N	Rated Force@100C	280/560/N	Linear Guide	23×18-2pcs

Model Number Representation

Model Number | Coil | Working Stroke Range | Encoder | Driver | Sensor options | Slider number | Non-standard Model

SKR22S – C1 – S525 – Z – P – C3 – 1 – N

Model Number

Coil specifications

Standard Type JA50-C1 750W
Extended Type JA50-C2 1.3KW

Maximum Stroke *

Working Stroke Range	3225mm
Interval within the Effective Stroke Range	135mm stroke

Note: Non-standard specifications, please consult the salesman.

Encoder

R	Grating Scale 1μm Renishaw
S	Magnetic Scale 1μm SIKO
Z	ZB Reading Head 1μm SKR

Driver

P	Panasonic
T	Delta
S	Servotronix

Origin Sensor

C1	Scale Sensor (Grating)
C3	Sensors ×3 pcs Sensor

Note:Front&Rear sensors connect driver

Slider

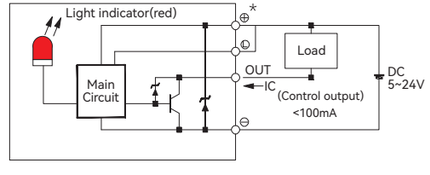
1	Number of slides

Note: One body can use several slider

Specification

Drive Mode		JA50-C1	JA50-C2
Performance	Encoder	Magnetic Scale/Grating Scale/ZB Reading Head	
	Maximum Speed (mm/s)"1"2	4000	
	Maximum Payload (G)"2	2.5	
	Payload (kg)"3 Horizontal	80	140
	Resolution (μm)	1μm/5μm	
	Peak Force (N)	840	1680
	Rated Force @ 100C (N)	280	560
	Working Stroke Range (mm)	120~3225mm/135mm stroke	
	Use Temperature (℃)	0~40	

Inductor Wiring Diagram (Origin and Endpoints)



- Maximum speed minimum resolution change.
- The speed, acceleration is limited by load.
- The acceleration is the load of 2G action, speed is limited by the thrust and velocity characteristics.
- Repeat the zero clearance.
- Using the incremental magnetic ruler, the accuracy of walking positional can be modified by software.
- Consulting the salesman if you need non-standard stroke.

Encoder Compatibility List

Brand	Mark	Encoder Model	Resolving power	Reaction rate	Output signal	Maximum available length	IP level
SIKO	S	MSK200/1-0110	1μm	6m/s	A/B	100,000mm	67
ELGO	S	EMIX1X	1μm	4m/s	A/B	32,000mm	67
SKR	Z	ZBRS	1μm	5m/s	A/B	15,000mm	65
		ZBRL	2μm	5m/s	A/B	15,000mm	65
Renishaw	S	LM10IC001BB10A00	1μm	7m/s	A/B	100,000mm	68
	R	RH100X30D05A	1μm	6m/s	A/B	20,000mm	50

Please consult the salesman for higher accuracy and speed.

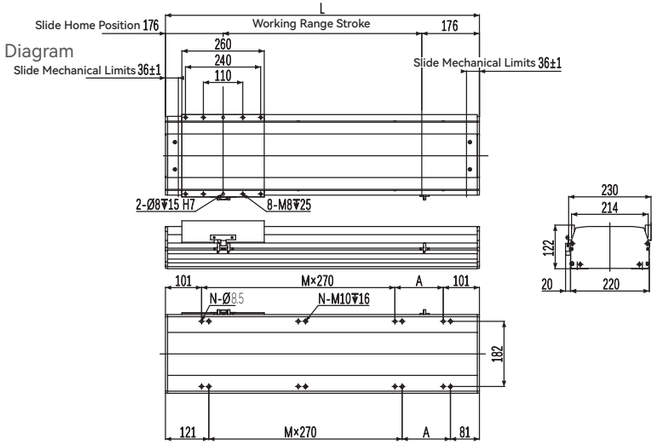
Recommended Controller Table

Brand	Mark	Driver Model	Watp	AC-voltage	Connection signal
Servotronix	S	CDHD-P1	750W/1.3KW	Single Phase 220V Three Phase 220V	TTL 1.VV
Panasonic	P	A6L BTDH	750W/1.3KW	Single Phase 220V Three Phase 220V	TTL IGBTPWM
Delta	T	ASD-A3-L	750W/1.3KW	Single Phase 220V Three Phase 220V	TTL (Spin waves can be converted)

J50C1-1

ZB Reading Head Specification Diagram

Unit:mm

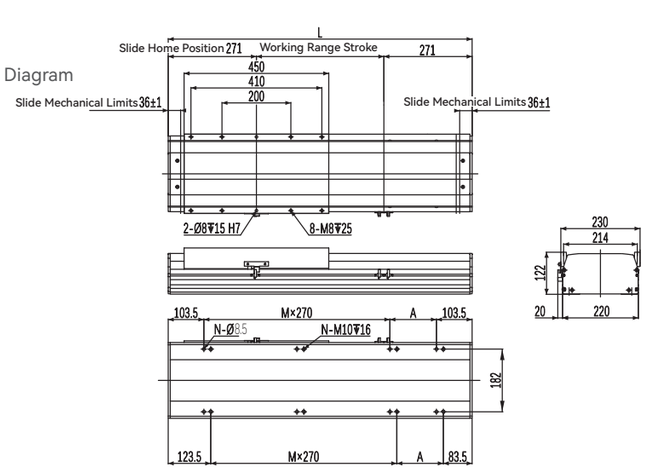


Stroke	120	255	390	525	660	795	930	1065	1200	1335	1470	1605	1740	1875	2010	2145	2280	2415	2550	2685	2820	2955	3090	3225
L	472	607	742	877	1012	1147	1282	1417	1552	1687	1822	1957	2092	2227	2362	2497	2632	2767	2902	3037	3172	3307	3442	3577
A	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
KG	22.1	23.3	24.6	25.8	27	28.2	29.4	30.7	31.9	33.1	34.3	35.5	36.8	38	39.2	40.4	41.6	42.9	44.1	45.3	46.5	47.7	49	50.2

J50C2-1

ZB Reading Head Specification Diagram

Unit:mm

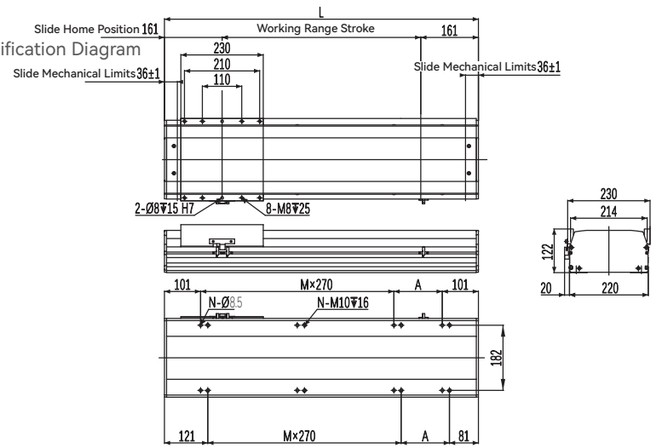


Stroke	70	205	340	475	610	745	880	1015	1150	1285	1420	1555	1690	1825	1960	2095	2230	2365	2500	2635	2770	2905	3040	3175
L	612	747	882	1017	1152	1287	1422	1557	1692	1827	1962	2097	2232	2367	2502	2637	2772	2907	3042	3177	3312	3447	3582	3717
A	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
KG	24.1	25.3	26.6	27.8	29	30.2	31.4	32.7	33.9	35.1	36.3	37.5	38.8	40	41.2	42.4	43.6	44.9	46.1	47.3	48.5	49.7	51	52.2

J50C1-1

Magnetic or Grating Scale Specification Diagram

Unit:mm

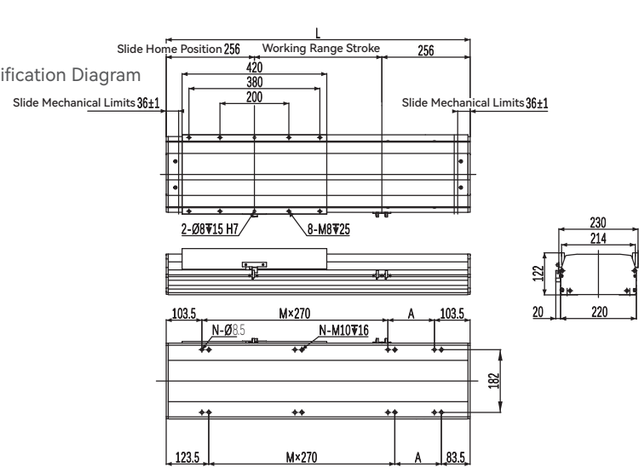


Stroke	150	285	420	555	690	825	960	1095	1230	1365	1500	1635	1770	1905	2040	2175	2310	2445	2580	2715	2850	2985	3120	3255
L	472	607	742	877	1012	1147	1282	1417	1552	1687	1822	1957	2092	2227	2362	2497	2632	2767	2902	3037	3172	3307	3442	3577
A	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
KG	22.1	23.3	24.6	25.8	27	28.2	29.4	30.7	31.9	33.1	34.3	35.5	36.8	38	39.2	40.4	41.6	42.9	44.1	45.3	46.5	47.7	49	50.2

J50C2-1

Magnetic or Grating Scale Specification Diagram

Unit:mm

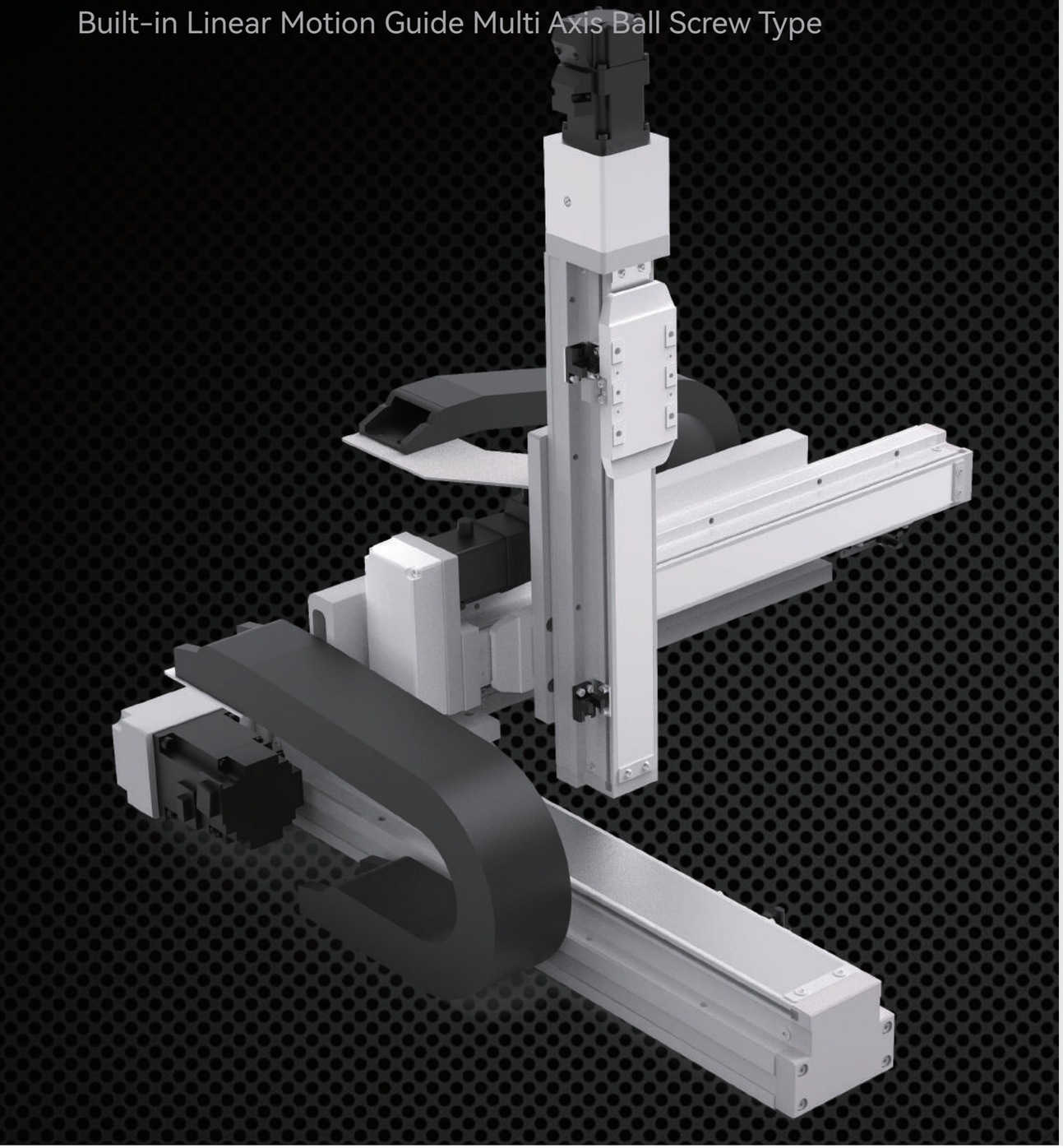


Stroke	100	235	370	505	640	775	910	1045	1180	1315	1450	1585	1720	1855	1990	2125	2260	2395	2530	2665	2800	2935	3070	3205
L	612	747	882	1017	1152	1287	1422	1557	1692	1827	1962	2097	2232	2367	2502	2637	2772	2907	3042	3177	3312	3447	3582	3717
A	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
KG	24.1	25.3	26.6	27.8	29	30.2	31.4	32.7	33.9	35.1	36.3	37.5	38.8	40	41.2	42.4	43.6	44.9	46.1	47.3	48.5	49.7	51	52.2

XYSH Series

Integrated Guide Rail Cartesian Robot

Built-in Linear Motion Guide Multi Axis Ball Screw Type



Product Catalog

CONTENTS

XYSH322-A

Number of Combined Axes: 3-axis
Maximum Load: 8 KG
Maximum Travel on X-axis: 1100mm
Maximum Travel on Y-axis: 500mm
Maximum Travel on Z-axis: 250mm

····· 245

XYSH432-A

Number of Combined Axes: 3-axis
Maximum Load: 10 KG
Maximum Travel on X-axis: 1250mm
Maximum Travel on Y-axis: 500mm
Maximum Travel on Z-axis: 350mm

····· 255

多轴组合说明 Multi-axis combination description

ARM VARIATIONS

通过单轴滑台的多重组合，我们开发了2 轴及3 轴的多轴手臂操作。

(1) 与垂直多关节机器人相比，低廉的价格。

(2) 巧妙的机械设计实现高刚性直交机器人，能减少的振动和变形。

(3) 单轴滑台各式各样可能的组合。

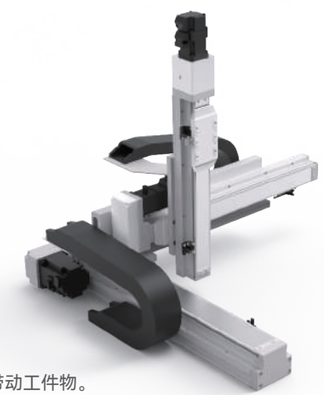
Multi axis combination explanation.We have developed 2 and 3 axes multi axis actuator through the multiple combinations of single axis actuators.

(1) Low cost compared with vertical multi joints robot.

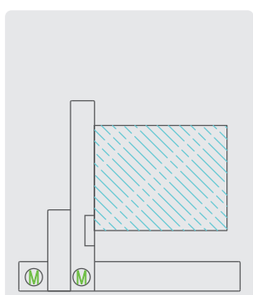
(2) Ingenious mechanical design making Cartesian robots achieve high rigidity for reducing vibration and deformation.

(3) Multiple combination of single axis actuator.

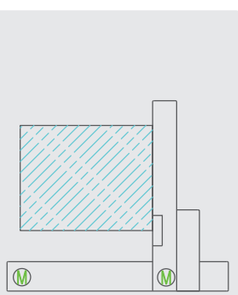
悬臂型
Arm Type



此型为移动Z轴带动工件物。
The type with moving Z-axis carriage.



A1



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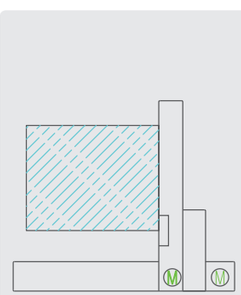
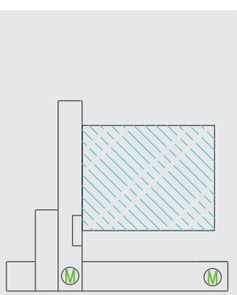


A3



A4

使用环境 Use Where	传动方式 Driven Mode	型号 Model	连接型式 Combination	连接轴数 Axis Numbers	各轴导程 Lead			各轴最高速度"1 Maximum Speed(mm/s)			各轴行程范围 Stroke(mm)		
					X 轴 X axis	Y 轴 Y axis	Z 轴 Z axis	X 轴 X axis	Y 轴 Y axis	Z 轴 Z axis	X 轴 X axis	Y 轴 Y axis	Z 轴 Z axis
General environment 一般环境	滚珠丝杆 Ball Screw	XYSH322-A	悬臂型 (A) Arm Type	3 轴 3-axis	L10	L10	L5	500	250	250	50-1100	100-500	50-250
		XYSH432-A			L20	L10	L5	1000	500	250	50-1100	100-500	50-350

*注 Notes:

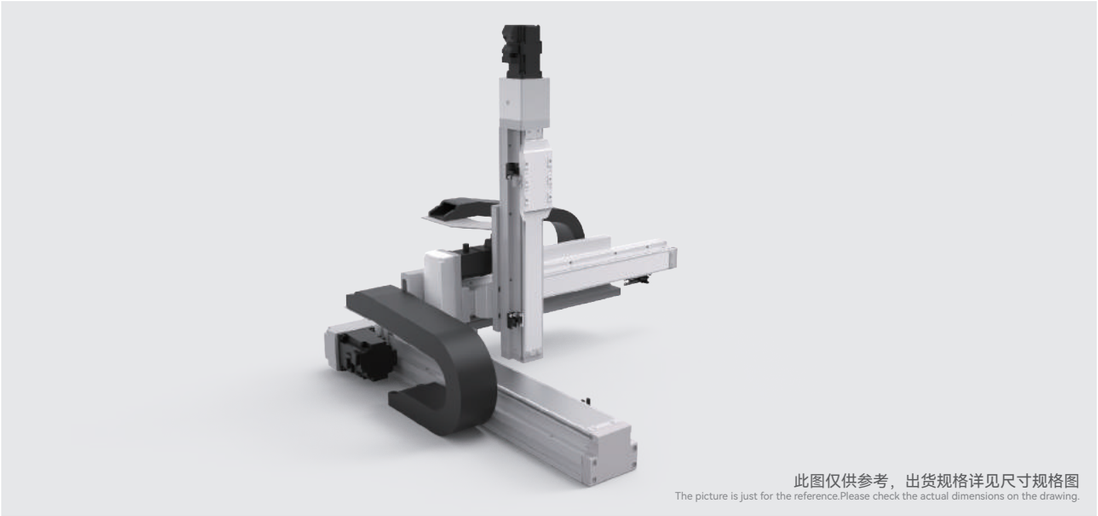
1.这里提到的各轴最高速度，是指在单轴滑台模组安装伺服电机并设定电机额定转速为3000r/min时的速度。然而，随着各轴向自身（或载荷）重量的增加，加速和减速曲线会变得更平缓，如果移动距离较短，可能无法达到标注的最高速度。请注意，无法达到单轴运行的最高速度，并不代表产品有问题。
The maximum speed mentioned here for each axis refers to the speed when a servo motor is installed on a single-axis slide table module and the motor's rated speed is set to 3000r/min. However, as the weight of each axis (or load) increases, the acceleration and deceleration curves will become more gradual. If the movement distance is short, it may not be possible to reach the indicated maximum speed. Please note, not being able to reach the maximum speed of single-axis operation does not indicate a product defect.

Y 轴行程及负荷轴 (Y 轴或 Z 轴) 最大可搬重量"2 Y-axis Stroke (mm) and payload axis' (Y-axis or Z-axis) maximum payload (kg)											页码 Page
行程 Stroke 100	150	250	350	450	550	650	750	850	950	1050	
8	8	7	5	2							245
12	10	10	10	8							255

2. 上述表格中的最大可搬运重量是通过力学模拟计算得出的。在实际应用中，请结合载具设计和轴向重心进行验证和计算，以对抗由于滑台模组（材质为挤压型铝材）力矩造成的形变，以便找到最佳的使用组合。如果需要技术支持，请联系我们的销售人员。
The maximum load capacity indicated in the above table is derived from mechanical simulation calculations. In actual application, please verify and calculate in conjunction with the design of the carrying tool and the axial center of gravity, to counteract the deformation caused by torque on the slide table module (made of extruded aluminum material), so as to find the best usage combination. If technical support is needed, please contact our sales personnel.

XYSH322-A 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
1100mm	500mm	250mm

最高速度 Maximum Speed

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
500mm/s	500mm/s	250mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
400W	100W	100W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSH8	PSH5	PSH5
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	10	10	5
最高速度 Maximum Speed (mm/s) ※1	500	500	250
标准行程(50间隔) Stroke 50 mm Pitch (mm)	50-1100	100-500	50-250
驱动功率 AC Servo Motor Output (w)	400	100	100+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z 行程 Z Stroke mm \ Y 行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
50	8	8	7.5	7	6.5	5	3	2	1
100	8	8	7.3	6.6	5.9	4.4	2.8	1.8	0.8
150	8	8	7.1	6.2	5.3	3.8	2.6	1.6	0.6
200	8	7.8	6.9	6	5.1	3.6	2.4	1.4	0.5
250	8	7.6	6.7	5.8	4.9	3.4	2.2	1.2	0.5

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

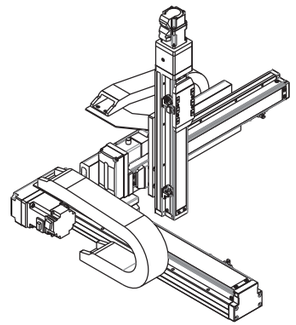
XYSH322 – A1 – 300 – 300 – 300 – C – K – N

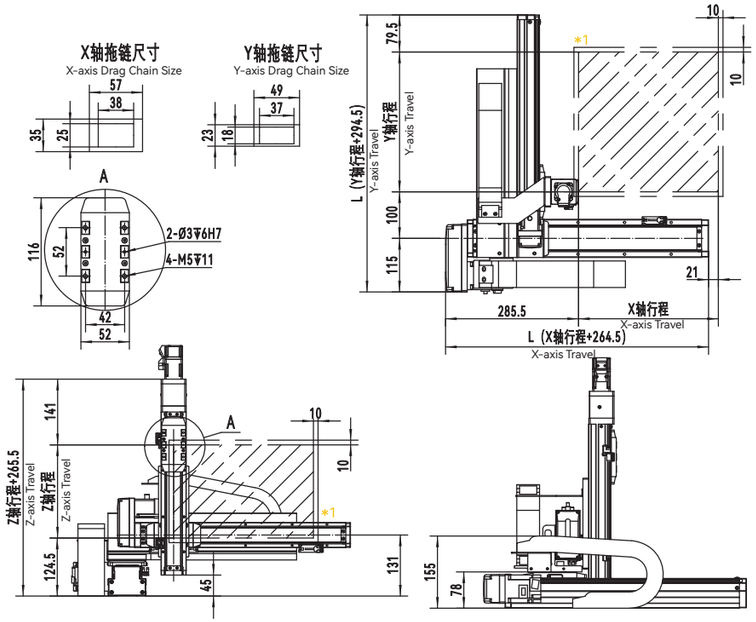
- 本体型号 Model Number
- 连接方式 Combination: A 悬臂型 Arm Type
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 50~1100mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~500mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 50~250mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSH322-A1 尺寸图 Size

A1

单位(Unit):mm





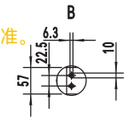
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

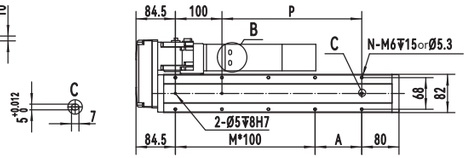
*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。
(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，
若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

*4.X轴拖链固定端固定板由客户自行连结。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

*5.行程50 时，因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.

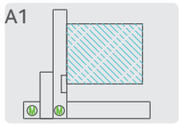


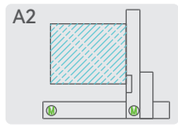


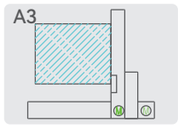
X轴行程 X Stroke mm	50-	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
最高使用速度 Max. Speed (mm/s)	1000															900	800	700	600	500	400	300

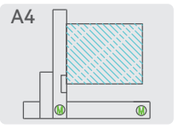
Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5
最高使用速度 Max. Speed (mm/s)	500								

连接方式 Combination Direction

A1 

A2 

A3 

A4 

配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec →P027
- Y 轴详细规格 Y-axis Detail Spec →P023
- Z 轴详细规格 Z-axis Detail Spec →P023
- 马达详细规格 Motor Brand Options →P321

XYSH322-A1 尺寸图 Size

A1

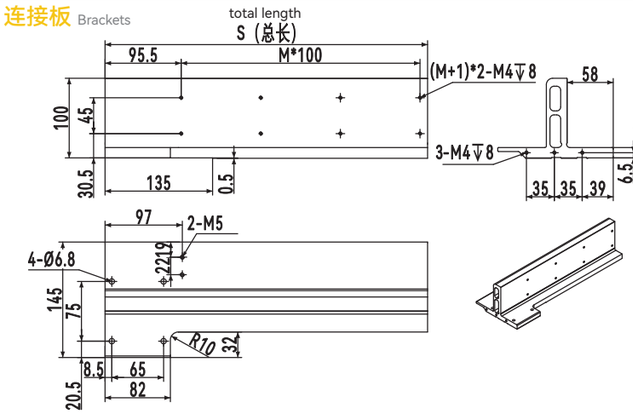
XYSH322-A1 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH322-A1 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
X 轴使用节数 Number of Links Used	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26	27	28	29
Y 轴使用节数 Number of Links Used		14	15	17	18	19	20	21	23	24												

连接板 Brackets



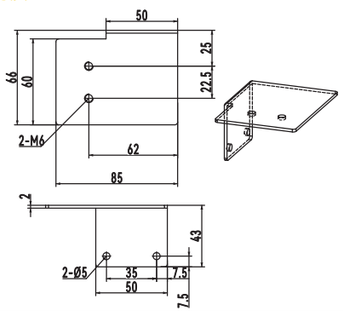
有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

连接板各行程对应物料号
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
25156	100	一体连接板（PSH8）-L205（标准）
25157	150-200	一体连接板（PSH8）-L305（标准）
25158	250-300	一体连接板（PSH8）-L405（标准）
25159	350-400	一体连接板（PSH8）-L505（标准）
25160	450-500	一体连接板（PSH8）-L605（标准）

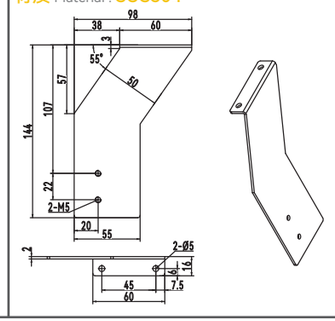
X轴钣金 Sheet Metal of X Axis

料号 Part NO : 25154
材质 Material : SUS304



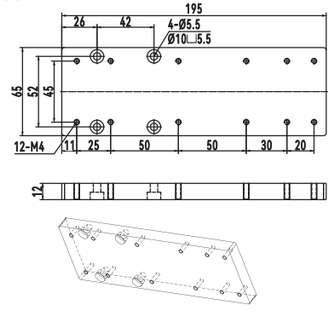
Y轴钣金 Sheet Metal of Y Axis

料号 Part NO : 25153
材质 Material : SUS304



Z轴钣金 Sheet Metal of Z Axis

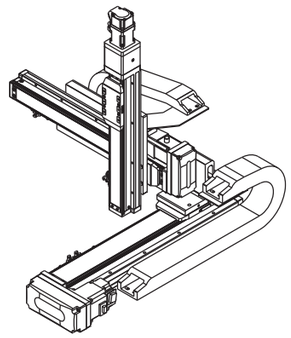
料号 Part NO : 25155
材质 Material : 6063T5

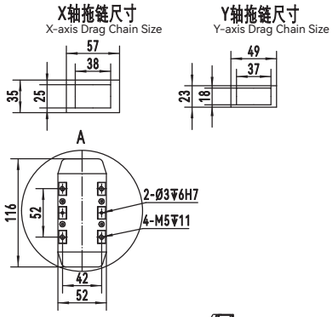


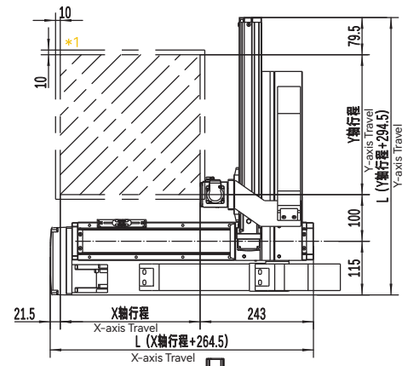
XYSH322-A2 尺寸图 Size

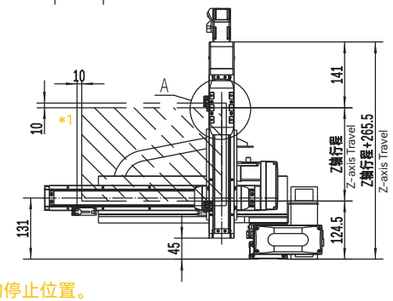
A2

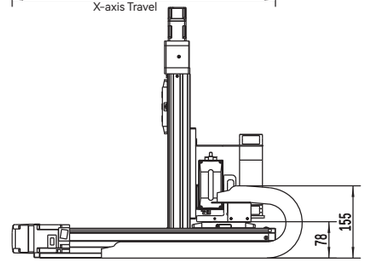
单位(Unit):mm











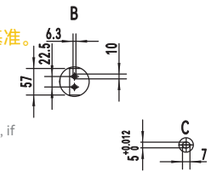
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

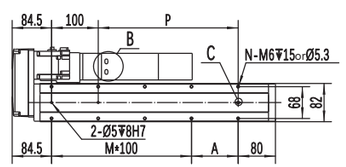
*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。
(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

*4.X轴拖链固定端固定板由客户自行连结。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

*5.行程50 时, 因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.

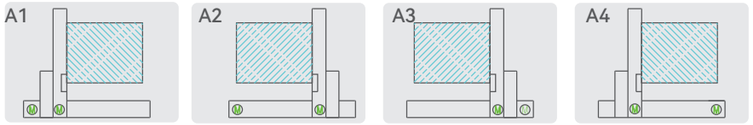




X轴行程 X Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
最高使用速度 Max. Speed (mm/s)	1000															900	800	700	600	500	400	300

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5
最高使用速度 Max. Speed (mm/s)	500								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec →P027
Y 轴详细规格 Y-axis Detail Spec →P023
Z 轴详细规格 Z-axis Detail Spec →P023
马达详细规格 Motor Brand Options →P321

XYSH322-A 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive

XYSH322-A2 尺寸图 Size

A2

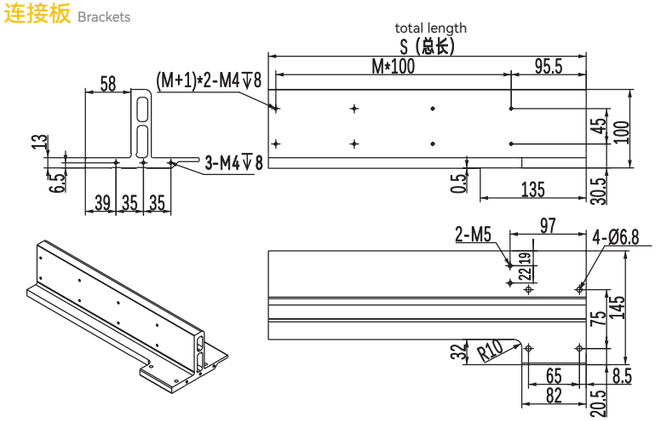
XYSH322-A2 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH322-A2 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
X 轴使用节数 Number of Links Used	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26	27	28	29
Y 轴使用节数 Number of Links Used		14	15	17	18	19	20	21	23	24												

连接板 Brackets

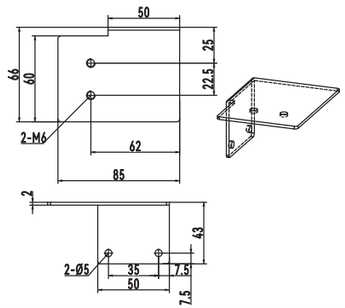


有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

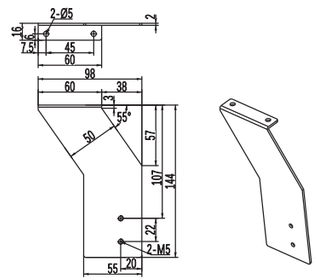
连接板各行程对应物料号
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
26318	100	一体连接板（PSH8）-L205（标准）
26319	150-200	一体连接板（PSH8）-L305（标准）
26320	250-300	一体连接板（PSH8）-L405（标准）
26321	350-400	一体连接板（PSH8）-L505（标准）
26322	450-500	一体连接板（PSH8）-L605（标准）

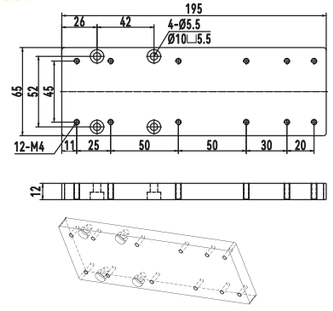
X轴钣金 Sheet Metal of X Axis
料号 Part NO : 25154
材质 Material : SUS304



Y轴钣金 Sheet Metal of Y Axis
料号 Part NO : 25608
材质 Material : SUS304



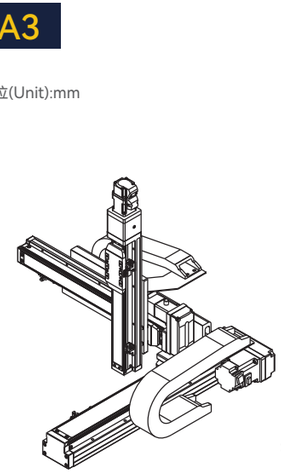
Z轴钣金 Sheet Metal of Z Axis
料号 Part NO : 25155
材质 Material : 6063T5

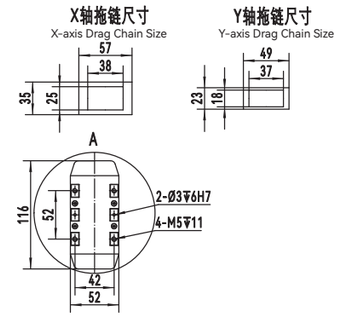


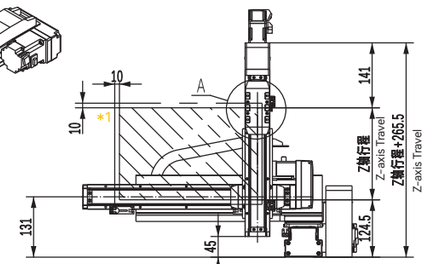
XYSH322-A3 尺寸图 Size

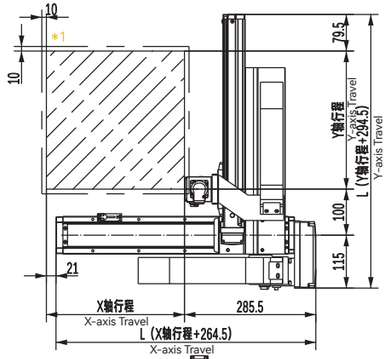
A3

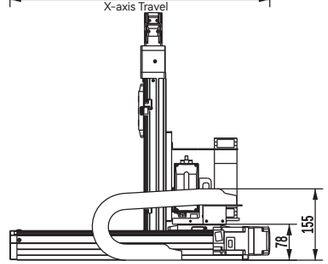
单位(Unit):mm











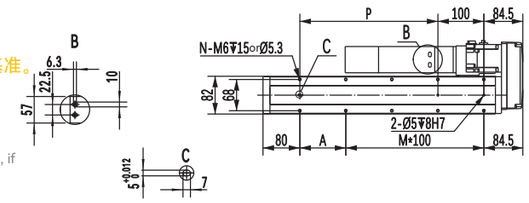
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。
(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，
若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

*4.X轴拖链固定端固定板由客户自行连结。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

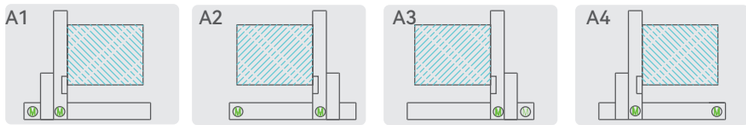
*5.行程50 时, 因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.



X轴行程 X Stroke mm	50-	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
最高使用速度* Max. Speed (mm/s)	1000															900	800	700	600	500	400	300

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5
最高使用速度 Max. Speed (mm/s)	500								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P027
Y 轴详细规格 Y-axis Detail Spec. →P023
Z 轴详细规格 Z-axis Detail Spec. →P023
马达详细规格 Motor Brand Options →P321

XYSH322-A 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive

XYSH322-A3 尺寸图 Size

A3

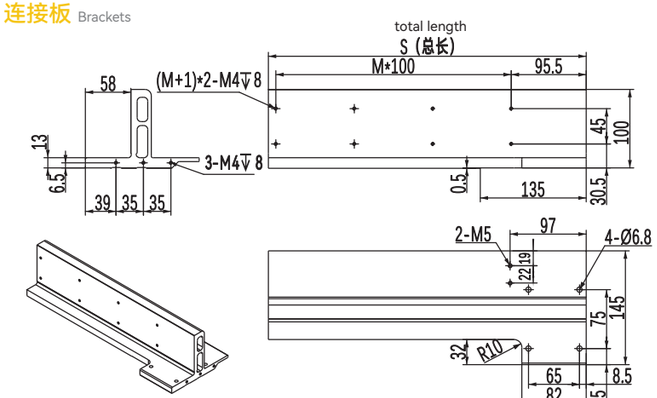
XYSH322-A3 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH322-A3 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
X 轴使用节数 Number of Links Used	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26	27	28	29
Y 轴使用节数 Number of Links Used		14	15	17	18	19	20	21	23	24												

连接板 Brackets



有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

连接板各行程对应物料号

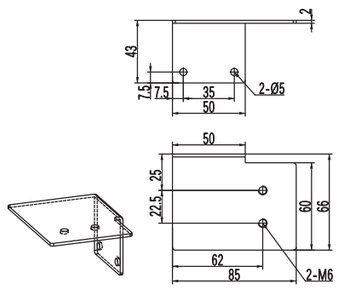
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
26318	100	一体连接板（PSH8）-L205（标准）
26319	150-200	一体连接板（PSH8）-L305（标准）
26320	250-300	一体连接板（PSH8）-L405（标准）
26321	350-400	一体连接板（PSH8）-L505（标准）
26322	450-500	一体连接板（PSH8）-L605（标准）

X轴钣金 Sheet Metal of X Axis

料号 Part NO : 25609

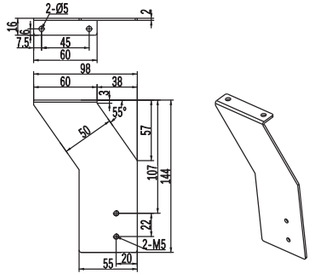
材质 Material : SUS304



Y轴钣金 Sheet Metal of Y Axis

料号 Part NO : 25608

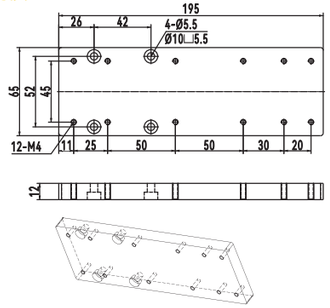
材质 Material : SUS304



Z轴钣金 Sheet Metal of Z Axis

料号 Part NO : 25155

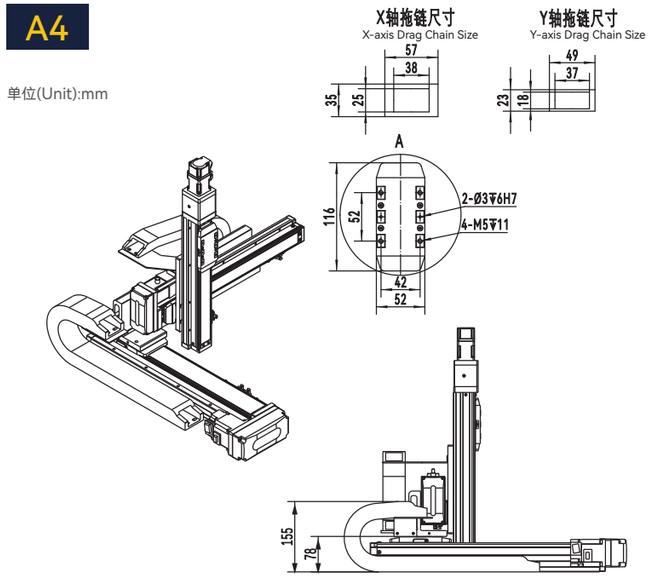
材质 Material : 6063T5



XYSH322-A4 尺寸图 Size

A4

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。

The moving range of returning origin, the stop position of mechanical limit.

*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。

(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。

Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

*4.X轴拖链固定端固定板由客户自行连结。

Fixing plate for X axis moving end of cable chain need to be assembled by customers.

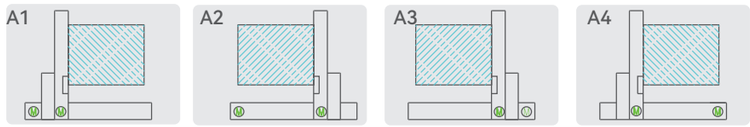
*5.行程50 时, 因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。

When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.

X轴行程 X Stroke mm	50-	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
最高使用速度* Max. Speed (mm/s)	1000															900	800	700	600	500	400	300

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5
最高使用速度 Max. Speed (mm/s)	500								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P027
Y 轴详细规格 Y-axis Detail Spec. →P023
Z 轴详细规格 Z-axis Detail Spec. →P023
马达详细规格 Motor Brand Options →P321

XYSH322-A 3轴/3-Axis

XYSH322-A4 尺寸图 Size

A4

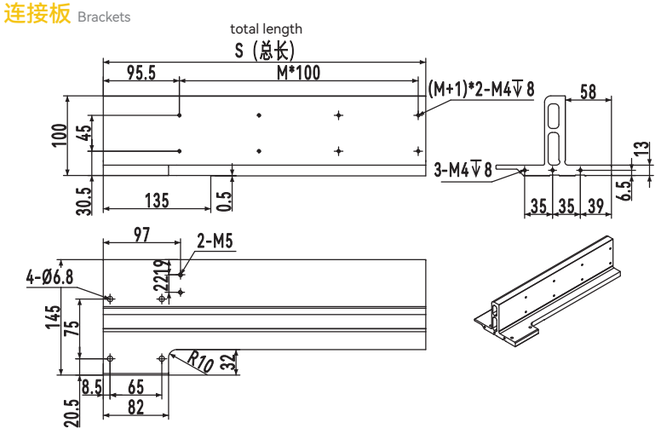
XYSH322-A4 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH322-A4 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
X 轴使用节数 Number of Links Used	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26	27	28	29
Y 轴使用节数 Number of Links Used		14	15	17	18	19	20	21	23	24												

连接板 Brackets



有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

连接板各行程对应物料号

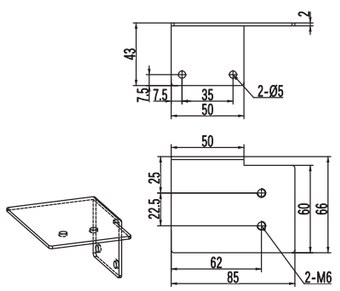
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
25156	100	一体连接板（PSH8）-L205（标准）
25157	150-200	一体连接板（PSH8）-L305（标准）
25158	250-300	一体连接板（PSH8）-L405（标准）
25159	350-400	一体连接板（PSH8）-L505（标准）
25160	450-500	一体连接板（PSH8）-L605（标准）

X轴钣金 Sheet Metal of X Axis

料号 Part NO : 25609

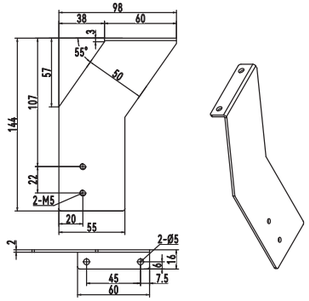
材质 Material : SUS304



Y轴钣金 Sheet Metal of Y Axis

料号 Part NO : 25153

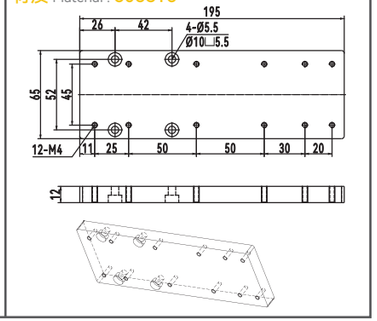
材质 Material : SUS304



Z轴钣金 Sheet Metal of Z Axis

料号 Part NO : 25155

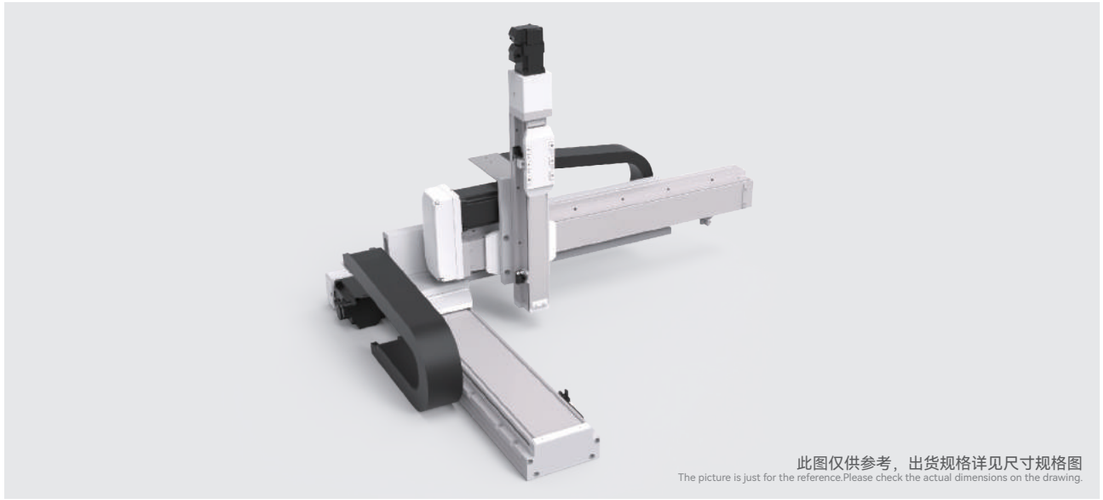
材质 Material : 6063T5



Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

XYSH432-A 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive



最大行程 Maximum Stroke

X轴 X Axis	1250mm
Y轴 Y Axis	500mm
Z轴 Z Axis	350mm

最高速度 Maximum Speed

X轴 X Axis	1000mm/s
Y轴 Y Axis	500mm/s
Z轴 Z Axis	250mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	400W
Y轴 Y Axis	200W
Z轴 Z Axis	100W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSH12	PSH8	PSH5
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	10	5
最高速度 Maximum Speed (mm/s) ※1	1000	500	250
标准行程(50 间隔) Stroke 50 mm Pitch (mm)	50-1100	100-500	50-350
驱动功率 AC Servo Motor Output (w)	400	200	100+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload * 限定水安装。 Only for horizontal installation.

Z 行程 Z Stroke mm \ Y 行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
50	10							8	5
100	10							7.7	4.7
150	10							7.4	4.4
200	10							7.1	4.1
250	10							6.9	3.9
300	10							6.7	3.7
350	10							6.5	3.5

型号表示方式
Model Number Representation

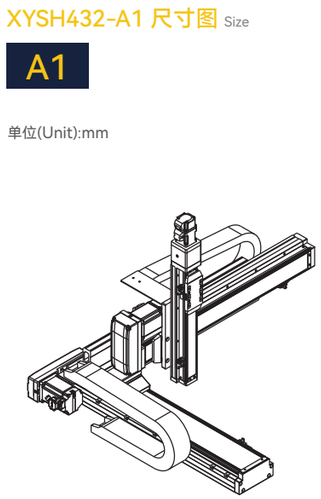
XYSH432 – A1 – 300 – 300 – 300 – C – K – N

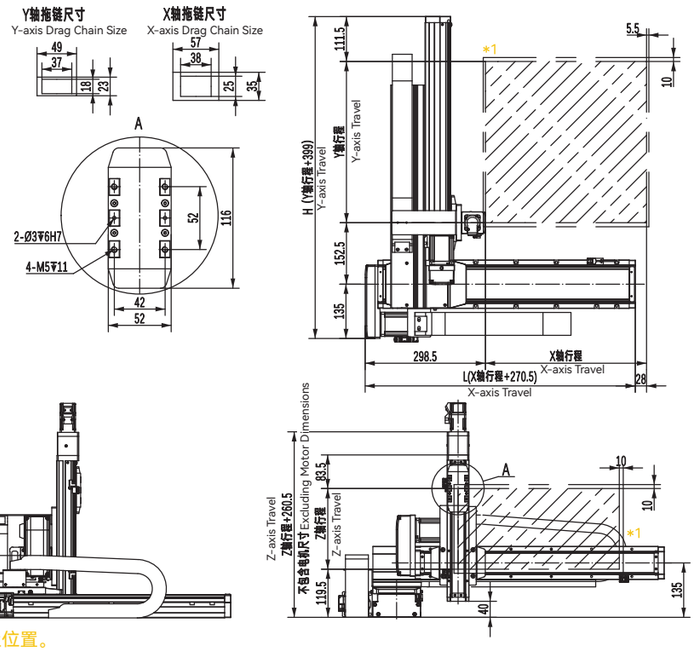
- 本体型号 Model Number
- 组合方向 Direction: 1 / 2 / 3 / 4
- 连接方式 Combination: A 悬臂型 Arm Type
- X轴行程 X Stroke: 50~1250mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~500mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 50~350mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSH432-A1 尺寸图 Size

A1

单位(Unit):mm





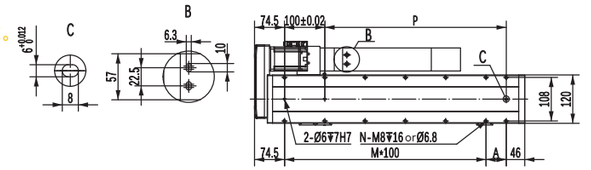
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。
(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，
若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

*4.X轴拖链固定端固定板由客户自行连结。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

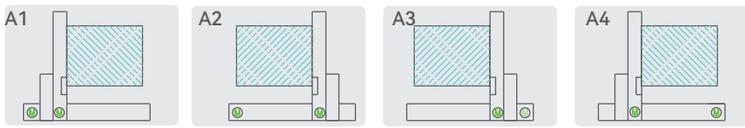
*5.行程50 时, 因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.



X轴行程 X Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1050	1100	1150	1200	1250	1300	1350
最高使用速度 Max. Speed (mm/s)	1000																900	800	700	667	633	600	533	500	467

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500
H	499	549	599	649	699	749	799	849	899
最高使用速度 Max. Speed (mm/s)	500								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P031
Y 轴详细规格 Y-axis Detail Spec. →P027
Z 轴详细规格 Z-axis Detail Spec. →P023
马达详细规格 Motor Brand Options. →P321

XYSH432-A 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive

XYSH432-A1 尺寸图 Size

A1

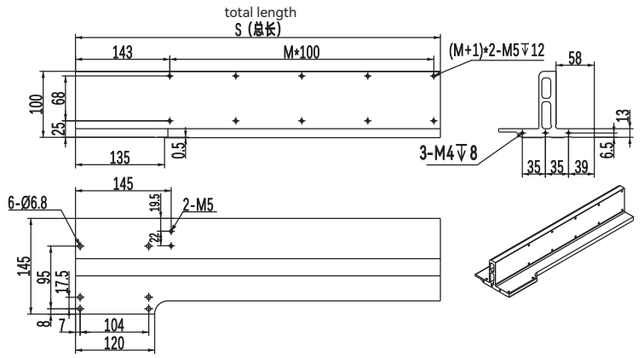
XYSH432-A1 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH432-A1 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
X 轴使用节数 Number of Links Used	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	25	26	27	28	29	31	32	33	34	35
Y 轴使用节数 Number of Links Used		13	14	15	17	18	19	20	21	23															

连接板 Brackets

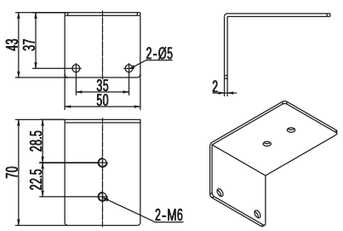


有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

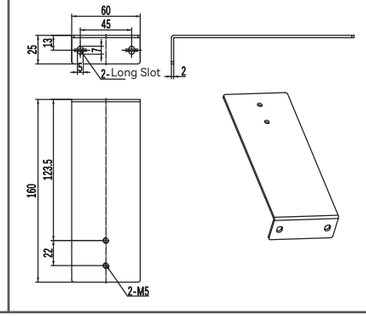
连接板各行程对应物料号
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
25638	100	一体连接板（PSH12）-L253（标准）
25639	150-200	一体连接板（PSH12）-L353（标准）
25640	250-300	一体连接板（PSH12）-L453（标准）
25641	350-400	一体连接板（PSH12）-L553（标准）
25642	450-500	一体连接板（PSH12）-L653（标准）

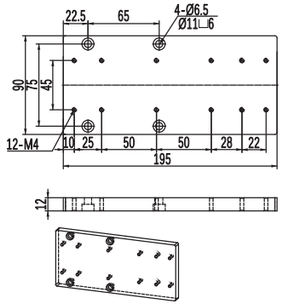
X轴钣金 Sheet Metal of X Axis
料号 Part NO : 25182
材质 Material : SUS304



Y轴钣金 Sheet Metal of Y Axis
料号 Part NO : 25183
材质 Material : SUS304



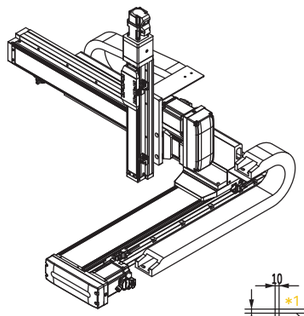
Z轴钣金 Sheet Metal of Z Axis
料号 Part NO : 25184
材质 Material : 6063T5

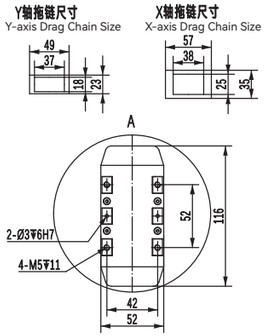


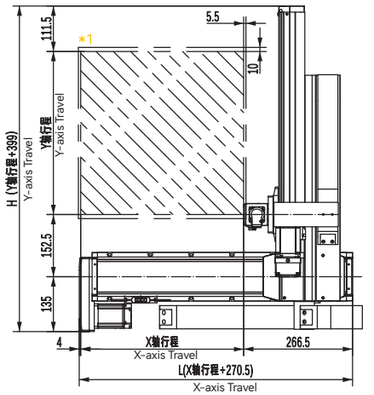
XYSH432-A2 尺寸图 Size

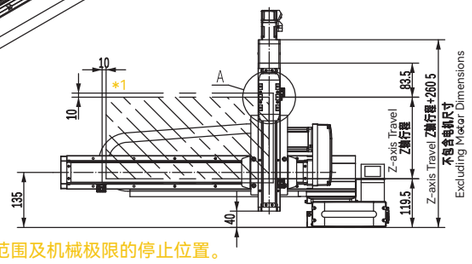
A2

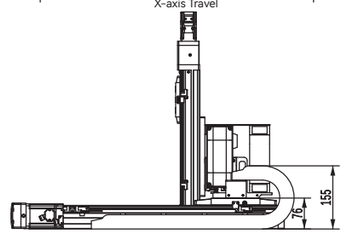
单位(Unit):mm











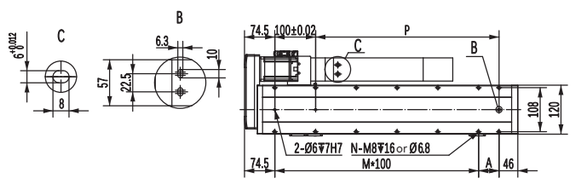
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。
(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，
若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

*4.X轴拖链固定端固定板由客户自行连结。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

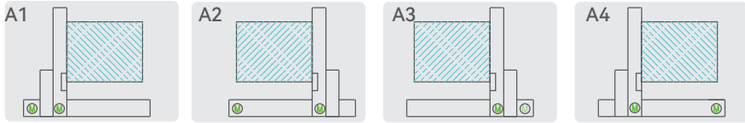
*5.行程50 时, 因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.



X轴行程 X Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1050	1100	1150	1200	1250	1300	1350
最高使用速度* Max. Speed (mm/s)	1000																900	800	700	667	633	600	533	500	467

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500
H	499	549	599	649	699	749	799	849	899
最高使用速度* Max. Speed (mm/s)	500								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P031
Y 轴详细规格 Y-axis Detail Spec. →P027
Z 轴详细规格 Z-axis Detail Spec. →P023
马达详细规格 Motor Brand Options. →P321

XYSH432-A2 尺寸图 Size

A2

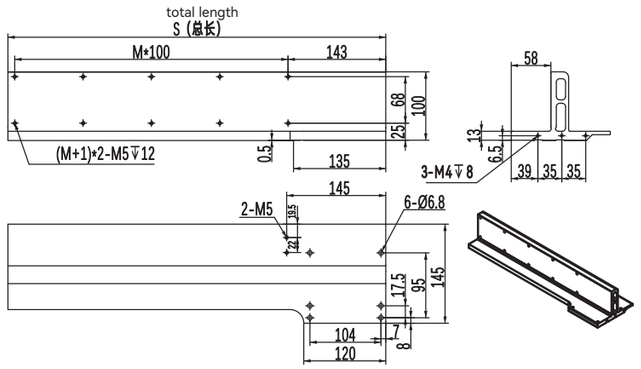
XYSH432-A2 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH432-A2 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
X 轴使用节数 Number of Links Used	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	25	26	27	28	29	31	32	33	34	35
Y 轴使用节数 Number of Links Used		13	14	15	17	18	19	20	21	23															

连接板 Brackets

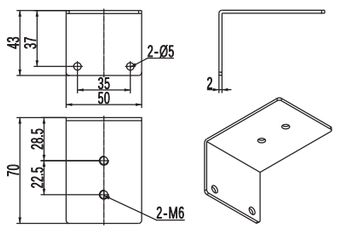


有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

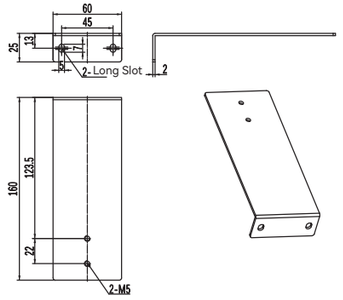
连接板各行程对应物料号
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
26323	100	一体连接板（PSH12）-L253（标准）
26324	150-200	一体连接板（PSH12）-L353（标准）
26325	250-300	一体连接板（PSH12）-L453（标准）
26326	350-400	一体连接板（PSH12）-L553（标准）
26327	450-500	一体连接板（PSH12）-L653（标准）

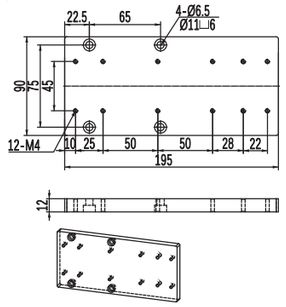
X轴钣金 Sheet Metal of X Axis
料号 Part NO : 25182
材质 Material : SUS304



Y轴钣金 Sheet Metal of Y Axis
料号 Part NO : 25183
材质 Material : SUS304



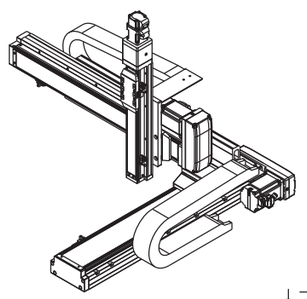
Z轴钣金 Sheet Metal of Z Axis
料号 Part NO : 25184
材质 Material : 6063T5

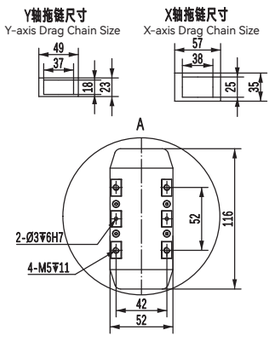


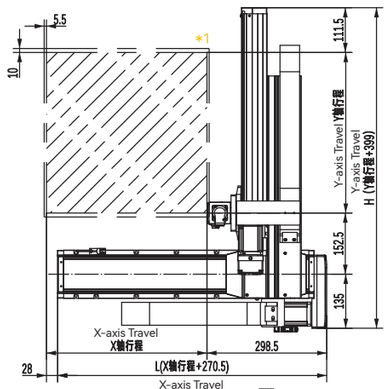
XYSH432-A3 尺寸图 Size

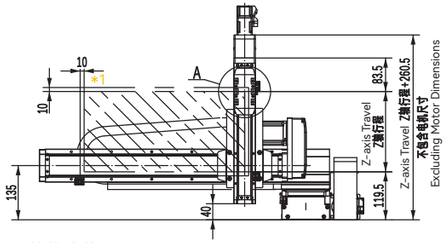
A3

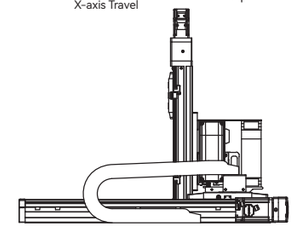
单位(Unit):mm











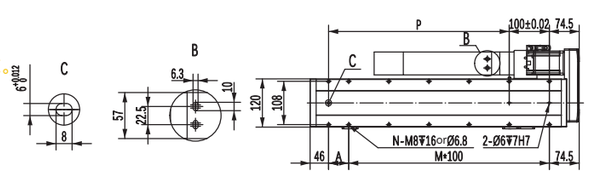
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。
(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，
若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

*4.X轴拖链固定端固定板由客户自行连结。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

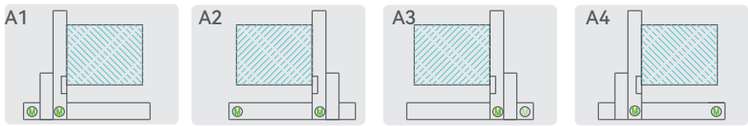
*5.行程50 时, 因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.



X轴行程 X Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1050	1100	1150	1200	1250	1300	1350
最高使用速度* Max. Speed (mm/s)	1000																900	800	700	667	633	600	533	500	467

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500
H	499	549	599	649	699	749	799	849	899
最高使用速度* Max. Speed (mm/s)	500								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P031
Y 轴详细规格 Y-axis Detail Spec. →P027
Z 轴详细规格 Z-axis Detail Spec. →P023
马达详细规格 Motor Brand Options →P321

XYSH432-A 3轴/3-Axis

XYSH432-A3 尺寸图 Size

A3

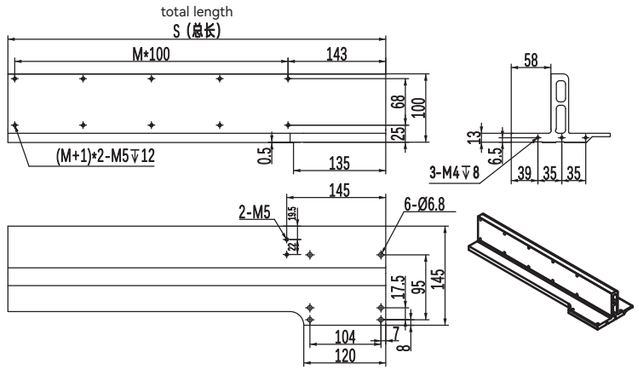
XYSH432-A3 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH432-A3 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
X 轴使用节数 Number of Links Used	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	25	26	27	28	29	31	32	33	34	35
Y 轴使用节数 Number of Links Used		13	14	15	17	18	19	20	21	23															

连接板 Brackets

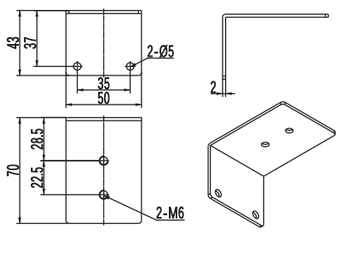


有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

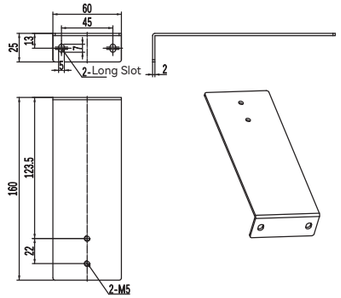
连接板各行程对应物料号
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
26323	100	一体连接板（PSH12）-L253（标准）
26324	150-200	一体连接板（PSH12）-L353（标准）
26325	250-300	一体连接板（PSH12）-L453（标准）
26326	350-400	一体连接板（PSH12）-L553（标准）
26327	450-500	一体连接板（PSH12）-L653（标准）

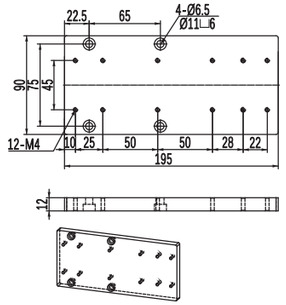
X轴钣金 Sheet Metal of X Axis
料号 Part NO : 25182
材质 Material : SUS304



Y轴钣金 Sheet Metal of Y Axis
料号 Part NO : 25183
材质 Material : SUS304



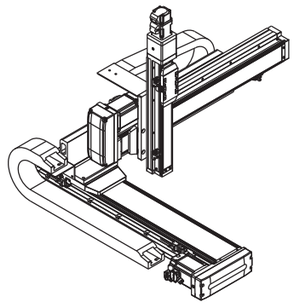
Z轴钣金 Sheet Metal of Z Axis
料号 Part NO : 25184
材质 Material : 6063T5

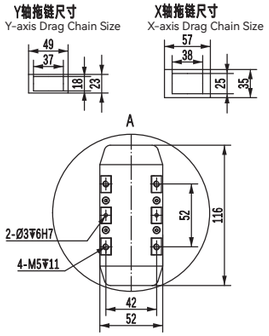


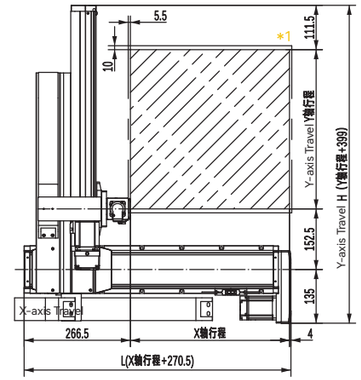
XYSH432-A4 尺寸图 Size

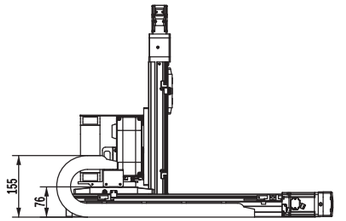
A4

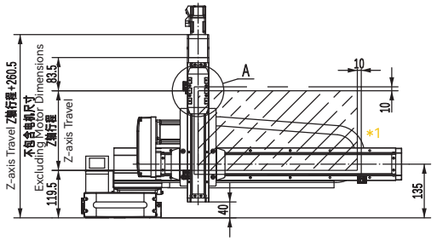
单位(Unit):mm







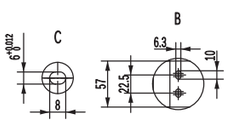


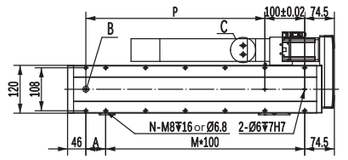


*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高速度(mm/s)是以伺服马达最高转速3000rpm/min为基准。
(Maximum speed is based on the AC servo motor's 3000 RPM)

*3.最高使用速度代表该行程内可使用的最高安全速度，
若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.





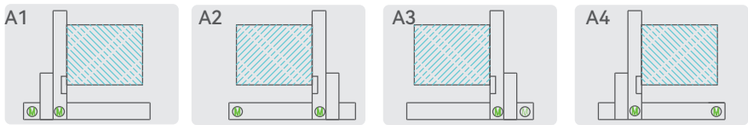
*4.X轴拖链固定端固定板由客户自行连结。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

*5.行程50 时, 因本体上锁式固定孔会被滑座遮住，仅能使用4 支螺丝固定，建议客户本体使用下锁式固定孔锁附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.

X轴行程 X Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1050	1100	1150	1200	1250	1300	1350
最高使用速度* Max. Speed (mm/s)	1000																900	800	700	667	633	600	533	500	467

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500
H	499	549	599	649	699	749	799	849	899
最高使用速度* Max. Speed (mm/s)	500								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P031
Y 轴详细规格 Y-axis Detail Spec. →P027
Z 轴详细规格 Z-axis Detail Spec. →P023
马达详细规格 Motor Brand Options →P321

XYSH432-A 3轴/3-Axis

XYSH432-A4 尺寸图 Size

A4

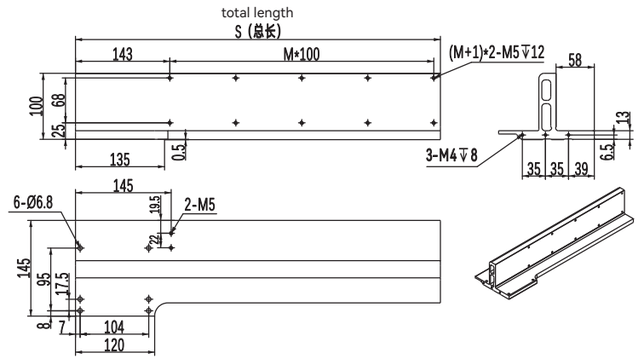
XYSH432-A4 拖链及拖链固定板 Cable Track and Fixing Plate for Track

物料名称 Material name	拖链物料号 Part No of Cable Track	拖链规格 Specification of Cable Track	拖链接头物料号 Part No of Fix Plate	拖链接头规格 Specification of Fixing Plate	拖链头使用数量 Uantity of Fixing Plate
X 轴拖链 X Axis Cable Track	13647	25.38R R55-节距46	13701	拖链接头一对 (泰瑞斯)25.38R(R55)	1
Y 轴拖链 Y Axis Cable Track	13646	18.37R R38-节距33.5	13700	拖链接头一对 (泰瑞斯)18.37R(R38)	1

XYSH432-A4 拖链使用节数数量 Quantity of Pitch Number for Cable Track

轴向 Axis \ 行程 Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
X 轴使用节数 Number of Links Used	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	25	26	27	28	29	31	32	33	34	35
Y 轴使用节数 Number of Links Used		13	14	15	17	18	19	20	21	23															

连接板 Brackets



有效行程 Stroke	100	150	200	250	300	350	400	450	500
S	205	305		405		505		605	
M	1	2		3		4		5	

连接板各行程对应物料号

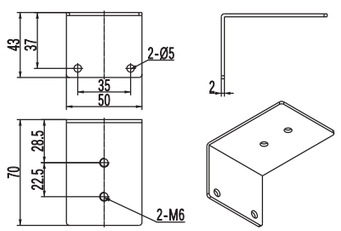
Part Number of Brackets According to Strokes

物料号 Part NO	Y 轴行程 Stroke of Y axis	规格 Specification
25638	100	一体连接板（PSH12）-L253（标准）
25639	150-200	一体连接板（PSH12）-L353（标准）
25640	250-300	一体连接板（PSH12）-L453（标准）
25641	350-400	一体连接板（PSH12）-L553（标准）
25642	450-500	一体连接板（PSH12）-L653（标准）

X轴钣金 Sheet Metal of X Axis

料号 Part NO : 25182

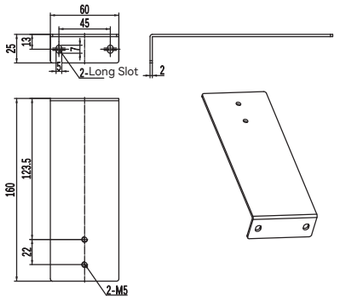
材质 Material : SUS304



Y轴钣金 Sheet Metal of Y Axis

料号 Part NO : 25183

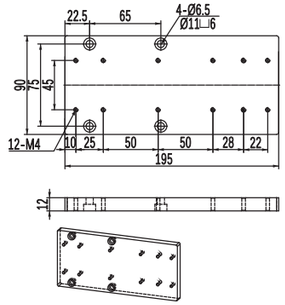
材质 Material : SUS304



Z轴钣金 Sheet Metal of Z Axis

料号 Part NO : 25184

材质 Material : 6063T5



Corporate Culture: The Five Rings Philosophy
Values:Customer-centric, self-critical; engage fully or not at all; if we act, we aim to be the best.
Vision:To become the leading provider in the mechanical transmission industry, recognized as the first choice for our compelling competitive strength.

XYSS & XYBS Series
Cartesian Robot
Multi Axis Ball Screw Type

Product Catalog
CONTENTS

XYSS760-A

Number of Combined Axes: 2-axis
Maximum Load: 35KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Y-axis:650mm
····· 271

XYSS764-A

Number of Combined Axes: 3-axis
Maximum Load: 12KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Y-axis:650mm
Maximum Travel on Z-axis:500mm
····· 273

XYSS760-G

Number of Combined Axes: 2-axis
Maximum Load: 35KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Y-axis:850mm
····· 275

XYSS764-G

Number of Combined Axes: 3-axis
Maximum Load: 12KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Y-axis:850mm
Maximum Travel on Z-axis:650mm
····· 277

XYSS976-G

Number of Combined Axes: 3-axis
Maximum Load: 18KG
Maximum Travel on X-axis:1500mm
Maximum Travel on Y-axis:1050mm
Maximum Travel on Z-axis:550mm
····· 279

XYSS760-P

Number of Combined Axes: 2-axis
Maximum Load: 18KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Z-axis:650mm
····· 281

XYSS770-P

Number of Combined Axes: 2-axis
Maximum Load: 35KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Z-axis:650mm
····· 283

XYSS764-P

Number of Combined Axes: 3-axis
Maximum Load: 8KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Y-axis:500mm
Maximum Travel on Z-axis:650mm
····· 285

XYSS774-P

Number of Combined Axes: 3-axis
Maximum Load: 18KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Y-axis:500mm
Maximum Travel on Z-axis:650mm
····· 287

XYSS776-P

Number of Combined Axes: 3-axis
Maximum Load: 30KG
Maximum Travel on X-axis:1250mm
Maximum Travel on Y-axis:600mm
Maximum Travel on Z-axis:650mm
····· 289

XYBS660-F

Number of Combined Axes: 2-axis
Maximum Load: 10KG
Maximum Travel on X-axis:3050mm
Maximum Travel on Y-axis:650mm
····· 291

XYBS760-F

Number of Combined Axes: 2-axis
Maximum Load: 35KG
Maximum Travel on X-axis:3050mm
Maximum Travel on Y-axis:1050mm
····· 293

XYBS764-G

Number of Combined Axes: 3-axis
Maximum Load: 12KG
Maximum Travel on X-axis:3050mm
Maximum Travel on Y-axis:750mm
Maximum Travel on Z-axis:550mm
····· 295

XYBS976-G

Number of Combined Axes: 3-axis
Maximum Load: 18KG
Maximum Travel on X-axis:3050mm
Maximum Travel on Y-axis:750mm
Maximum Travel on Z-axis:550mm
····· 297

多轴组合说明 Multi-axis combination description

通过单轴滑台的多重组合，我们开发了2 轴及3 轴的多轴手臂操作。

(1) 与垂直多关节机器人相比，低廉的价格。

(2) 巧妙的机械设计实现高刚性直交机器人，能减少的振动和变形。

(3) 单轴滑台各式各样可能的组合。

Multi axis combination explanation.We have developed 2 and 3 axes multi axis actuator through the multiple combinations of single axis actuators.

(1) Low cost compared with vertical multi joints robot.

(2) Ingenious mechanical design making Cartesian robots achieve high rigidity for reducing vibration and deformation.

(3) Multiple combination of single axis actuator.

悬臂型
Arm Type

此型为移动Y 轴带动工件物。
The type with moving Y-axis carriage.

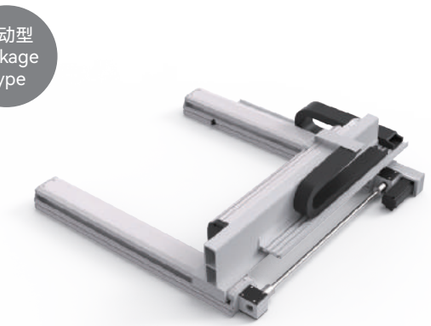
龙门型
Gantry Type

此型为移动Y 轴，侧边有支撑导杆架着。
The type with guide railing at the end of Y-axis for support.

极坐标型
Moving Arm Type

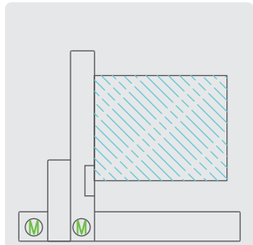
此型为垂直移动Z 轴带动工件物。
The type with vertically moving Y-axis carriage.

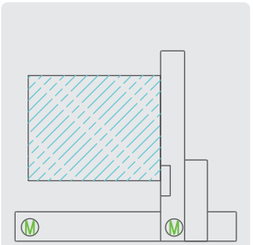
联动型
Linkage Type



此型为X轴水平联合运动，使用同步带驱动。
This type is the X-axis horizontal joint movement, which is driven by a synchronous belt.

ARM VARIATIONS


A1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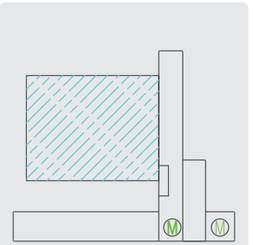
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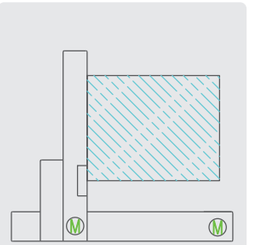
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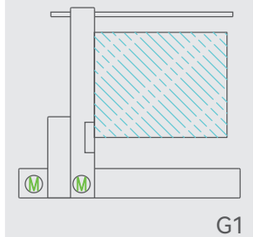
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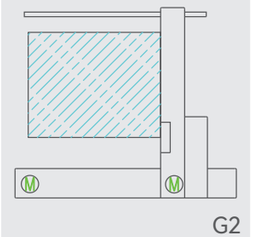
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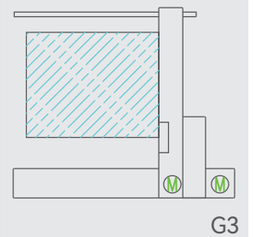
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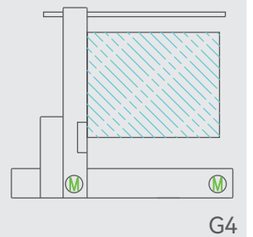
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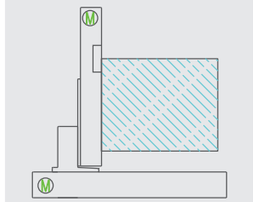
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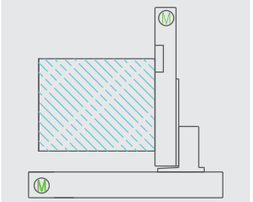
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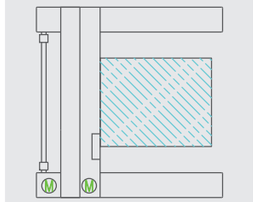
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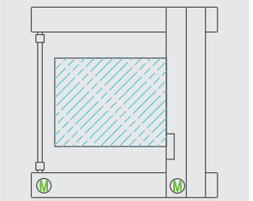
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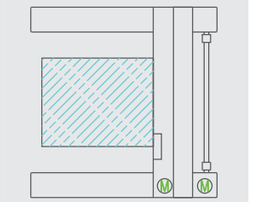
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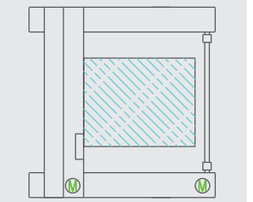

F4

使用环境 Use Where	传动方式 Driven Mode	型号 Model	连接型式 Combination	连接轴数 Axis Numbers	各轴导程 Lead			各轴最高速度"1 Maximum Speed(mm/s)			各轴行程范围 Stroke(mm)			Y 轴行程及负荷轴 (Y 轴或 Z 轴) 最大可搬重量"2 Y-axis Stroke (mm) and payload axis' (Y-axis or Z-axis) maximum payload (kg)										页码 Page
					X 轴 X axis	Y 轴 Y axis	Z 轴 Z axis	X 轴 X axis	Y 轴 Y axis	Z 轴 Z axis	X 轴 X axis	Y 轴 Y axis	Z 轴 Z axis	行程 Stroke 100	150	250	350	450	550	650	750	850	950	1050	
一般环境 Semi-enclosed	滚珠丝杆 Ball Screw	XYSS760-A	悬臂型 (A) Arm Type	2 轴 2-axis	L20	L20	—	1000	1000	—	100-1250	100-650	—	—	—	35	35	29	25	20					271
		XYSS764-A		3 轴 3-axis	L20	L20	L5	1000	1000	250	100-1250	100-650	100-500	12	12	12	12	12							273
		XYSS760-G	龙门型 (G) Gantry Type	2 轴 2-axis	L10	L20	—	500	1000	—	100-1250	250-850	—	—	—	35	35	35	35	34	32	30			275
		XYSS764-G		3 轴 3-axis	L20	L20	L5	1000	1000	250	100-1250	250-850	100-650	12	12	12	12	12	12	12					277
		XYSS976-G			L25	L20	L10	1250	1000	500	100-1500	250-1050	100-550	18	18	18	18	18	18						279
		XYSS760-P	极坐标型 (B) Moving Arm Type	2 轴 2-axis	L20	—	L10	1000	—	500	100-1250	—	100-650	18	18	18	18	18	18	18					281
		XYSS770-P			L20	—	L10	1000	—	500	100-1250	—	100-650	35	35	35	35	35	35	35					283
		XYSS764-P		3 轴 3-axis	L20	L10	L10	1000	500	500	100-1250	100-500	100-650	8	8	7	5	3							285
		XYSS774-P			L20	L10	L10	1000	500	500	100-1250	100-500	100-650	18	18	15	11	6							287
		XYSS776-P			L20	L10	L10	1000	500	500	100-1250	100-600	100-650	30	30	29	24	17	9						289
	Hybrid drive 混合驱动	XYBS660-F	联动型 (F) Linkage Type	2 轴 2-axis	R40	L20	—	2000	1000	—	100-3050	250-650	—	—	—	10	8	6	4	2					291
		XYBS760-F			R40	L20	—	2000	1000	—	100-350	250-1050	—	—	—	35	34	32	30	28	26	24	22	20	293
		XYBS764-G	龙门型 (G) Gantry Type	3 轴 3-axis	R40	L20	L5	2000	1000	250	400-3050	250-750	100-550	12	12	12	12	12	12						295
		XYBS976-G			R40	L20	L10	2000	1000	500	600-3050	250-750	100-550	18	18	18	18	18	18						297

*注 Notes:

1.这里提到的各轴最高速度，是指在单轴滑台模组安装伺服电机并设定电机额定转速为3000r/min时的速度。然而，随着各轴向自身（或载荷）重量的增加，加速和减速曲线会变得更平缓，如果移动距离较短，可能无法达到标注的最高速度。请注意，无法达到单轴运行的最高速度，并不代表产品有问题。
The maximum speed mentioned here for each axis refers to the speed when a servo motor is installed on a single-axis slide table module and the motor's rated speed is set to 3000r/min. However, as the weight of each axis (or load) increases, the acceleration and deceleration curves will become more gradual. If the movement distance is short, it may not be possible to reach the indicated maximum speed. Please note, not being able to reach the maximum speed of single-axis operation does not indicate a product defect.

2. 上述表格中的最大可搬运重量是通过力学模拟计算得出的。在实际应用中，请结合载具设计和轴向重心进行验证和计算，以对抗由于滑台模组（材质为挤压型铝材）力矩造成的形变，以便找到最佳的使用组合。如果需要技术支持，请联系我们的销售人员。
The maximum load capacity indicated in the above table is derived from mechanical simulation calculations. In actual application, please verify and calculate in conjunction with the design of the carrying tool and the axial center of gravity, to counteract the deformation caused by torque on the slide table module (made of extruded aluminum material), so as to find the best usage combination. If technical support is needed, please contact our sales personnel.

XYSS760-A 2轴/2-Axis

滚珠丝杆驱动
Ball Screw Drive

此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis 1250mm　Y轴 Y Axis 650mm

最高速度 Maximum Speed

X轴 X Axis 1000mm/s　Y轴 Y Axis 1000mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis 750W　Y轴 Y Axis 400W

最大行程 Maximum Stroke

项目 Item	X 轴 X Axis	Y 轴 Y Axis
单轴型号 Model Type	PSS170	PSS140
重复定位 Repeatability (mm)	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	20
最高速度 Maximum Speed (mm/s) ※1	1000	1000
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-1250	100-650
驱动功率 AC Servo Motor Output (w)	750	400
使用环境 Environment	0~40℃,85% RH Below	

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650
Y轴载重 Y Payload (kg)	35	35	33	31	29	27	25	23	20

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

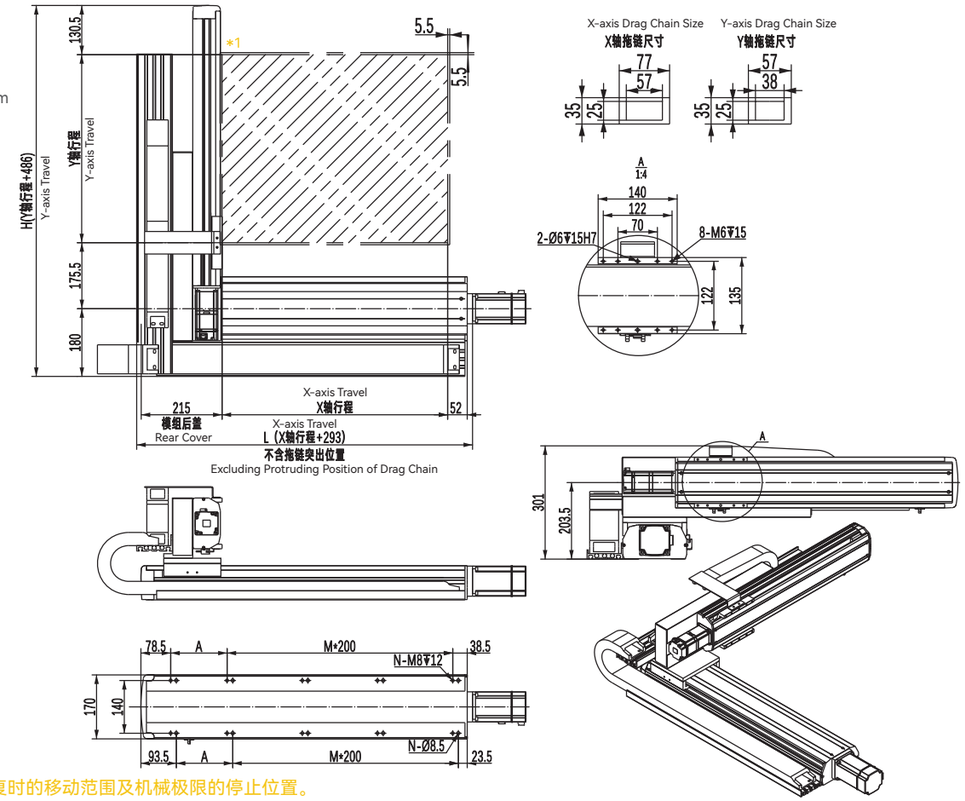
XYSS760 – A1 – 300 – 300 – C – K – N

- 本体型号 Model Number: XYSS760
- 连接方式 Combination: A 悬臂型 Arm Type
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model: N

XYSS760-A1 尺寸图 Size

A1

单位(Unit):mm



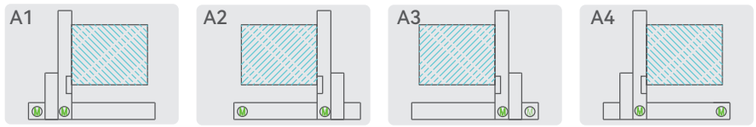
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度 Max. Speed (mm/s)	1000																900		800		700		600	

Y轴行程 Y Stroke mm	200	250	300	350	400	450	500	550	600	650
H	686	736	786	836	886	936	986	1036	1086	1136
Y 轴载重 Y Payload (kg)	35	35	35	33	31	29	27	25	23	20
最高使用速度 Max. Speed (mm/s)	1000									

连接方式 Combination Direction

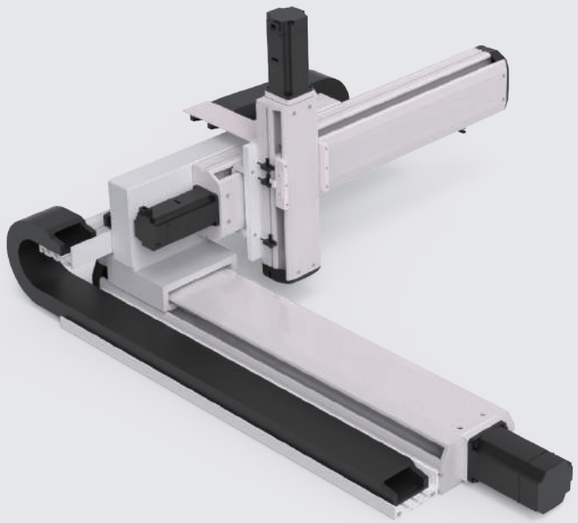


配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec →P067
- Y 轴详细规格 Y-axis Detail Spec →P061
- Z 轴详细规格 Z-axis Detail Spec —
- 马达详细规格 Motor Brand Options →P321

XYSS764-A 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
1250mm	650mm	500mm

最高速度 Maximum Speed

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
1000mm/s	1000mm/s	250mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
750W	200W	200W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS170	PSS140	PSS120
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	20	5
最高速度 Maximum Speed (mm/s) ※1	1000	1000	250
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-1250	100-650	100-500
驱动功率 AC Servo Motor Output (w)	750	200	200+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
Z轴载重 Y Payload (kg)	12	12	12	12	12	12	12	12	12

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

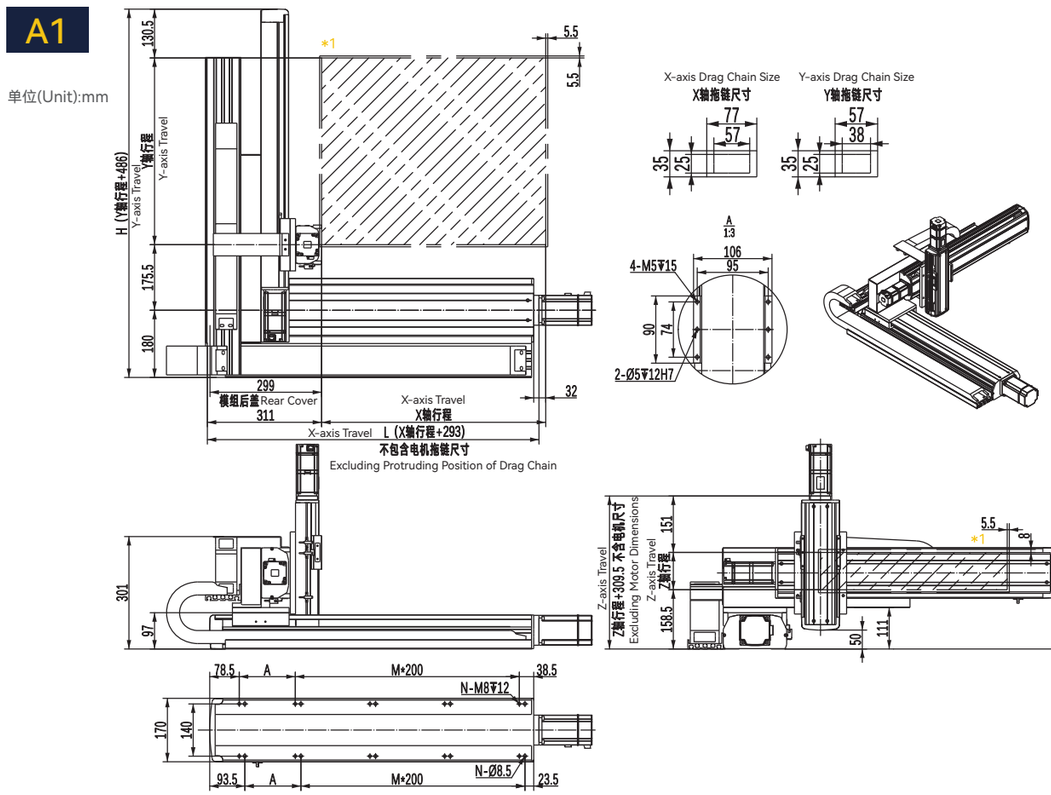
XYSS764 – A1 – 500 – 300 – 300 – C – K – N

- 本体型号 Model Number: XYSS764
- 连接方式 Combination: A 悬臂型 Arm Type
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~650mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~500mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model: N

XYSS764-A1 尺寸图 Size

A1

单位(Unit):mm



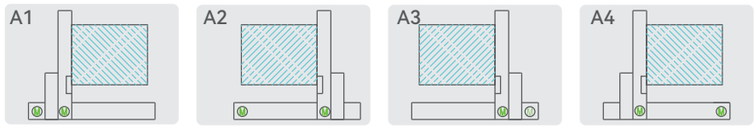
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度 Max. Speed (mm/s)	1000																900		800		700		600	

Y轴行程 Y Stroke mm	200	250	300	350	400	450	500	550	600	650
H	686	736	786	836	886	936	986	1036	1086	1136
最高使用速度 Max. Speed (mm/s)	1000									

连接方式 Combination Direction

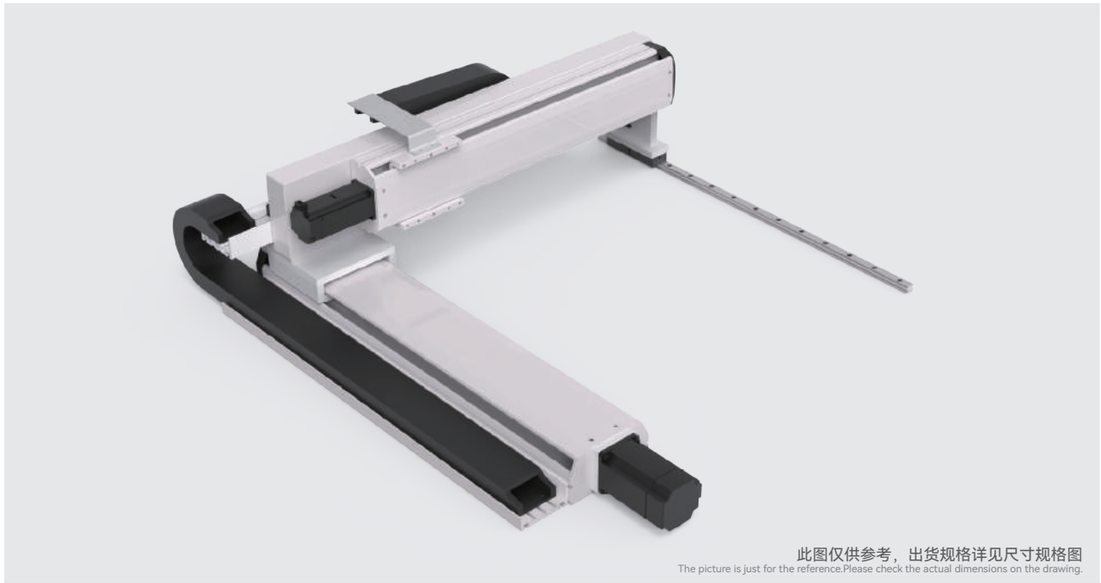


配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec. →P067
- Y 轴详细规格 Y-axis Detail Spec. →P061
- Z 轴详细规格 Z-axis Detail Spec. →P051
- 马达详细规格 Motor Brand Options. →P321

XYSS760-G 2轴/2-Axis

滚珠丝杆驱动
Ball Screw Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis 1250mm　Y轴 Y Axis 850mm

最高速度 Maximum Speed

X轴 X Axis 500mm/s　Y轴 Y Axis 1000mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis 750W　Y轴 Y Axis 400W

最大行程 Maximum Stroke

项目 Item	X 轴 X Axis	Y 轴 Y Axis
单轴型号 Model Type	PSS170	PSS140
重复定位 Repeatability (mm)	±0.01	±0.01
导程 Ball Screw Lead (mm)	10	20
最高速度 Maximum Speed (mm/s) ※1	500	1000
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-1250	250-850
驱动功率 AC Servo Motor Output (w)	750	400
使用环境 Environment	0~40℃,85% RH Below	

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650	700	750	800	850
Y轴载重 Y Payload (kg)	35	35	35	35	35	35	35	35	34	33	32	31	30

* 限定水安装。Only for horizontal installation.

型号表示方式
Model Number Representation

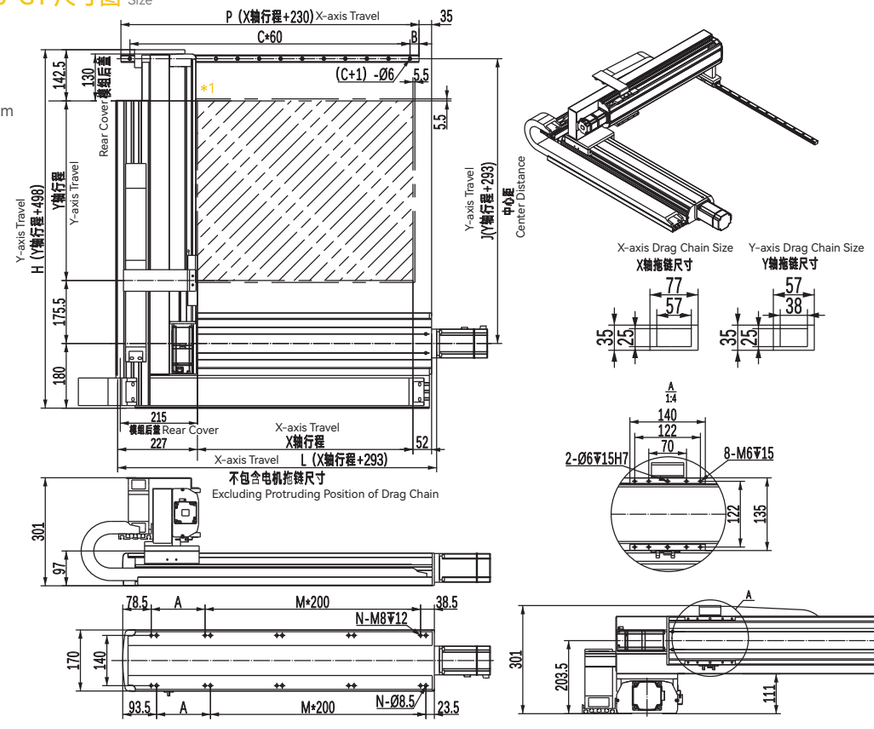
XYSS760 – G1 – 300 – 300 – C – K – N

- 本体型号 Model Number: XYSS760
- 连接方式 Combination: G 龙门型 Gantry
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 250~850mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS760-G1 尺寸图 Size

G1

单位(Unit):mm



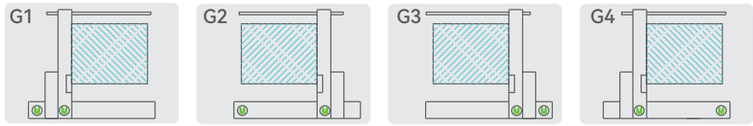
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543
P	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
B	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20
C	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23	24
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度 Max. Speed (mm/s)	500																450		400		350		300	

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650	700	750	800	850
H	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348
Y 轴载重 Y Payload (kg)	35	35	35	35	35	35	35	35	34	33	32	31	30
最高使用速度 Max. Speed (mm/s)	1000												

连接方式 Combination Direction

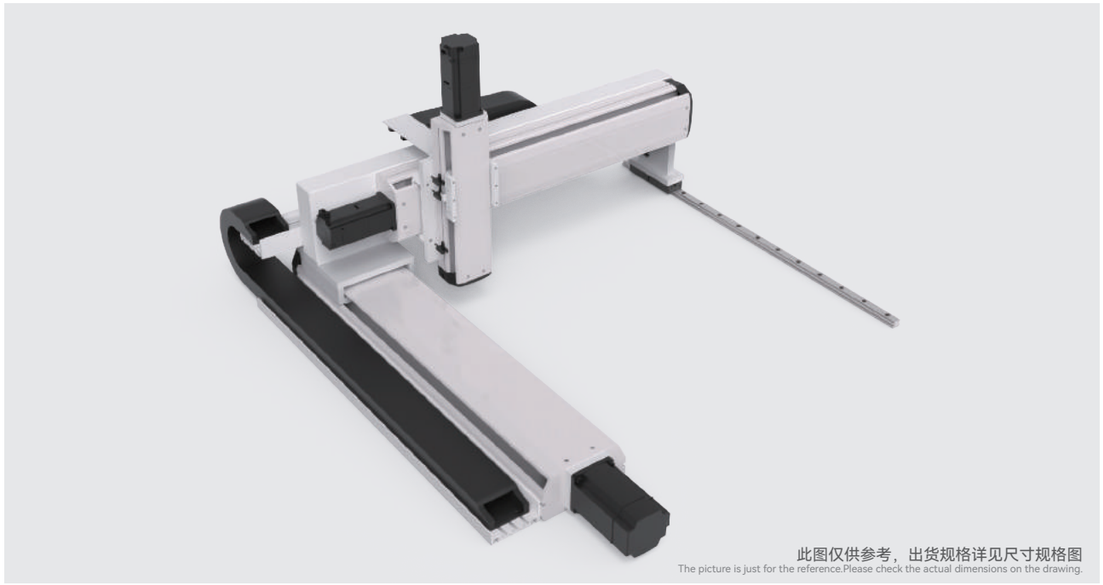


配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec →P067
- Y 轴详细规格 Y-axis Detail Spec →P061
- Z 轴详细规格 Z-axis Detail Spec —
- 马达详细规格 Motor Brand Options →P321

XYSS764-G 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	1250mm	Y轴 Y Axis	850mm	Z轴 Z Axis	650mm

最高速度 Maximum Speed

X轴 X Axis	1000mm/s	Y轴 Y Axis	1000mm/s	Z轴 Z Axis	250mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	750W	Y轴 Y Axis	400W	Z轴 Z Axis	200W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS170	PSS140	PSS120
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	20	5
最高速度 Maximum Speed (mm/s) ※1	1000	1000	250
标准行程(50 间隔) Stroke 50 mm Pitch (mm)	100-1250	250-850	100-650
驱动功率 AC Servo Motor Output (w)	750	400	200+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
Z轴载重 Y Payload (kg)	12	12	12	12	12	12	12	12	12	12	12	12

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

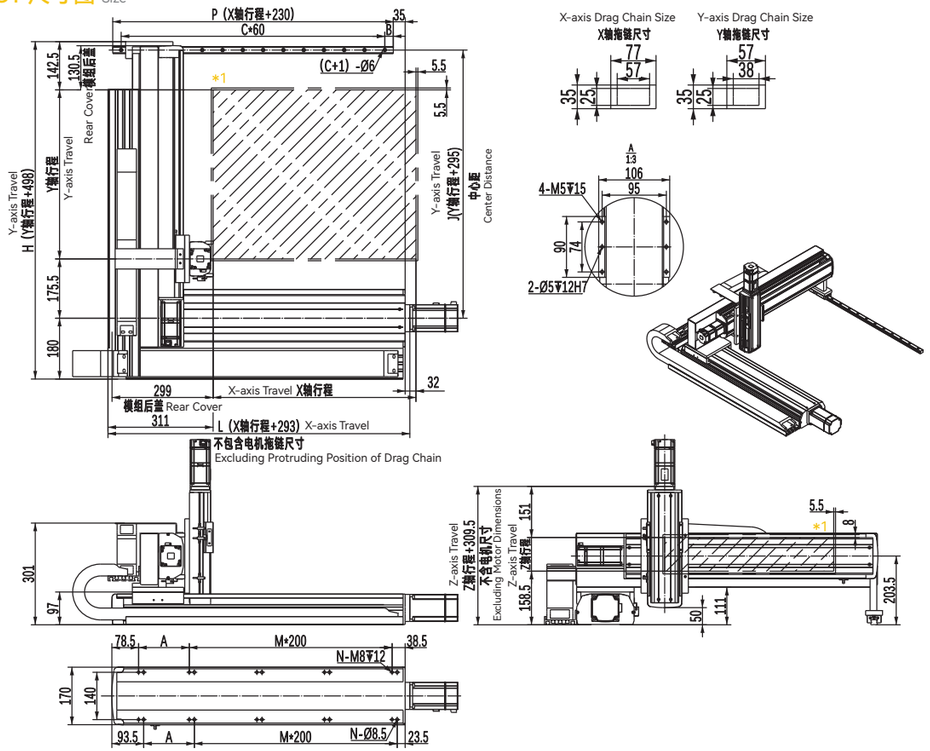
XYSS764 – G1 – 800 – 500 – 500 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination: G 龙门型 Gantry
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 250~850mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS764-G1 尺寸图 Size

G1

单位(Unit):mm



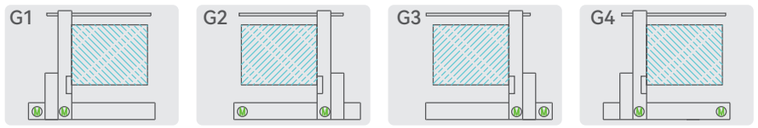
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543
P	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
B	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20
C	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23	24
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度 Max. Speed (mm/s)	1000																900		800		700		600	

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650	700	750	800	850
H	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348
最高使用速度 Max. Speed (mm/s)	1000												

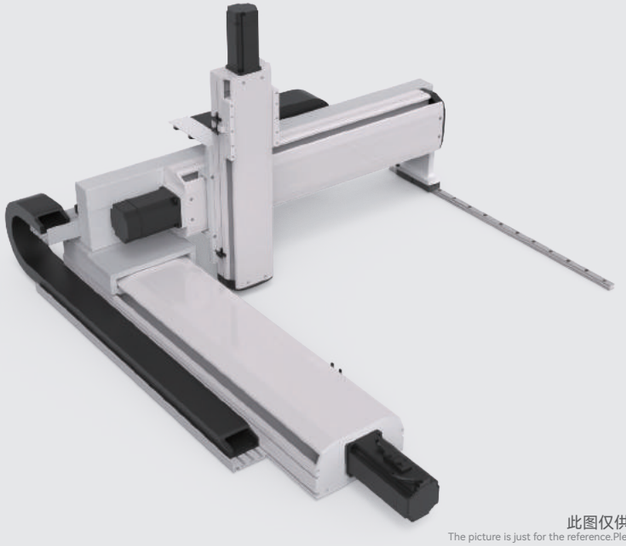
连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec →P067
Y 轴详细规格 Y-axis Detail Spec →P061
Z 轴详细规格 Z-axis Detail Spec →P051
马达详细规格 Motor Brand Options →P321

XYSS976-G 3轴/3-Axis



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
1500mm	750mm	550mm

最高速度 Maximum Speed

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
1250mm/s	1000mm/s	500mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
750W	750W	400W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS220	PSS170	PSS140
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	25	20	10
最高速度 Maximum Speed (mm/s) ※1	1250	1000	500
标准行程(50 间隔) Stroke 50 mm Pitch (mm)	100-1500	250-1050	100-550
驱动功率 AC Servo Motor Output (w)	750	750	400+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550
Z轴载重 Z Payload (kg)	18	18	18	18	18	18	18	18	18	18

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

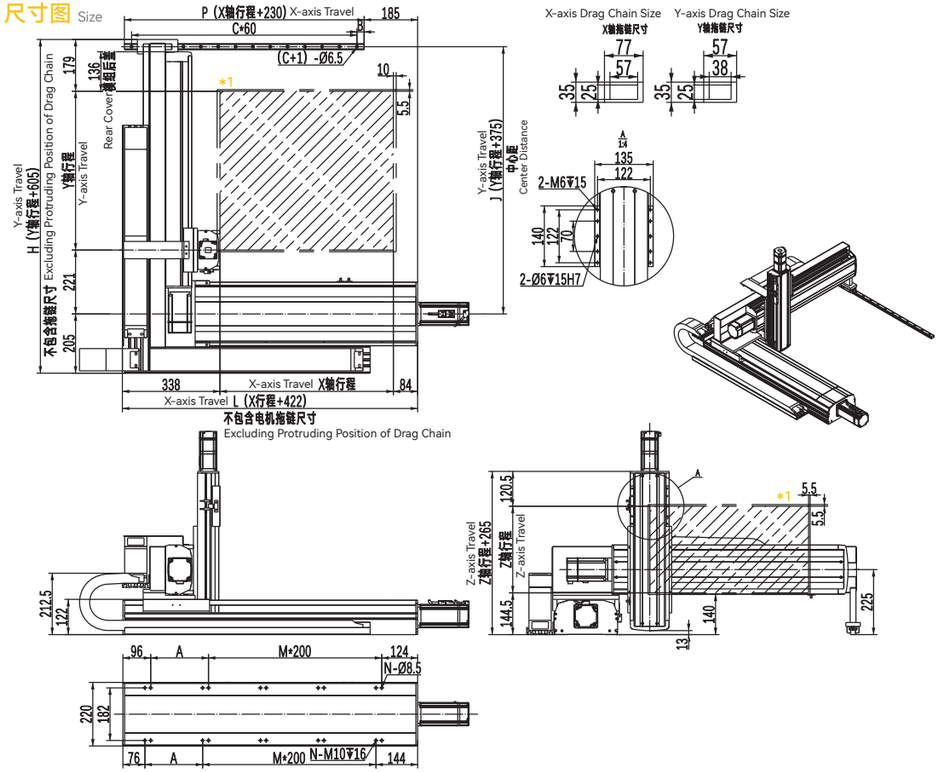
XYSS976 – G1 – 800 – 500 – 500 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination: G 龙门型 Gantry
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 100~1500mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 250~1050mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~550mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS976-G1 尺寸图 Size

G1

单位(Unit):mm



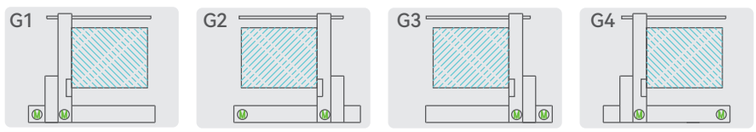
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272	1322	1372	1422	1472	1522	1572	1622	1672	1722	1772	1822	1872	1922
P	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730
B	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25
C	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23	24	25	26	26	27	28
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
最高使用速度* Max. Speed (mm/s)	1250																	1125	1000		875		750		625		500		

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
H	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655
最高使用速度* Max. Speed (mm/s)	1000																

连接方式 Combination Direction



配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec →P075
- Y 轴详细规格 Y-axis Detail Spec →P067
- Z 轴详细规格 Z-axis Detail Spec →P061
- 马达详细规格 Motor Brand Options →P321

XYSS760-P 2轴/2-Axis

滚珠丝杆驱动
Ball Screw Drive

此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis 1250mm　Z轴 Z Axis 650mm

最高速度 Maximum Speed

X轴 X Axis 1000mm/s　Z轴 Z Axis 500mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis 750W　Z轴 Z Axis 400W+刹车 Break

最大行程 Maximum Stroke

项目 Item	X 轴 X Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS170	PSS140
重复定位 Repeatability (mm)	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	10
最高速度 Maximum Speed (mm/s) ※1	1000	500
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-1250	100-650
驱动功率 AC Servo Motor Output (w)	750	400+刹车 Break
使用环境 Environment	0~40℃,85% RH Below	

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
Z轴载重 Y Payload (kg)	18	18	18	18	18	18	18	18	18	18	18	18

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

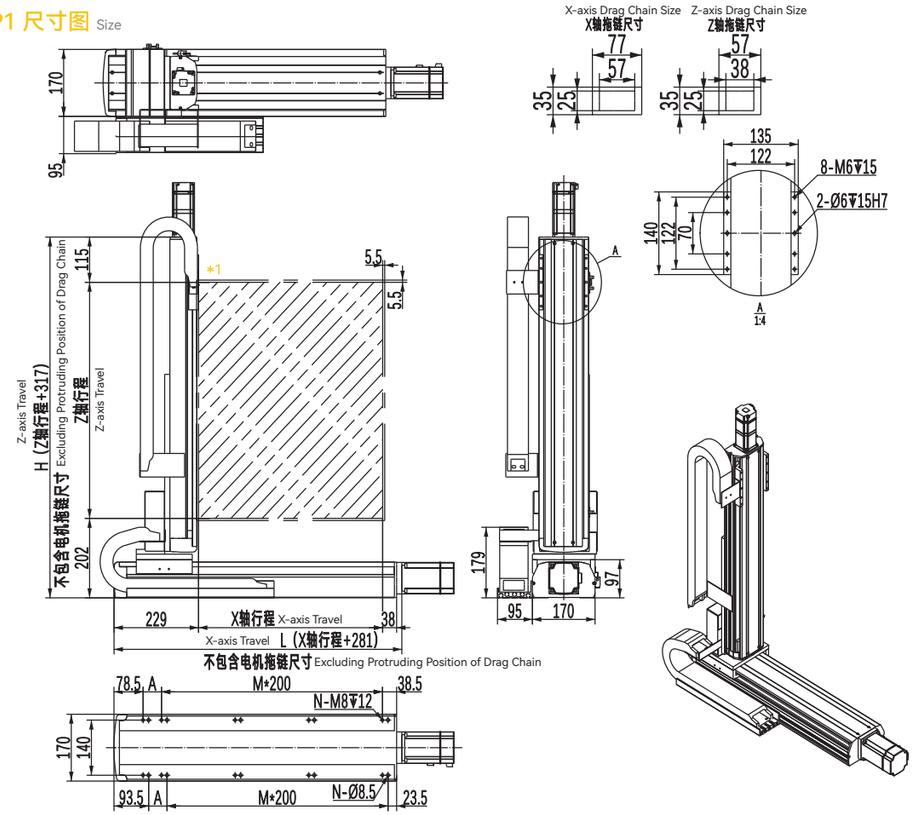
XYSS760 – P1 – 800 – 300 – C – K – N

- 本体型号 Model Number: XYSS760
- 连接方式 Combination: P 极坐标型 Polar Type
- 组合方向 Direction: 1 / 2
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS760-P1 尺寸图 Size

P1

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.Z 轴总高度会依搭配的马达品牌及型号而变动。
The total height of Z-axis is depends on different motor's brands.

*3.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度 Max. Speed (mm/s)	1000																900		800		700		600	

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
H	417	467	517	567	617	667	717	767	817	867	917	967
Z 轴载重 Z Payload (kg)	18	18	18	18	18	18	18	18	18	18	18	18
最高使用速度 Max. Speed (mm/s)	500											

连接方式 Combination Direction

配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec. →P067
- Y 轴详细规格 Y-axis Detail Spec. —
- Z 轴详细规格 Z-axis Detail Spec. →P061
- 马达详细规格 Motor Brand Options. →P321

XYSS770-P 2轴/2-Axis

滚珠丝杆驱动
Ball Screw Drive

此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis 1250mm　Z轴 Z Axis 650mm

最高速度 Maximum Speed

X轴 X Axis 1000mm/s　Z轴 Z Axis 500mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis 750W　Z轴 Z Axis 750W+刹车 Break

最大行程 Maximum Stroke

项目 Item	X 轴 X Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS170	PSS170
重复定位 Repeatability (mm)	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	10
最高速度 Maximum Speed (mm/s) ※1	1000	500
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-1250	100-650
驱动功率 AC Servo Motor Output (w)	750	750+刹车 Break
使用环境 Environment	0~40℃,85% RH Below	

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
Z轴载重 Y Payload (kg)	35	35	35	35	35	35	35	35	35	35	35	35

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

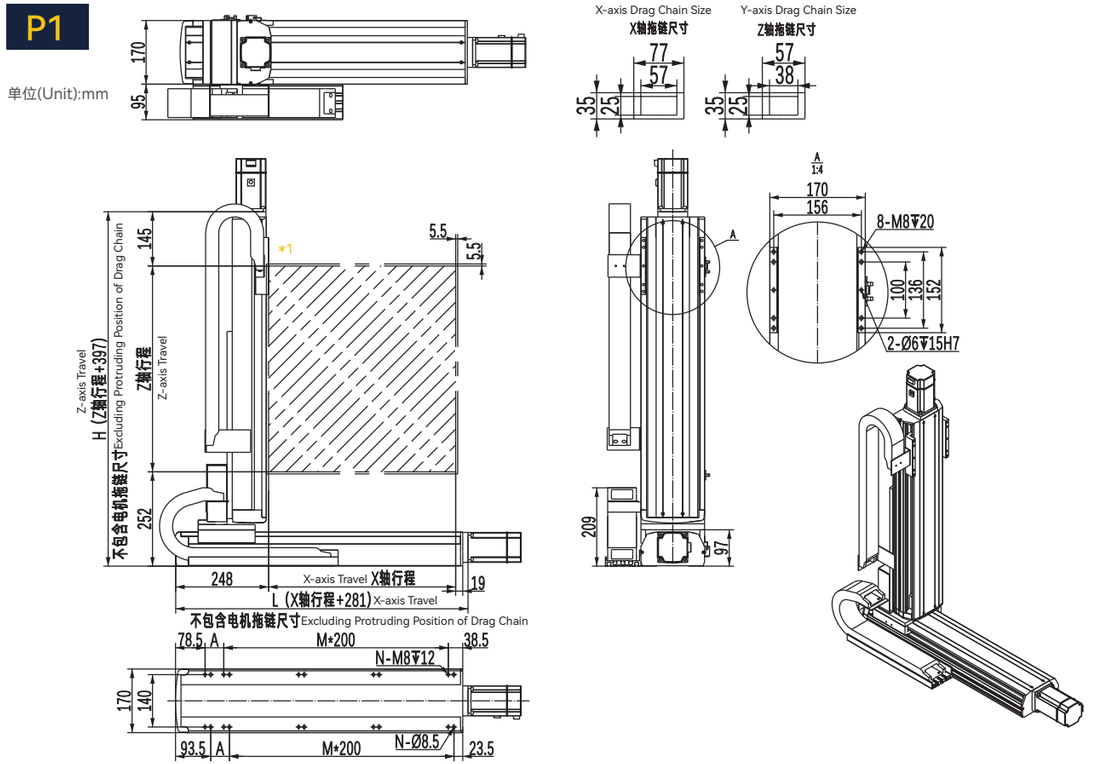
XYSS770 – P1 – 800 – 300 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination: P 极坐标型 Polar Type
- 组合方向 Direction: 1 / 2
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS770-P1 尺寸图 Size

P1

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.Z 轴总高度会依搭配的马达品牌及型号而变动。
The total height of Z-axis is depends on different motor's brands.

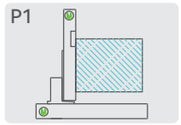
*3.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度· Max. Speed (mm/s)	1000																900		800		700		600	

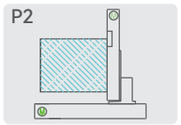
Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
H	497	547	597	647	697	747	797	847	897	947	997	1047
Z 轴载重 Z Payload (kg)	35	35	35	35	35	35	35	35	35	35	35	35
最高使用速度· Max. Speed (mm/s)	500											

连接方式 Combination Direction

P1



P2



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec →P067　Y 轴详细规格 Y-axis Detail Spec —

Z 轴详细规格 Z-axis Detail Spec →P067　马达详细规格 Motor Brand Options →P321

XYSS764-P 3轴/3-Axis

此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	1250mm	Y轴 Y Axis	500mm	Z轴 Z Axis	650mm

最高速度 Maximum Speed

X轴 X Axis	1000mm/s	Y轴 Y Axis	500mm/s	Z轴 Z Axis	500mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	750W	Y轴 Y Axis	200W	Z轴 Z Axis	400W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS170	PSS120	PSS140
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	10	10
最高速度 Maximum Speed (mm/s) ※1	1000	500	500
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-1250	100-500	100-650
驱动功率 AC Servo Motor Output (w)	750	200	400+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
Y轴载重 Y Payload (kg)	8	8	7	7	6	5	4	3	2

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

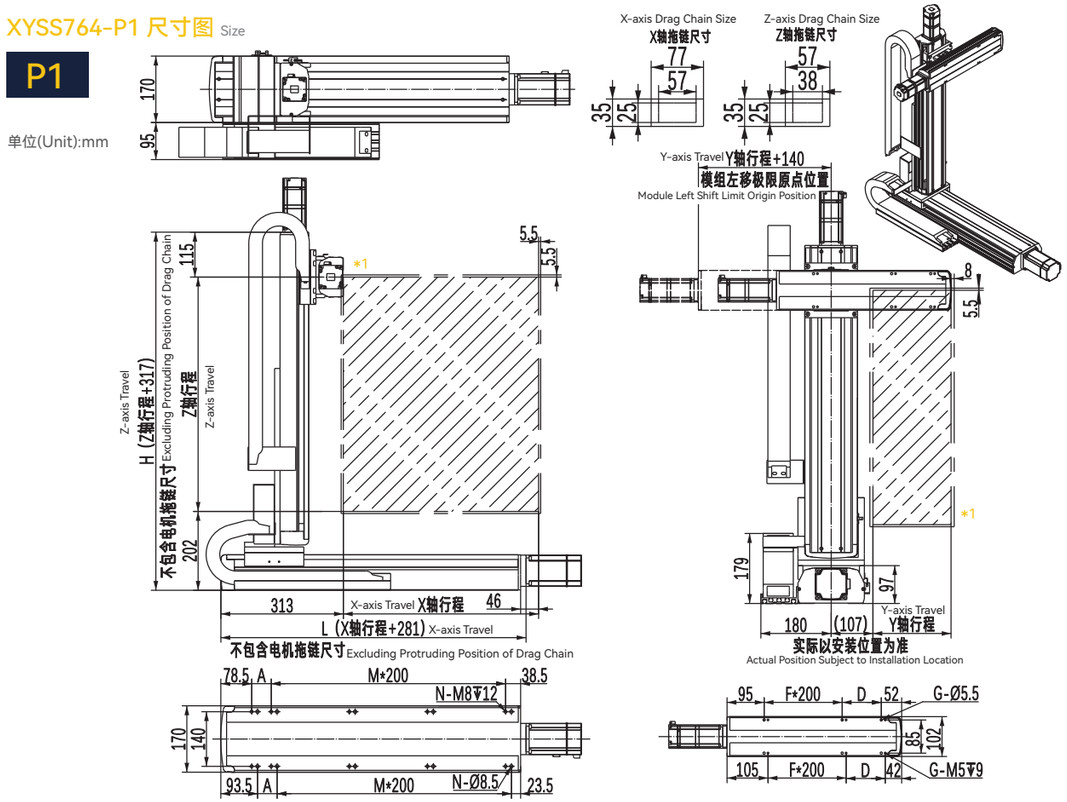
XYSS764 – P1 – 800 – 300 – 300 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination: P 极坐标型 Polar Type
- 组合方向 Direction: 1 / 2
- X轴行程 X Stroke: 100~1500mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~500mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准）Delta; P 松下（标准）Panasonic; Y 安川（标准）Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS764-P1 尺寸图 Size

P1

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.Z 轴总高度会依搭配的马达品牌及型号而变动。
The total height of Z-axis is depends on different motor's brands.

*3.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

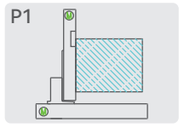
X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度· Max. Speed (mm/s)	1000																900		800		700		600	

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
F	0	1	1	1	1	2	2	2	2
D	200	50	100	150	200	50	100	150	200
G	4	6	6	6	6	8	8	8	8
最高使用速度· Max. Speed (mm/s)	500								

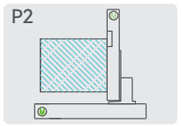
Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
H	417	467	517	567	617	667	717	767	817	867	917	967
最高使用速度· Max. Speed (mm/s)	500											

连接方式 Combination Direction

P1



P2



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P067
Y 轴详细规格 Y-axis Detail Spec. →P051
Z 轴详细规格 Z-axis Detail Spec. →P061
马达详细规格 Motor Brand Options. →P321

XYSS774-P 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive

此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	1250mm	Y轴 Y Axis	500mm	Z轴 Z Axis	650mm

最高速度 Maximum Speed

X轴 X Axis	1000mm/s	Y轴 Y Axis	500mm/s	Z轴 Z Axis	500mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	750W	Y轴 Y Axis	200W	Z轴 Z Axis	750W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS170	PSS120	PSS170
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	10	10
最高速度 Maximum Speed (mm/s) ※1	1000	500	500
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-1250	100-500	100-650
驱动功率 AC Servo Motor Output (w)	750	200	750+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
Y轴载重 Y Payload (kg)	18	18	17	15	13	11	9	6	3

* 限定水安装。Only for horizontal installation.

型号表示方式
Model Number Representation

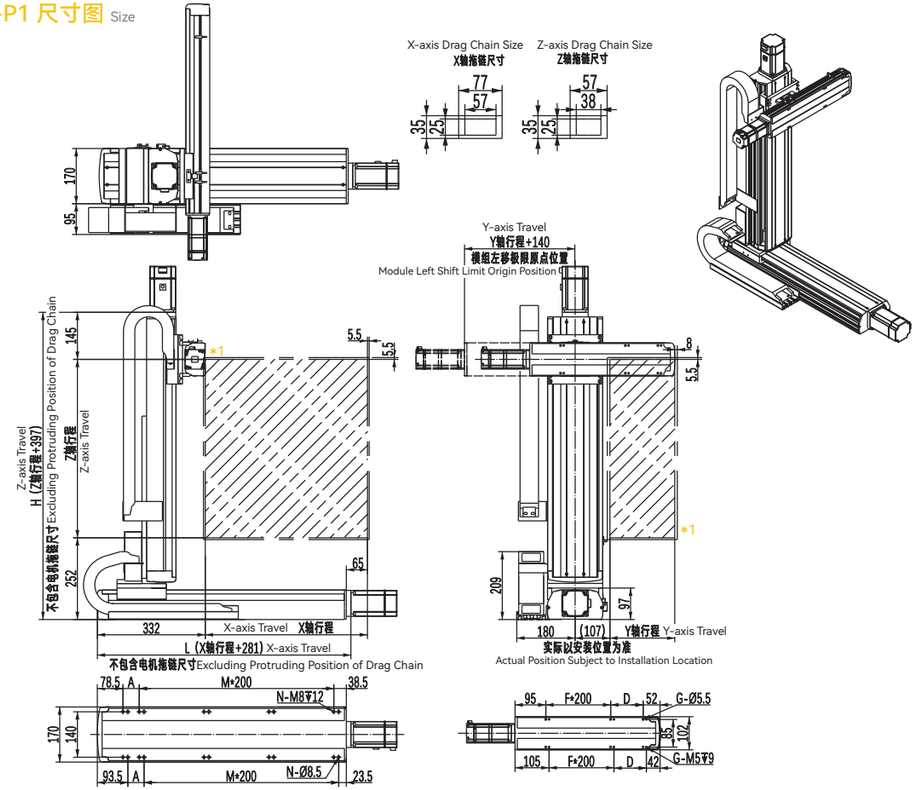
XYSS774 – P1 – 800 – 300 – 300 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination: P 极坐标型 Polar Type
- 组合方向 Direction: 1 / 2
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~500mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS774-P1 尺寸图 Size

P1

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.Z 轴总高度会依搭配的马达品牌及型号而变动。
The total height of Z-axis is depends on different motor's brands.

*3.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

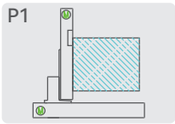
X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度 Max. Speed (mm/s)	1000																900		800		700		600	

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500
F	0	1	1	1	1	2	2	2	2
D	200	50	100	150	200	50	100	150	200
G	4	6	6	6	6	8	8	8	8
最高使用速度 Max. Speed (mm/s)	500								

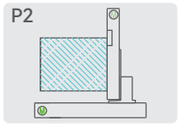
Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
H	497	547	597	647	697	747	797	847	897	947	997	1047
最高使用速度 Max. Speed (mm/s)	500											

连接方式 Combination Direction

P1



P2



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P067
Y 轴详细规格 Y-axis Detail Spec. →P051
Z 轴详细规格 Z-axis Detail Spec. →P067
马达详细规格 Motor Brand Options →P321

XYSS776-P 3轴/3-Axis

滚珠丝杆驱动
Ball Screw Drive

此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
1250mm	600mm	650mm

最高速度 Maximum Speed

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
1000mm/s	500mm/s	500mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
750W	400W	750W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PSS170	PSS140	PSS170
重复定位 Repeatability (mm)	±0.01	±0.01	±0.01
导程 Ball Screw Lead (mm)	20	10	10
最高速度 Maximum Speed (mm/s) ※1	1000	500	500
标准行程(50 间隔) Stroke 50 mm Pitch (mm)	100-1250	100-600	100-650
驱动功率 AC Servo Motor Output (w)	750	400	750+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500	550	600
Y轴载重 Y Payload (kg)	30	30	30	29	27	24	21	17	13	9	5

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

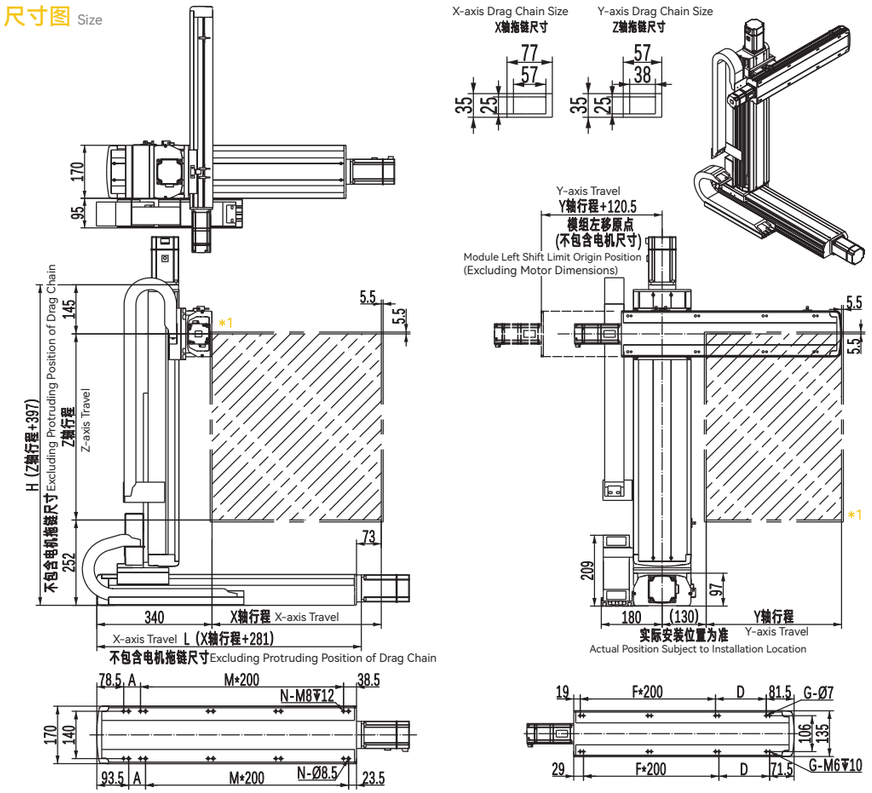
XYSS776 – P1 – 800 – 300 – 300 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination: P 极坐标型 Polar Type
- 组合方向 Direction: 1 / 2
- X轴行程 X Stroke: 100~1250mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~600mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准）Delta; P 松下（标准）Panasonic; Y 安川（标准）Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYSS776-P1 尺寸图 Size

P1

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.Z 轴总高度会依搭配的马达品牌及型号而变动。
The total height of Z-axis is depends on different motor's brands.

*3.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

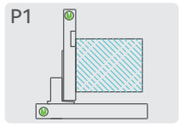
X轴行程 X Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
最高使用速度 Max. Speed (mm/s)	1000																900		800		700		600	

Y轴行程 Y Stroke mm	100	150	200	250	300	350	400	450	500	550	600
F	1	1	1	1	2	2	2	2	3	3	3
D	50	100	150	200	50	100	150	200	50	100	150
G	6	6	6	6	8	8	8	8	10	10	10
最高使用速度 Max. Speed (mm/s)	500										

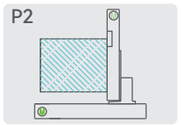
Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550	600	650
H	497	547	597	647	697	747	797	847	897	947	997	1047
最高使用速度 Max. Speed (mm/s)	500											

连接方式 Combination Direction

P1



P2

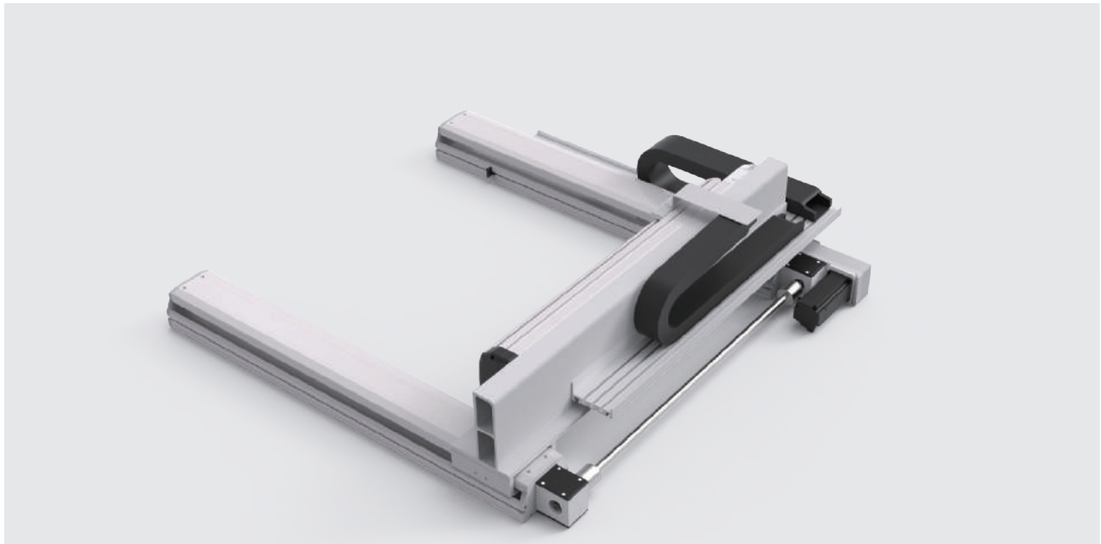


配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec. →P067
- Y 轴详细规格 Y-axis Detail Spec. →P061
- Z 轴详细规格 Z-axis Detail Spec. →P067
- 马达详细规格 Motor Brand Options. →P321

XYBS660-F 2轴/2-Axis

同步皮带驱动 Belt Drive ✕ 滚珠丝杆驱动 Ball Screw Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis 3050mm　Y轴 Y Axis 650mm

最高速度 Maximum Speed

X轴 X Axis 2000mm/s　Y轴 Y Axis 1000mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis 400W　Y轴 Y Axis 200W

最大行程 Maximum Stroke

项目 Item	X 轴 X Axis	Y 轴 Y Axis
单轴型号 Model Type	PBS140S × 2	PSS140
重复定位 Repeatability (mm)	±0.04	±0.01
导程 Ball Screw Lead (mm)	40	20
最高速度 Maximum Speed (mm/s) ※1	2000	1000
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-3050	250-650
驱动功率 AC Servo Motor Output (w)	400	200
使用环境 Environment	0~40℃,85% RH Below	

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650
Y轴载重 Y Payload (kg)	10	9	8	7	6	5	4	3	2

* 限定水安装。 Only for horizontal installation.

型号表示方式

Model Number Representation

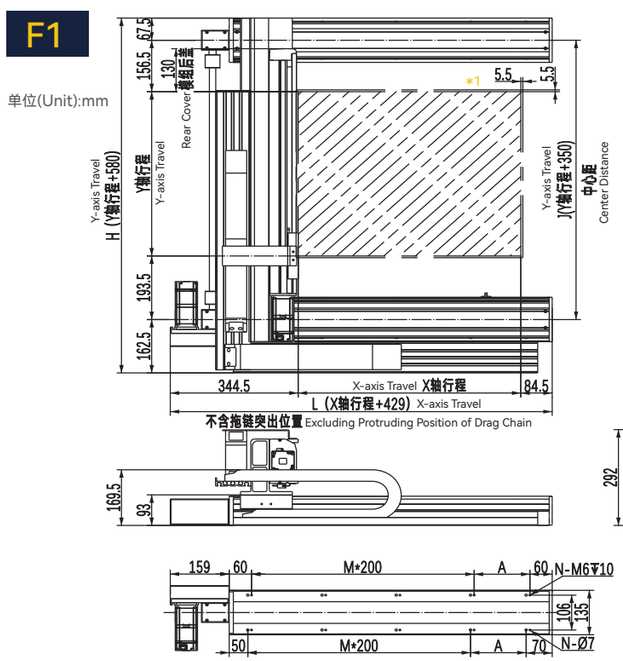
XYBS660 – F1 – 900 – 300 – C – K – N

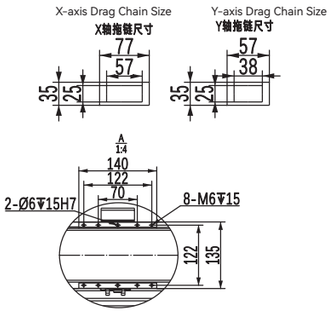
- 本体型号 Model Number: XYBS660
- 连接方式 Combination: F 联动型 Linkage Type
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 100~3050mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~650mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、 Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

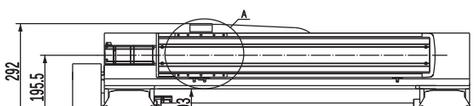
XYBS660-F1 尺寸图 Size

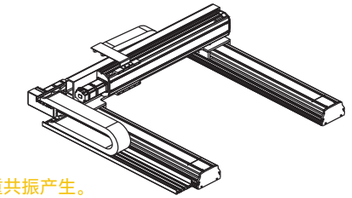
F1

单位(Unit):mm









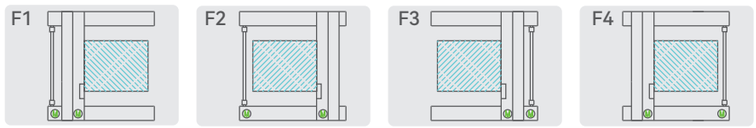
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X 轴行程 X Stroke mm	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	829	879	929	979	1029	1079	1129	1179	1229	1279	1329	1379	1429	1479	1529	1579	1629	1679	1729	1779	1829	1879	1929	1979	2029	2079	2129
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	8	8	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	16	18	18	18	18	20	20	20	20	22
X 轴行程 X Stroke mm	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2179	2229	2279	2329	2379	2429	2479	2529	2579	2629	2679	2729	2779	2829	2879	2929	2979	3029	3079	3129	3179	3229	3279	3329	3379	3429	3479
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
最高使用速度 Max. Speed (mm/s)	2000																										

Y轴行程 Z Stroke mm	250	300	350	400	450	500	550	600	650
H	830	880	930	980	1030	1080	1130	1180	1230
Y轴载重 Y Payload (kg)	10	9	8	7	6	5	4	3	2
最高使用速度 Max. Speed (mm/s)	1000								

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P141　Y 轴详细规格 Y-axis Detail Spec. →P061

Z 轴详细规格 Z-axis Detail Spec. —　马达详细规格 Motor Brand Options. →P321

XYBS760-F 2轴/2-Axis

同步皮带驱动 Belt Drive ✕ 滚珠丝杆驱动 Ball Screw Drive

此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	3050mm
Y轴 Y Axis	1050mm

最高速度 Maximum Speed

X轴 X Axis	2000mm/s
Y轴 Y Axis	1000mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	750W
Y轴 Y Axis	400W

最大行程 Maximum Stroke

项目 Item	X 轴 X Axis	Y 轴 Y Axis
单轴型号 Model Type	PBS170S × 2	PSS140
重复定位 Repeatability (mm)	±0.04	±0.01
导程 Ball Screw Lead (mm)	40	20
最高速度 Maximum Speed (mm/s) ※1	2000	1000
标准行程(50间隔) Stroke 50 mm Pitch (mm)	100-3050	250-1050
驱动功率 AC Servo Motor Output (w)	750	400
使用环境 Environment	0~40℃,85% RH Below	

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
Y轴载重 Y Payload (kg)	35	35	34	33	32	30	30	28	28	26	26	24	24	22	22	20	20

* 限定水安装。Only for horizontal installation.

型号表示方式
Model Number Representation

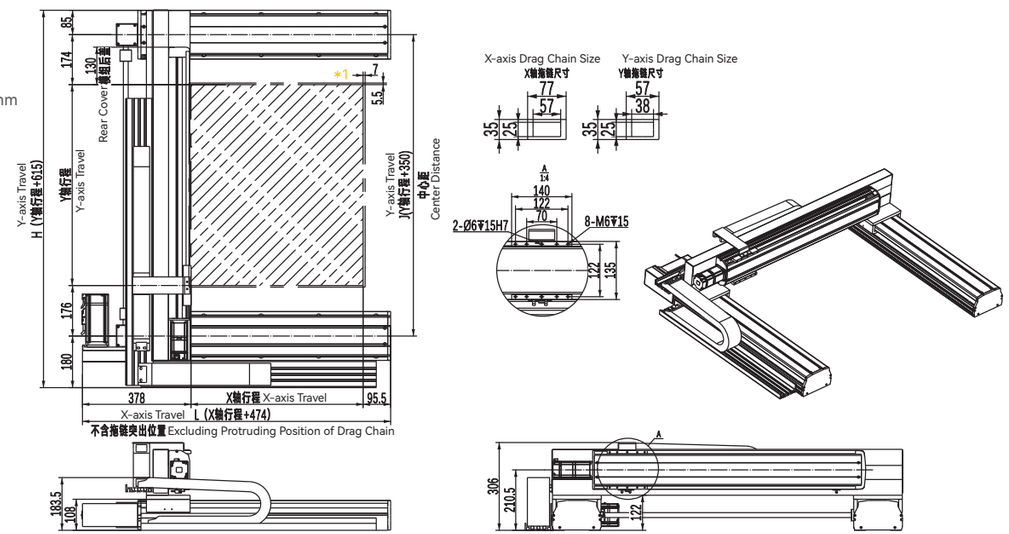
XYBS760 – F1 – 900 – 300 – C – K – N

- 本体型号 Model Number: XYBS760
- 连接方式 Combination: F 联动型 Linkage Type
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 100~3050mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 100~1050mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model: N

XYSS660-F1 尺寸图 Size

F1

单位(Unit):mm



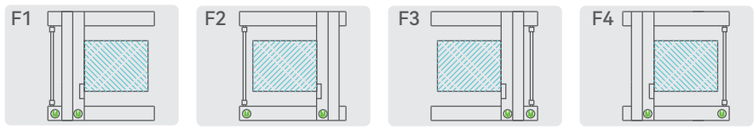
*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X轴行程 X Stroke mm	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974	2024	2074	2124	2174
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9
N	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22
X轴行程 X Stroke mm	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2224	2274	2324	2374	2424	2474	2524	2574	2624	2674	2724	2774	2824	2874	2924	2974	3024	3074	3124	3174	3224	3274	3324	3374	3424	3474	3524
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
最高使用速度 Max. Speed (mm/s)	2000																										

Y轴行程 Z Stroke mm	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
H	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415	1465	1515	1565	1615	1665
Y轴载重 Y Payload (kg)	35	35	34	33	32	30	30	28	28	26	26	24	24	22	22	20	20
最高使用速度 Max. Speed (mm/s)	1000																

连接方式 Combination Direction

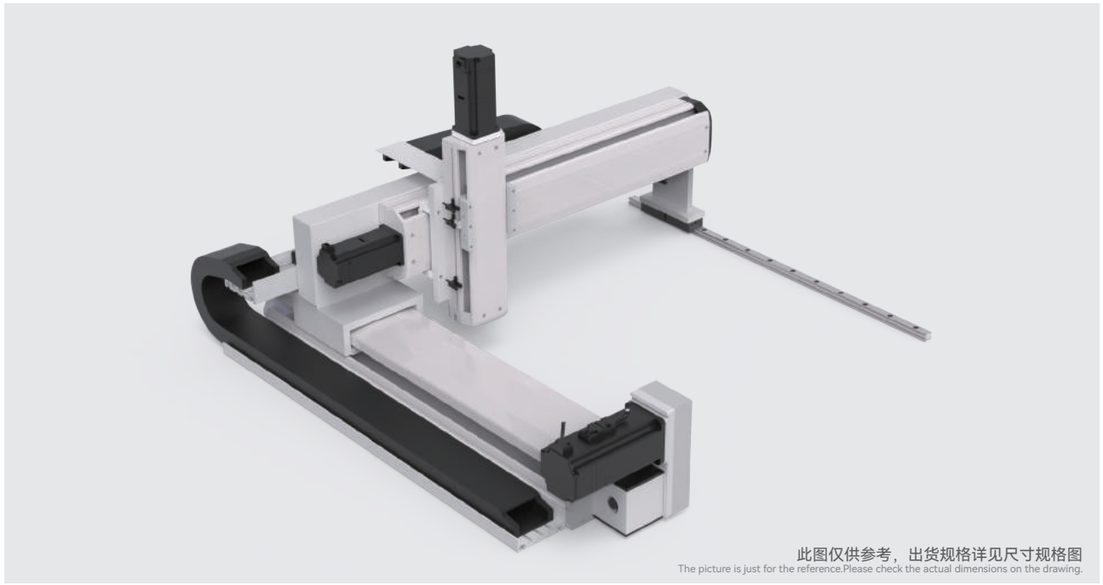


配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec →P153
- Y 轴详细规格 Y-axis Detail Spec →P061
- Z 轴详细规格 Z-axis Detail Spec —
- 马达详细规格 Motor Brand Options →P321

XYBS764-G 3轴/3-Axis

同步皮带驱动 Belt Drive ✕ 滚珠丝杆驱动 Ball Screw Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	3050mm
Y轴 Y Axis	750mm
Z轴 Z Axis	550mm

最高速度 Maximum Speed

X轴 X Axis	2000mm/s
Y轴 Y Axis	1000mm/s
Z轴 Z Axis	250mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	750W
Y轴 Y Axis	200W
Z轴 Z Axis	200W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PBS170S	PSS140	PSS120
重复定位 Repeatability (mm)	±0.04	±0.01	±0.01
导程 Ball Screw Lead (mm)	40	20	5
最高速度 Maximum Speed (mm/s) ※1	2000	1000	250
标准行程(50间隔) Stroke 50 mm Pitch (mm)	400-3050	250-750	100-550
驱动功率 AC Servo Motor Output (w)	750	200	200+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550
Z轴载重 Z Payload (kg)	12	12	12	12	12	12	12	12	12	12

* 限定水安装。 Only for horizontal installation.

型号表示方式
Model Number Representation

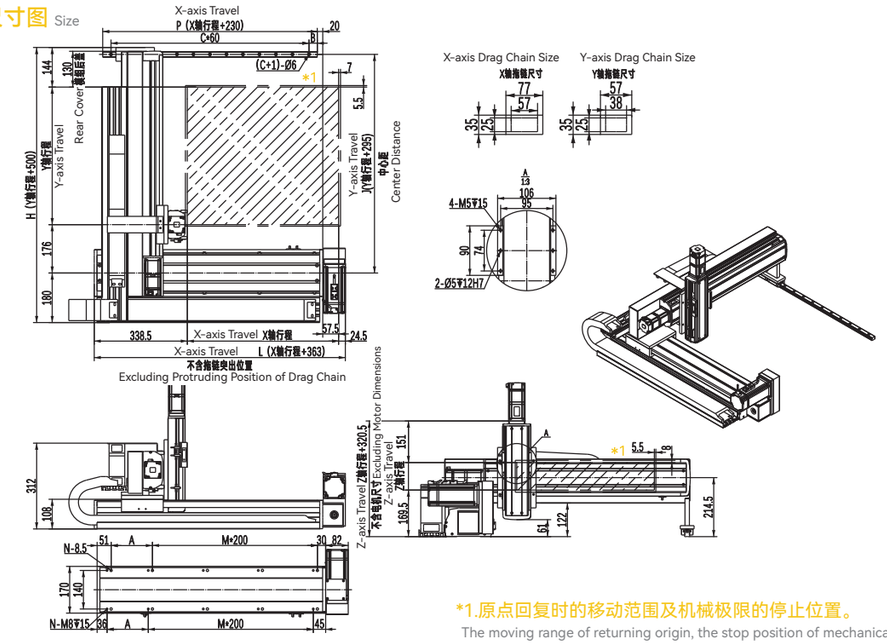
XYBS764 – G1 – 800 – 500 – 500 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination: G 龙门型 Gantry
- 组合方向 Direction: 1 / 2 / 3 / 4
- X轴行程 X Stroke: 400~3050mm 间隔 50mm Pitch
- Y轴行程 Y Stroke: 250~750mm 间隔 50mm Pitch
- Z轴行程 Z Stroke: 100~550mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output: T 台达（标准） Delta; P 松下（标准） Panasonic; Y 安川（标准） Yaskawa; C 客户自配 Customer-provided
- 出货方式 Delivery Methode: K 单轴出货 By Kit; C 连接出货 By Set
- 非标定制 Non-Standard Model

XYBS764-G1 尺寸图 Size

G1

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

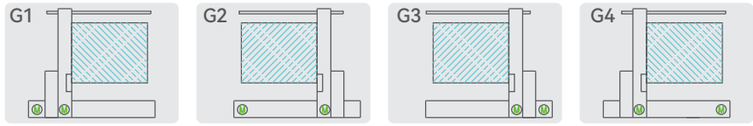
*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

X轴行程 X Stroke mm	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863	1913	1963	2013	2063
P	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930
B	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35
C	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23	24	25	26	26	27	28	29	30	31	31
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9
N	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22
X轴行程 X Stroke mm	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2113	2163	2213	2263	2313	2363	2413	2463	2513	2563	2613	2663	2713	2763	2813	2863	2913	2963	3013	3063	3113	3163	3213	3263	3313	3363	3413
P	1980	2030	2080	2130	2180	2230	2280	2330	2380	2430	2480	2530	2580	2630	2680	2730	2780	2830	2880	2930	2980	3030	3080	3130	3180	3230	3280
B	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20
C	32	33	34	35	36	36	37	38	39	40	41	41	42	43	44	45	46	46	47	48	49	50	51	51	52	53	54
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
最高使用速度 Max. Speed (mm/s)	2000																										

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650	700	750
H	750	800	850	900	950	1000	1050	1100	1150	1200	1250
最高使用速度 Max. Speed (mm/s)	1000										

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550
Z轴载重 Z Payload (kg)	12	12	12	12	12	12	12	12	12	12
最高使用速度 Max. Speed (mm/s)	250									

连接方式 Combination Direction

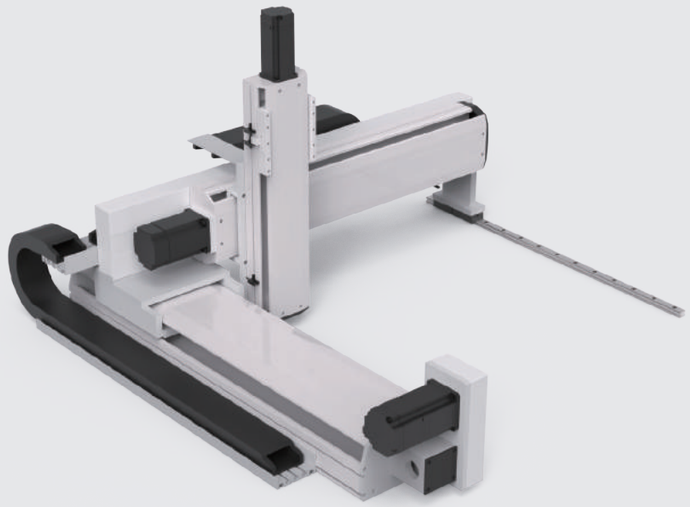


配件规格 Spec. Details

- X 轴详细规格 X-axis Detail Spec. →P153
- Y 轴详细规格 Y-axis Detail Spec. →P061
- Z 轴详细规格 Z-axis Detail Spec. →P051
- 马达详细规格 Motor Brand Options. →P321

XYBS976-G 3轴/3-Axis

同步皮带驱动 Belt Drive ✕ 滚珠丝杆驱动 Ball Screw Drive



此图仅供参考，出货规格详见尺寸规格图
The picture is just for the reference.Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
3050mm	750mm	550mm

最高速度 Maximum Speed

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
2000mm/s	1000mm/s	500mm/s

AC伺服马达功率 AC Servo Motor Output

X轴 X Axis	Y轴 Y Axis	Z轴 Z Axis
750W	750W	400W+刹车 Break

基本规格 Specification

项目 Item	X 轴 X Axis	Y 轴 Y Axis	Z 轴 Z Axis
单轴型号 Model Type	PBS220	PSS170	PSS140
重复定位 Repeatability (mm)	±0.04	±0.01	±0.01
导程 Ball Screw Lead (mm)	40	20	10
最高速度 Maximum Speed (mm/s) ※1	2000	1000	500
标准行程(50间隔) Stroke 50 mm Pitch (mm)	600-3050	250-750	100-550
驱动功率 AC Servo Motor Output (w)	750	750	400+刹车 Break
使用环境 Environment	0~40℃,85% RH Below		

※1：最高速度(mm/s) 是以伺服马达最高转速3000rpm/min 为基准。 Maximum speed is based on the AC servo motor's 3000RPM.

最大可搬重量 Maximum Payload

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550
Z轴载重 Z Payload (kg)	18	18	18	18	18	18	18	18	18	18

* 限定水安装。 Only for horizontal installation.

型号表示方式

Model Number Representation

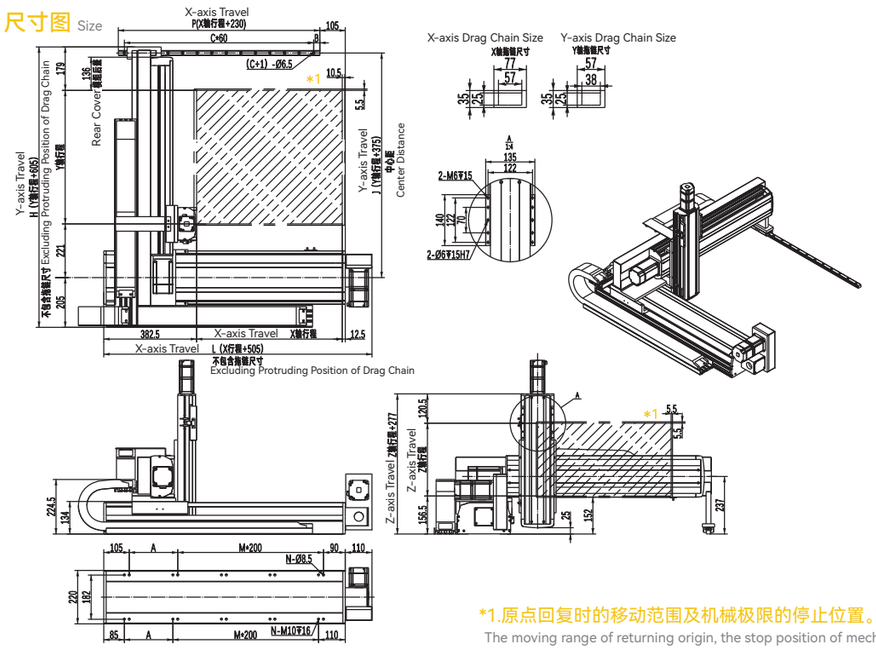
XYBS976 – G1 – 800 – 500 – 500 – C – K – N

- 本体型号 Model Number
- 连接方式 Combination：G 龙门型 Gantry
- 组合方向 Direction：1 / 2 / 3 / 4
- X轴行程 X Stroke：600~3050mm 间隔 50mm Pitch
- Y轴行程 Y Stroke：250~750mm 间隔 50mm Pitch
- Z轴行程 Z Stroke：100~550mm 间隔 50mm Pitch
- 马达品牌 Motor Brand 、Power Output：T 台达（标准） Delta；P 松下（标准） Panasonic；Y 安川（标准） Yaskawa；C 客户自配 Customer-provided
- 出货方式 Delivery Methode：K 单轴出货 By Kit；C 连接出货 By Set
- 非标定制 Non-Standard Model

XYBS976-G1 尺寸图 Size

G1

单位(Unit):mm



*1.原点回复时的移动范围及机械极限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.

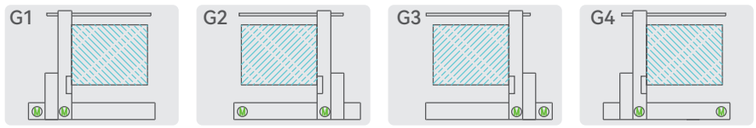
*2.最高使用速度代表该行程内可使用的最高安全速度，若超过此速度，滑台可能会有严重共振产生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the strandard speed, it may occur serious resonance.

X轴行程 X Stroke mm	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305
P	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030
B	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25
C	13	14	15	16	16	17	18	19	20	21	21	22	23	24	25	26	26	27	28	29	30	31	31	32	33
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9
N	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22
X轴行程 X Stroke mm	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2355	2405	2455	2505	2555	2605	2655	2705	2755	2805	2855	2905	2955	3005	3055	3105	3155	3205	3255	3305	3355	3405	3455	3505	3555
P	2080	2130	2180	2230	2280	2330	2380	2430	2480	2530	2580	2630	2680	2730	2780	2830	2880	2930	2980	3030	3080	3130	3180	3230	3280
B	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20	15	10	35	30	25	20
C	34	35	36	36	37	38	39	40	41	41	42	43	44	45	46	46	47	48	49	50	51	51	52	53	54
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
最高使用速度 Max. Speed (mm/s)	2000																								

Y轴行程 Y Stroke mm	250	300	350	400	450	500	550	600	650	700	750
H	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355
最高使用速度 Max. Speed (mm/s)	1000										

Z轴行程 Z Stroke mm	100	150	200	250	300	350	400	450	500	550
Z轴载重 Z Payload (kg)	18	18	18	18	18	18	18	18	18	18
最高使用速度 Max. Speed (mm/s)	500									

连接方式 Combination Direction



配件规格 Spec. Details

X 轴详细规格 X-axis Detail Spec. →P165
Y 轴详细规格 Y-axis Detail Spec. →P067
Z 轴详细规格 Z-axis Detail Spec. →P061
马达详细规格 Motor Brand Options →P321

保修期限
Warranty Period

KR robots are designed and manufactured to be free from defects in materials and workmanship.
However, should any failure occur in thelrobot you purchased, the KR warranty coverage is as follows.

保修期限有以下3种方式判定，那个先到就以其作保修期限依据。

期限为：

- 已安装使用12个月。
- 使用时间2500小时。
- 使用工作里程超过产品限定值(详见产品规格页)。

This warranty is effective for a period of:

- One year after installation or
- 2,500 hours of actual operation whichever comes first.
- The working mileage exceeds the product limit value (for specific values, please refer to the product specification page).

服务范围
Services Coverage

购买本公司产品，本公司为您提供下列服务：

- 指导安装调试及试运转。
- 指导保养与维修。
- 操作接线的技术指导及教育。
- 编程的技术指导及教育。

We provide customers with the following services:

- Guide to installation and trial Operation.
- Guide to maintenance.
- Guide to wiring technical operation and training.
- Guide to technical programming.

保修范围
Exceptions to the Warranty

在保修周期内，正常使用下而产生的故障，由本公司负责免费维修，但不包括以下事项：

- 外部油漆剥落及自然褪色。
- 消耗品的更换。
- 地震、风暴、洪水、雷电、火灾或其他自然或人为造成的损坏。
- 使用者不适当安装或使用。
- 未经本公司同意而自行改装。
- 使用其他不是真正或未使用指定的滑油和油脂。
- 不完全或错缺的维修和检查。
- 非授权经销商进行维修作业。

This warranty will not apply in the following cases:

- Fatigue arising due to the passage of time, natural wear and tear occurring during operation (natural fading of painted or plated surfaces, deterioration of parts subject to wear)
- Minor natural phenomena which do not efect the capabilties of the robot (noise from computers, motors. etc.).
- Damage due to earthquakes, storms, floods, thunderbolt, fire or any other natural or man-made calamities.
- Troubles caused by procedures prohibited in this manual.
- Modifications to the robot not approved by Pi or Pi sales representatives.
- Use of any other than genuine parts and specified lubricant and grease.
- Insufficiency or errors in maintenance and inspection.
- Repairs by other than authorized dealers.

另本公司负责自身商品的故障维修，但并不负责因产品故障引起的其他损失。

In addition,we response for the failure of our own goods repair,but are not responsiblefor other losses caused due to.

使用安全注意事项
Cautions

GKR 产品使用安全注意事项 Product Safety Information

在选定型号及使用电动滑台之前，请务必阅读“安全注意事项“及”操作说明书”，以安全、正确地使用产品。本书注意事项的目的是防止因错使用电动滑台而引起伤害事故，请理解操作手册中的各项注意事项及各种标志，请遵守各注意事项。

To ensure correct and safe use of GKR industrial robots, carefully read this manual and make yourself well acquainted with the contents. FOLLOW THE WARNINGS, CAUTIONS AND INSTRUCTIONS INCLUDED IN THIS MANUAL. Warning information in this manual is shown classified into the following items.

1.安全记载
Safety Records

工业用的电动滑台是拥有高度程序设计的机械，动作上有很大的自由度，为了能安全正确的使用 GKR 电动滑台，以下记载有关安全性指示请务必注意。如果没有执行必要的安全对策操作或错误操作时，不仅会引起电动滑台的故障和损售，有可能还会造成使用者{包含安装、操作、调整、检查者等）受伤、死亡和重大的事故。

Industrial robots are highly mechanical devices that provide a large degree of freedom when performing various manipulative tasks. Failure to take necessary safety measures or mishandling due to not following the instructions in this manual may result in trouble or damage to the robot and injury to personnel(robot operator or service personnel) including fatal accidents.

危险 DANGER
如果操作错误，会造成死亡还有重伤，以致危及到生命。
Failure to follow DANGER instructions will result in severe injury ordeath to the robot operator, bystanders or persons inspecting or repairing the robot.

警告 WARNING
如果操作错误，会造成死亡还有重伤的可能性。
Failure to follow WARNING instructions could result in severe injury or death to the robot operator, bystanders or persons inspecting or repairing the robot.

注意 CAUTION
如果操作错误·有可能造成人员受伤及设备的损伤。
FFailure to follow CAUTION instructions may result in injury to the robot operator, bystanders or persons inspecting or repairing the robot, or damage to the robot and or robot controller.

要点 POINTS
电动滑台操作顺序的要点说明。
Key points of the sequence of operations of the Electric Slide.

操作说明书无法详细叙述所有关于安全项目的细则，·故使用者务必遵照本注意事项，以建立正确的安全知识及判断的能力。有关电动滑台的位置，使用的基本法则丶规格请参照本书中有关电动滑台的设置。另外，本电动滑台的警告标记及操作说明书是针对国内的。电动滑台向国外出口时，警告标记及操作说明书有必要进行变更。

NOTE
It is not possible to list all safety items in detail within the limited space of this manual. So it is essential that the user have a full knowledge of basic safety rules and also that the operator makes correct judgments on safety procedures during operation This manual and warning labels supplied with or affixed to the robot are written in English. If the robot operator or service personnel does not understand English, do not permit that person to handle the robot.

2.特别重要的注意事项
Particularly Important Considerations

以下是电动滑台操作说明的重要注意事项。另外，在各章有关安装、操作、检查、保养的注意事项皆有记载。这些注意事项请严格遵守。

Essential Caution Items Particularly important cautions for handling or operating the robot are described below. In addition, safety information about installation, operation, inspection and maintenance is provided in each chapter. Be sure to comply with these instructions to ensure safe use of the robot.

(一) 自动进行时的注意
Observe the following cautions during automatic operation.

■ 操作者进入电动滑台可动范圜内，为防止在电动滑台的可动部接触而造成受伤，请设定安全防护栅。
■ 在安全防护栅的入口，请设计开和急停的连锁装置。
■ 请尽量不要从连锁装置入口以外处进出。

Observe the following cautions during automatic operation:
■ Install a safeguard (protective enclosure)to keep any person from entering within the movement range of the robot and suffering injury due to being struck by moving parts.
■ Install a safety interlock that triggers emergency stop when the door or panel is opened.
■ Install safeguards so that no one can enter inside except from doors or panels equipped with safety interlocks.

危险 DANGER
如果接触正在运行的电动滑台，有可能会造成重伤。Serious injury or death will result from impact with moving robot.

■自动运行时不要进入电动滑台安全防护栅。
■进入安全防护栅时，要按急停按钮。

■ Keep outside of guard during operation.
■ Lock out power before approaching robot.

(二) 注意手被夹
Attention to hand sandwiched.

操作电动滑台示教等时，在可动部请注意不要夹到手。
Use caution to prevent hands or fingers from being pinched or crushed.

警告 WARNING
有可能夹伤。
■手等不要靠近电动滑台的可动部份。
■请与电动滑台的可动部分保持距离。

■ Moving parts can pinch or crush.
■ Keep hands away from robot arms.

(三) 关于操作说明
Follow the instructions on listed on warning labels and in this manual.

■ 电动滑台安装前，必须读操作说明，请按照上面的批示进行作业丶操作。
■ 读了操作说明后，进行操作之前，请再读一次「 GKR 产品使用安全注意」。
■ 本操作说明书中没有写安装、调整、检查、维护、操作等，请不要操作。

Follow the instructions on listed on warning labels and in this manual.
■ Be sure to read the warning labels and this manual carefully and make sure you thoroughly understand their contents before attempting installation and operation of the robot.
■ Before starting robot operation, be sure to reread the procedures and cautions relating to your work as well as descriptions in this chapter (" GKR product Safety Information")
■ Never install, adjust, inspect or service the robot in any manner that does not comply with the instructions in this manual.

警告 WARNING
如果错误安装操作电动滑台的话，可能会造成重伤。
安装、操作之前，必须详读操作说明书。

Improper installation or operation can result in serious injury or death.
Read the owners manual and all warning labels before operation.

(四) 禁止在可燃性气体等环境中使用

Do not use the robot in environments containing inflammable gas, etc.

警告 WARNING

■本电动滑台没有防爆规格。
■请不要在可燃性气体、可燃性粉末、引火性液体等环境里使用，有爆发、引火的可能性。
■This robot was not designed for operation in environments where inflammable or explosive substancesare present.
■Do not use the robot in environments containing inflammable gas, dust or liquids. Explosions or fire might otherwise result.

(五) 禁止在有电磁妨害等可能的情况下使用

Do not use the robot in locations possibly subject to electromagnetic interference, etc.

警告 WARNING

在有电磁妨害、静电气放电、无线磁波妨害的场所，请不要使用电动滑台，电动滑台的错误操作会造成危险。
Avoid using the robot in locations subject to electromagnetic interference, electrostatic discharge or radio frequency interference. Malfunctions might otherwise occur.

(六) 解除垂直规格电动滑台(上下轴) 煞车时的注意

Use caution when releasing the brake of a vertical use robot.

警告 WARNING

解除煞车的话，有上下轴下滑的危险。
■按急停按钮后，解除煞车之前，请用挡块挡住上下轴。
■进行解除煞车直接示教时，请注意保护不要被夹在上下轴和架台之间。
The vertical axis will slide down when the brake is released, causing a hazardous situation.
■Press the emergency stop button and prop up the vertical axis with a support stand before releasing the brake.
■Be careful not to let your body get caught between the vertical axis and installation base when releasing the brake to perform direct teach.

(七) 取出马达时的注意点(垂直规格)

Use caution when removing the motor. (Vertical use robots)

警告 WARNING

如果取出马达的话，会有上下轴滑落的危险。
■先切断控制器电源，马达取出前请用挡块挡住上下轴。
■请注意尽量不要让身体夹在上下轴驱动部及上下轴和架台之间。
■The vertical axis will slide down when the motor is released, causing a hazardous situation.
■Turn off the robot controller and prop up the vertical axis with a support stand before removing the motor. Be careful not to let your body get caught between the vertical axis parts and installation base.

(八) 控制器检查时的注意点

Take the following safety precautions during inspection of controller.

警告 WARNING

■在控制器检查、接触控制器外侧端子、接续接线柱的情况时，为了防止触电请切断控制器电源，也切断供电源。
■绝对不能接触控制器内部。
■When you need to touch the terminals or connectors on the outside of the controller during inspection, always first turn off the controller power switch and also the power source in order to prevent possible electrical shock.
■Never touch any internal parts of the controller.

(九) 处理电动滑台的损伤及异常

Consult with us for corrective action when the robot is damaged or malfunctions occur.

警告 WARNING

■电动滑台有损伤及异常情况发生时，使用是危险的，请立即停止使用，并与本公司联络。
■钢带、滚轮、润滑油为消耗品，建议一年更换一次。
■If any part of the robot is damaged or any malfunction occurs,continuing the operation may be very dangerous. Please consult with your JIEAN ROBOT sales office or dealer for corrective action.
■Steel strip, roller and lubricant are consumables. We suggest to replace once a year.

(十) 接触马达及减速机箱的高温部注意点

Be careful not to touch the motor or speed reduction gear casing when hot.

警告 WARNING

自动运转后的马达及减速机箱将会达到高温，如果接触的话，有可能会造成烧伤。进行接触检查等情况时，请先切断控制器电源，由于温度会随着时间下降，请在确认温度下降后再接触。
The motor and speed reduction gear casing are extremely hot after automatic operation, so burns may occur if these are touched. Before handling these parts during inspection or servicing, turn off the controller, wait for a while and check that the part has cooled.

(十一) 禁止除去、改变及损害警告标志

Do not remove, alter or stain the warning labels.

警告 WARNING

■私自除去警告标记，可能会因没有看到警告而引起事故。
■请不要用附近的机器来遮挡住电动滑台上的警告标记。
■请确保警告标记的图案、文字从安全防护栅外可以十分明显看到。
■Do not remove, alter or stain the warning labels on the robot.
■Do not allow the warning labels to be hidden by devices installed onto the robot by the user.
■Provide proper lighting so that the symbols and instructions on the warning labels can be clearly seen even from outside the safeguard enclosure.

(十二) 保护结合

Protective bonding.

警告 WARNING

为了防止静电，请务必将电动滑台和控制器接地。
Be sure to ground the robot and controller to prevent electrical.

(十三) 注意参数的设定

Be sure to make correct parameter settings.

警告 WARNING

允许惯性因素及先端质量，请适当保持电动滑台加速度的运动。不能保持的情况下，会引起驱动部早期的寿命下降、破损及定位时残留振动。
The robot must be operated with correct tolerable moment of inertia and acceleration coefficients according to the manipulator tip mass and moment of inertia. If these are not correct, drive unit service life may end prematurely, and damage to robot parts or residual vibration during positioning may result.

3.电动滑台的安全功能
Robot Safety Functions

(一) 过负载检出
Overload detection.

检验马达的超负载，切断伺服电源。
This function detects an overload applied to the motor and shuts off the servo power.

(二) 外部极限SENSOR
Soft limits.

在设定各轴和外部极限SENSOR 的状态下，原点复归后限制手动运转、自动运转时的动作范围。另外，根据外部极限SENSOR 来限制的区域叫做动作范围。
Soft limits can be set on each axis to limit the working envelope in manual operation after return-to-origin and during automatic operation.
Note: The working envelope is the area limited by soft limits.

(三) 机械挡块
Mechanical stoppers.

机械挡块是为了防止超越轴的可动范围而设置的，可在切断伺服电源高速移动时进行急停、安全功能等，回转轴部分则没有机械挡块设计。机械挡块限制的领域也可叫做可动范围。
If the servo power is suddenly shut off during high-speed operation by emergency stop or safety functions, these mechanical stoppers prevent the axis from exceeding the movement range. No mechanical stopper is provided on the rotating axis.
Note: The movement range is the area limited by mechanical stoppers.

警告 WARNING
轴移动时，因急停操作，安全功能等，即使切断伺服电源，轴也不能马上停止而设制所以请注意。
Axis movement will not stop immediately after the servo power supply is shut off by emergency stop or other safety functions.

(四) 垂直規格(上下軸) 煞車
Vertical axis brake.

垂直规格（上下轴）是断开伺服电源时，为了防止滑台的下滑而附加的电磁刹车，在关闭控制器电源及接上控制器电源时，上下轴伺服断开时，采用刹车。
An electromagnetic brake is installed on the vertical use robot to prevent the vertical axis from sliding down when servo power is turned off. This brake isworking when the controller is off or the vertical axis servo power is off even when the controller is on. The vertical axis brake can be released by means of the rogramming unit or by a command in the program when the controller is on.

警告 WARNING
刹车释放时垂直轴会向下滑动，而产生危险。
■先压急停钮及支撑垂直轴再松开刹车。
■在释放刹车的时候，请小心不要让身体介于垂直轴和架台之间。
The vertical axis will slide down when the brake is released, creating a hazardous situation.
■ Press the emergency stop button and prop the vertical axis with a support stand before releasing the brake.
■ Use caution not to let your body get caught between the vertical axis and installation base when releasing the brake to perform direct teach.

4.系统的安全措施
Safety Measures for the System

组装融入电动滑台的自动系统时，比起电动滑台单体而言，系统引起的危险更增多。对系统制造者而言，务必求得与各个系统相匹配的安全措施。与系统的安全措施、操作、维护等相关的，请系统制造者适当操作。
Since the robot is commonly used in conjunction with an automated system, dangerous situations are more likely to occur from the automated system than from the robot itself. Accordingly, appropriate safety measures must be taken on the part of the system manufacturer according to the individual system.

5.试运转
Trial Operation

进行机器人的安装、调整、检查、维护、修理等后，请按下列顺序进行试运转。
After making installations, adjustments, inspections, or maintenance or repairs to the robot, make a trial run using the following procedures.

(一) 安装后没有准备安全防护栅的场合
If a safeguard enclosure has not yet been provided right after installation of the robot.

张开缆和锁的可动范围的外侧来拉绳，以代替安全防护栅，请严格遵守下面的事项:
1. 支柱是不容易动的。
2. 从周围能够容易辨识。
3. 在容易看的位置标示出禁止进入运转中，作业者不能进入可动范围内。
If a safeguard enclosure has not yet been provided right after installation of the robot, rope off or chain off around the movement area of the manipulator in place of the safeguard, and observe the following points.
1 .Use sturdy, stable posts which will not fall over easily.
2 .The rope or chain should be easily visible by everyone around the robot.
3 .Place a sign to keep the operator or other personnel from entering the movement range of the manipulator.

(二) 插入控制器电源前的确认
Check the following points before turning on the controller.

1. 滑台机器人是否正确安装。
2. 电气是否正确安装。
3. 和接地等的接续是否适当。
4. 和周边滑台的接续是否适当。
5. 有没有安全防护对策（安全防护栅等）的措施。
6. 设置环境是否在指定环境内。
1 .Is the robot securely and correctly installed?
2 .Are the electrical connections to the robot correct?
3 .Are items such as air pressure correctly supplied?
4 .Is the robot correctly connected to peripheral equipment?
5 .Have safety measures (safeguard enclosure, etc.) been taken?
6 .Does the installation environment meet the specified standards.

(三) 插入控制器电源后的确认
After the controller is turned on, check the following points from outside the safeguard enclosure.

插入控制器电源后确认以下事项:
1. 启动、停止、选择模式等按键，是否能正常启用。
2. 通过转动各轴，能否限制软件极限。
3. 最终的效果能否通过计划进行。
4. 和最终的效果、周边机器信号的交换是否正常。
5. 紧急停止能否运行。

6. 示教器及演示的功能是否正常。
7. 安全防护及连接装置功能是否能通过。
8. 自动运转时能否进行适当的动作。

After the controller is turned on, check the following points from outside the safeguard enclosure.
1 .Does the robot start and stop as intended? Can the operation mode be selected correctly?
2 .Does each axis move as intended within the soft limits?
3 .Does the end effector move as intended?
4 .Are the signal transmissions to the end effector and peripheral equipment correct?
5 .Does emergency stop work?
6 .Are the teaching and playback functions normal?
7 .Are the safeguard enclosure and interlock working as intended?
8 .Does the robot move correctly during automatic operation?

6. 在安全防护栅内作业
Work Within the Safeguard Enclosure

(一) 在安全防护栅内作业
Work within the safeguard enclosure.

（一）在安全防护栅内作业
在安全防护栅中作业时，除了以下的例外，必须切断控制器的电源，工作中应做明显标志以确保其他作业者不操作控制器的电源开关、操作盘等。
1）外部极限SENSOR 的设定。
2）示教。
1. 作业时，请按下面各项注意事项的顺序进行。
2. 请参照以下的（二）。

(1)Work within the safeguard enclosure
When work is required inside the safeguard enclosure, always turn off the controller and place a sign indicating that the robot is being adjusted or serviced in
order to keep any other person from touching the controller switch or operation panel, except for the following cases.
1)Soft limit settings
2)Teaching
For item 1), follow the precautions and procedure for each section. To perform item 2), refer to the description in (2) below.

(二) 教导
Teaching

（二）教导
教导在安全防护内进行时请依照以下进行：
1) 在防护栅外请从以下几点来确认。
1. 凭目视确认安全防护栅内有无危险。
2. 手持编程器是否为正常动作。
3. 电动滑台有无故障。
4. 紧急停止装置是否可正常运作。
5. 教导器模式下禁止自动运转。
2) 切勿进入机械手之安全防护罩的动作范围。

(2)Teaching
When performing teaching within the safeguard enclosure, comply with the instructions listed below.
Check or perform the following points from outside the safeguard enclosure.
1.Make sure that no hazards are present within the safeguard enclosure by a visual check.
2.Check that the programming unit MPB or DPB operates correctly.
3.Check that no failures are found in the robot.
4.Check that emergency stop works correctly.
5.Select teaching mode and prohibit automatic operation.

7.自动运行
Automatic Operation

(一) 进行运转前的确认
Automatic operation described here includes all operations in AUTO mode.

进行运行前请确认下面事顶：
1. 安全防护栅内没有人。
2. 手持教导器、工具等在指定的位置。
3. 显示滑台还有周边的机器的异常，是否由灯泡等来显示。
4. 安全防护栅被设置、互锁等功能起作用。

Never enter the movement range of the manipulator while within the safeguard enclosure.
(1) Check the following before starting automatic operation.
1.No one is within the safeguard enclosure.
2.The programming unit and tools are in their specified locations.
3.The alarm or error lamps on the robot and peripheral equipment do not flash.
4.The safeguard enclosure is securely installed with safety interlocks actuated.

(二) 进行时及异常情况发生
Observe the following during automatic operation or in cases where an error occurs.

1) 运行开始后，运行状态、自动运行时根据指示灯来确认。
2) 运行时，绝对不许进入安全防护栅内。
3) 电动滑台还有周边机器发生异常情况等，进入防护栅内时，进入前请按以下的顺序。
1. 按紧急停止开关、电动滑台紧急停止。
2. 启动开关等表示开始作业，进行应急措施等，采取措施以防止作业员以外的人去操作电动滑台。

1) After automatic operation has started, check the operation status and warning lamp to ensure that the robot is in automatic operation.
2) Never enter the safeguard enclosure during automatic operation.
3) If an error occurs in the robot or peripheral equipment, observe the following procedure before entering the safeguard enclosure.
1.Press the emergency stop button to set the robot to emergency stop.
2.Place a sign on the start switch, indicating that the robot is being inspected in order to keep any other person from touching the start switch and rcfarting the robot.

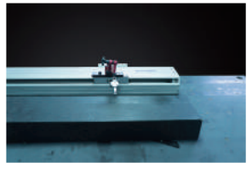
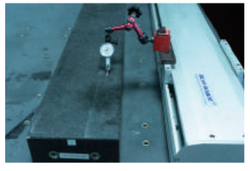
8.调整、检查等
Adjustment and Inspection

本操作说明书里没有写的安装、调整、检查、维护等，请不要进行操作。
Do not attempt any installation, adjustment, inspection or maintenance unless it is described in this manual.

9. 修理、改造等
Repair and Modification

本操作说明书里没有列出修理、零件的更换以及改造等。以上动作需拥有专业知识，请不要任意进行，可能会发生危险。
Do not attempt any repair, parts replacement and modification unless described in this manual. These works require technical knowledge and skill, and may also involve work hazards.

检测平行度/ 等高度
Parallelism Testing / Height Testing

使用量具 Measuring Tools
百分表、千分表Dial Gauge,Dial Indicator

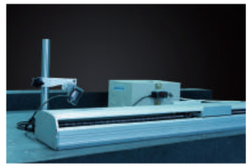
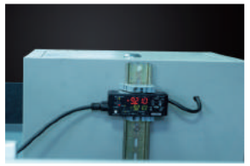
测量方式 Measuring Tools
1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 将量具固定于产品滑座 Fix the measuring tools on the actuator's slider.
3. 如照片方式量测 As photo display.
4. 并用录像方式存盘备查 Record it as a reference.

检测行走直线绝对精度
Absolute Straightness Accuracy Testing

使用量具 Measuring Tools
雷射干涉仪检测Laser Interferometer Detection

测量方式 Measuring Tools
1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 将量具固定于产品滑座 Fix the measuring tools on the actuator's slider.
3. 如照片方式量测 As photo display.
4. 并打印检测报告 Print the test report as a recoder.

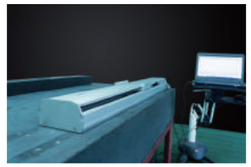
检测重复定位精度
Detection repeat positioning accuracy testing

使用量具 Measuring Tools
雷射干涉仪检测Laser Interferometer Detection

测量方式 Measuring Tools
1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 运用雷射照射反射原理，对准于滑座端面，检测之重复定位精度
Use laser to align the slider's side to the detect the repeatability accuracy.
3. 如照片方式量测 As photo display.
4. 并用录像方式存档备查 Record it as a reference.

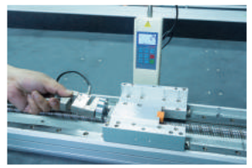
检测动力驱动情况以马达电流值为检测标准
Power Drive Situation Testing by Motor Electric Current



使用量具 Measuring Tools
松下伺服驱动器Panasonic Servo Driver 100W、200W、400W、750W

测量方式 Measuring Tools
1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 安装相应马达 Fix the measuring tools on the actuator's slider.
3. 如照片方式量测 As photo display.
4. 并用录像方式存盘备查 Record it as a reference.

检测顺畅度
Smoothness Testing



使用量具 Measuring Tools
推拉力检测器Pull Tension Gauge

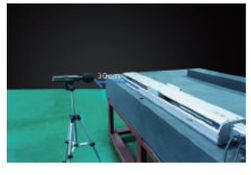
测量方式 Measuring Tools
1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 用推拉力检测器推动滑座Push the slider useing pull tension gauge.
3. 如照片方式量测 As photo display.
4. 并用录像方式存盘备查 Record it as a reference.

检测皮带张力
Belt Tension Testing

使用量具 Measuring Tools
皮带张力量测仪Pull Tension Gauge

测量方式 Measuring Tools
1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 用手拨动皮带并用张力量测仪器，量测皮带振波（张力）
Use belt tension gauge to test the vibration of the belt.
3. 如照片方式量测 As photo display.
4. 并用录像方式存盘备查 Record it as a reference.

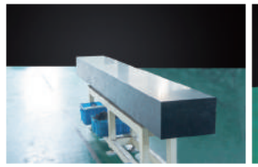
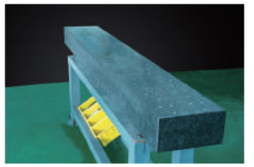
检测噪音值
Decibel Testing



使用量具 Measuring Tools
分贝量测仪器Fix the actuator on granite.

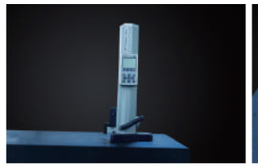
测量方式 Measuring Tools
1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 检测距离300mm Decibel meter put at the distance of 300mm.
3. 用马达驱动产品并以高转速量测Use motor to drive actuator in high speed.
4. 如照片方式量测 As photo display.
5. 并将数据记录在出厂检测报告 Record it on shipping testing.

测量用花岗石平台
Measuring Tool: Granite Platform

花岗石规格 Granite Specifications :
1.Size:3000mm*400mm*250mm
2.Size:2000mm*300mm*150mm
3.Size:1600mm*300mm*200mm
4.Size: 2000mm*1500mm*250mm

来料品检量测
Material Tools



使用量具 Measuring Tools:
1. 三次元检测机 3D 3D Inspection Testing Machine
2. 电子式游标卡尺、游标卡尺 Electronic vernier caliper, Vernier caliper
3. 内径分离卡、外径分离卡 Inside micrometer, Outside micrometer
4. 高度仪、垂直仪 Altimeter, Vertical meter
5. 电子式水平仪 Electronic level meter
6. 百分表、千分表 Dial Gauge、Dial Indicator
7. 卷尺、钢尺 Steel tape、Steel ruler

量具检验标准 Measuring tools calibration standards:
块规、环规（定期委外校验合格）
Block gauge, ring gauge (regularly qualified)
品检室 QC Room :
1. 运用空调系统控制温、湿度，以确保量测稳定
Control temperature and humidity to keep the stability of the measurement.
2. 量具定期校验
Measuring tools calibrate regularly.

外部环境的温度定义
External environment temperature definition

1. 标准温度规范：0° ~ 40°
1.Standard temperature specification: 0° ~ 40°

2. 可特注对应：-20° ~ 80° *需特注使用特殊油脂。
2.Customized temperature:-20° ~ 80° .
*special grease requirementneed to follow customization process.

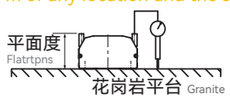
滑台平面度与真直度的基准值
Flatness and Straightness Standard

平面度标准：将滑台固定于平面上，本体安装基准面与滑座基准面的平行度小于0.1mm/M。
Straightness: Fixed the actuator on the measuring plate and measure the parallelism of the datum plane of the carriage and straightness gauge, which should be less than 0.1mm/M.

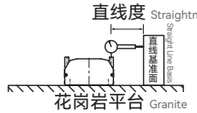
真直度标准：将滑台固定于平面上，滑座基准面与外部直线基准规的平行度小于0.1mm/M。
Flatness: Fixed the actuator on the measuring plate and measure the parallelism of the datum plane of the carriage and mounting surface of the actuator, which should be less than 0.1mm/M.

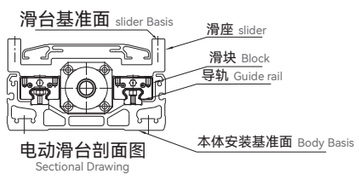
* 上述值为测试环境温度设定于26℃ ±2℃的参数。
The values above are for the test environment temperature set at 26℃ ± 2℃ .
* 上述值为任意位置取1 米做量测，平面度标准需于0.1mm 以内。
The values above are for measuring 1 m of any location and the standard of flatness must to be 0.1mm or less.

平面度测试方法
Flatness Testing Method



平面度测试方法
Flatness Testing Method

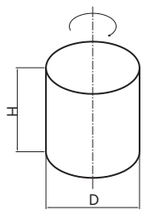




电动滑台剖面图
Sectional Drawing

惯量计算
Equation of Moment of Inertia Calculation

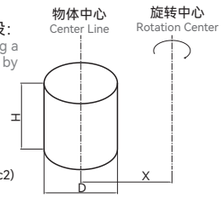
一般情况下，加工冶具及工件并非单一形状，计算起来不容易，计算时往往装分解成几个单一形状的惯量，最后再累加各惯量，以下是几个单一形状物的惯量计算方法。
Usually the load is not a simple form, and the calculation of the moment of inertia is noteasy.As a method,the load is replaced with several factors that resemble a simple form for which themoment of inertia can be calculated. The total of the moment of inertia for these factors is thenobtained.The objects and equations often used for the calculation of the moment of inertia are shownbelow.



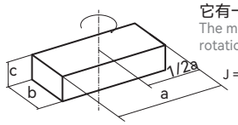
1. 圆柱体力矩惯量计算：
1. Moment or inertia for cylinder :
它有一个旋转的中心，我们作为下列假设：
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J=\frac{P\pi D^4h}{32\times980}=\frac{WD^2}{8g}\ (kgf.\ cm.\ sec^2)$$
$$=\frac{mD^2}{8}\ (Kgm^2)$$

P= 密度 Density (kg / cm³)
g= 重力加速度 Gravitational acceleration (cm / sec2)
W= 圆柱的重力Weight of cylinder (kgf)
m= 圆柱的质量 Mass of cylinder (kg)

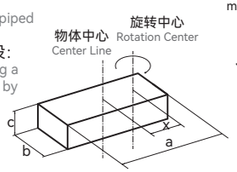


2. 矩形平行六面体力矩惯量计算：
2. Moment of inertia for rectangular parallelepiped :
它有一个旋转的中心，我们作为下列假设：
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by



$$J=\frac{Pabc(a^2+b^2)}{12}=\frac{W(a^2+b^2)}{12g}\ (kgf.\ cm.\ sec^2)$$
$$=\frac{M(a^2+b^2)}{12}\ (Kgm^2)$$

P= 密度 Density (kg / cm³)
g= 重力加速度 Gravitational acceleration (cm / sec²)
W= 圆柱的重力Weight of cylinder (kgf)
m= 圆柱的质量Mass of cylinder (kg)



3. 当目标的中心偏离了旋转中心的计算：
3.When the object's center line is offset from the rotation center :
它有一个旋转的中心，我们作为下列假设：
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J=\frac{P\pi D^4h}{32}+\frac{P\pi D^4h}{4}=\frac{WD^2}{8g}+\frac{WX^2}{G}\ (kgf.\ cm.\ sec^2)$$
$$=\frac{mD^2}{8}+mX^2(Kgm^2)$$

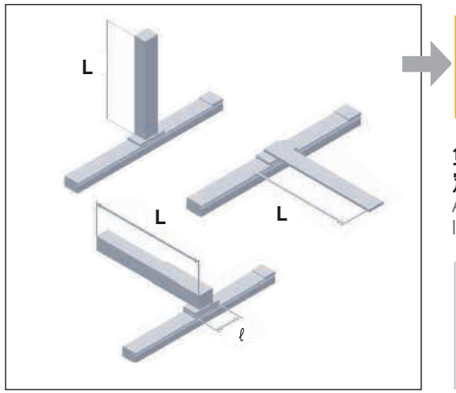
P= 密度 Density (kg / cm³)
g= 重力加速度 Gravitational acceleration (cm / sec²)
W= 圆柱的重力 Weight of cylinder (kgf)
m= 圆柱的质量 Mass of cylinder (kg)

$$J=\frac{Pabc(a^2+b^2)}{12}+\frac{PabcX^2}{G}$$
$$=\frac{W(a^2+b^2)}{12g}+\frac{WX^2}{G}\ (kgf.\ cm.\ sec^2)$$
$$=\frac{M(a^2+b^2)}{12}+mX^2(Kgm^2)$$

W= 棱体重力 Weight of prism (kgf)
m= 棱体的质量 Mass of prism (kg)

负载力臂长度
Overhang Load Length

负载力臂长度是代表滑座可承受伸出的最长距离，从电动滑台上的滑座延伸出去的负载力臂超过容许值时，会造成异常的振动及整定时间增加，所以请务必遵守负载力臂长度的限制。
An overhang load length is specified for a slider-type actuator to indicate the length of overhang (offset) from the actuator. When the length of an object mounted to the slider actuator exceeds this length, it will generate vibration and increase the settling time. So, pay attention to the allowable overhang length as well as the



滑座长度决定了负载力臂长度。
The allowable overhang load length is determined by the slider length.

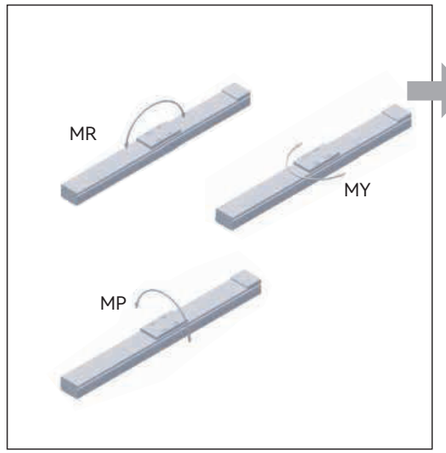
负载力臂超过容许值时，会造成异常的振动及整定时间增加，所以请务必遵守负载力臂长度的限制。
An overhang that exceeds the allowable overnang length will generate vibration and increase settling time.

L/l= 5以内
*请尽量控制在3-4之间。
搭配CCD做计测试用时。
Between 3 to 4 for a cameraequipped

参考 For example:
L/l=1.2加工机械 Mechanical Machine
L/l=3 计测机械 Measuring Machine
L/l=5 一般机械(取放作业) Robot

容许负荷力矩
Allowable Dynamic Moment

MP、MY、MR，3 个方向的力矩均不相同。超过容许值得使用状态，线性滑轨的寿命会降低。若无法在容许值内使用，请务必在外部加装容许负荷力矩是表示依据线性滑轨的走行寿命为基准所计算出滑座上可承受的最大的负荷力矩，不同规格的电动滑台上滑轨所承受的辅助线性滑轨。
The allowable dynamic moment is the maximum offset load exerted on the slider, calculated from the guide service life.
The direction in which force is exerted on the guide is categorized into 3 directions - MP (pitch), MY (yaw), MR (roll) - the tolerance for each of which are set for each actuator.Applying a moment exceeding the allowable value will reduce the service life of the actuator. Use an auxiliary guide when working within or in excess of these tolerances.



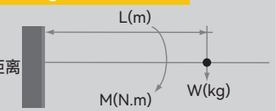
容许负荷力矩是依据线性滑轨的走行寿命为基准所计算出来的。
The allowable dynamic moment is calculated from the service life of the guide.

使用上超过容许值。会大幅降低电动滑台的使用寿命。
Over the moment would reduce the life of actuator.

*容许负载力矩是依据以下的基准计算出来。
Moment is based on the following basis.

M(N.m)=W(kg)×L(m)×9.8

W(kg)=重心位置的重量
W:Load
L(m)=回转中心到重心的距离
L:Distance from work point to the center of gravity of payload.



导程精度
Lead Accuracy

精密滚珠螺杆，以JIS 规格为基准，各特性之定义与容许值如下：
TBI's precision ground baliscrews are controlled in accordance with JIS B 1192.
The permissible values and definitions of each part are shown below.

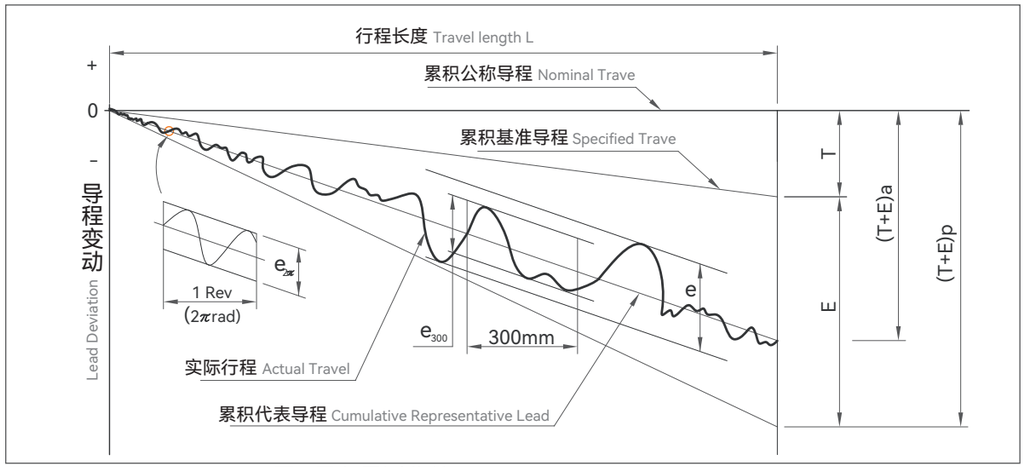


图1 导程量测曲线Chart 1 Technical Terms Concerning the Lead

图1 Chart1 导程曲线各名词定义Terms

T + E	累积代表导程 Cumulative Representative Lead	为一直线，代表实际累积导程的倾向。这是以雷射检测后的数据经最小平方值方法算出。
P		容许值。 Permissible value.
a		实际测量值。 Actual value.
T	累积基准导程 指定目标值 Specified Travel Specify The Target Value	在有效螺纹范围内，累积基准导程减累积公称导程的差谓之。亦即考虑运转时热膨胀、弹性变形等因素，而事先交累积公称导程于正负方向加以补正，并据此制作螺杆，其值依实验或经验而定。 Specified travel. This value is determined by customer and maker as it depends on different application requirements.
E	累积代表导程之误差 Cumulative Representative Lead Error	累积代表导程减累积基准导程的值，此值可有正负值。 Accumulated reference lead deviation. This is allowable deviation of specified travel. It is decided by both of the accuracy grade and effective thread length.
e	变动 Change	在有效螺纹长度范围内最大幅宽。 Total relative lead variation Maximum width of variation over the travel length.
e_{300}		在有效螺纹长度范围内任取300mm 的最大幅宽。 Lead deviation in random 300 mm.
$e_{2\pi}$		螺杆转动1 圈的范围内，螺帽对应于任意的回转角的轴方向移动量的实测值与基准值的差的最大幅宽。

图2 chart 2 累积导程的误差(±E) 和变动(e) 的容许值 Accumulated reference lead deviation (±E) and total relative variation (e)

有效丝杆长度 Effective screw length (mm)		C0		C1		C2		C3		C4		C5		C6	C7	C8
OVER	UP TO	E	e	E	e	E	e	E	e	E	e	E	e	±0.025	±0.050	±0.120
	315	4	3.5	6	5	5	7	12	8	12	12	23	18	300mm	300mm	300mm
315	400	5	3.5	7	5	7	7	13	10	14	12	25	20			
400	500	6	4	8	5	8	7	15	10	16	12	27	20			
500	630	6	4	9	6	9	7	16	12	18	14	30	23			
630	800	7	5	10	7	10	7	18	13	20	14	35	25			
800	1000	8	6	11	8	11	8	21	15	22	16	40	27			
1000	1250	9	6	13	9	13	9	24	16	25	18	46	30			
1250	1600	11	7	15	10	15	10	29	18	29	20	54	35			
1600	2000			18	11	18	11	35	21	35	22	65	40			
2000	2500			22	12	21	13	41	24	41	25	77	46			
2500	3150			26	15	25	15	50	29	50	29	93	54			
3150	4000			32	18	30	18	62	35	62	35	115	65			
4000	5000					36	21	76	41	76	41	140	77			
5000	6300							85	50	85	50	170	96			
6300	8000							106	62	106	62	213	115			
8000										132	75	265	140			

图3 chart 3 精度等级Accuracy grade

任意300mm(e_{300}) 以及任意导程($e_{2\pi}$)
Variation in random 300mm (e300) and wobble (e2π)

α522 单位 Unit：μm

GRAND	C0	C1	C2	C3	C4	C5	C6	C7	C10
JIS	3.5	5		8		18		50	210
TBI	3.5	5	7	8	12	18	25	50	210

α4π 单位 Unit：μm

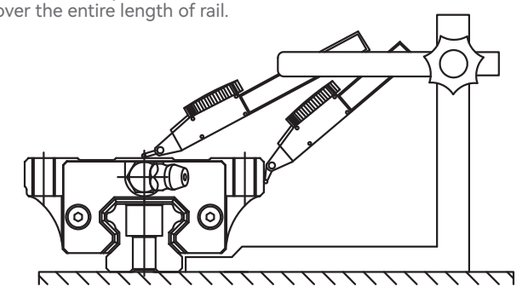
GRAND	C0	C1	C2	C3	C4	C5
JIS	3	4		6		8
TBI	3	4	4	6	8	8

精度标准
Accuracy Standard

直线导轨的精度可分为行走平行度、高度 (H) 及宽度（W2）的尺寸容许误差。导轨单轴使用或在同平面使用复数轴时，规范各个滑块组合高度与宽度的成对相互差。各型号的精度分为普通级 (N)、高级 (H)、精密级 (P)、超精密级 (SP) 与超高精密级 (UP) 五个等级。
The accuracy of linear guideway includes the dimensional tolerance of height, width, and the running accuracy of the carriage on the rail. The standard of the dimension difference is built for two or more carriages on a rail or a number of rails are used on the same plane.The accuracy of linear guideway is divided into 5 classes, normal grade (N), high precision (H), precision (P),super precision (SP), and ultra precision (UP).

行走平行度
Running Parallelism

是指将滑轨以螺栓固定在基面上，使滑块在滑轨全长上运行时，滑块与滑轨基准面之间的平行误差，如图(1) 所示。
The running accuracy is the deviation of parallelism between the reference surface of carriageand reference surface of rail when carriage moving over the entire length of rail.



(图1) 行走平行度的量测
(fig.1) Flatness measurement

Height Difference (△H)

是指组合在同平面上的各个滑块高度尺寸(H) 的最大值与最小值之差。
The height difference (△H) means the height difference among carriages installed on the same plane.

高度的成对相互差(△H)
Height Difference (△H)

是指装在单支滑轨上的每个滑块与滑轨基准面之间的宽度（W2）尺寸的最大值与最小值之差。
The width difference (W2) means the width difference among carriages installed on a rail.

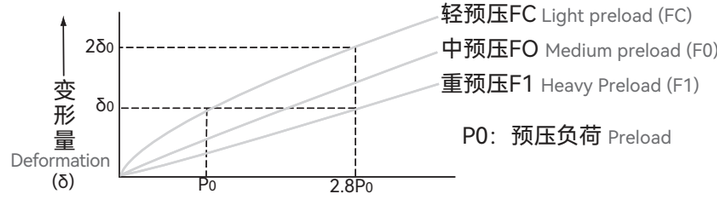
宽度的成对相互差(△W2)
Width Difference (△H)

注意事项
Note:

1. 同平面上2 轴以上配对使用时，宽度（W2）的尺寸对容许误差与成对相互差（△ W2）只适用于基准侧，而基准侧滑轨的制造号码末尾，印有“MR ”标记，但是普通级(N) 滑轨没有此记号。
1.When it is a application of two axis or more on the same plane., the tolerance of width (W2) to pairs tolerance (W2) are only suitable to master side. The end of master linear guide is marked “MR” sign but the mark MR will not show on the N-class linear rail.
2. 精度测定值是以滑块中心点或中心部的平均值为基准。
2.The measured precision value is based on the average value measured from the center of block.

预压与刚性
Preload and Stiffness

直线导轨可以藉由施加预压来提高刚性。如图(2) 所示，预压的效果可保持外部负荷增大到预压负荷的2.8 倍，即提高2.8 倍的刚性值，而预压是利用增加钢珠的直径，使钢珠与滚动面之间产生负项间隙，预先施于内部负荷，所以在进行寿命计算时，必须将其预压负荷考虑进去。
The rigidity of a linear guideway could be enhanced by increasing the preload. As shown as figure below, the load could be raised up to 2.8 times when thepreload applied.
The preload is represented by negative clearance resulting from the increase of rolling element diameter. Therefore, the preload should be considered in service life calculation.



(图2) 刚性
(fig.2) Stiffness

预压等级的选用
Allowable Dynamic Moment

线性滑轨的使用，应根据不同的使用条件来选择最适合的预压等级，选用的基准请参照以下资料。
Selecting proper preload from table below to adapt the specific application and condition.

MP、MY、MR，3 个方向的力矩均不相同。超过容许值得使用状态，线性滑轨的寿命会降低。若无法在容许值内使用，请务必在外部加装容许负荷力矩是表示依据线性滑轨的走行寿命为基准所计算出滑座上可承受的最大的负荷力矩，不同规格的电动滑台上滑轨所承受的辅助线性滑轨。
The allowable dynamic moment is the maximum offset load exerted on the slider, calculated from the guide service life.
The direction in which force is exerted on the guide is categorized into 3 directions - MP (pitch), MY (yaw), MR (roll) - the tolerance for each of which are set for each actuator.Applying a moment exceeding the allowable value will reduce the service life of the actuator. Use an auxiliary guide when working within or in excess of these tolerances.

直线滑轨的预压选用基准
Preload standard of linear guide.

预压等级 Preload	适用条件 Conditions	应用例 Application
轻预压 Light Preload (FC)	●负荷方向一定，振动、冲击力小，2 轴并列使用的装置。 The loading direction is fixed, vibration and impact are light, and two axes are applied in parallel. ●精度要求不高，但要求滑动阻力小的设备。	射束焊接机械、装订机械、自动包装机、一般工业机械的XY轴、自动门窗加工机、焊接机、熔断机、工具交换装置、各种材料供给装置。 Welding machine, binding machine, auto packing machine, XY axis of ordinary industrial machine, material handling equipments.
中预压 Medium Preload (F0)	●有悬臂负荷或力矩作用的装置。 Overhang application with a moment load. ●单轴使用的设备。 Applied in one-axis configuration. ●轻负荷且要求高精度的设备。 The need of light preload and nigh precision.	磨床工作台进给轴、自动涂装机、工业用机器人、各种高速材 料供给装置，NC 车床、一般工业机械的Z 轴、印刷线路板的打孔机、电火花加工机、测定器、精密XY 平台。 Z axis of industrial machines, EDM, precision XY table, PC board drilling machine, industrial robot, NC lathe, measuring equipment, grinding machine, auto painting
重预压 Heavy Preload (F1)	●要求高刚性，且振动、冲击力大的设备。 Machine is subjected to vibration and impact, and high rigidity rquired. ●高负荷、重切削的机床等。 Application of heavy load or heavy cutting.	机械加工中心、NC 车床、磨床的砂轮进给轴、铣床、立式或横式镗床、刀具导向部、工作机械的Z 轴。 Machine center, NC lathe, grinding machine, milling machine, Z axis of boring machine and machine tools.

滚珠丝杆驱动电动滑台参数计算公式
The calculation formulas of ball screw robot

①.驱动扭矩 Driving torque：T=F*S*I*W/(2000*π*η)+T0(N/M)

②.电机功率 Motor s rated power：P=T*N/9550(KW)

说明 Notes

T0- - - - - -空载扭矩 No load torque (N/m)

T- - - - - - 驱动扭矩 Driving torque (N/m)

F- - - - - - 推力 Push force （N)

S- - - - - - 丝杆导程 screw s pitch

N- - - - - - 丝杆转速 Rotation speed of screw

η- - - - - - 丝杆效率 Efficiency of screw (0.98)

I- - - - - - -安全系数 Safety coefficient (≥1)

W- - - - - - 摩擦系数 Friction coefficient (≤1.22)

M- - - - - - 负载质量 Load weight (KG)

P-- - - - - 电机功率 Motor s rated power (KW)

同步皮带电动滑台参数计算公式
The calculation formulas of synchronous belt robot

①.驱动力矩 Driving torque：T=F*R*S*I+T0=F*C*I/(2000*π)+T0(N/M)

②.电机功率 Motor s rated power：P=T*N/9550(KW)

说明 Notes

T0- - - - - -空载扭矩 No load torque (N/m)

F- - - - - - 推力 Push force (N)

R- - - - - - 驱动轴半径 Driving shaft s radius (mm)

N- - - - -- 带轮转速 Rotation speed of synchronous belt

I- - - - - - -保险系数 Insurance coefficient (>1.8)

M- - - --- 负载质量 Load weight (KG)

C- - - - -- 驱动轴周长 Length of driving shaft (mm)

μ- - - - - 摩擦系数 Friction coefficient (0.05)

滚珠丝杆及同步皮带电动滑台共用计算公式
The sharing calculation formulas for ball screw and synchronous belt robots

①.水平运动所需推力Push force for horizontal movement：

F=M*A+M*9.8*μ

②.垂直向上运动所需推力Push force for vertical upward movement：

F=M*A+M*9.8*μ+M*9.8

③.垂直向下运动所需推力 Push force for vertical downward movement：

F=M*A+M*9.8*μ-M*9.8

④.速度 Velocity:V=N*C/60000(M/S)

N- - - -电机转速 （RPM每分钟转速）

Motor s rotation speed (RPM per minute)

⑤.加速度 Acceleration：A=F/M (M/s2)

⑥.加速行程 Accelerating travel：S=V*t/2 (M/s2)

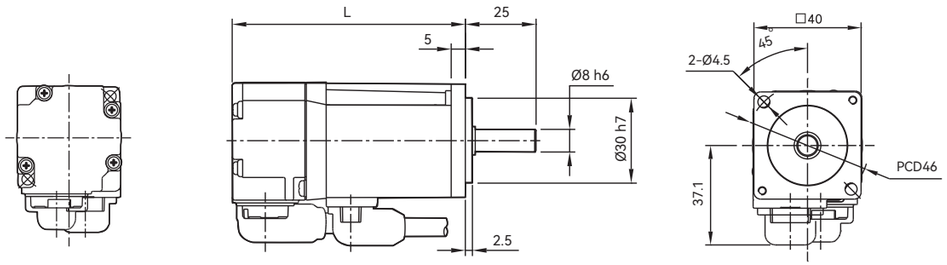
⑦.加速时间 Accelerating time：t=V/A（s）

马达型号 Servo Motor		HG-KR053	HG-KR13	HG-KR23	HG-KR43	HG-KR73
	有刹车 With Brake	HG-KR053B	HG-KR13B	HG-KR23B	HG-KR43B	HG-KR73B
搭配驱动器型号 Motor Drives		MR-J4-10A	MR-J4-10A	MR-J4-20A	MR-J4-40A	MR-J4-70A
电源设备容量(KAV) Power Supply Capacity		0.3	0.3	0.5	0.9	1.3
额定输出(W) Power Consumption		50	100	200	400	750
额定转矩(N.m) Rated Torque		0.16	0.32	0.64	1.3	2.4
瞬时最大转矩(N.m) Instantaneous Maximum Torque		0.56	1.1	2.2	4.5	8.4
额定电流(Arms) Rated Current		0.9	0.7	1.3	2.6	4.9
最大电流(Arms) Maximum Current		3.2	2.5	4.6	9.1	17.2
额定转速(r/min) Rated Speed		3000				
最高转速(r/min) Maximum Speed		6000				
惯量力矩(X10-4 kg.m2) load Inertia	无刹车 No Brake	0.045	0.088	0.24	0.42	1.43
	有刹车 With Brake	0.0472	0.09	0.31	0.5	1.63
建议负载惯量与力矩比 load Inertia Moment Ratio		15 倍以下 Under 15 Multiple		24 倍以下 Under 24 Multiple	22 倍以下 Under 22 Multiple	15 倍以下 Under 15 Multiple
速度、位置检出器 Controller	型式 Type	绝对值，增量型共享22bit 之编码器 Incremental, Share With 22 Bit Controller				
	一回转分解能 Encuder Resolutiss Of Servo Motor	4194304 p/rev				
保护构造 Structure		全闭自冷(保护等级IP65) Natural-cooling,Open (IP Rating:IP65)				
使用环境 Environmental Conditions	周围温度 Ambient Temperature	0℃ ~ 40℃ (不可结冰)，保存-15℃ ~ 70℃ (避免冻结) 0℃ ~40℃ Non-freezing -15℃ ~70℃ Non-freezing				
	周围湿度 Ambient Humidty	80%RH 以下(不可结露)，保存90%RH 以下(避免结露) 80%RH Non-freezing 90%RH Non-condensing				
	安装场所 Ambience	室内(避免阳光直射)、腐食性气体、引火性气体、油雾、尘埃避免 Indoors(no direct sunlight), Free From Corrosive Gas, Flammable Gas, Oil Mist, Dust, And Dirt.				
	安装高度 Altitude	海拔1000m 以下 Max. 1000 m Above Sea Level				
	耐热性 Vibration	49m/s²				
重量(kg) Weight	无刹车 No Brake	0.34	0.54	0.91	1.4	2.8
	有刹车 With Brake	0.54	0.74	1.3	1.8	3.8

50/100W

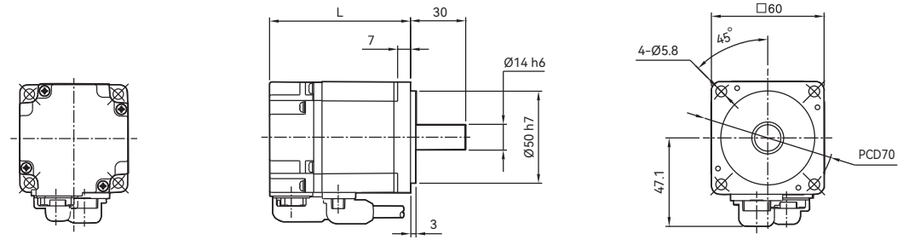
型号 Model	50W	L
HG-KR053	无刹车 No Brake	66.4
HG-KR053B	有刹车 With Brake	107

型号 Model	100W	L
HG-KR13	无刹车 No Brake	82.4
HG-KR13B	有刹车 With Brake	123



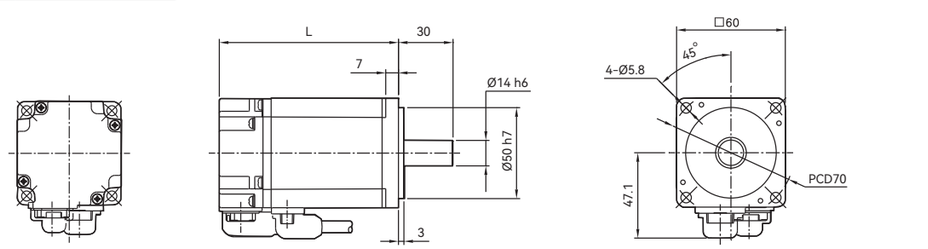
200W

型号 Model	200W	L
HG-KR23	无刹车 No Brake	76.6
HG-KR23B	有刹车 With Brake	113.4



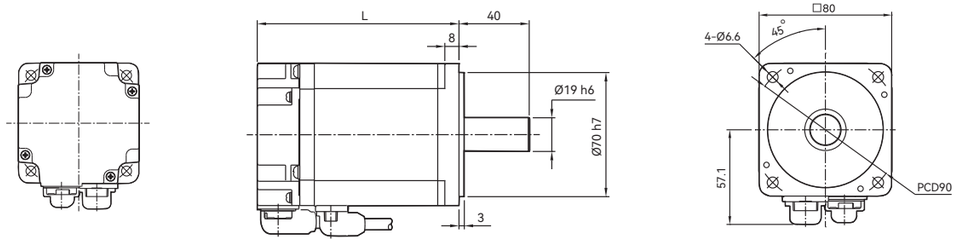
400W

型号 Model	400W	L
HG-KR43	无刹车 No Brake	98.3
HG-KR43B	有刹车 With Brake	135.1



750W

型号 Model	750W	L
HG-KR73	无刹车 No Brake	112
HG-KR73B	有刹车 With Brake	152.3

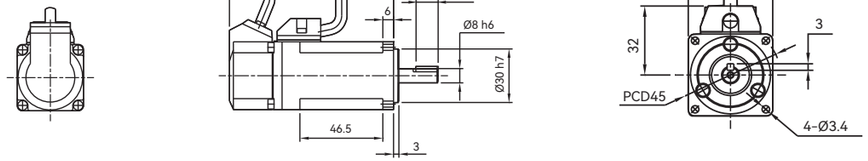


马达型号 Servo Motor						
	无刹车 No Brake	MSMF5AZL1U2M	MSMF012L1U2M	MSMF022L1U2M	MSMF042L1U2M	MSMF082L1U2M
	有刹车 With Brake	MSMF5AZL1V2M	MSMF012L1V2M	MSMF022L1V2M	MSMF042L1V2M	MSMF082L1V2M
搭配驱动器型号 Motor Drives		MADLN05SG	MADLN05SG	MADLN15SG	MBDLN25SG	MCDLN35SG
电源设备容量(KAV) Power Supply Capacity		0.5	0.5	0.5	0.9	1.3
额定输出(W) Power Consumption		50	100	200	400	750
额定转矩(N.m) Rated Torque		0.16	0.32	0.64	1.27	2.39
瞬时最大转矩(N.m) Instantaneous Maximum Torque		0.48	0.95	1.91	3.82	7.16
额定电流(Arms) Rated Current		1.1	1.1	1.5	2.4	4.1
最大电流(Arms) Maximum Current		4.7	4.7	6.5	10.2	17.4
额定转速(r/min) Rated Speed		3000				
最高转速(r/min) Maximum Speed		5000				
惯量力矩(X10-4 kg.m2) load Inertia	无刹车 No Brake	0.026	0.048	0.14	0.27	0.96
	有刹车 With Brake	0.029	0.051	0.17	0.30	1.06
建议负载惯量与力矩比 load Inertia Moment Ratio		30 倍以下 Under 22 Multiple				20 倍以下 Under 20 Multiple
速度、位置检出器 Controller	型式 type	23bit 绝对式 Incremental				
	一回转分解能 Resolution	8388608				
保护构造 Structure		全闭自冷(保护等级IP65) Natural-cooling,Open (IP Rating:IP65)				
使用环境 Environmental Conditions	周围温度 Ambient Temperature	0℃ ~ 40℃ (不可结冰)，保存-15℃ ~ 70℃ (避免冻结) 0℃ ~40℃ Non-freezing -20℃ ~80℃ Non-freezing				
	周围湿度 Ambient Humidty	80%RH 以下(不可结露)，保存90%RH 以下(避免结露) 80%RH Non-freezing				
	安装场所 Ambience	室内(避免阳光直射)、腐食性气体、引火性气体、油雾、尘埃避免 Indoors(no direct sun light), Free From Corrosive Gas, Flammable Gas, Oil Mist, Dust, And Dirt.				
	安装高度 Altitude	海拔1000m 以下 Max. 1000 m Above Sea Level				
	耐热性 Vibration	49m/s^2				
重量(kg) Weight	无刹车 No Brake	0.32	0.47	0.82	1.2	2.3
	有刹车 With Brake	0.53	0.68	1.3	1.7	3.1

50/100W

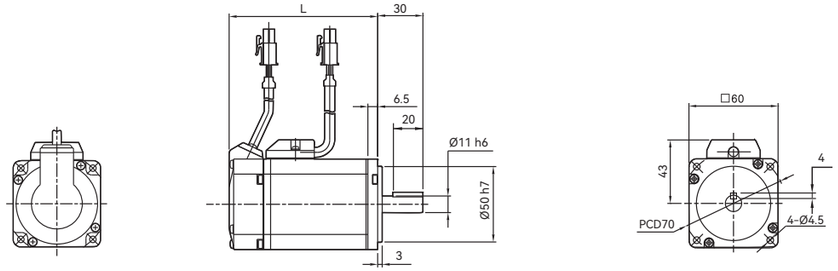
型号 Model	50W	L
MSMF5AZL1U	无刹车 No Brake	97
MSMF5AZL1V	有刹车 With Brake	127

型号 Model	100W	L
MSMF012L1U	无刹车 No Brake	117
MSMF012L1V	有刹车 With Brake	147



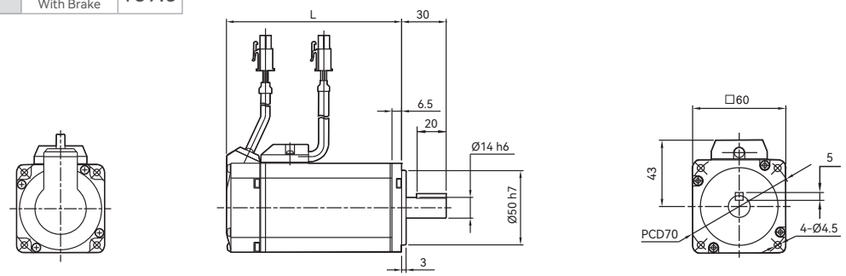
200W

型号 Model	200W	L
MSMF022L1U	无刹车 No Brake	109.5
MSMF022L1V	有刹车 With Brake	146



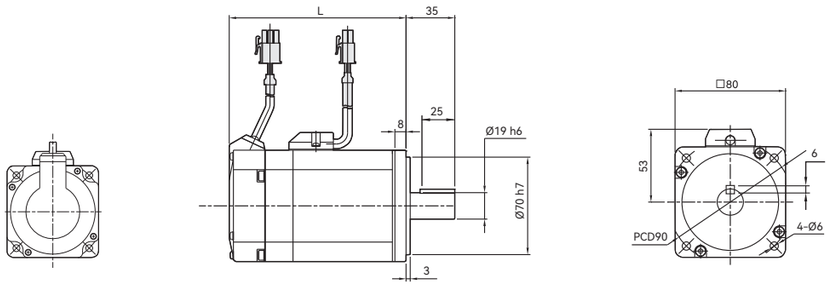
400W

型号 Model	400W	L
MSMF042L1U	无刹车 No Brake	129
MSMF042L1V	有刹车 With Brake	169.5



750W

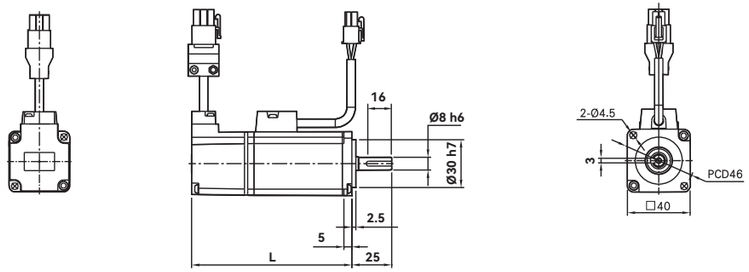
型号 Model	750W	L
MSMF082L1U	无刹车 No Brake	147.2
MSMF082L1V	有刹车 With Brake	184.2



马达型号 Servo Motor		ECMA-C20401RS	ECMA-C20602RS	ECMA-C20604RS	ECMA-C20807RS
	无刹车 No Brake	ECMA-C20401SS	ECMA-C20602SS	ECMA-C20604SS	ECMA-C20807SS
搭配驱动器型号 Motor Drives		ASD-B20121-B	ASD-B20221-B	ASD-B20421-B	ASD-B20721-B
额定输出(W) Power Consumption		100	200	400	750
额定转矩(N.m) Rated Torque		0.32	0.64	1.27	2.39
瞬时最大转矩(N.m) Instantaneous Maximum Torque		0.96	1.92	3.82	7.16
额定电流(Arms) Rated Current		0.9	1.55	2.6	5.1
最大电流(Arms) Maximum Current		2.7	4.65	7.8	15.3
额定转速(r/min) Rated Speed		3000			
最高转速(r/min) Maximum Speed		5000			
惯量力矩(X10-4 kg.m2) load Inertia	无刹车 No Brake	0.037	0.177	0.277	0.68
	有刹车 With Brake	0.04	0.192	0.3	0.73
速度、位置检出器 Controller	型式 Type	增量型共用17bit 之编码器 Incremental, Share With 17 Bit Controller			
	一回转分解能 Encuder Resolutiss Of Servo Motor	160000 p/rev			
保护构造 Structure		IP65			
使用环境 Environmental Conditions	周围温度 Ambient Temperature	0℃ ~ 55℃ (不可结冰)，保存-20℃ ~ 65℃ (避免冻结) 0℃ ~55℃ ，-20℃ ~65℃ Non-freezing			
	周围湿度 Ambient Humidty	20%~90%RH 以下(不可结露) 20%~90%RH Non-condensing			
	安装场所 Ambience	室内(避免阳光直射)、腐食性气体、引火性气体、油雾、尘埃避免 Indoors(no direct sunlight), Free From Corrosive Gas, Flammable Gas, Oil Mist, Dust, And Dirt.			
	安装高度 Altitude	海拔l000m 以下 Max. 1000 m Above Sea Level			
	耐热性 Vibration	20 Hz 以下 9.80665 m/s2 (1G)，20 ~ 50 Hz 5.88 m/s2 (0.6 G)			
重量(kg) Weight	无刹车 No Brake	0.5	1.2	1.6	3
	有刹车 With Brake	0.8	1.5	2	3.8

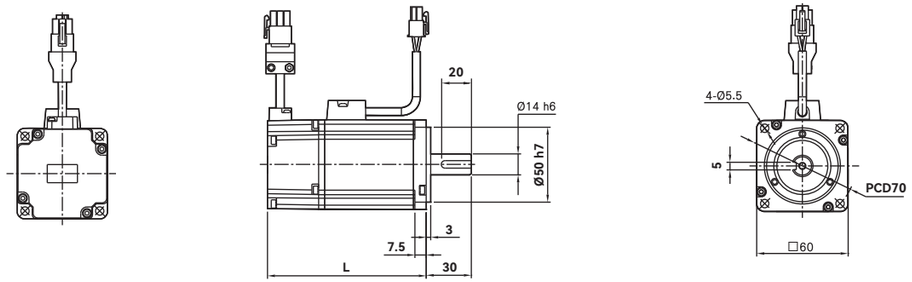
100W

型号 Model	100W	L
ECMA-C20401RS	无刹车 No Brake	100.6
ECMA-C20401SS	有刹车 With Brake	136.8



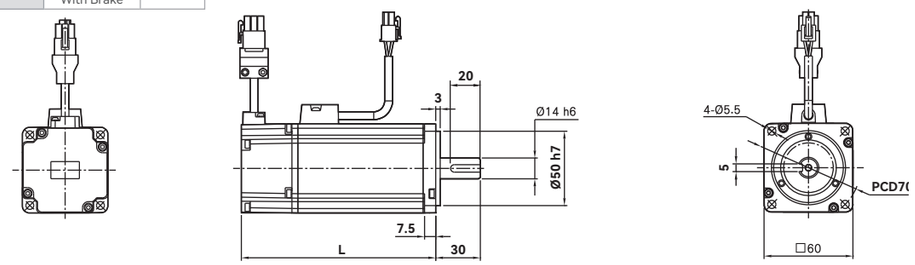
200W

型号 Model	200W	L
ECMA-C20602RS	无刹车 No Brake	105.5
ECMA-C20602SS	有刹车 With Brake	141.6



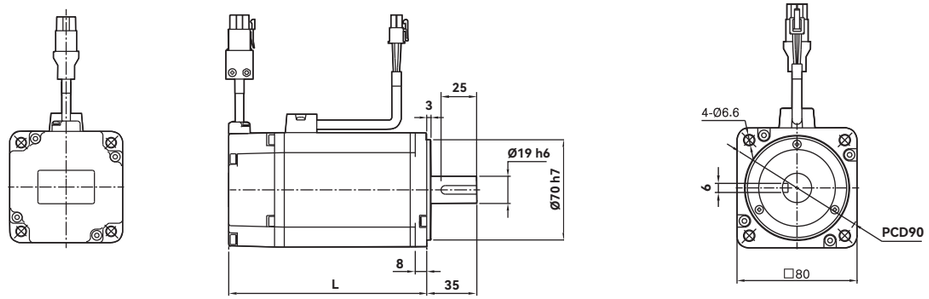
400W

型号 Model	400W	L
ECMA-C20604RS	无刹车 No Brake	130.7
ECMA-C20604SS	有刹车 With Brake	166.8



750W

型号 Model	750W	L
ECMA-C20807RS	无刹车 No Brake	138.3
ECMA-C20807SS	有刹车 With Brake	178



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