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Integrated specifications with multi-functions for your various solutions in the various industries.

1 Ball screw drive/General environment ▶P.034

Small Type

VT4		Maximum Stroke	240mm
		Maximum Payload	5KG 036
		Body Width	45mm

VT5		Maximum Stroke	600mm
		Maximum Payload	10KG 040
		Body Width	55mm

VT6		Maximum Stroke	600mm
		Maximum Payload	30KG 044
		Body Width	65mm

VF6		Maximum Stroke	1000mm
		Maximum Payload	25KG 048
		Body Width	60mm

VF8		Maximum Stroke	1000mm
		Maximum Payload	35KG 052
		Body Width	80mm

Standard Type

VF10		Maximum Stroke	1000mm
		Maximum Payload	65KG 056
		Body Width	100mm

VF12		Maximum Stroke	1000mm
		Maximum Payload	84KG 060
		Body Width	120mm

VF14		Maximum Stroke	1500mm
		Maximum Payload	115KG 065
		Body Width	140mm

Large Type

VF17		Maximum Stroke	1500mm
		Maximum Payload	120KG 071
		Body Width	170mm

Large Type

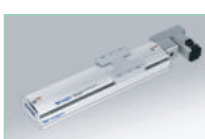
VF22		Maximum Stroke	1500mm
		Maximum Payload	150KG 076
		Body Width	220mm

2 Timing belt drive/General environment ▶P.080

Standard Type

VBF10		Maximum Stroke	3000mm
		Maximum Payload	15KG 082
		Body Width	100mm

VBF12		Maximum Stroke	3500mm
		Maximum Payload	30KG 087
		Body Width	120mm

VBF14		Maximum Stroke	3500mm
		Maximum Payload	40KG 092
		Body Width	140mm

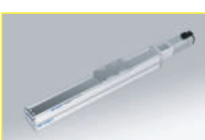
VBF17		Maximum Stroke	3500mm
		Maximum Payload	55KG 097
		Body Width	170mm

Large Type

VBF22		Maximum Stroke	4000mm
		Maximum Payload	85KG 102
		Body Width	220mm

3 Ball screw drive/Dust-free environment ▶P.106

Small Type

VC6		Maximum Stroke	800mm
		Maximum Payload	30KG 108
		Body Width	60mm

VC8		Maximum Stroke	1000mm
		Maximum Payload	35KG 112
		Body Width	80mm

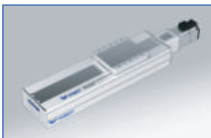
Standard Type

VC10		Maximum Stroke	1000mm
		Maximum Payload	65KG.....116
		Body Width	100mm

VC12		Maximum Stroke	1200mm
		Maximum Payload	84KG.....121
		Body Width	120mm

VC14		Maximum Stroke	1500mm
		Maximum Payload	115KG.....126
		Body Width	140mm

Large Type

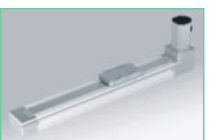
VC17		Maximum Stroke	1500mm
		Maximum Payload	120KG.....131
		Body Width	170mm

VC22		Maximum Stroke	1500mm
		Maximum Payload	150KG.....136
		Body Width	220mm

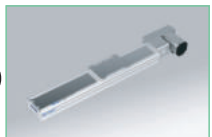
4 Timing belt drive/Dust-free environment ▶P.140

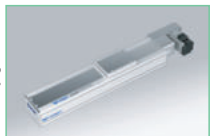
Small Type

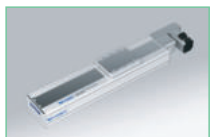
RBC5		Maximum Stroke	800mm
		Maximum Payload	5KG.....142
		Body Width	55mm

RBC6		Maximum Stroke	800mm
		Maximum Payload	8KG.....145
		Body Width	65mm

Standard Type

VBC10		Maximum Stroke	3000mm
		Maximum Payload	25KG.....148
		Body Width	100mm

VBC12		Maximum Stroke	3500mm
		Maximum Payload	30KG.....153
		Body Width	120mm

VBC14		Maximum Stroke	3500mm
		Maximum Payload	40KG.....158
		Body Width	140mm

Large Type

VBC17		Maximum Stroke	3500mm
		Maximum Payload	55KG.....163
		Body Width	170mm

5 Timing belt drive/General environment ▶P.167

LB6		Maximum Stroke	5700mm
		Maximum Payload	40KG.....169
		Body Width	65mm

LB8		Maximum Stroke	5700mm
		Maximum Payload	68KG.....172
		Body Width	80mm

GB5		Maximum Stroke	1500mm
		Maximum Payload	5KG.....175
		Body Width	55mm

Standard Type

Standard Type

Long stroke

GB5Z



Maximum Stroke	1500mm
Maximum Payload (Vertical Payload)	5KG 178
Body Width	55mm

Long stroke

GB8



Maximum Stroke	5500mm
Maximum Payload	40KG 181
Body Width	80mm

GB8Z



Maximum Stroke	2000mm
Maximum Payload (Vertical Payload)	15KG 186
Body Width	80mm

6

Dual motors series

► P.188

Ball screw drive/General environment

VF14D2



Maximum Stroke	1500mm
Maximum Payload	115KG 190
Body Width	140mm

Timing belt drive/General environment

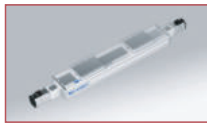
VBF14S2



Maximum Stroke	3000mm
Maximum Payload	*20KGx2 194
Body Width	140mm

Ball screw drive/Dust-free environment

VC14D2



Maximum Stroke	1500mm
Maximum Payload	115KG 198
Body Width	140mm

Timing belt drive/Dust-free environment

VBC14S2



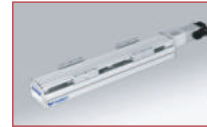
Maximum Stroke	3000mm
Maximum Payload	*20KGx2 202
Body Width	140mm

7

Gripping type single axis robot

► P.205

VF8D1



Maximum Stroke	1500mm
Maximum Payload	25KG 207
Body Width	80mm

VF12D1



Maximum Stroke	1500mm
Maximum Payload	84KG 211
Body Width	120mm

8

Electric cylinder

► P.214

VZ5



Maximum Stroke	300mm
Maximum Payload	30KG 216
Body Width	52mm

VZ5D



Maximum Stroke	300mm
Maximum Payload	30KG 219
Body Width	52mm

VZ6



Maximum Stroke	500mm
Maximum Payload	100KG 222
Body Width	65mm

VZ6D



Maximum Stroke	500mm
Maximum Payload	90KG 225
Body Width	65mm

Standard Type

9

Rotation axis

► P.227

R01



Maximum rotation angle	360°
Maximum Payload	1KG 228
Body Width	80mm

R05



Maximum rotation angle	360°
Maximum Payload	5KG·····229
Body Width	90mm

R10



Maximum rotation angle	360°
Maximum Payload	10KG·····230
Body Width	97mm

ZR03



Maximum rotation angle	360°
Maximum Payload	3KG·····231

ADT Pneumatic Rotary Indexing Table



Maximum rotation angle	8000N
Max. tangential moment	500Nm·····232
Max.torque (6 bar)	58.9Nm

LNR10 Electric Rotary Indexing Table



Repeatability (°)	±0.05
Max. torque	0.32Nm·····235
Maximum rotation angle	without limiter: >360° with limiter: 310°

LNR30 Electric Rotary Indexing Table



Repeatability (°)	±0.05
Max. torque	1.2Nm ·····238
Maximum rotation angle	without limiter: >360° with limiter: 310°

LNR50 Electric Rotary Indexing Table



Repeatability (°)	±0.05
Max. torque	10Nm ·····241
Maximum rotation angle	without limiter: >360° with limiter: 310°

10 Electric gripper

►P.244

LEF20 Electric Gripper



Clamping force (N)	15-98
Clamping speed (mm/s)	5-50·····245
Repeatability(mm)	±0.02

11 Miniature

►P.246

LES16



Max Stroke (mm)	100
Max Payload (KG)	6 ·····247
Repeatability(mm)	±0.04

LES25



Max Stroke (mm)	150
Max Payload (KG)	9 ·····250
Repeatability(mm)	±0.04

12 Linear motor

►P.253

LMD-F14-T1



Maximum Stroke	3000mm
Body Width	140mm ·····255
Repeatability	±0.005 mm

LMD-F17-T1



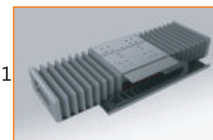
Maximum Stroke	3000mm
Body Width	170mm ·····257
Repeatability	±0.005 mm

LMD-F22-T1



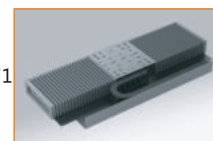
Maximum Stroke	3150mm
Body Width	220mm ·····259
Repeatability	±0.005 mm

LMD-T20-T1



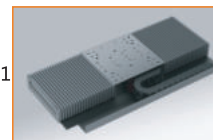
Maximum Stroke	1000mm
Body Width	200mm ·····261
Repeatability	±0.005

LMD-T28-T1



Maximum Stroke	1000mm
Body Width	280mm ·····263
Repeatability	±0.005 mm

LMD-T35-T1



Maximum Stroke	800mm
Body Width	350mm ·····265
Repeatability	±0.005 mm

LT8



Maximum Stroke	800mm
Body Width	80mm·····267
Repeatability	±0.01mm

LT14



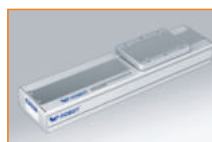
Maximum Stroke	800mm
Body Width	140mm·····269
Repeatability	±0.01mm

LT17



Maximum Stroke	800mm
Body Width	170mm·····271
Repeatability	±0.01mm

LC14



Maximum Stroke	2000mm
Body Width	140mm·····273
Repeatability	±0.01mm

LC17



Maximum Stroke	2000mm
Body Width	170mm·····275
Repeatability	±0.01mm

LC22



Maximum Stroke	2000mm
Body Width	220mm·····277
Repeatability	±0.01mm

2LC14



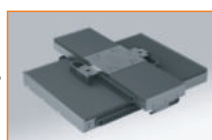
Maximum Stroke	2000mm
Body Width	140mm·····279
Repeatability	±0.01mm

LT76
linear motor (Closed type)



Maximum Stroke	Top :300 Bottom :300
Body Width	15KG·····280
Repeatability	±0.01mm

LMDT
linear motor (Closed type)



Maximum Stroke	Top :300 Bottom :300
Body Width	15KG·····281
Repeatability	±0.01mm

13 Multi-axis actuator

►P.284

VF2B20-A1



Maximum Stroke	X axis 950mm Y axis 350mm
Maximum Payload	5KG·····285
Body Width	VF8 80mm VF6 60mm

VF32B2-A1



Maximum Stroke	X axis 950mm Y axis 350mm Z axis 300mm
Maximum Payload	5KG·····287
Body Width	VF10 100mm VF8 80mm VF6 60mm

VF432B-A1



Maximum Stroke	X axis 1100mm Y axis 500mm Z axis 350mm
Maximum Payload	6KG·····289
Body Width	VF12 120mm VF10 100mm VF8 80mm

VF643-A1



Maximum Stroke	X axis 1200mm Y axis 500mm Z axis 350mm
Maximum Payload	12KG·····291
Body Width	VF14 140mm VF12 120mm VF10 100mm

VF764-A1



Maximum Stroke	X axis 1200mm Y axis 600mm Z axis 350mm
Maximum Payload	16KG·····293
Body Width	VF17 170mm VF14 140mm VF12 120mm

14 Cartesian 4 axes robot

►P.295

VFA01



Maximum Stroke	X axis 300mm Y axis 300mm Z axis 150mm R axis 360°
Maximum Payload	1KG·····296
Body Width	VF10 100mm VF8 80mm VF6 60mm R01 80mm

VFA05



Maximum Stroke	X axis 300mm Y axis 300mm Z axis 150mm R axis 360°
Maximum Payload	5KG·····297
Body Width	VF12 120mm VF10 100mm VF8 80mm R05 90mm

VFA10		Maximum Stroke	X axis 400mm Y axis 400mm Z axis 150mm R axis 360°
		Maximum Payload	10KG 298
		Body Width	VF14 140mm VF12 120mm VF10 100mm R15 97mm

VFA15		Maximum Stroke	X axis 500mm Y axis 500mm Z axis 250mm R axis 360°
		Maximum Payload	15KG 299
		Body Width	VF17 170mm VF14 140mm VF12 120mm R15 97mm

15 Scara robot ▶P.300

W-AR3215		Specifications	X axis Length 100mm Y axis Length 200mm Z axis Stroke 150mm
		Rotation angle	X axis ±127° Y axis ±142° 303 R axis ±360°
		Maximum Payload	5kg

W-AR4215		Specifications	X axis Length 200mm Y axis Length 200mm Z axis Stroke 150mm
		Rotation angle	X axis ±127° Y axis ±142° 304 R axis ±360°
		Maximum Payload	5kg

W-AR5215		Specifications	X axis Length 300mm Y axis Length 200mm Z axis Stroke 150mm
		Rotation angle	X axis ±127° Y axis ±141° 305 R axis ±360°
		Maximum Payload	5kg

W-AR6520		Specifications	X axis Length 300mm Y axis Length 300mm Z axis Stroke 200mm
		Rotation angle	X axis ±130° Y axis ±140° 306 R axis ±360°
		Maximum Payload	10kg

W-AR7520		Specifications	X axis Length 400mm Y axis Length 300mm Z axis Stroke 200mm
		Rotation angle	X axis ±130° Y axis ±140° 307 R axis ±360°
		Maximum Payload	10kg

W-AR8520		Specifications	X axis Length 500mm Y axis Length 300mm Z axis Stroke 200mm
		Rotation angle	X axis ±130° Y axis ±140° 308 R axis ±360°
		Maximum Payload	10kg

W-600P4G		Specifications	X axis Length 350mm Y axis Length 250mm Z axis Stroke 300mm
		Rotation angle	X axis ±135° Y axis ±145° 309 R axis ±360°
		Maximum Payload	5kg

16 Six axes robot ▶P.310

W-AIR6		Specifications	Qty. 6 Length 710mm
		Rotation angle	J1 -170°/+170° J2 -100°/+135° J3 -120°/+156° J4 -200°/+200° 311 J5 -135°/+135° J6 -360°/+360°
		Maximum Payload	6kg

W-AIR6L		Specifications	Qty. 6 Length 920mm
		Rotation angle	J1 -170°/+170° J2 -100°/+135° J3 -120°/+156° 311 J4 -200°/+200° J5 -135°/+135° J6 -360°/+360°
		Maximum Payload	6kg

W-AIR10		Specifications	Qty. 6 Length 1420mm
		Rotation angle	J1 -170°/+170° J2 -85°/+150° J3 -90°/+170° 311 J4 -180°/+180° J5 -135°/+135° J6 -360°/+360°
		Maximum Payload	10kg

W-AIR20		Specifications	Qty. 6 Length 1702mm
		Rotation angle	J1 -170°/+170° J2 -95°/+155° J3 -95°/+170° 311 J4 -185°/+185° J5 -135°/+135° J6 -400°/+400°
		Maximum Payload	20kg

W-AIR50		Specifications	Qty. 6 Length 2238mm
		Rotation angle	J1 -170°/+170° J2 -35°/+145° J3 -120°/+170° 311 J4 -350°/+350° J5 -120°/+120° J6 -360°/+360°
		Maximum Payload	50kg

W-AIR165		Specifications	Qty. 6 Length 1800mm
		Rotation angle	J1 -170°/+170° J2 -60°/+85° J3 -120°/+155° 311 J4 -360°/+360° J5 -125°/+125° J6 -360°/+360°
		Maximum Payload	165kg

Single-axis robot selection table

Company _____	Register Date _____	Contact _____
Dept _____	Tel _____	Ext _____
E-mail _____	Mobile _____	Address _____

Single axis required

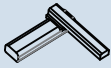
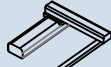
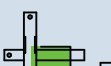
Stroke (mm): _____	Repeatability(mm) : ☐ ±0.006	Usage Environment ☐ General
Speed (mm/s): _____	☐ ±0.01	☐ Dust-free (Cleaness type)
Payload (kg): _____	☐ ±0.04	(Cleanliness: Class10 Class100 Class1000)
	☐ Other _____	

Installation Way	Whole-plane fixed Horizontal Side Vertical																																								
Space required	<table border="0"> <tr> <td></td> <td colspan="2">Ball Screw Drive</td> <td colspan="2">Belt Drive</td> </tr> <tr> <td>Loose model choice</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>☐ BA</td> <td>☐ BC (standard)</td> <td>☐ BR</td> <td>☐ BL</td> </tr> <tr> <td>Compact model choice</td> <td colspan="2">Ball Screw Drive</td> <td colspan="2">Belt Drive</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>☐ BR</td> <td>☐ BL</td> <td>☐ BLU</td> <td>☐ BRU</td> </tr> <tr> <td>Motor Power can be increased by external installed</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>☐ BRD</td> <td>☐ BLD</td> </tr> </table>		Ball Screw Drive		Belt Drive		Loose model choice						☐ BA	☐ BC (standard)	☐ BR	☐ BL	Compact model choice	Ball Screw Drive		Belt Drive								☐ BR	☐ BL	☐ BLU	☐ BRU	Motor Power can be increased by external installed								☐ BRD	☐ BLD
	Ball Screw Drive		Belt Drive																																						
Loose model choice																																									
	☐ BA	☐ BC (standard)	☐ BR	☐ BL																																					
Compact model choice	Ball Screw Drive		Belt Drive																																						
	☐ BR	☐ BL	☐ BLU	☐ BRU																																					
Motor Power can be increased by external installed																																									
			☐ BRD	☐ BLD																																					
Sensor	☐ Optoelectronic type(External) ☐ Metal proximity type(External)																																								
Applications	☐ Automatic Assembly Machine ☐ Labeling Machine ☐ Film Sticking Machine ☐ Laminating Machine ☐ Auto-Screwdriving Machine ☐ Spraying Machine ☐ CCD Visual Inspection Equipment ☐ Loading and Unloading Equipment																																								
Remarks																																									

Company _____	Register Date _____	Contact _____
Dept _____	Tel _____	Ext _____
E-mail _____	Mobile _____	Address _____

Multi Axis Required

Stroke (mm) X: _____ Y: _____ Z: _____	Repeatability(mm) : ☐ ±0.006 ☐ ±0.01 ☐ ±0.04 ☐ Other _____	Usage Environment ☐ General ☐ Dust-free (Cleaness type) (Cleanliness: Class10 Class100 Class1000)
Speed (mm/s) X: _____ Y: _____ Z: _____		
Payload (kg): _____		

Combination Types	Arm Type				
	Gantry Type				
	Pole Type				
	Cross Type				

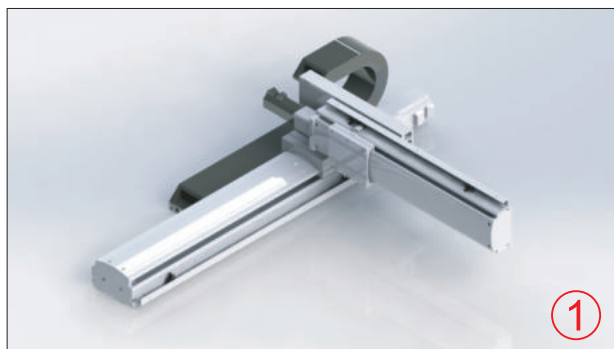
Multi-axis Type	Reference P10-14				
		☐ Arm type with 2-axis(A)	☐ Arm type with 3-axis(A)	☐ Gantry type with 2-axis(G)	☐ Gantry type with 3-axis(G)
					
		☐ Synchronous Moving Gantry type with 2-axis(G)	☐ Cross type with 2-axis(F)	☐ Pole type with 2-axis(P)	☐ Pole type with 3-axis(P)

Sensor	☐ Optoelectronic type(External) ☐ Metal proximity type(External)
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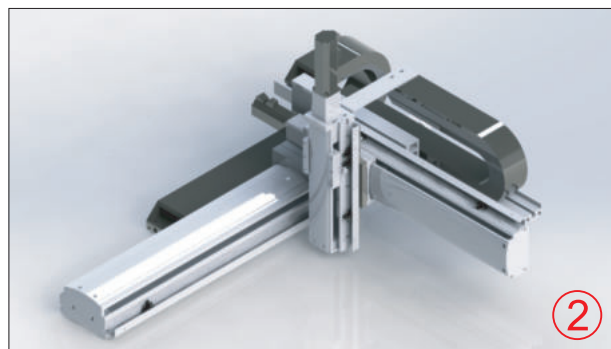
Applications	☐ Automatic Assembly Machine ☐ Film Sticking Machine ☐ Laminating Machine ☐ Auto-Screwdriving Machine ☐ Spraying Machine ☐ CCD Visual Inspection Equipment ☐ Other _____
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Remarks	
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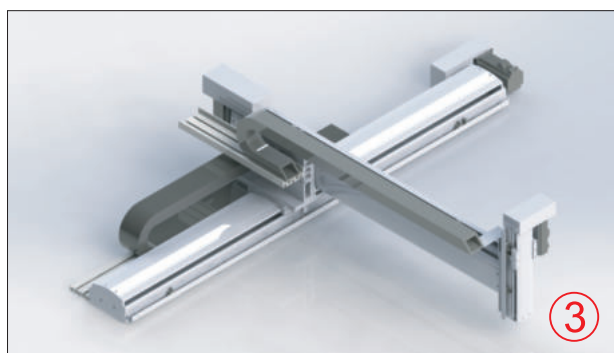
Multi-axis combination models as figure below, if other models required, consultation service available basing on request.



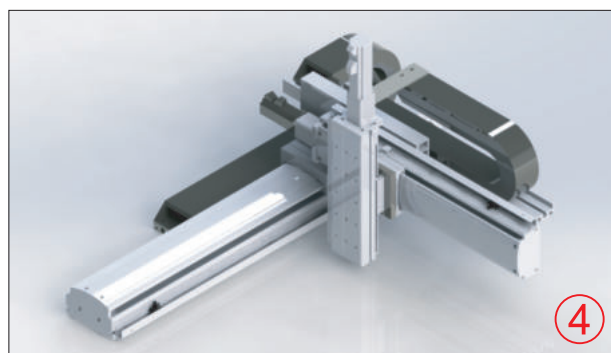
Arm type with 2 axes (A series)



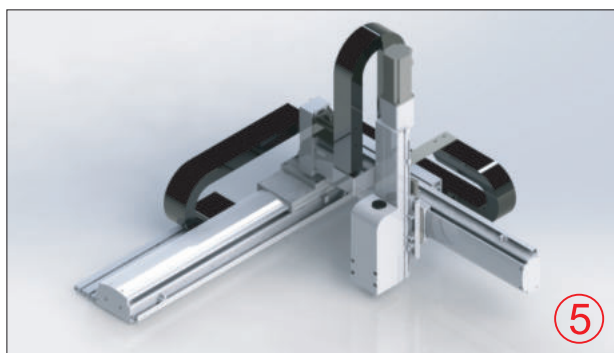
Arm type with 3 axes (A series)



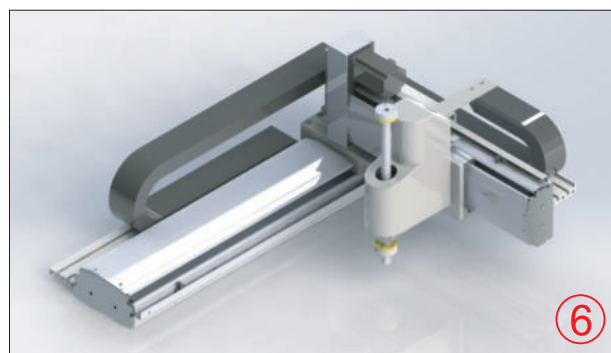
Arm type with 3 axes(A series)



Arm type with 3 axes
(A series - Z-axis body moving)



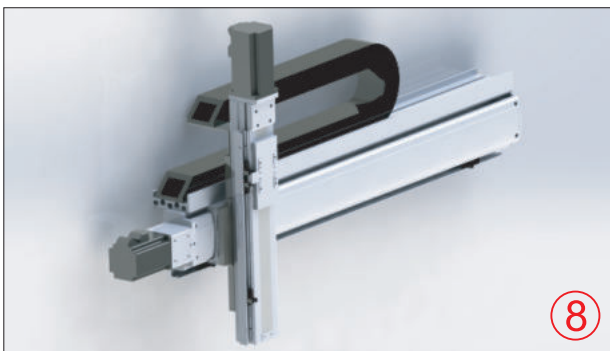
Arm type with 4 axes (AR series)



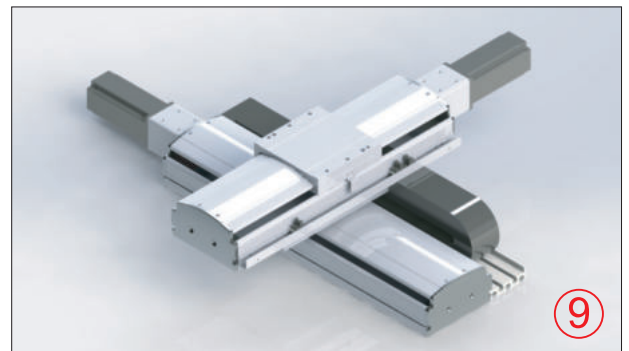
Arm type with 4 axes (AZR series)



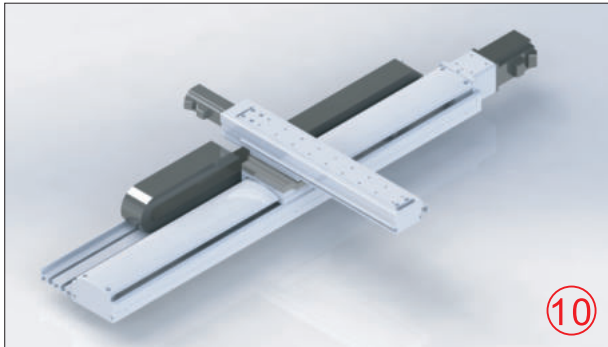
Arm type with 6 axes (A series - Z-axis body moving)



Cross 2 axes (F series)



Cross 2 axes (F series-Horizontal)



Cross 2 axes (F series - Y-axis body moving)



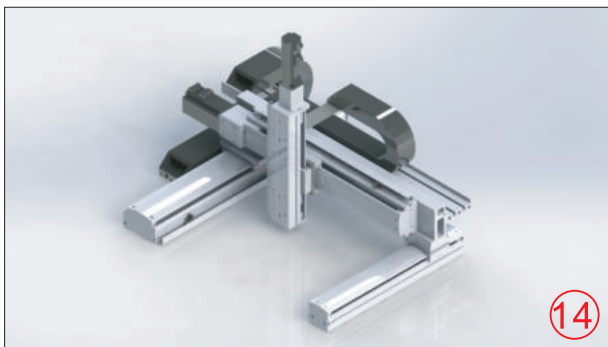
Cross 2 axes (F series - Z-axis body moving)



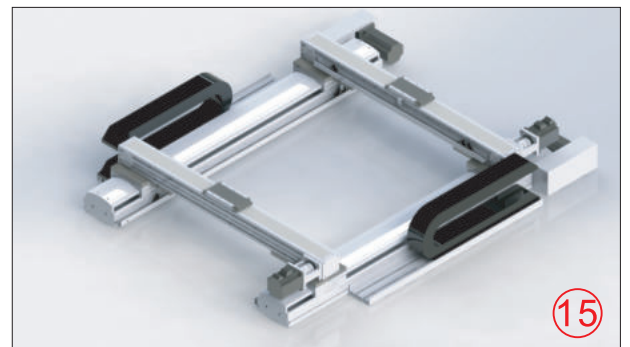
Gantry 2 axes (G series)



Gantry 3 axes (G series)



Gantry 3 axes (G series - Z-axis body moving)



Gantry combinatorial association (G series)



Synchronous moving gantry type X axes



Synchronous moving gantry type with 2 axes



Synchronous moving gantry type with 3 axes



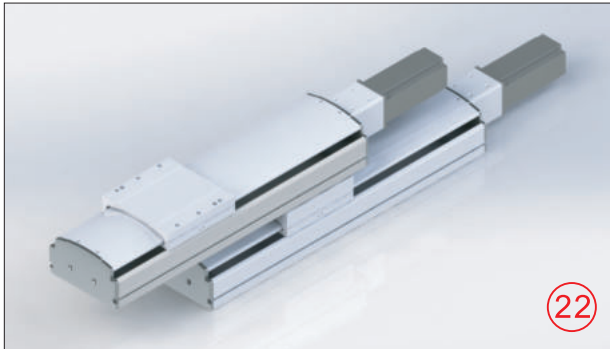
Synchronous moving gantry type with 3 axes
(G series – Z-axis body moving)



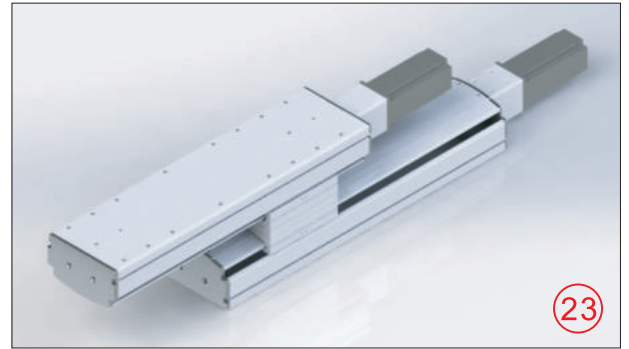
Pole type with 3 axes (P series)



Pole type with 2 axes (P series)



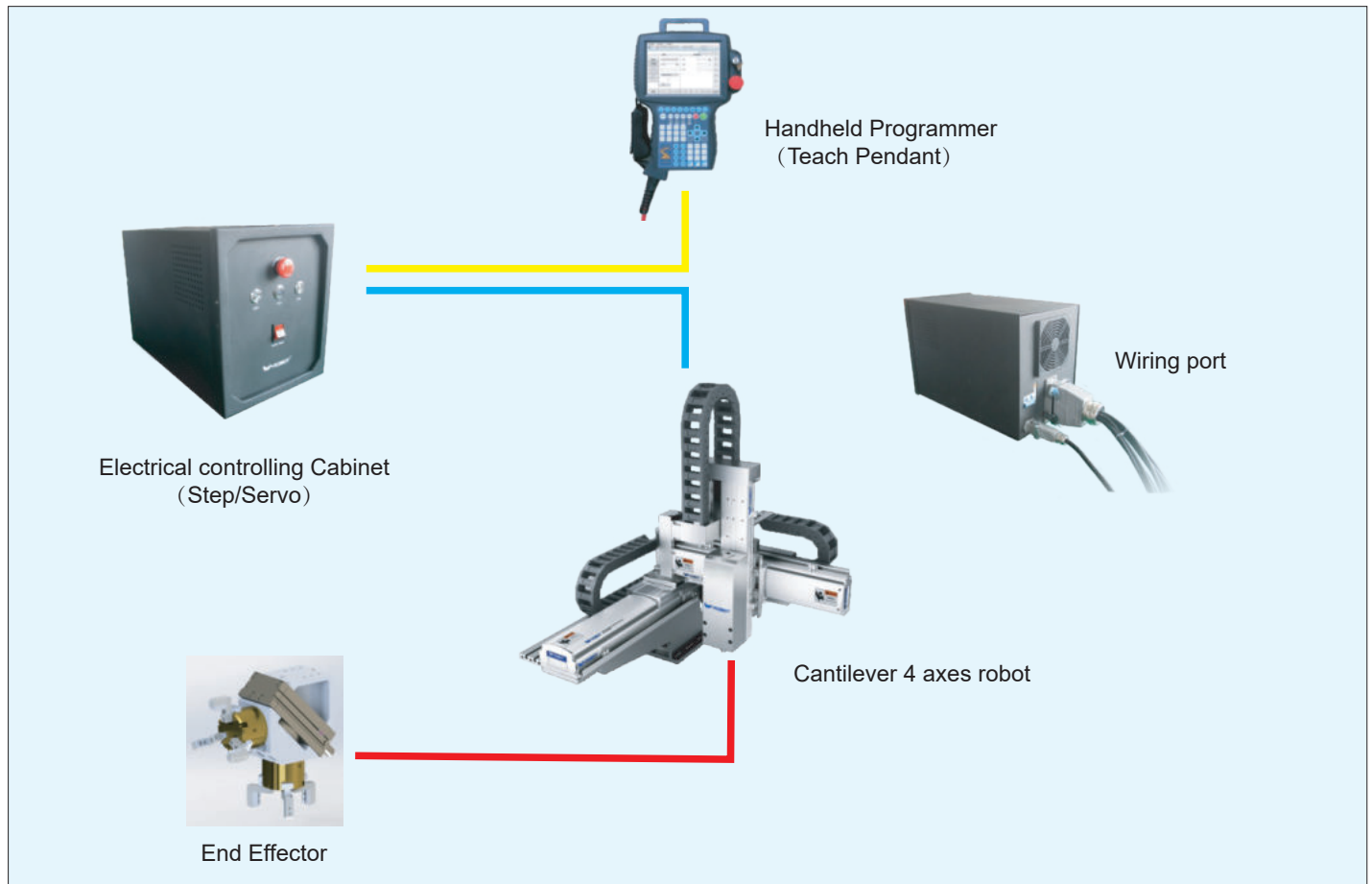
Stack-based 2 axes (E series)



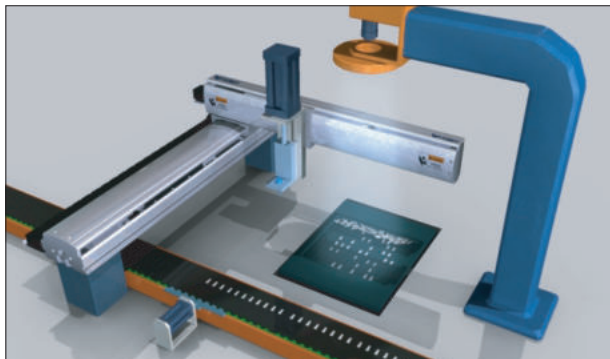
Stack-based 2 axes (E series-slide block fixed, body moved)



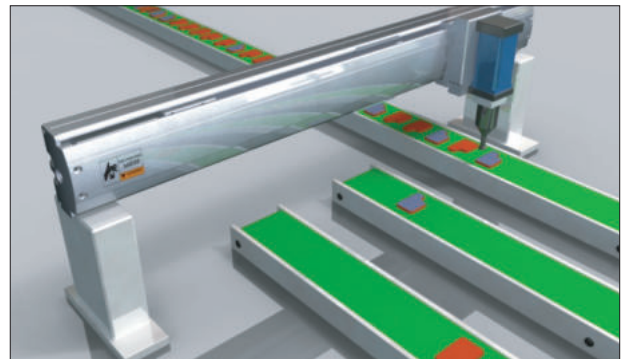
Pole type with 8 axes (P series)



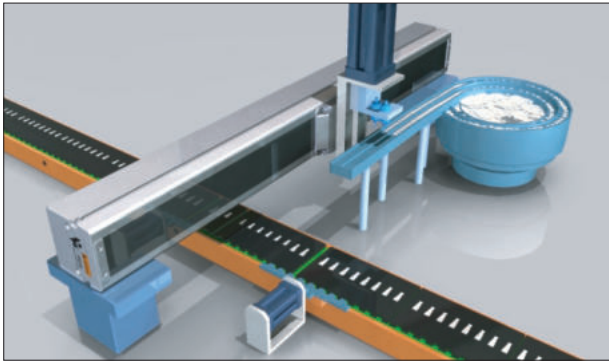
■ Robot arm control system



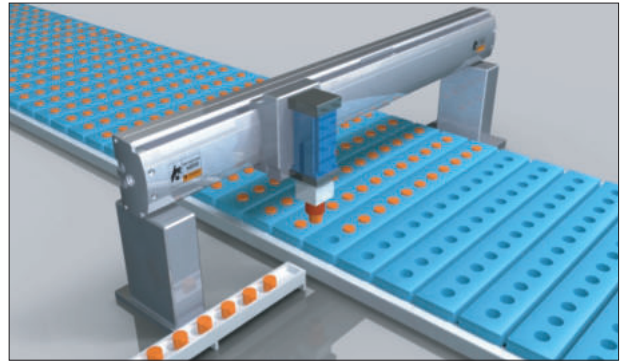
■ Auto-loading after CCD visual inspection



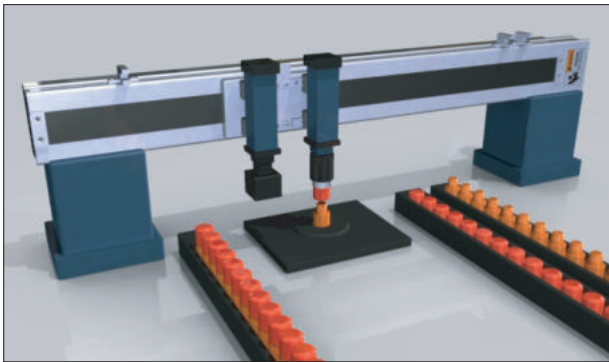
■ Sorting parts on the specified position



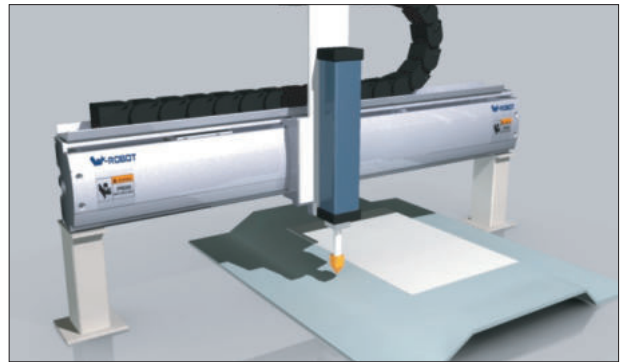
■ Picking parts from the vibrating bowl



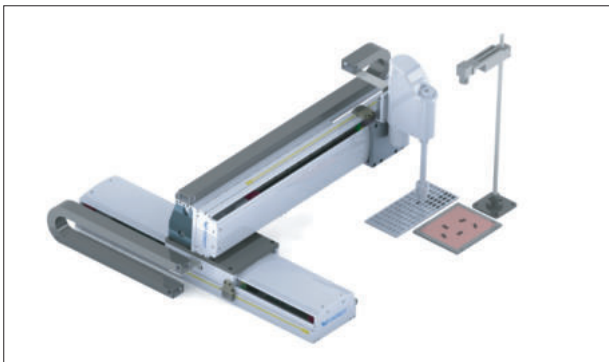
■ Press the workpiece into the hole



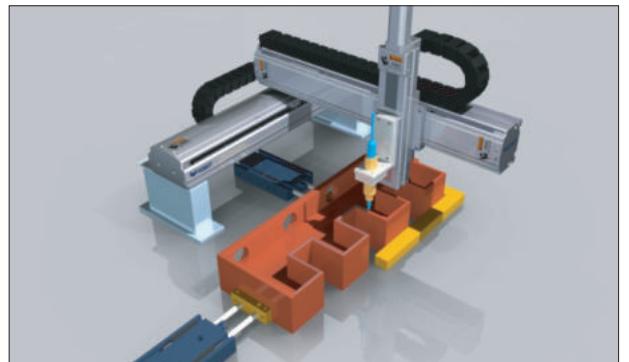
■ Parts assembling



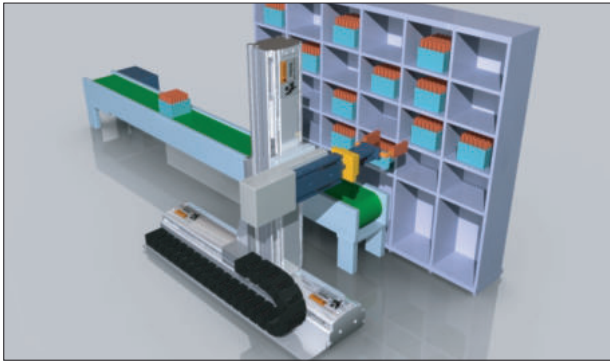
■ Inkjet operation



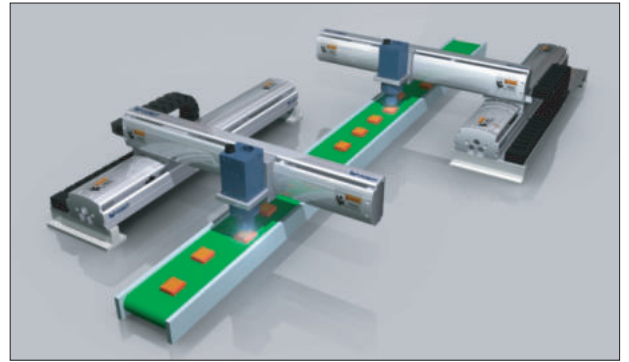
■ Flexible picking



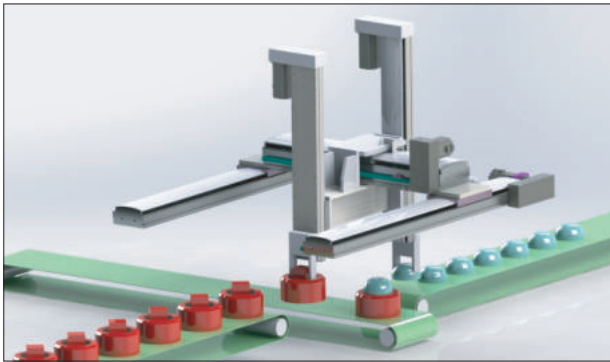
■ Sealant gluing to the joint of workpiece



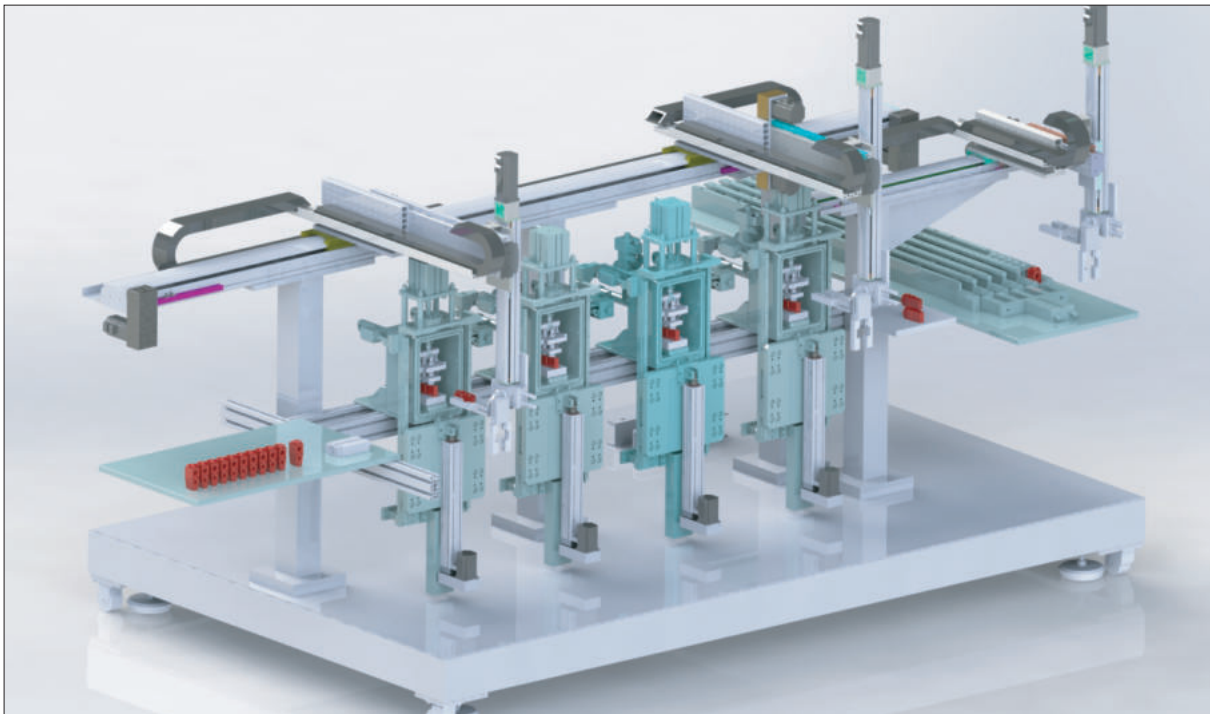
■ Large-scale parts rack pick & place



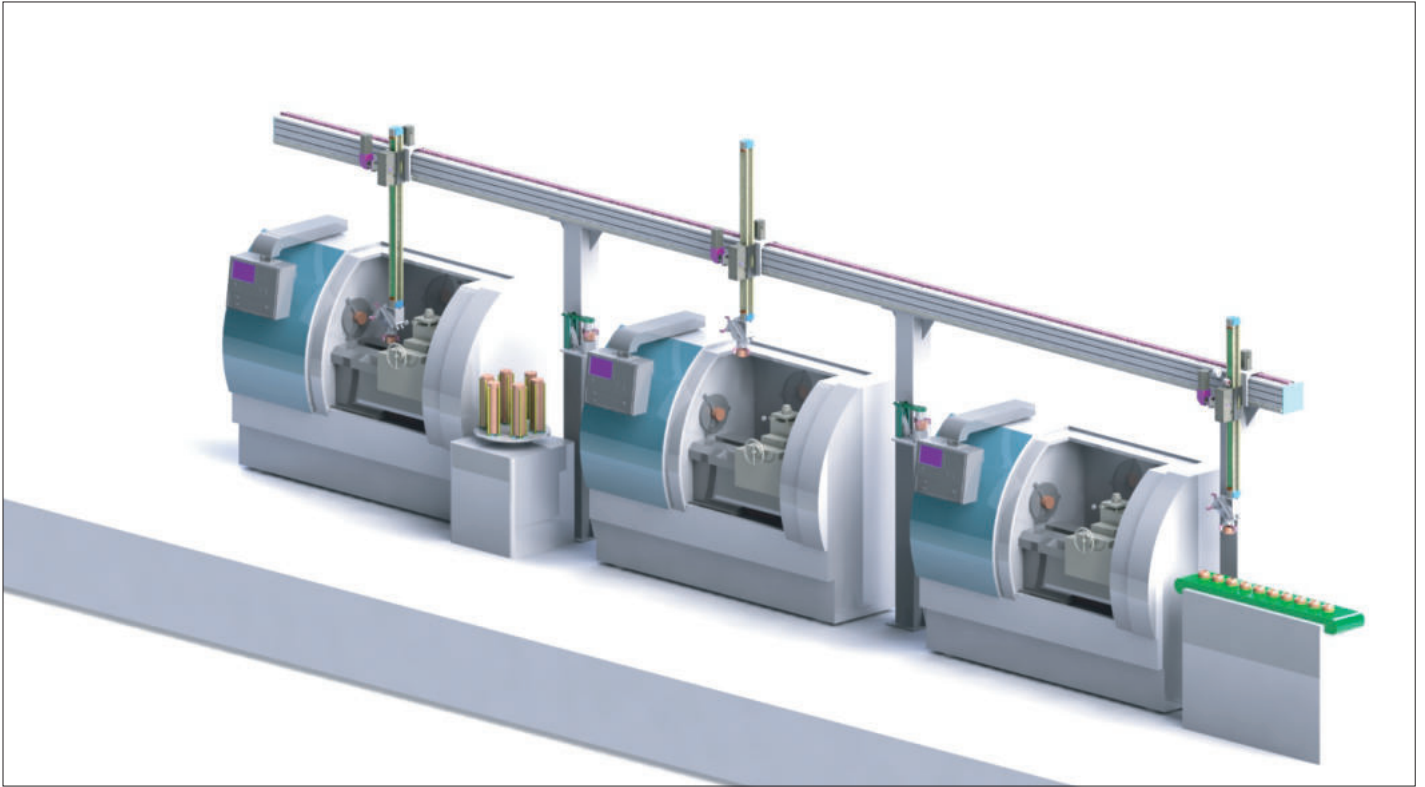
■ Electric parts testing



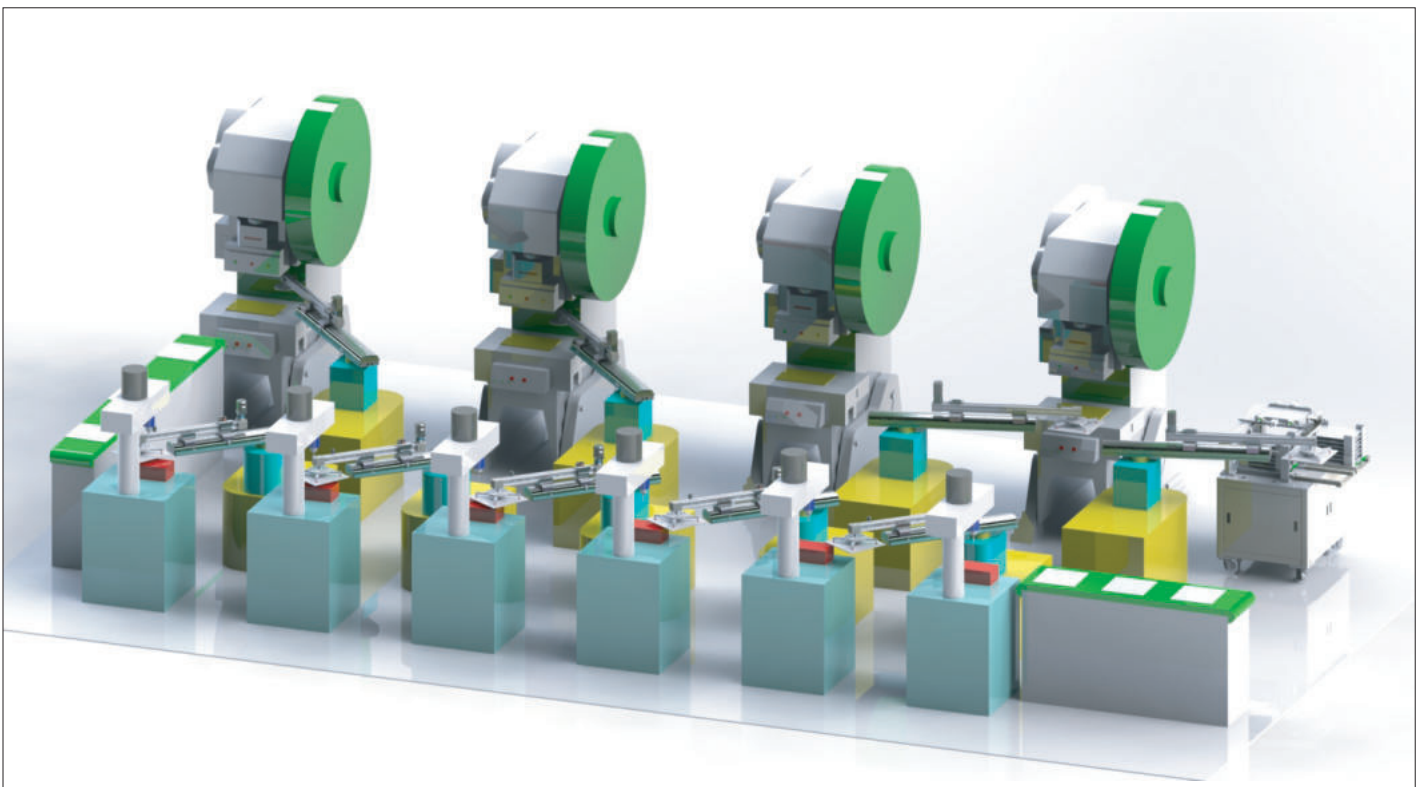
■ Parts handling



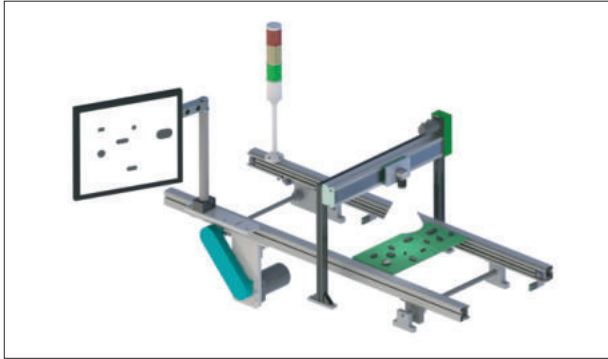
■ Auto-loading & unloading for parts testing system



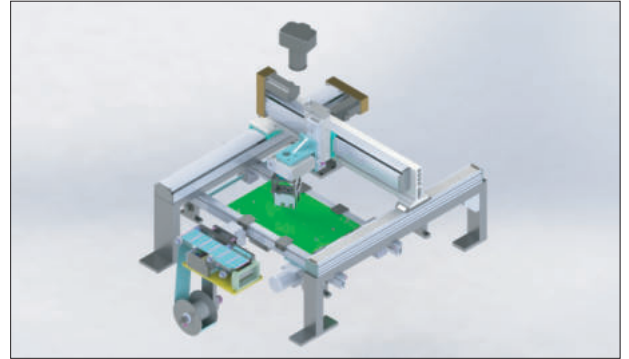
■ CNC loading & unloading



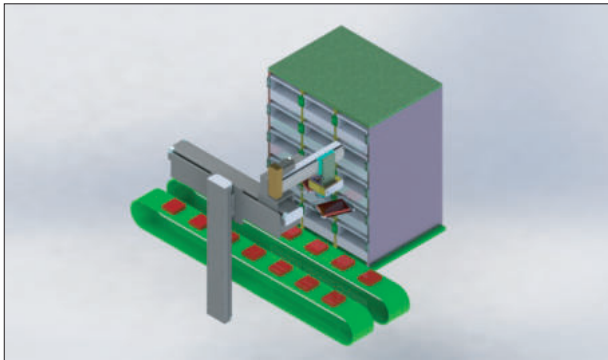
■ Punching



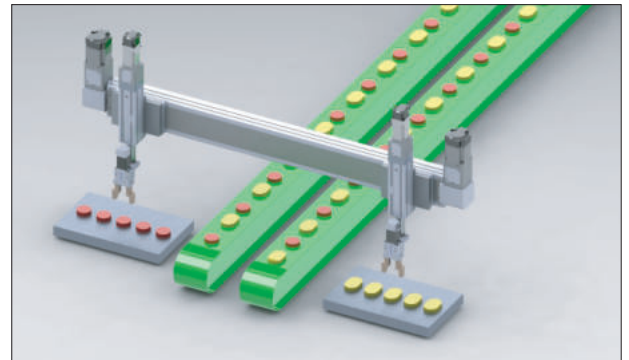
■ PCB testing



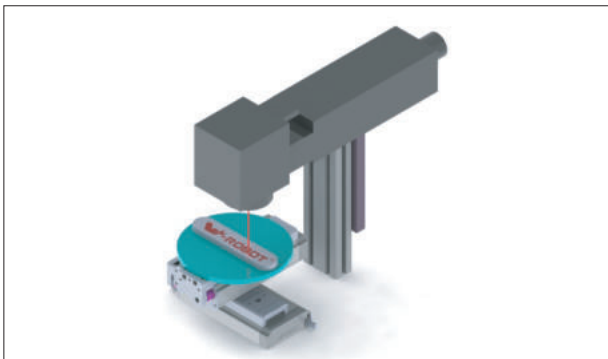
■ PCB labelling



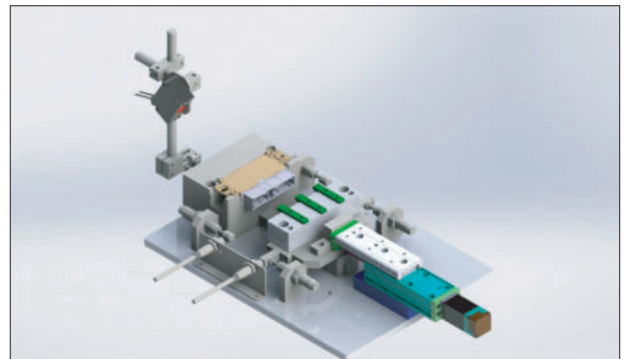
■ Products inside the shielded box loading & unloading



■ Multiple production lines with various Products loading operation

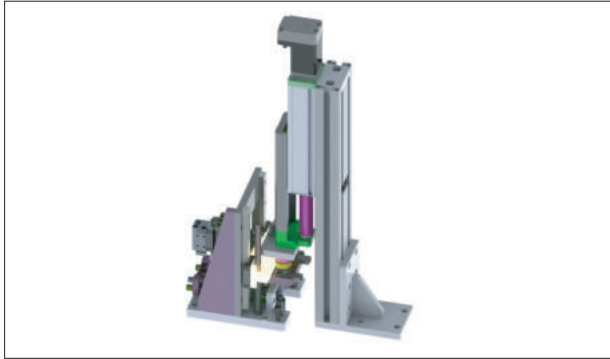


■ Laser marking

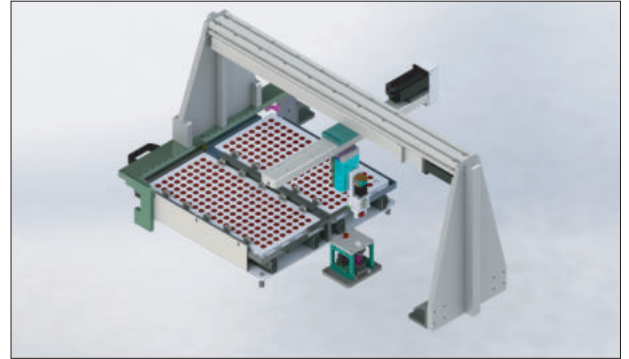


■ Connector plug test

Applications



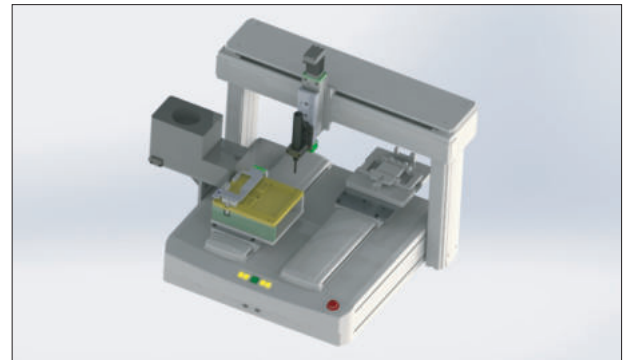
■ Pressing parts with thrust



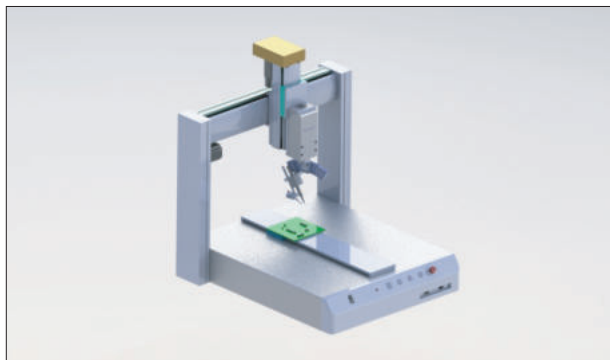
■ Picking and positioning auto parts



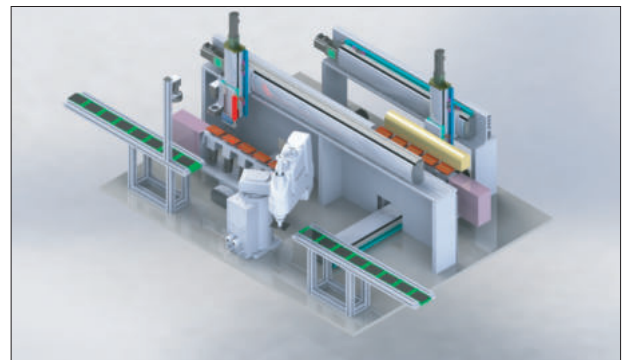
■ Sticking a mobile phone screen



■ Auto-Screwdriving machine



■ Automatic PCB welding operation



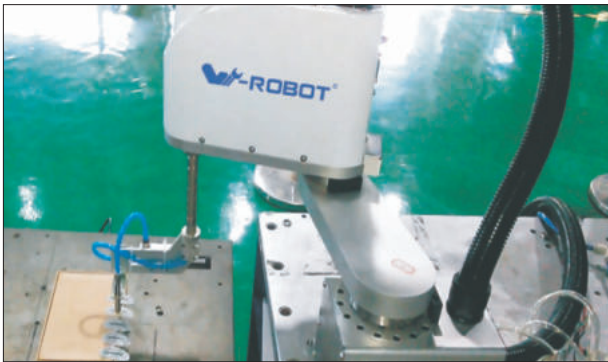
■ Flexible positioning and high speed precise dispensing



■ Lenses loading & unloading



■ Transferring operation



■ Labeling operation



■ Automatic stacking

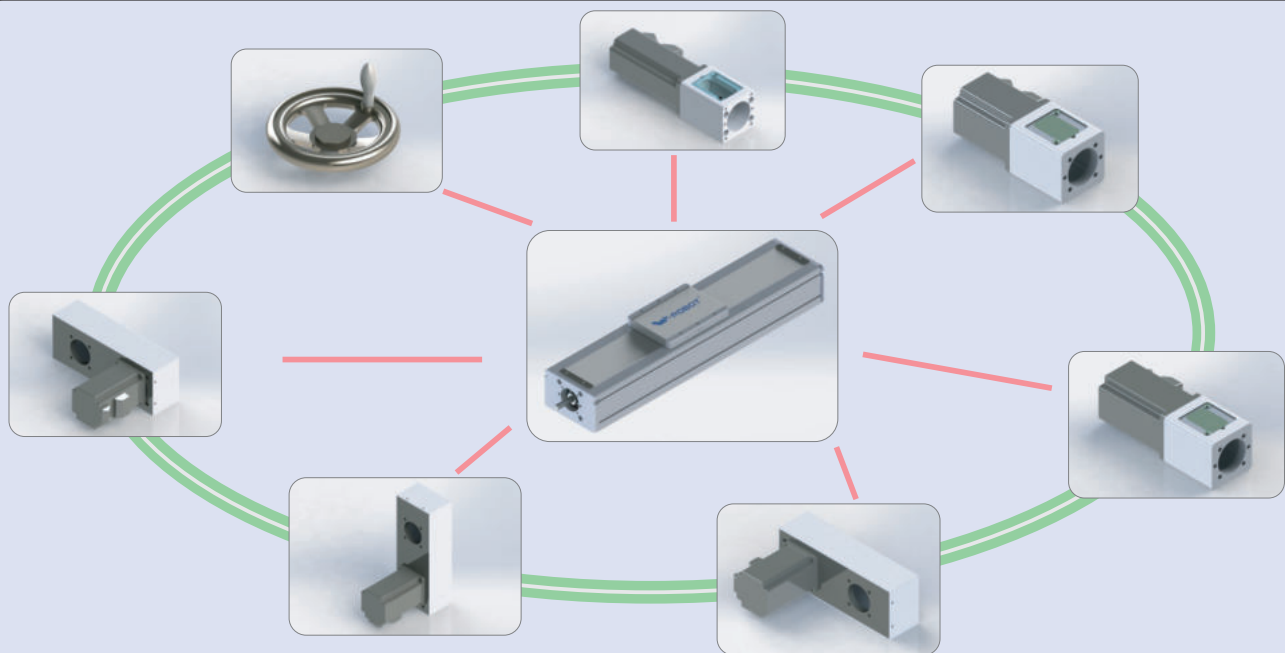


■ 5G information transmission



■ Automatic welding

Multiple connections of input end

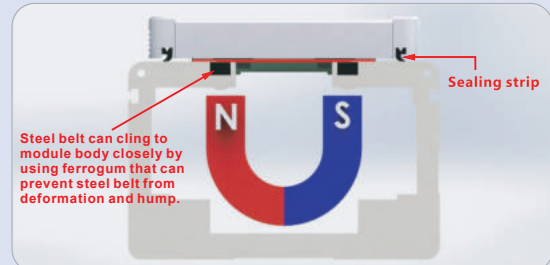


Multiple input available , High interchangeability,
No effect on Length of modules

Feature of dust-free linear actuators



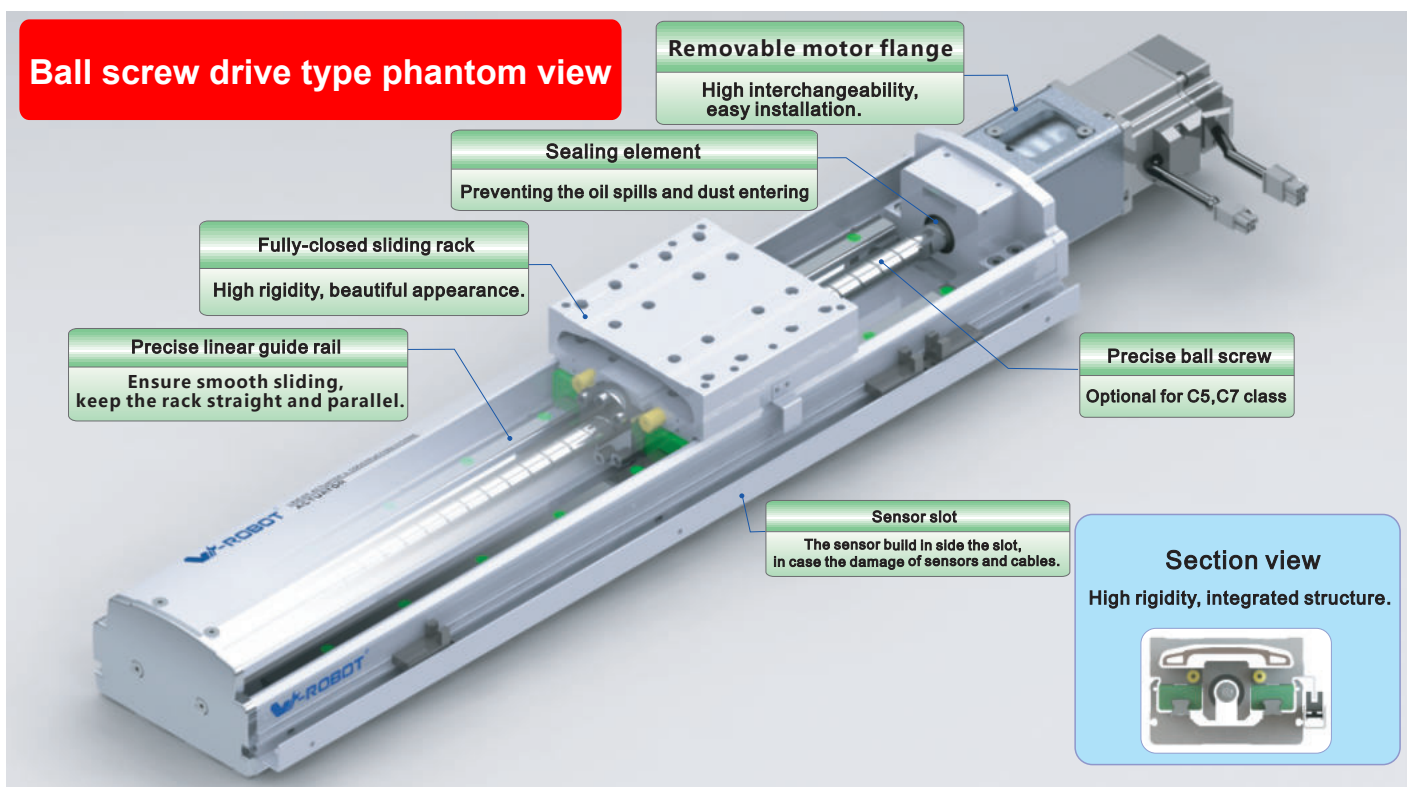
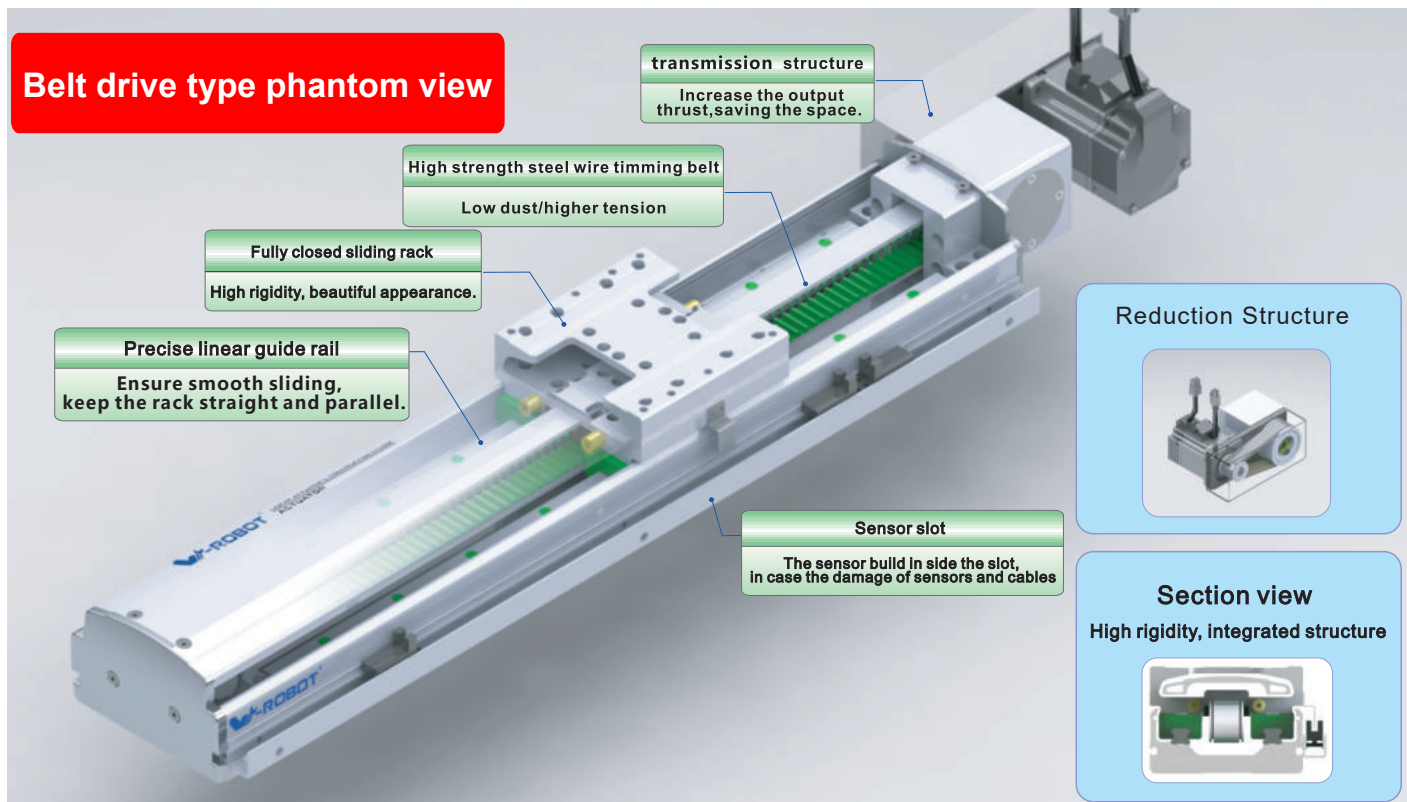
It's possible to connect the vacuum tube under the dust-free situations cleaning the micro dust appeared from the actuator's inner friction.

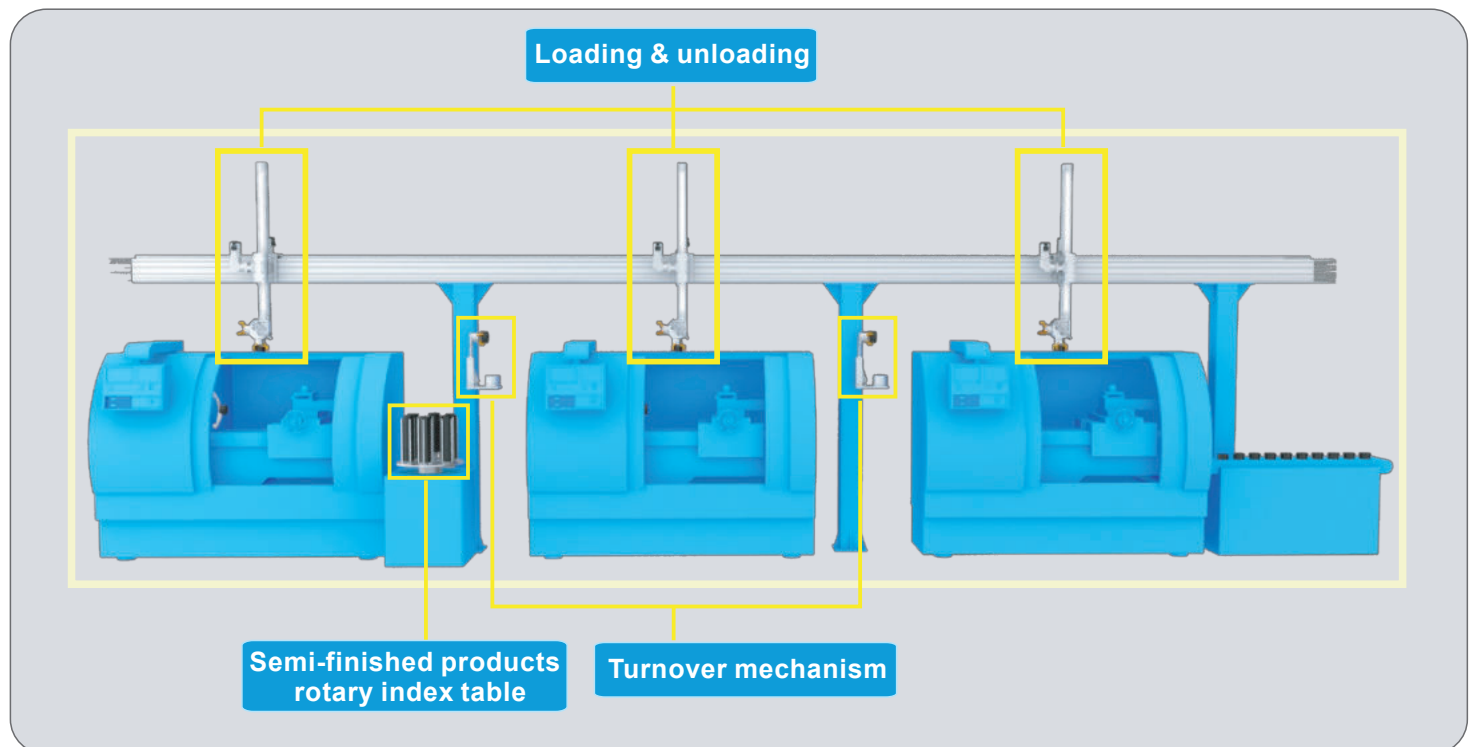
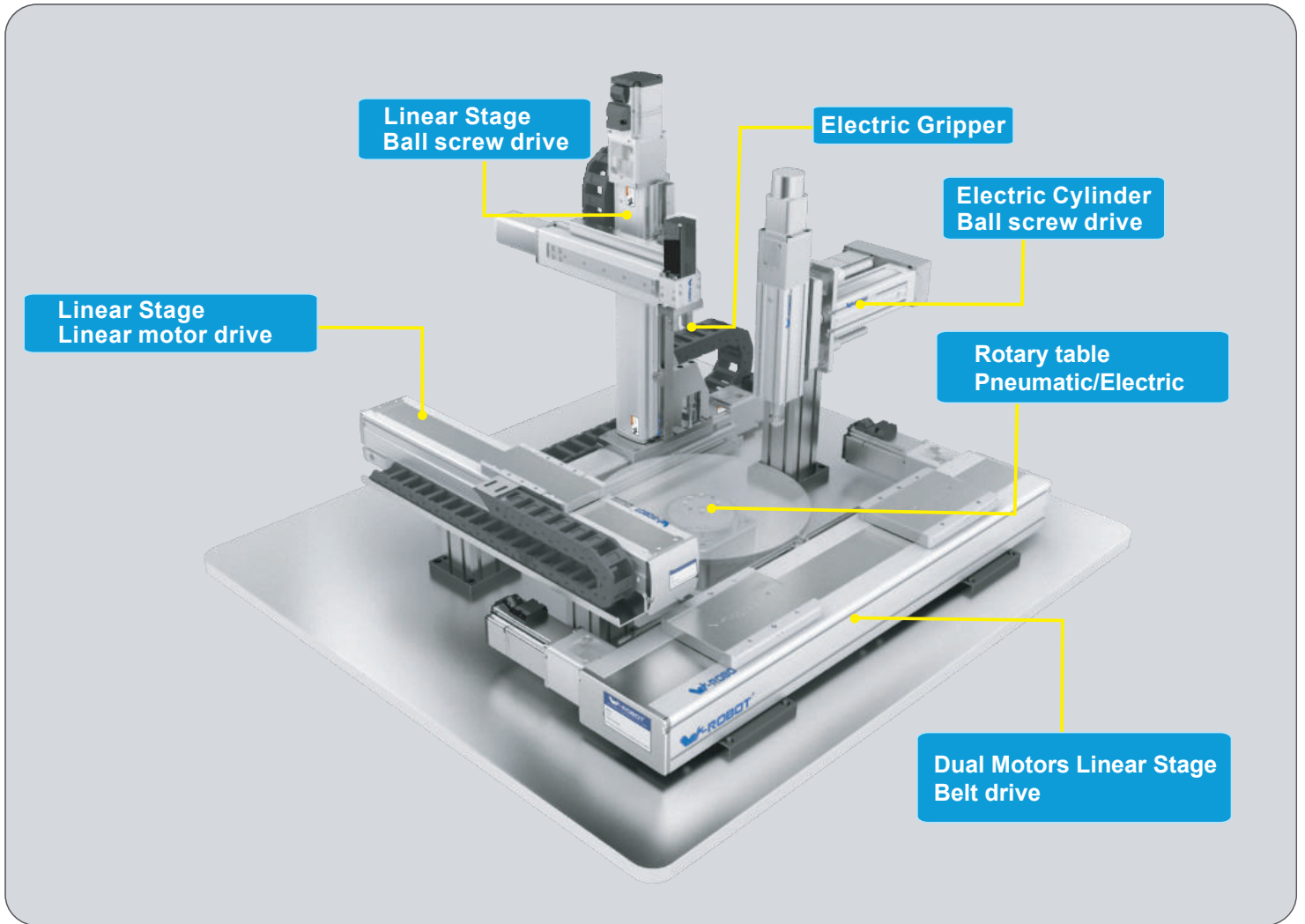


Dust-free linear actuators (In W-robot's standard configuration, no sealing strip available from which micro dust would occur in dust-free environment, but it's available basing on request)



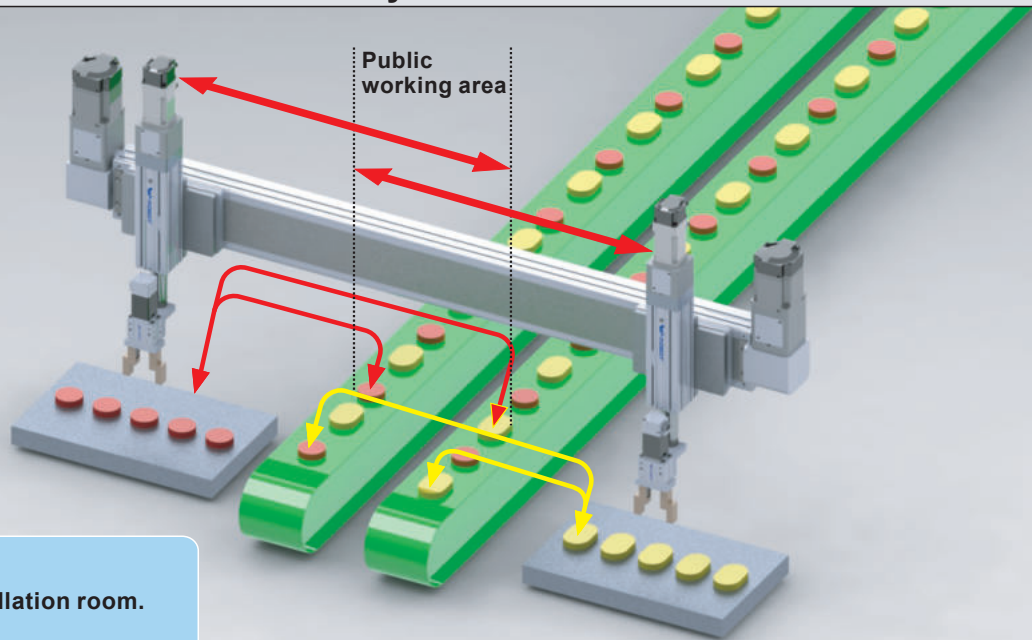
Adopting wear resistant rubber roller to realize rolling friction between sliding stage and steel belt. It helps reducing micro dust and lowering noise





Dual Motors Series

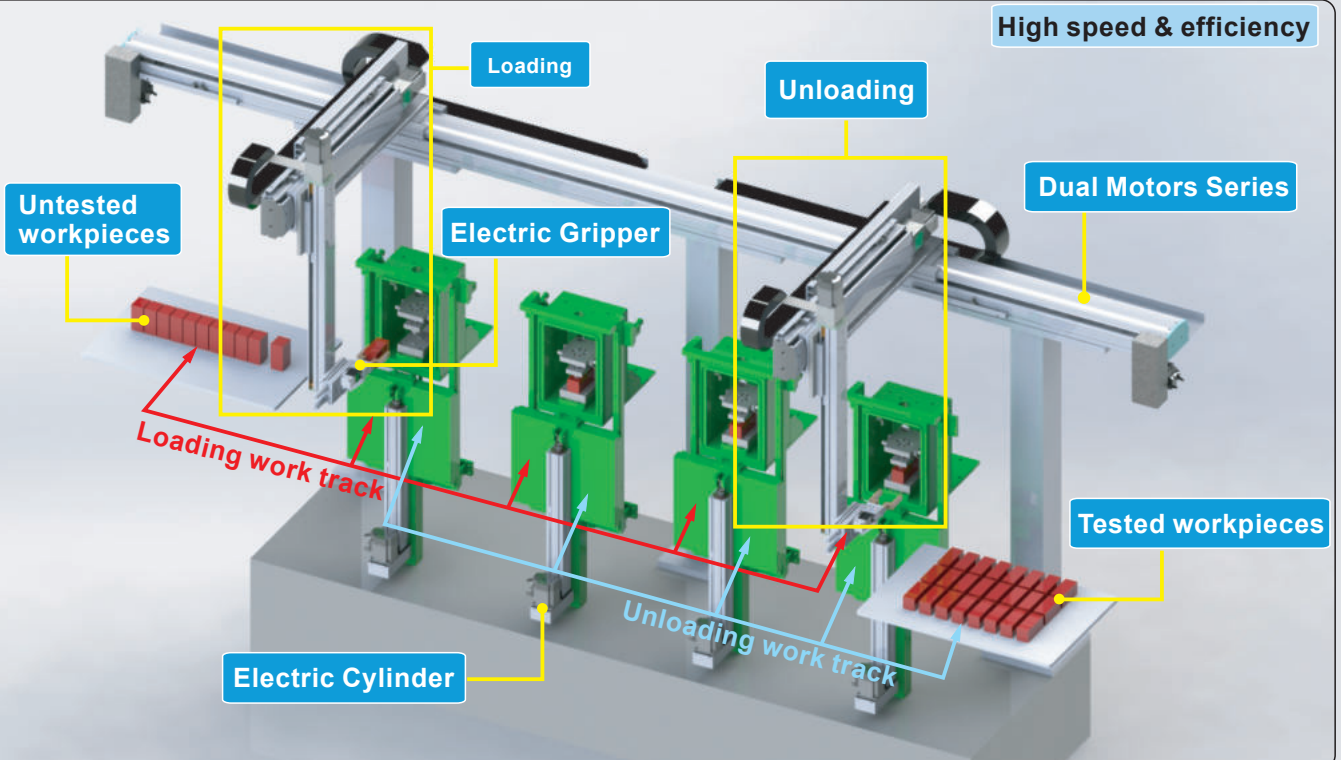
■ Pick & place on multi-station conveyor



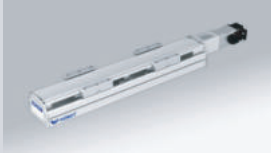
Features:

Relevant smaller installation room.
Shorter running cycle.
Optional semi-sealed type & clean type.

■ Loading & unloading on the multi-station testing equipment



Gripping Type Single Axis Robot



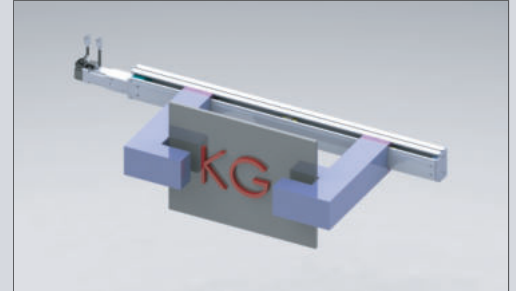
VF8D1-BC



VF8D1-BL



VF8D1-BR



Features:

Customization available for multi-stroke, support large-size parts gripping.
Sorting different size workpieces.
Control available for speed, positioning, gripping force.



VF12D1-BC



VF12D1-BL



VF12D1-BR

Electric cylinder

■ Model



VZ5_BC



VZ5_BD



VZ5D_BC



VZ5D_BD



VZ6_BC



VZ6_BD



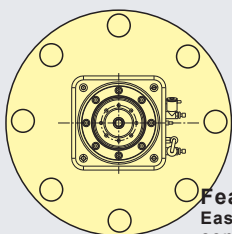
VZ6D_BC



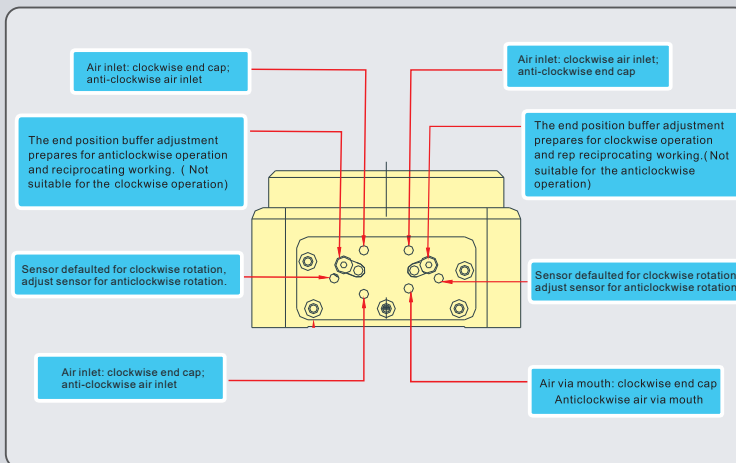
VZ6D_BD

Pneumatic Rotary Indexing Table

Sectional view:



Features:
Easy control (rotary positioning control realized by single EM valve)
Easy installation.
Compact size.
Index stations: 2, 4, 6, 8, 10, 12, 24.
Rotating with reciprocating angle.



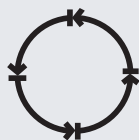
Actuation options:

Clockwise



-Just one valve required

Anti-clockwise



-Just one valve required

Reciprocating motion



-Need reciprocating motion kit
-Two valves required

Variable actuation left, right, reciprocating motion

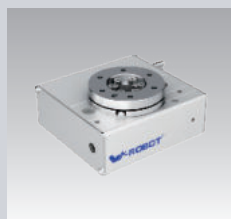


-Need reciprocating motion kit
-Two valves required

Electric Rotary Indexing Table



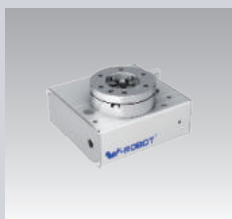
LNR10



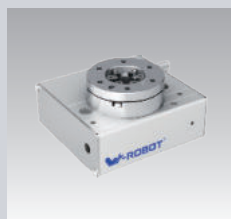
LNR30



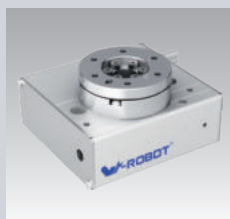
LNR50



LNR10-H



LNR30-H



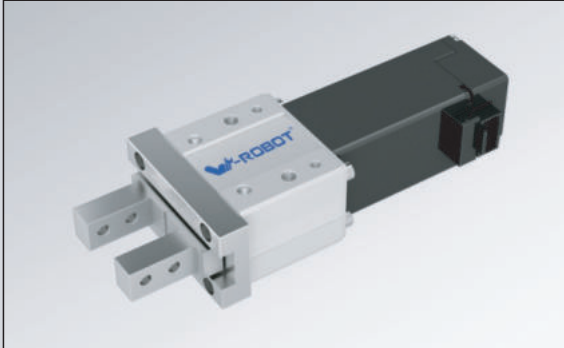
LNR50-H

Max. rotation angle: 360-degree
Repeatability: ± 0.05 -degree

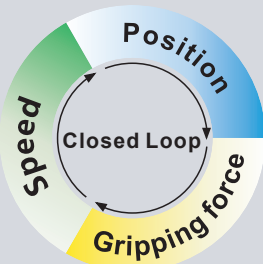
Advantage:

Vibration-free rotation.
1/3 smaller of its kind.
Multi-angle positioning.
High repeatability.
40% less power consumption.

Electric Gripper



Control System



Applications

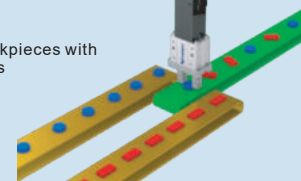


Gripping of components that are easily deformed and damaged

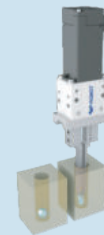
Speed control
Gripping force control
Position control

Alignment and selection of randomly lined parts

Identification of workpieces with different dimensions



Gripping in a narrow space



Position control

Miniature



LES16-BC



LES16-BL



LES16-BR



LES25-BC



LES25-BL



LES25-BR

Stroke :50mm-150mm Max. payload :9kg
Max. Speed :400mm/sec

Advantages:

Compact and lightweight, 50% smaller than competitor's
Integrated cycle linear guide with high precision
Quick feedback and do not lose step.
Control methods: speed, positioning and pushing force

■ Linear Motor Model

■ Maximum Stroke : 3150mm ■ Maximum Speed: 3000mm/s ■ Repeatability : ±0.005mm



LMD-F14-T1



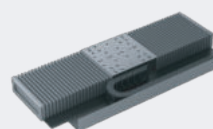
LMD-F17-T1



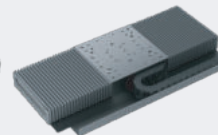
LMD-F22-T1



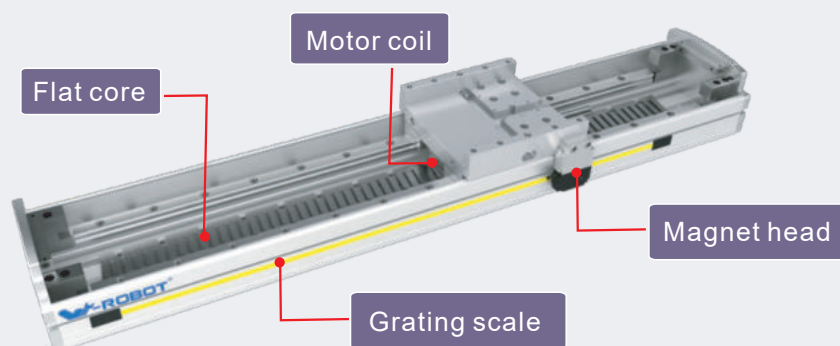
LMD-T20-T1



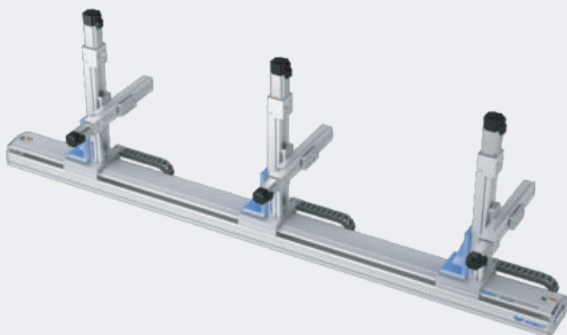
LMD-T28-T1



LMD-T35-T1



■ Supports multi-carrier operation



Supports "multi-carrier" operation that allows using 3 or more carriers on one robot. This "multi-carrier" operation is drastically expanding the current range of applications due to its effect in improving tact time and saving space.

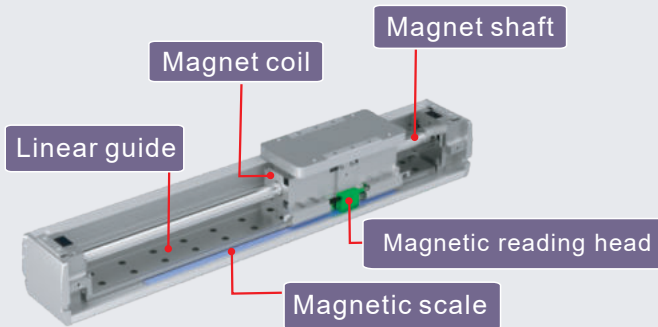
■ Supports dual-drive

Sing dual-drive to simultaneously run 2 axes allows high speed conveyance over a wide area as well as conveying heavy payloads . Also can provide an optimal control system, such as torque support control or bi-axial positioning control.

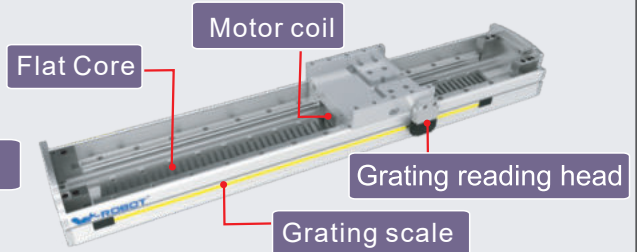


Linear Motor Configuration

■ Closed Linear Motor Model



Closed tubular linear motor



Flat core linear motor

Closed Linear Motor Model

■ Closed Tubular Linear Motor Model



LT8



LT14

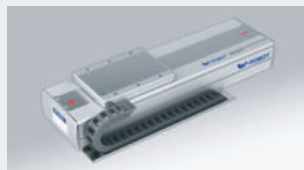


LT17

■ Flat Iron Core Linear Motor Model



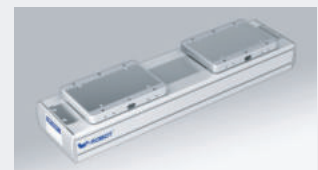
LC14



LC17



LC22



2LC14

Linear actuator Item No. detailed specification.

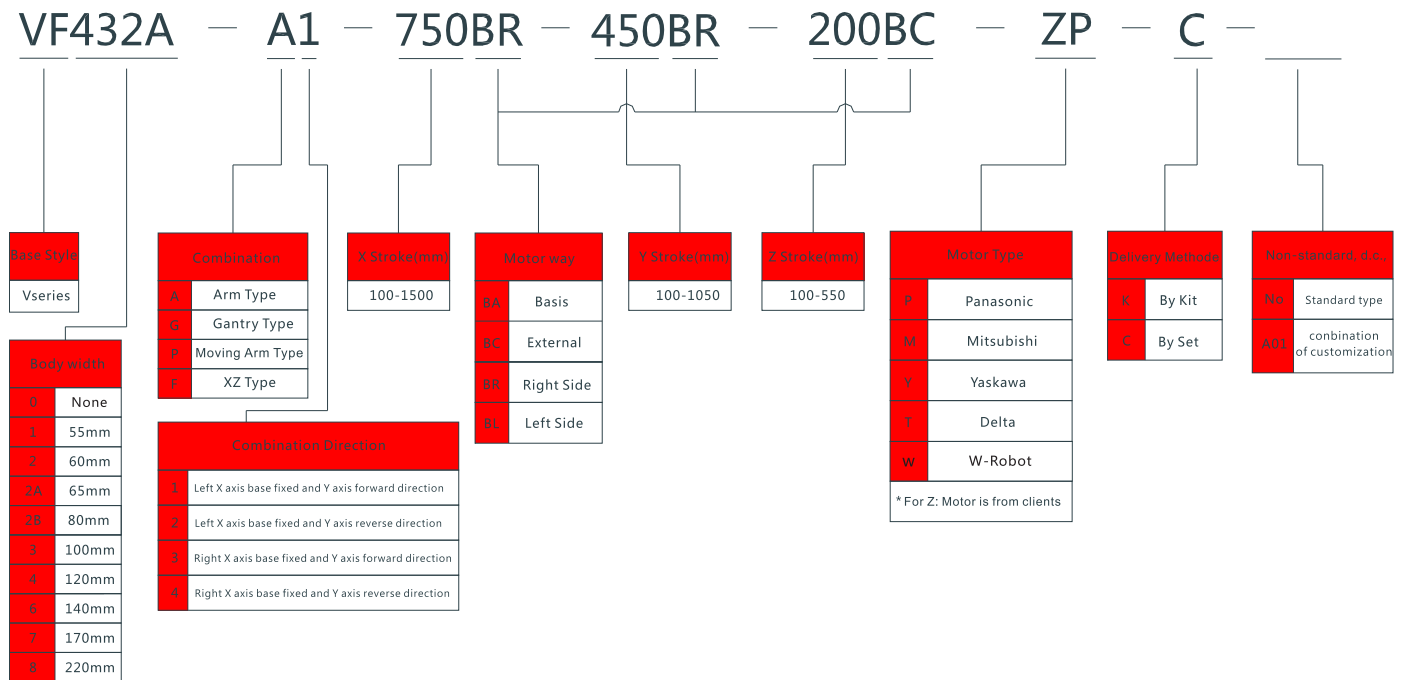
VF10 — L16 — P — S100 — BC — ZP10B — C3

Base Style		Ball Screw Lead		Accuracy class	Stroke(mm)		Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Sensor type	
V	Vseries	L5	5mm	P High precision	VT4	80-240	BA	Basis	P	Panasonic	10	100W	C	External	2	2pcs	No	NPN
P	Ball Screw-Semi enclosed	L10	10mm	C Common precision	VT5	80-600	BC	External	M	Mitsubishi	20	200W	D	Motor side	3	3pcs	P	PNP
B	Body width60	L12	12mm		VT6	80-600	BB	Right Side	Y	Yaskawa	40	400W	E	Oppsite motor side				
B	Body width80	L16	16mm		VF6	100-1000	BL	Left Side	T	Delta	75	750W		No		No sensor		Non-standard, d.e...
10	Body width100	L20	20mm		VF8	100-1000			W	W-Robot	57	57-Ø8						No
12	Body width120				VF10	100-1000			* For Z: Motor is from clients		57	57-Ø6.35						Standard type
14	Body width140				VF12	100-1200												BL1
17	Body width170				VF14	100-1500												B2
22	Body width220				VF17	100-1500												D01
T4	Body width45				VF20	100-1500												U01
T5	Body width55																	UD01
T6	Body width65																	H01
	Mounting surface are the guide rail																	HU01
																		HD01
																		HUD01
																		M01
																		S01

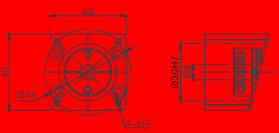
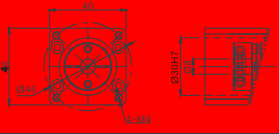
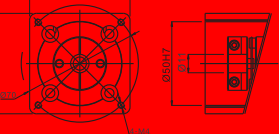
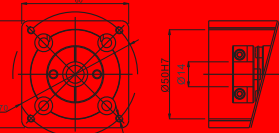
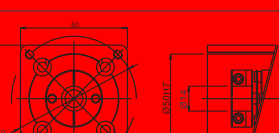
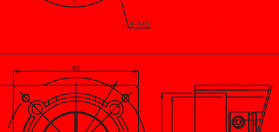
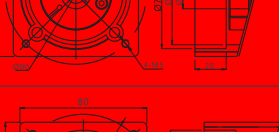
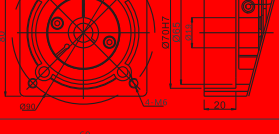
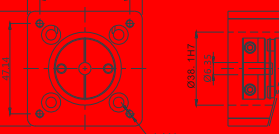
*Chart 1:non-standard items.

Name	Detailed information
BL1	Longer sliding rack
B2	Double sliding rack
D01	Down installation hole customization
U01	Up installation hole customization
UD01	Both up and down installation hole customization
H01	Height customization
HU01	Both height and up installation hole customization
HD01	Both height and down installation hole customization
HUD01	Both height and up-down installation hole customization
M01	Motor installation hole customization
S01	Stroke customization
T	Increase the sealing strip

Multi-axis Linear actuator item no. detailed specification



The motor connecting flange >>>

Type	The motor connecting flange drawing	Motor size	Motor power	Motor shaft dia	Motor brand	Reference No.
F1		□ 38	100W	Ø8	Panasonic	MSMD012G1U
F2		□ 40	100W	Ø8	Mitsubishi Yaskawa Delta Sankyo	HF-KN13 SGMJV-01ADA21 ECMA-C20401 MA101N2KN
F3		□ 60	200W	Ø11	Panasonic	MSMJ022G1U MHMJ022G1U
F4		□ 60	400W	Ø14	Panasonic	MSMJ042G1U MHMJ042G1U
F5		□ 60	200W	Ø14	Mitsubishi	HF-KN23 HF-KN43
			400W	Ø14	Yaskawa	SGMJV-02ADA21 SGMJV-04ADA21
					Delta	ECMA-C20602 ECMA-C20604
					Sankyo	MA201N2KN MA401N2KN
F6		□ 80	750W	Ø19	Panasonic	MSMJ082G1U MHMJ082G1U
F7		□ 80	750W	Ø19	Mitsubishi	HF-KN73
					Yaskawa	SGMJV-08ADA21
					Delta	ECMA-C20807
					Sankyo	MA751N2KN
F8		□ 56.4	57 Motor	Ø6.35	JMC	57J1876
					Leadshine	57HS09
F9		□ 56.4	57 Motor	Ø8	JMC	57J1880
					Leadshine	57HS22
					Oriental	PK266PA

Linear Stage Series

Ball Screw Drive General Environment

Small Type

VT4



Maximum Stroke 240mm
Maximum Payload 5KG036
Body Width 45mm

Small Type

VT5



Maximum Stroke 600mm
Maximum Payload 10KG040
Body Width 55mm

Small Type

VT6



Maximum Stroke 600mm
Maximum Payload 30KG044
Body Width 65mm

Small Type

VF6



Maximum Stroke 1000mm
Maximum Payload 25KG048
Body Width 60mm

Small Type

VF8



Maximum Stroke 1000mm
Maximum Payload 35KG052
Body Width 80mm

Standard Type

VF10



Maximum Stroke 1000mm
Maximum Payload 65KG056
Body Width 100mm

Standard Type

VF12



Maximum Stroke 1200mm
Maximum Payload 84KG060
Body Width 120mm

Standard Type

VF14



Maximum Stroke 1500mm
Maximum Payload 115KG065
Body Width 140mm

LargeType

VF17



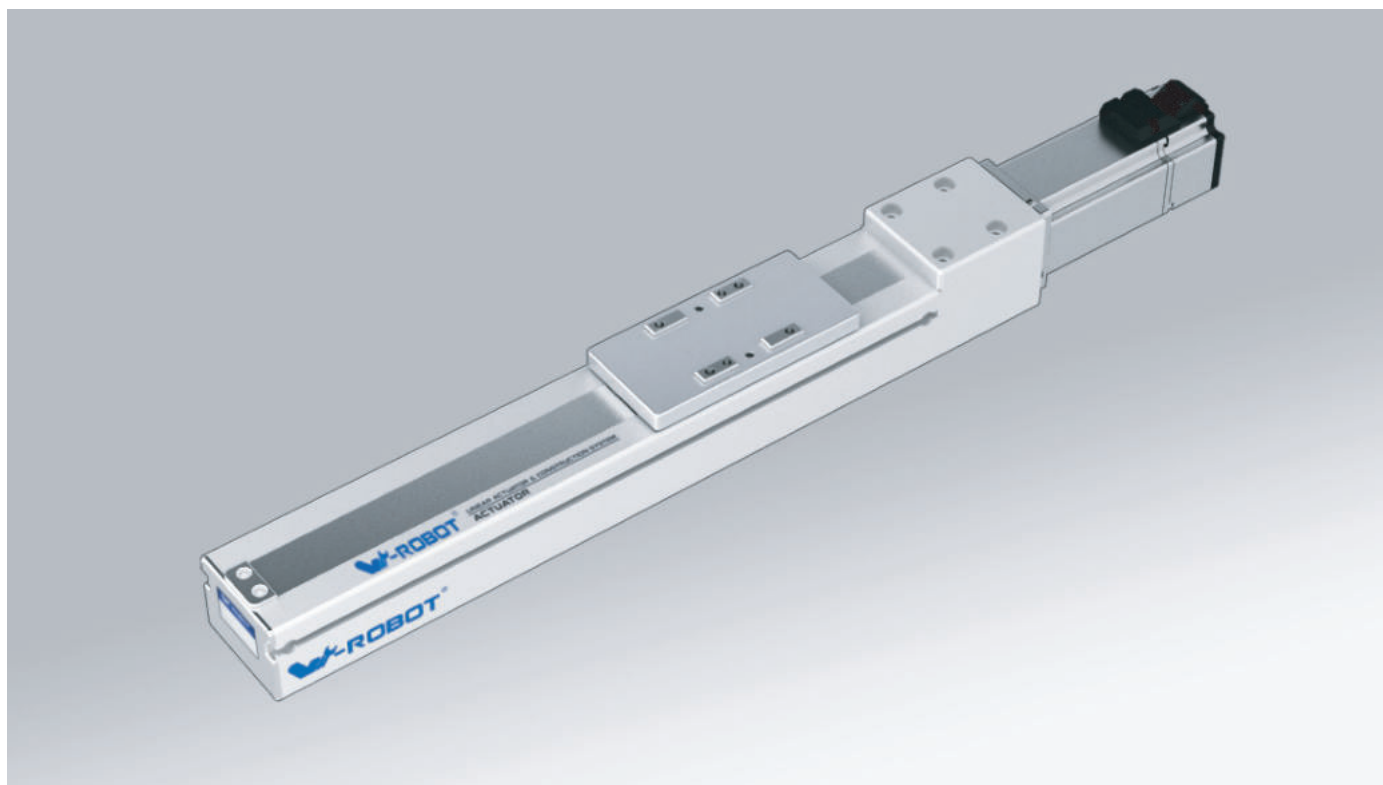
Maximum Stroke 1500mm
Maximum Payload 120KG071
Body Width 170mm

LargeType

VF22



Maximum Stroke 1500mm
Maximum Payload 190KG076
Body Width 220mm



Motor direction



Guide for Model Selection

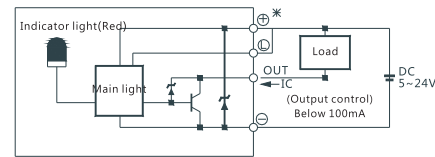
VT4 — L12 — P — S80 — BC — ZP10B — C3 —

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
VT	Fully-enclosed	L2	2mm	P	High precision	80-240	BC	External	P	Panasonic	10	100W	External		External		No	Standard type
4	Body width45	L12	12mm	C	Common precision		BR	Right Side	T	Delta	57	57-08	C	Motor side	2	2pcs	BL1	Detailed information please see page32
							BL	Left Side	W	W-Robot	57	57-06.35	D	Opposite motor side	3	3pcs	B2	
									*For Z: Motor is from clients		Brakes		E	No	No sensor		D01	
											No	No brake	Sensor type				U01	
											B	With brake					UD01	
																	H01	
													No	NPN			HU01	
													P	PNP			HD01	
																	HUD01	
																	M01	
																	S01	

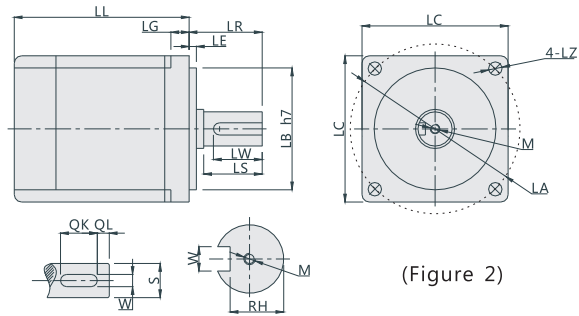
Specification

Motor power AC (W)	100W		
BallScrewØ	(C7)	8	
	(C5)	8	
Repeatability	(C7)	±0.01	
	(C5)	±0.006	
BallScrew Lead(mm)	/	2	12
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	/	100	600
Maximum Payload(kg)	Horizontal	/	3
	Vertical	/	1
RatedThrust(N)	/	900	150
Linear Guide (mm)	24x8.5 -1		
Coupling (mm) (Motor side) x (Ball Screw Side)	5x8		
Motor Output	100W		
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-

□ Stand for empty

Max. Payload Diameters Table

(Unit : mm)

A 3D perspective diagram of a rectangular sensor module mounted horizontally on a surface. Dimension A is the height of the module. Dimension B is the width of the module. Dimension C is the depth of the module.

A 3D perspective diagram of a rectangular sensor module mounted vertically on a wall. Dimension A is the height of the module. Dimension B is the width of the module. Dimension C is the depth of the module.

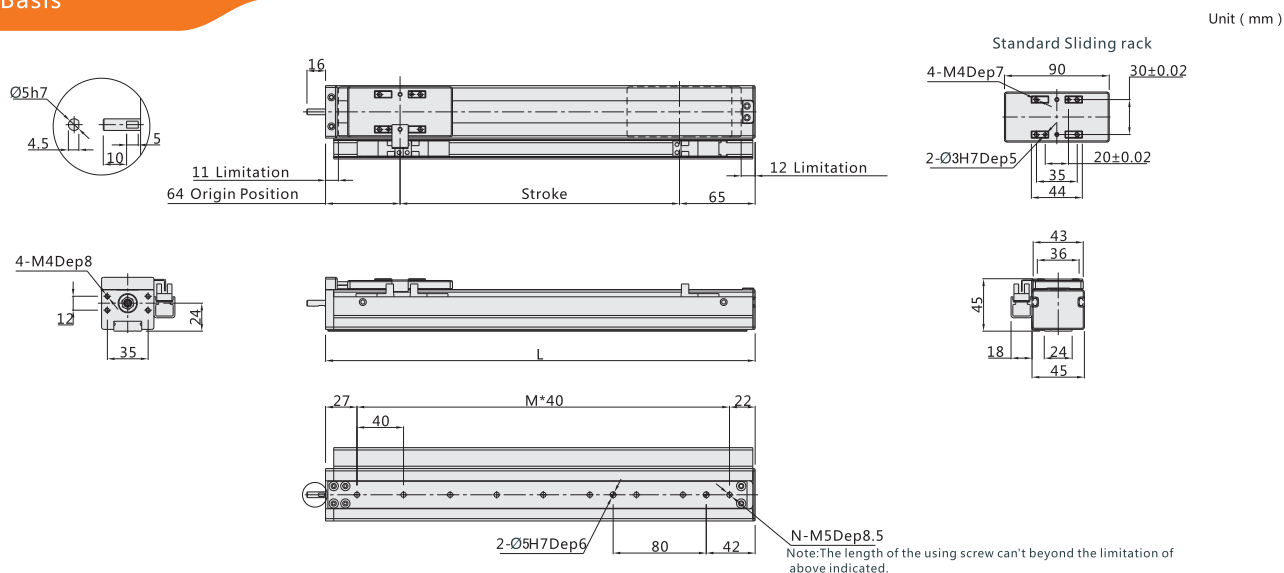
A 3D perspective diagram of a rectangular sensor module mounted vertically on a wall. Dimension A is the height of the module. Dimension C is the width of the module.

Horizontal installation					Wall installation					Vertical installation			
		A	B	C			A	B	C			A	C
Lead 12	1.5kg	289	58	120	Lead 12	1.5kg	99	34	250	Lead 12	1kg	83	83
	3kg	149	22	50		3kg	33	0.6	98				

Max. Static Torque Table

(Unit : N.m)	
Maximum static torque	
MY	16
MP	20
MR	19

BA: Basis

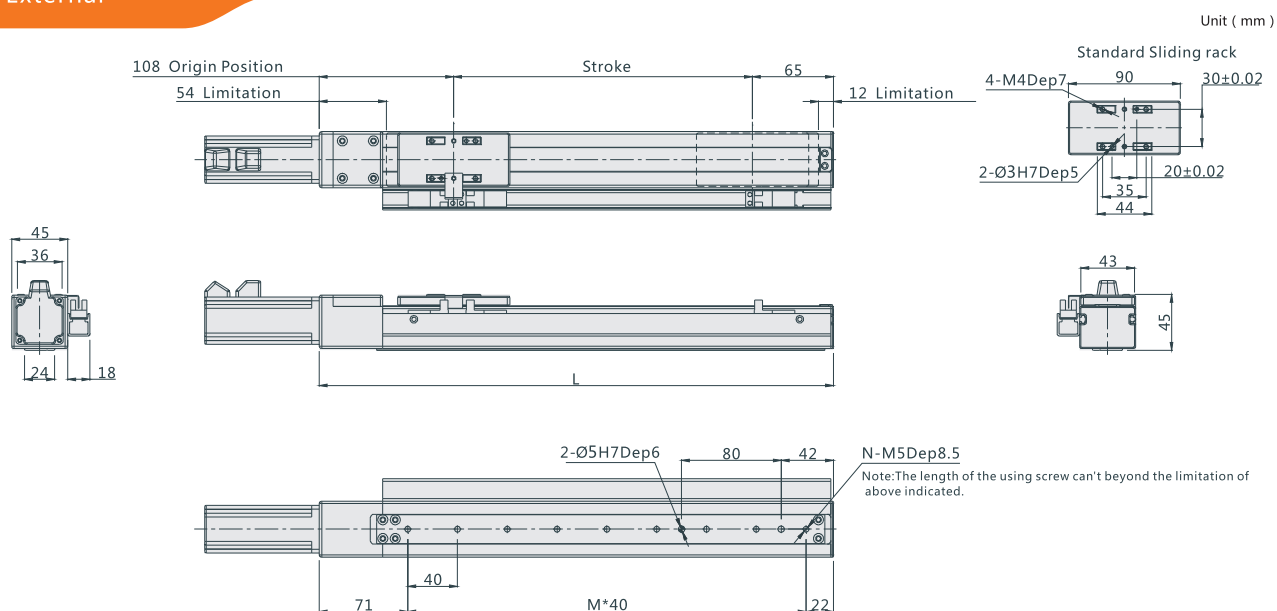


Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	80	120	160	200	240
L	209	249	289	329	369
M	4	5	6	7	8
N	5	6	7	8	9
Weight KG	1.211	1.318	1.425	1.532	1.639

*Products with color are available stock and short lead time.

BC: External



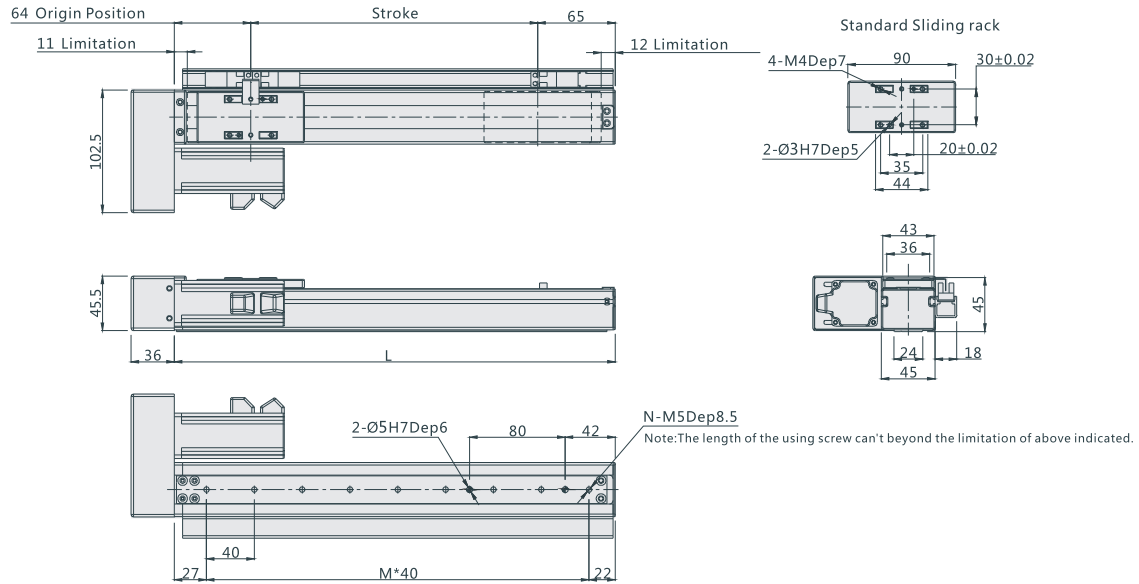
Note: Not including motor weight , in case special stroke please contact technical services .

Working Stroke	80	120	160	200	240
L	253	293	333	373	413
M	4	5	6	7	8
N	5	6	7	8	9
Weight KG	1.211	1.318	1.425	1.532	1.639

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



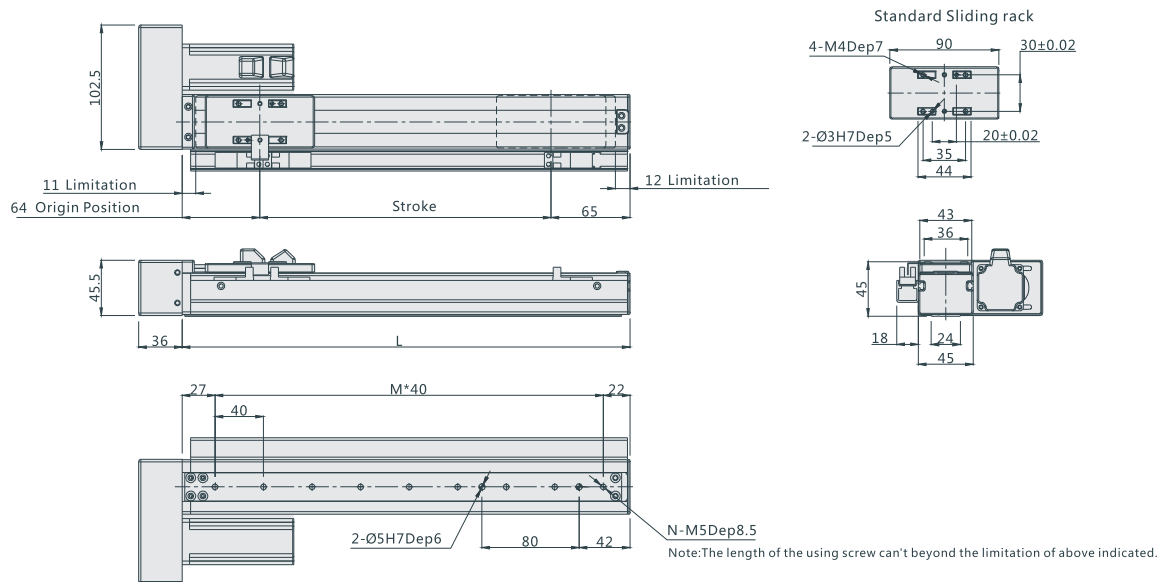
Note: Not including motor weight , in case special stroke please contact technical services .

Working Stroke	80	120	160	200	240
L	209	249	289	329	369
M	4	5	6	7	8
N	5	6	7	8	9
Weight KG	1.211	1.318	1.425	1.532	1.639

*Products with color are available stock and short lead time.

BR: Right Side

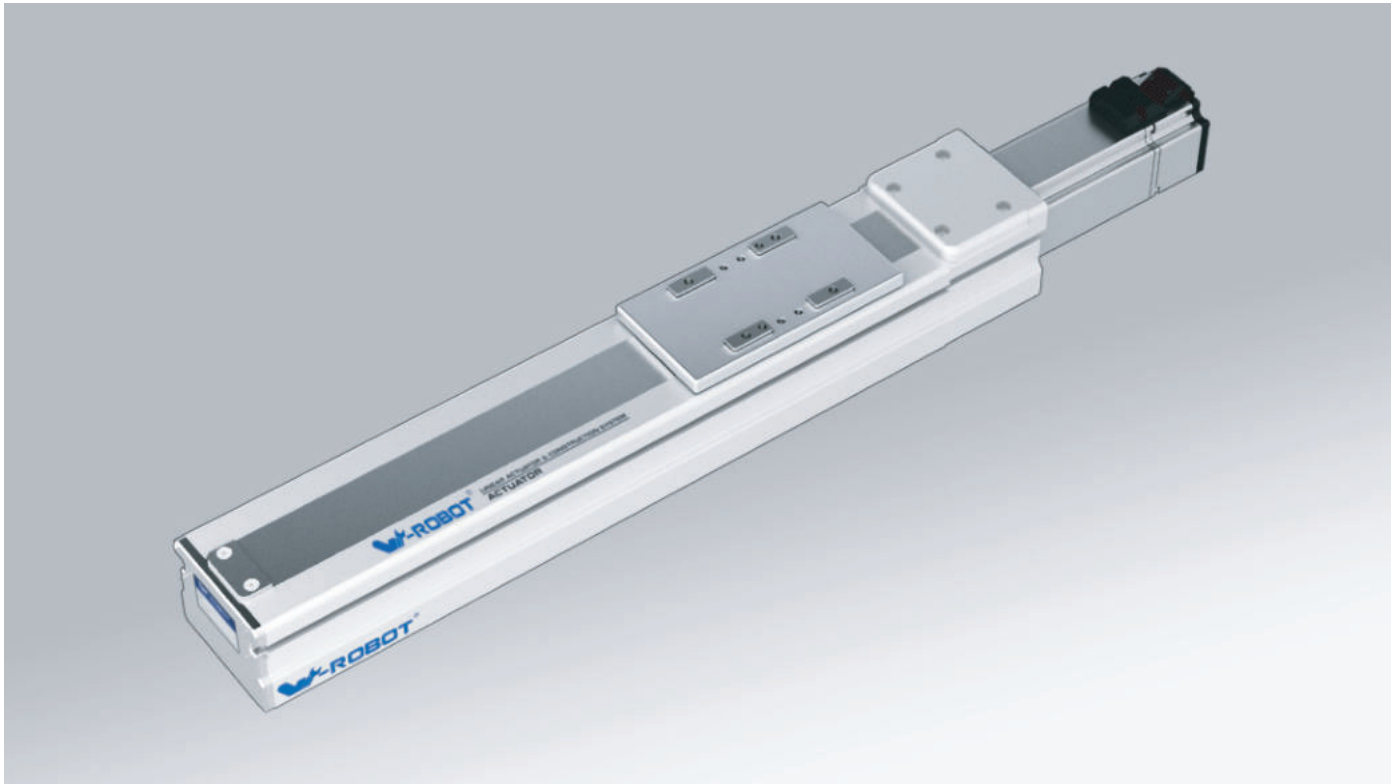
Unit (mm)



Note: Not including motor weight , in case special stroke please contact technical services .

Working Stroke	80	120	160	200	240
L	209	249	289	329	369
M	4	5	6	7	8
N	5	6	7	8	9
Weight KG	1.211	1.318	1.425	1.532	1.639

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

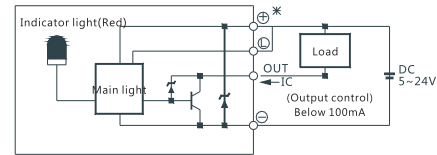
VT5 — L10 — P — S80 — BC — ZP10B — C3 —

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
VT	Fully-enclosed	L5	5mm	P	High precision	80-600	BC	External	P	Panasonic	10	100W	External		External		No	Standard type
5	Body width55	L10	10mm	C	Common precision		BR	Right Side	T	Delta	57	57-Ø8	C	Motor side	2	2pcs	BL1	Detailed information please see page 032
							BL	Left Side	W	W-Robot		57-Ø6.35	D	Opposite motor side	3	3pcs	B2	
									* For Z: Motor is from clients		Brakes		E	No	No sensor		D01	
											No	No brake	Sensor type				U01	
											B	With brake					UD01	
													No	NPN			H01	
													P	PNP			HU01	
																	HD01	
																	HUD01	
																	M01	
																	S01	

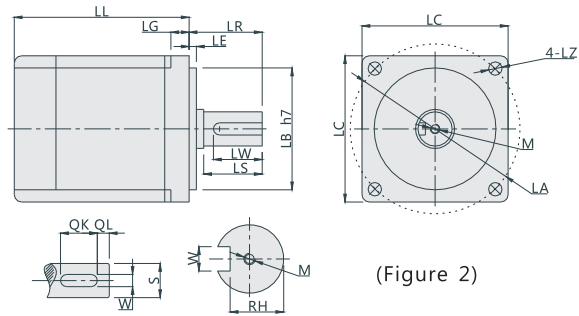
Specification

Motor power AC (W)	100W	
BallScrewØ	(C7)	12
	(C5)	12
Repeatability	(C7)	±0.01
	(C5)	±0.006
BallScrew Lead(mm)	5	10
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500
Maximum Payload(kg)	Horizontal	10
	Vertical	3
RatedThrust(N)	330	170
Linear Guide (mm)	24x8.5 -1	
Coupling (mm) (Motor side) x (Ball Screw Side)	8x8	
Motor Output	100W	
Home Sensor	Outside EE-SX672(NPN) EE-SX672P(PNP)	
	Outside Guide EE-SX674(NPN) EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm,if logner travel needed,it willbe lower.In case stroke over 500 will lead to swing of ball screw,please slow down the speed 15%.Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

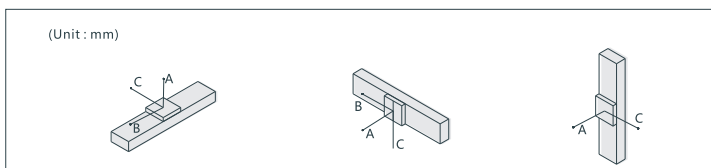
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-

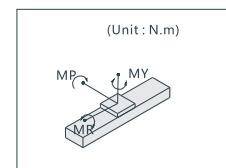
□ Stand for empty

Max. Payload Diameters Table



Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	4kg	515	58	135	Lead 5	4kg	107	24	380	Lead 5	3kg	56	57
	7kg	340	26	62		7kg	31	0	195	Lead 10	1.5kg	125	125
Lead 10	3kg	433	87	180	Lead 10	3kg	149	54	376				
	5kg	233	33	75		5kg	50	1	148				

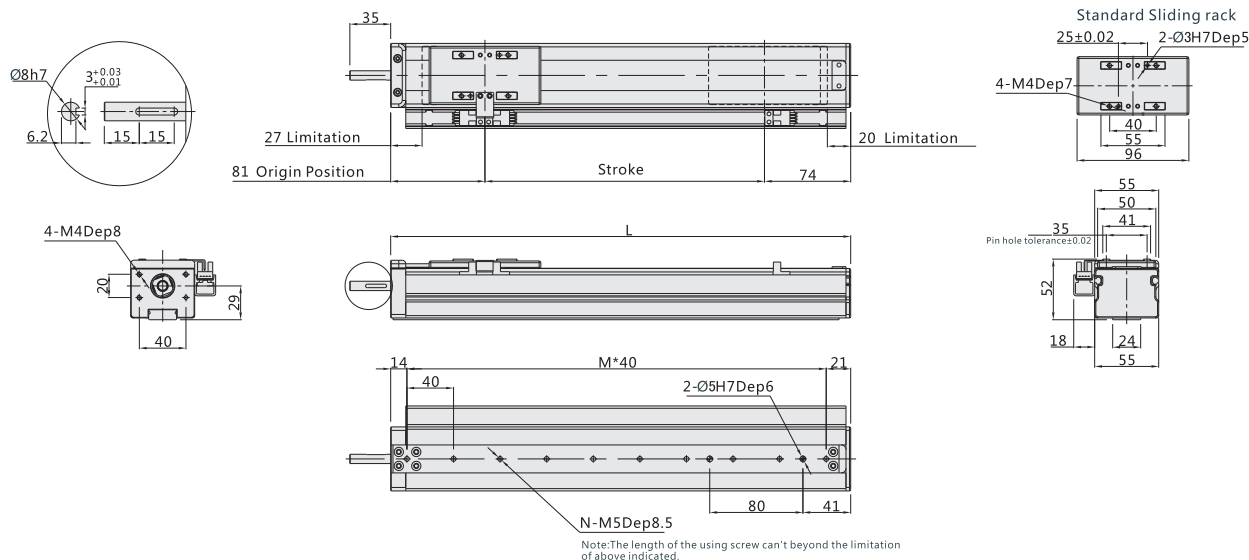
Max. Static Torque Table



Maximum static torque	
MY	16
MP	20
MR	19

BA: Basis

Unit (mm)



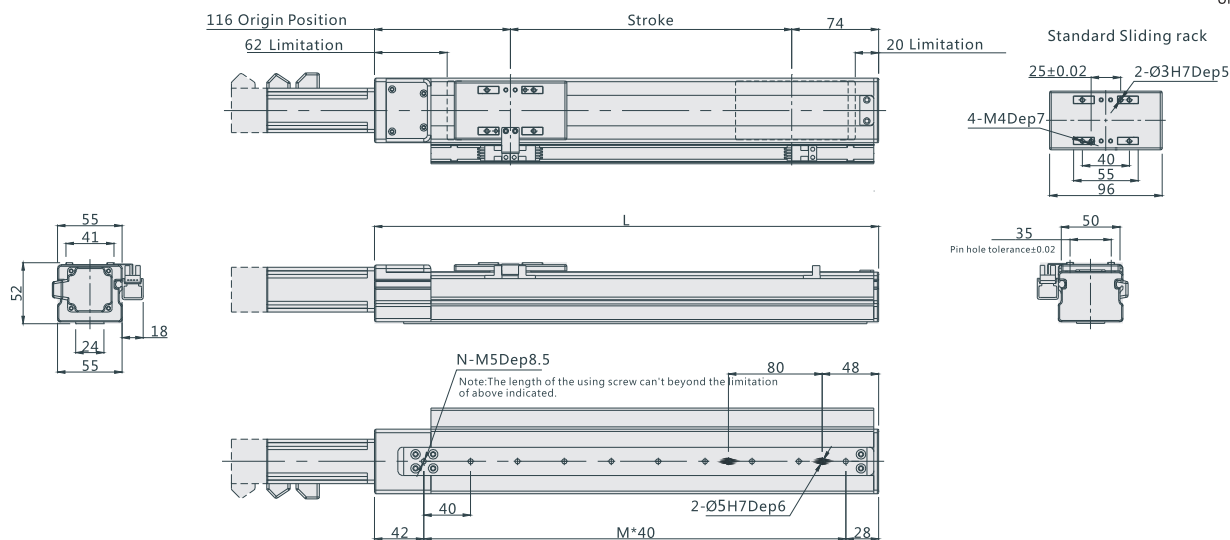
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	235	275	315	355	395	435	475	515	555	595	635	675	715	755
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Weight KG	2.06	2.14	2.22	2.3	2.38	2.46	2.54	2.62	2.7	2.78	2.86	2.94	3.32	3.1

*Products with color are available stock and short lead time.

BC: External

Unit (mm)



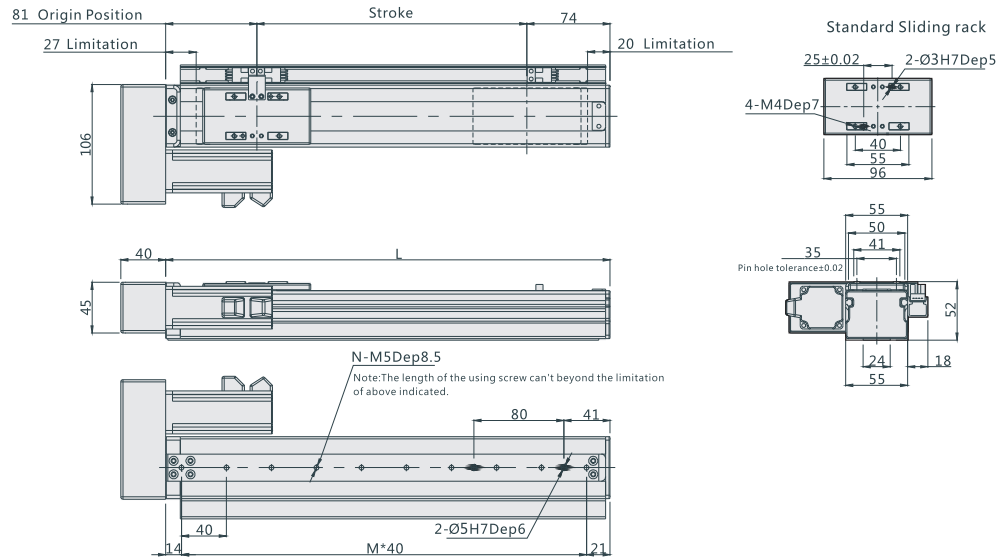
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	270	310	350	390	430	470	510	550	590	630	670	710	750	790
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Weight KG	2.06	2.14	2.22	2.3	2.38	2.46	2.54	2.62	2.7	2.78	2.86	2.94	3.32	3.1

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



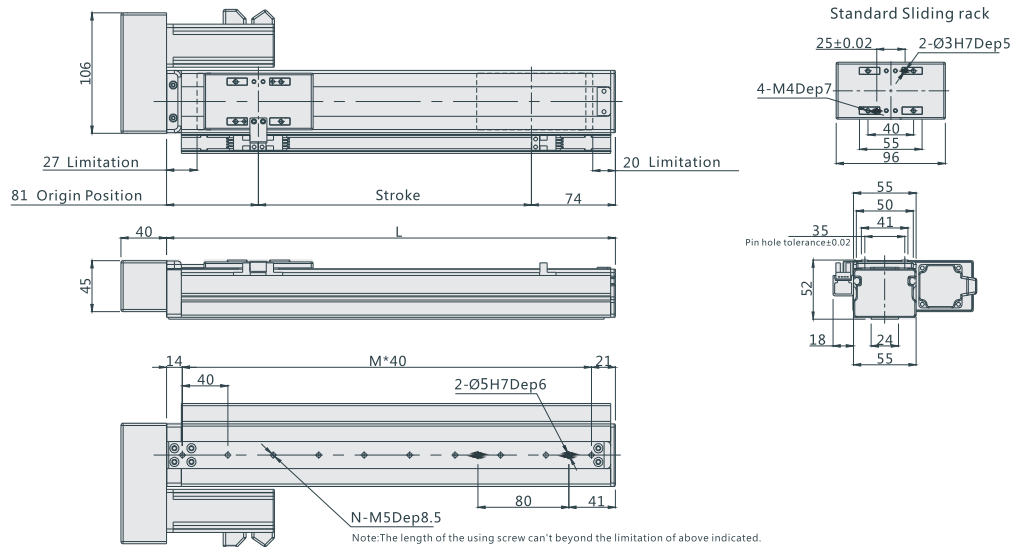
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	235	275	315	355	395	435	475	515	555	595	635	675	715	755
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Weight KG	2.06	2.14	2.22	2.3	2.38	2.46	2.54	2.62	2.7	2.78	2.86	2.94	3.32	3.1

*Products with color are available stock and short lead time.

BR: Right Side

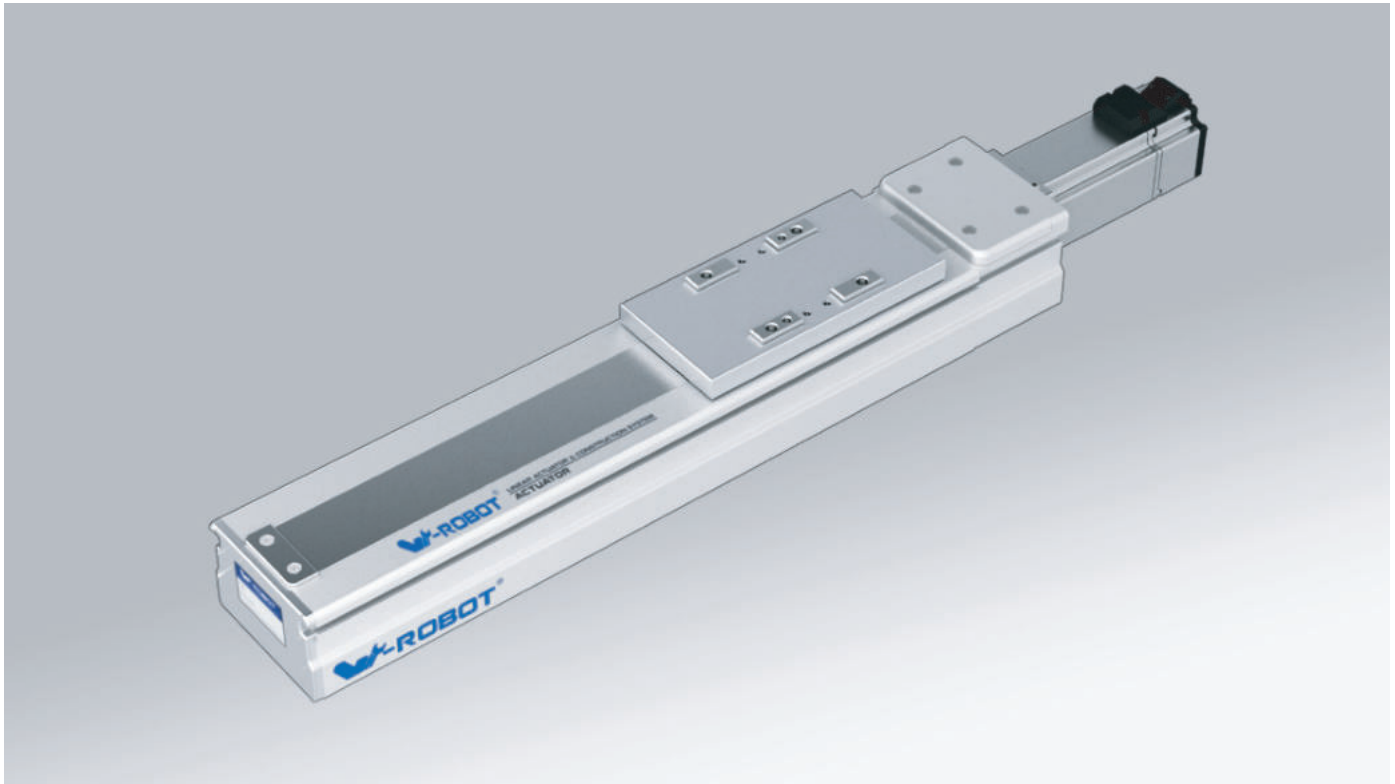
Unit (mm)



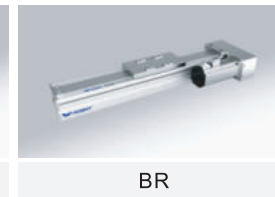
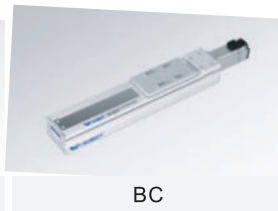
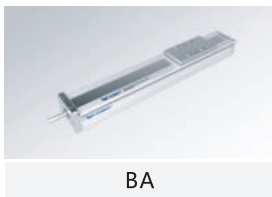
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	235	275	315	355	395	435	475	515	555	595	635	675	715	755
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Weight KG	2.06	2.14	2.22	2.3	2.38	2.46	2.54	2.62	2.7	2.78	2.86	2.94	3.32	3.1

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

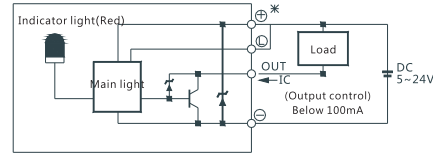
VT6 — L10 — P — S80 — BC — ZP10B — C3 —

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)		Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
VT	Fully-enclosed	L5	5mm	P	High precision	80-600	BC	External	P	Panasonic	10	100W	External		External		No	Standard type	
6	Body width65	L10	10mm	C	Common precision		BR	Right Side	T	Delta	57	57-Ø8	C	Motor side	2	2pcs	BL1	Detailed information please see page032	
							BL	Left Side	W	W-Robot		57-Ø6.35	D	Oppsite motor side	3	3pcs	B2		
										* For Z: Motor is from clients		Brakes		E	No	No sensor			D01
										No	No brake						U01		
										B	With brake								UD01
																			H01
																			HU01
																			HD01
																			HUD01
																			M01
																			S01

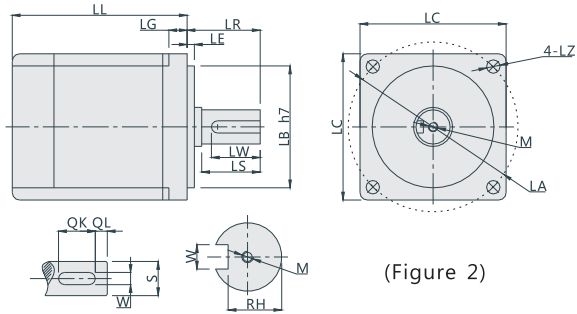
Specification

Motor power AC (W)		100W	
BallScrewØ	(C7)	12	
	(C5)	12	
Repeatability	(C7)	±0.01	
	(C5)	±0.006	
BallScrew Lead(mm)		5	10
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/min)		250	500
Maximum Payload(kg)	Horizontal	30	15
	Vertical	10	5
RatedThrust(N)		330	165
Linear Guide (mm)		42x9.5 -1	
Coupling (mm) (Motor side) x (Ball Screw Side)		8x8	
Motor Output		100W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if longer travel needed, it will be lower. In case stroke over 500 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

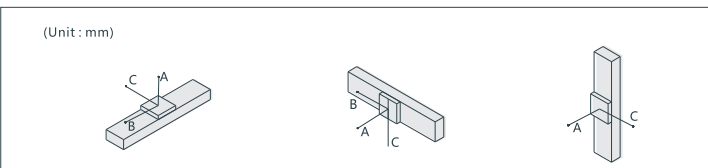
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-

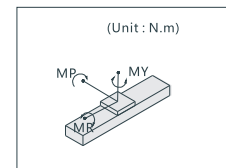
□ Stand for empty

Max. Payload Diameters Table



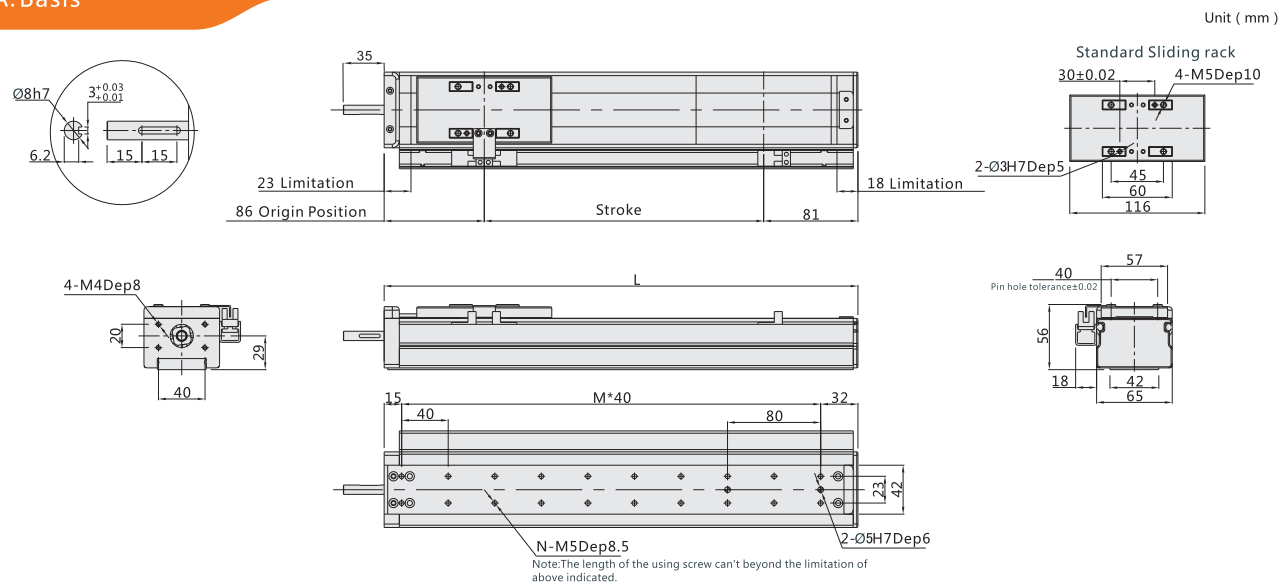
Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	10kg	374	33	109	Lead 5	5kg	204	45	530	Lead 5	2kg	171	172
	30kg	159	0	25		10kg	72	0	245		4kg	73	74
Lead 10	3kg	642	125	335		30kg	0	0	0		10kg	23	26
	8kg	273	41	121	Lead 10	3kg	293	96	510	Lead 10	1kg	335	352
	15kg	216	24	77		8kg	89	14	210		2kg	165	165
				15kg		43	0	130	5kg		70	72	

Max. Static Torque Table



Maximum static torque	
MY	35
MP	40
MR	50

BA: Basis



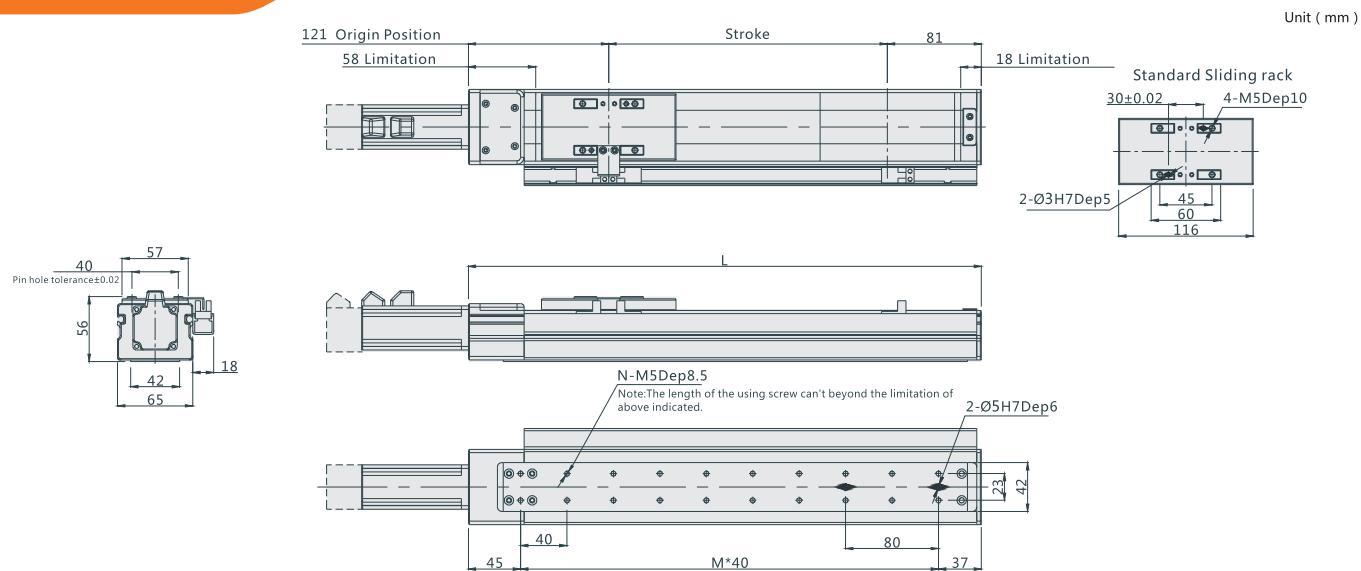
Note: Not including motor weight.

*In case special stroke please contact technical services.

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	247	287	327	367	407	447	487	527	567	607	647	687	727	767
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Weight KG	2.52	2.68	2.84	3	3.16	3.32	3.48	3.64	3.8	3.96	4.12	4.28	4.44	4.6

*Products with color are available stock and short lead time.

BC: External



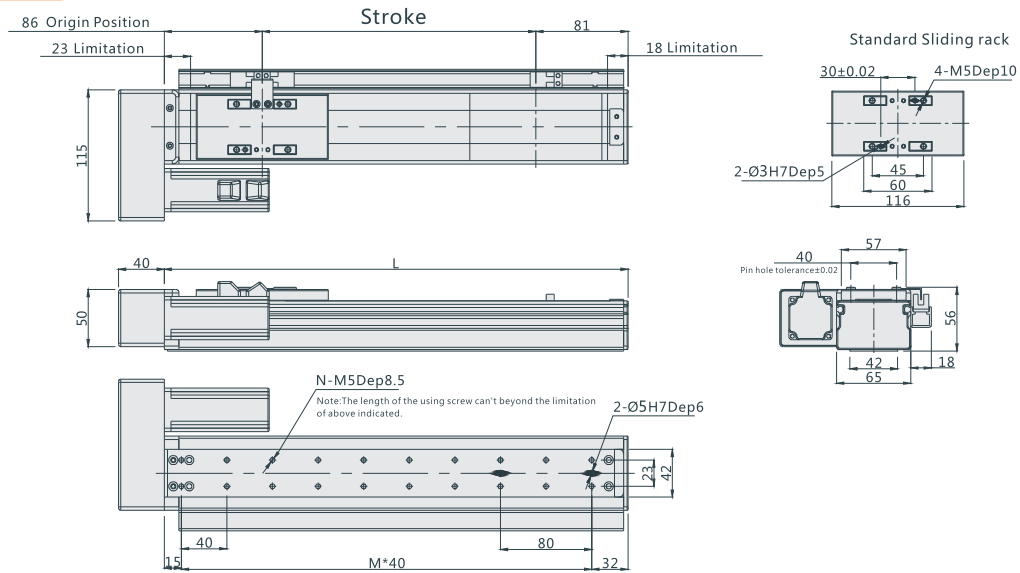
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	282	322	362	402	442	482	522	562	602	642	682	722	762	802
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Weight KG	2.52	2.68	2.84	3	3.16	3.32	3.48	3.64	3.8	3.96	4.12	4.28	4.44	4.6

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



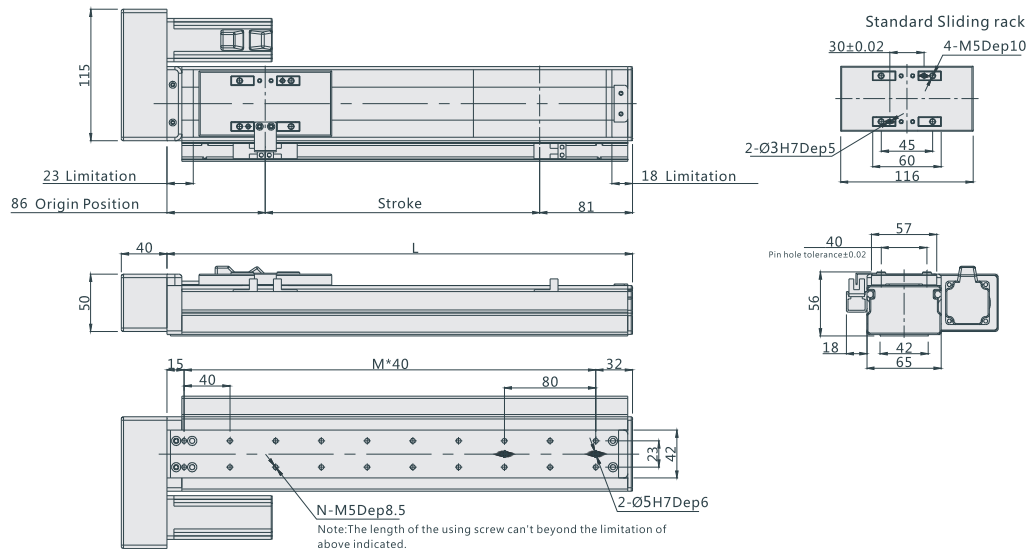
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	247	287	327	367	407	447	487	527	567	607	647	687	727	767
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Weight KG	2.52	2.68	2.84	3	3.16	3.32	3.48	3.64	3.8	3.96	4.12	4.28	4.44	4.6

*Products with color are available stock and short lead time.

BR: Right Side

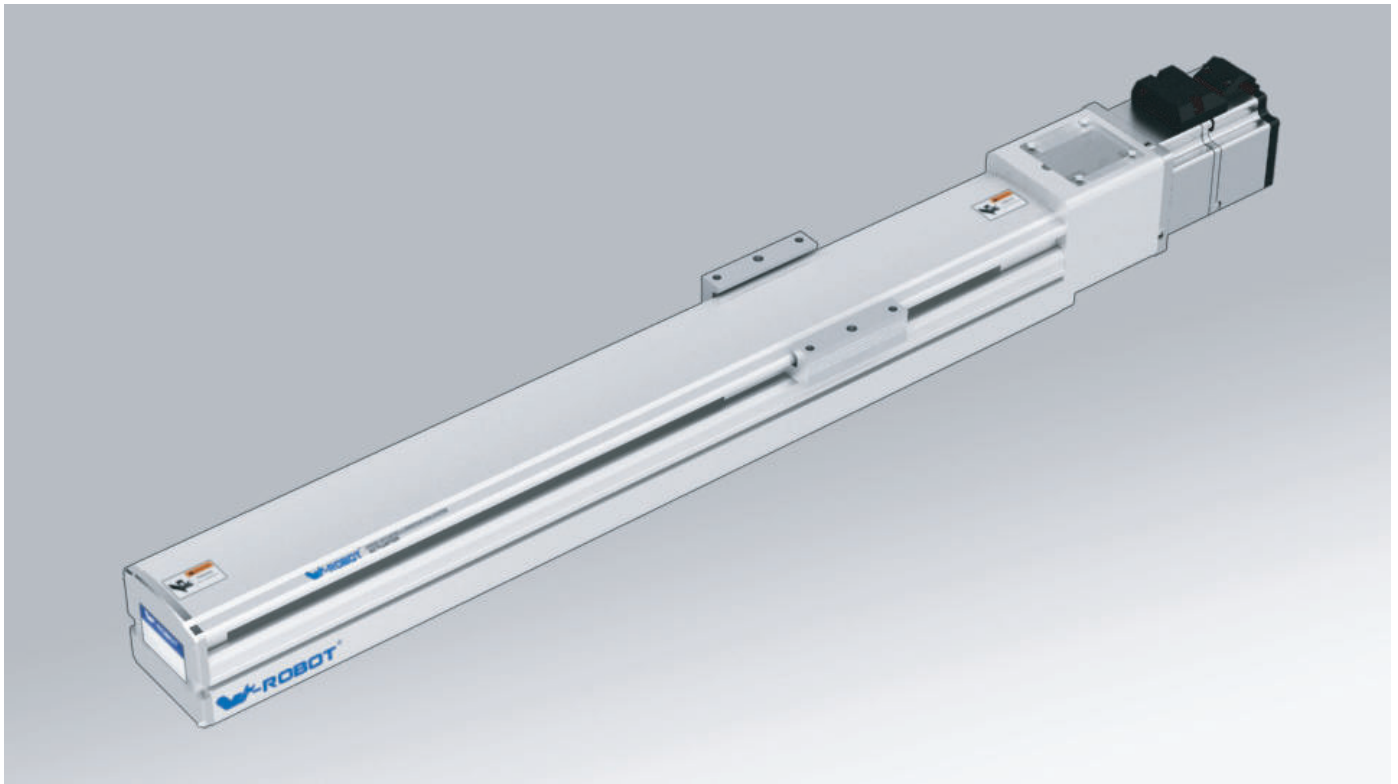
Unit (mm)



Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	80	120	160	200	240	280	320	360	400	440	480	520	560	600
L	247	287	327	367	407	447	487	527	567	607	647	687	727	767
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Weight KG	2.52	2.68	2.84	3	3.16	3.32	3.48	3.64	3.8	3.96	4.12	4.28	4.44	4.6

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

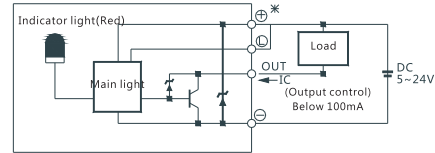
VF6 — L16 — P — S100 — BC — ZP10B — C3 —

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
V	Vseries	L5	5mm	P	High precision	100-1000	BA	Basis	P	Panasonic	10	100W	External		External		No	Standard type
F	Semidlosed with Frame Ball Screw Drive	L10	10mm	C	Common precision		BC	External	M	Mitsubishi	20	200W	C	Motor side	2	2pcs	BL1	Detailed information please see page 032
6	Body width60	L16	16mm				BR	Right Side	Y	Yaskawa	40	400W	D	Oppsite motor side	3	3pcs	B2	
		L20	20mm				BL	Left Side	T	Delta	57	57-Ø8	E	No	No sensor		D01	
									W	W-Robot	57	57-Ø6.35					U01	
									* For Z: Motor is from clients		Brakes						UD01	
											No	No brake					H01	
											B	With brake					HU01	
													Sensor type				HD01	
													No	NPN			HUD01	
													P	PNP			M01	
																	S01	

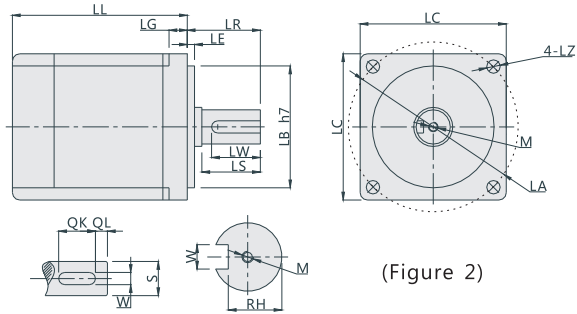
Specification

Motor power AC (W)		100W/200W/400W			
BallScrewØ		(C7)	16		
		(C5)	16		
Repeatability		(C7)	±0.01		
		(C5)	±0.006		
BallScrew Lead(mm)		5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)		250	500	800	1000
Maximum Payload(kg)	Horizontal	18/20/25	14/16/20	11/13/16	5/7/8
	Vertical	8/9/10	5/6/8	2/3/4	2
RatedThrust(N)		330/683/1388	165/341/694	100/213/433	85/174/347
Linear Guide (mm)		24x8.5 -1			
Coupling (mm) (Motor side) x (Ball Screw Side)		8x10	11x10	14x10	14x10
Motor Output		100W	200W		400W
Home Sensor		Outside EE-SX672(NPN) EE-SX672P(PNP)			
		Outside Guide EE-SX674(NPN) EE-SX674P(PNP)			

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 650 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

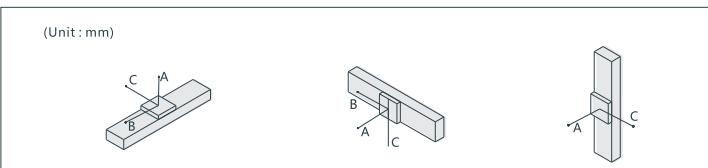
Servo Motor Matches List

(Table 1)

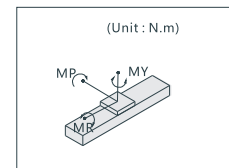
Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-

□ Stand for empty

Max. Payload Diameters Table



Max. Static Torque Table



Horizontal installation		A	B	C
Lead 5	10kg	374	33	109
	18kg	159	0	25
	-	-	-	-
Lead 10	3kg	642	125	335
	8kg	273	41	121
	14kg	216	24	77

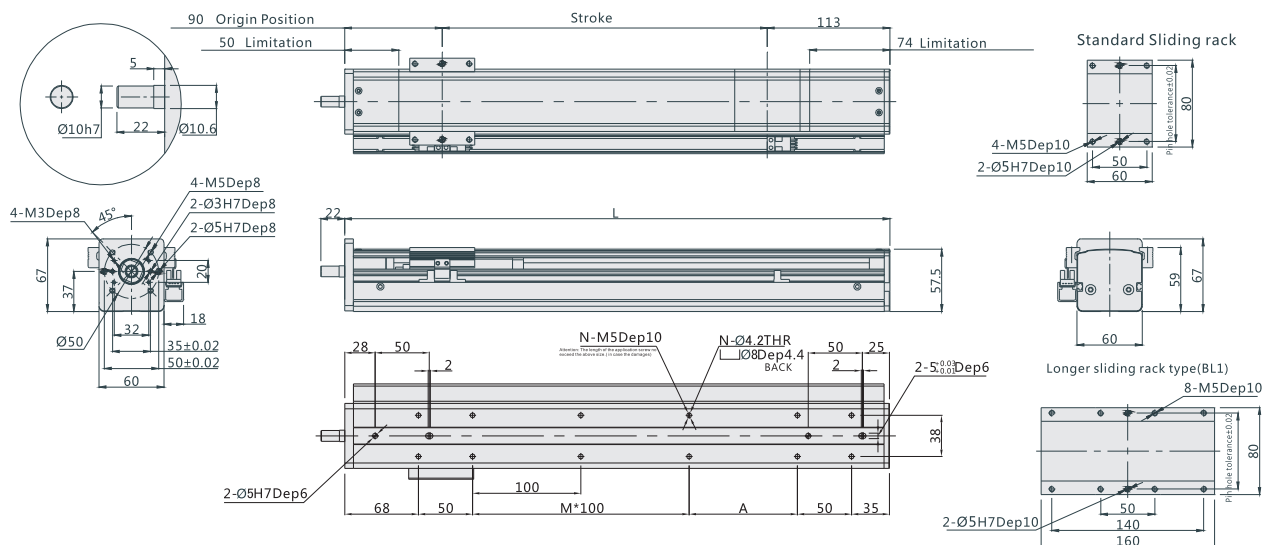
Wall installation		A	B	C
Lead 5	5kg	204	45	530
	10kg	72	0	245
	18kg	0	0	0
Lead 10	3kg	293	96	510
	8kg	89	14	210
	14kg	43	0	130

Vertical installation		A	C
Lead 5	2kg	171	172
	4kg	73	74
	8kg	23	26
Lead 10	1kg	335	352
	2kg	165	165
	5kg	70	72

Maximum static torque	
MY	70
MP	80
MR	75

BA: Basis

Unit (mm)



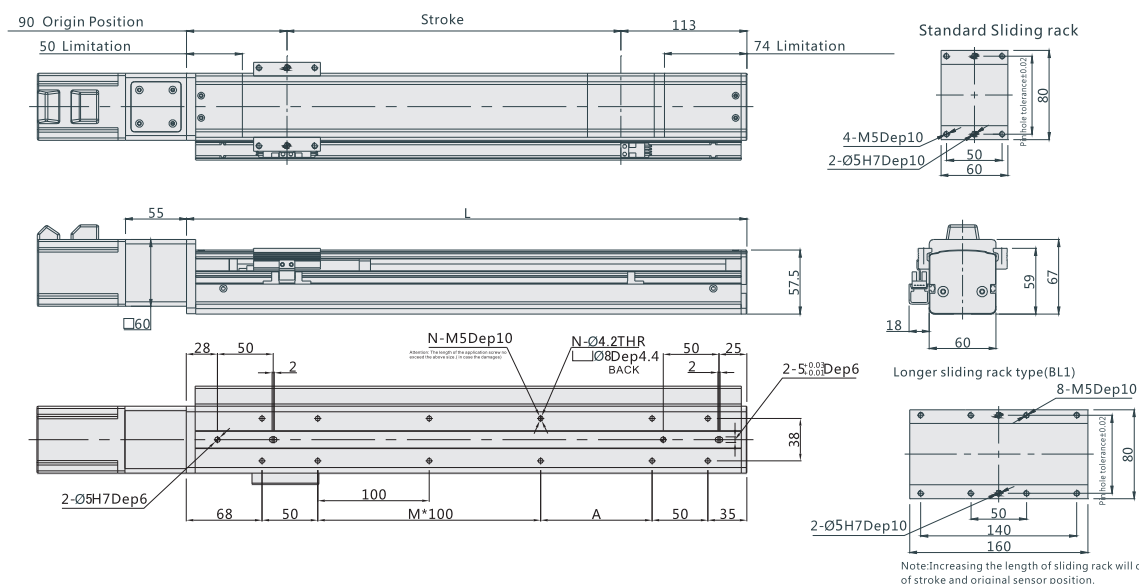
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	303	353	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	2.5	2.8	3.1	3.4	3.7	4	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7	7.3	7.6	7.9

*Products with color are available stock and short lead time.

BC: External

Unit (mm)



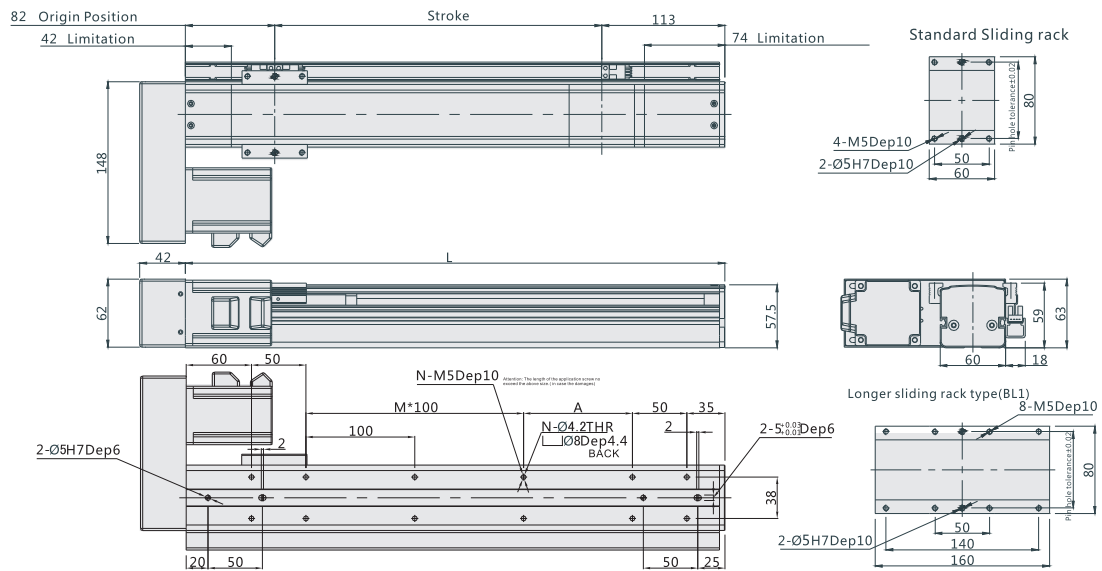
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	303	353	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	2.8	3.1	3.4	3.7	4	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7	7.3	7.6	7.9	8.2

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



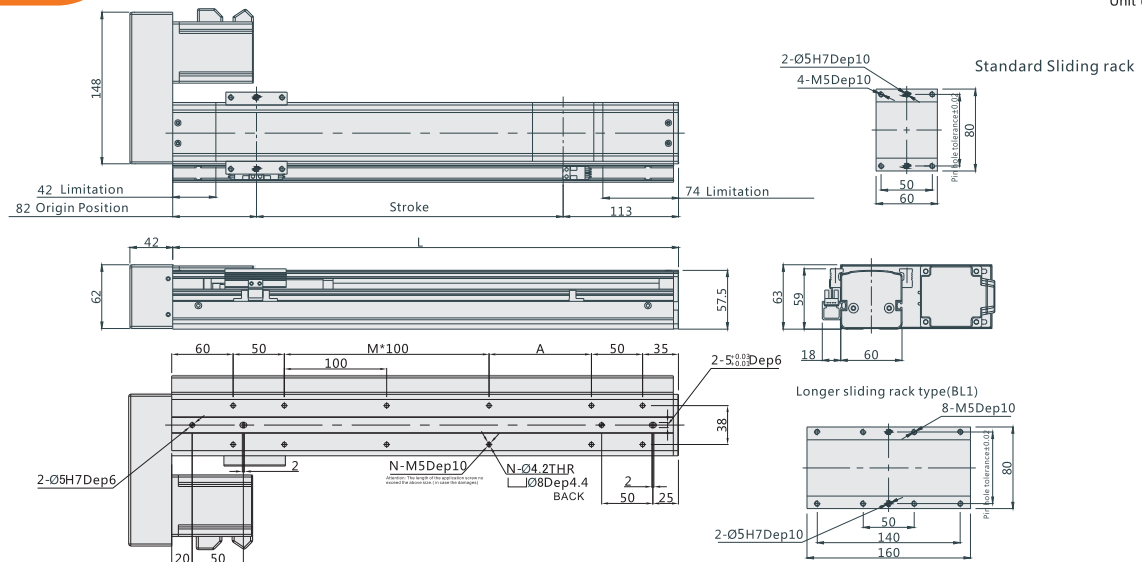
Note: Not including motor weight, in case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	295	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	3.2	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6

*Products with color are available stock and short lead time.

BR: Right Side

Unit (mm)



Note: Not including motor weight, in case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	295	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	3.2	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6

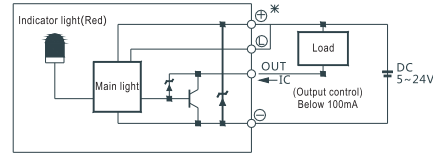
*Products with color are available stock and short lead time.



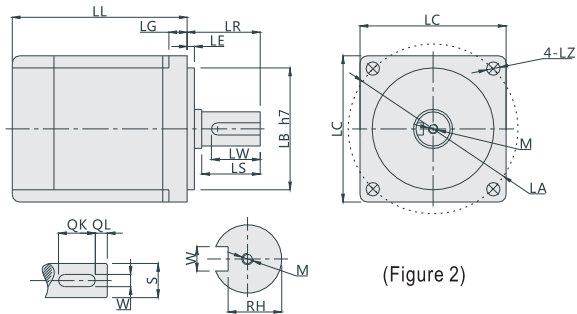
Specification

Motor power AC (W)	100W/200W/400W			
BallScrewØ	(C7)	16		
	(C5)	16		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	800	1000
Maximum Payload(kg)	Horizontal	25/30/35	20/25/30	18/22/27
	Vertical	8/10/12	7/9/11	5/7/9
RatedThrust(N)	330/683/1388	165/341/694	100/213/433	85/174/347
Linear Guide (mm)	42x9.5 -1			
Coupling (mm) (Motor side) x (Ball Screw Side)	8x10	11x10	14x10	14x10
Motor Output	100W	200W	400W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 650 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

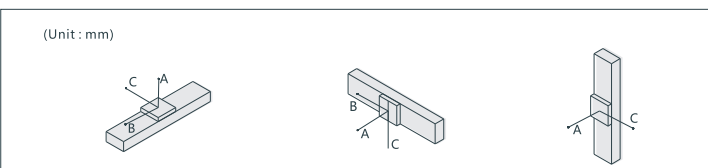
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-

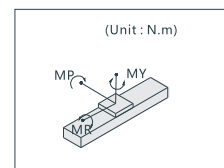
□ Stand for empty

Max. Payload Diameters Table



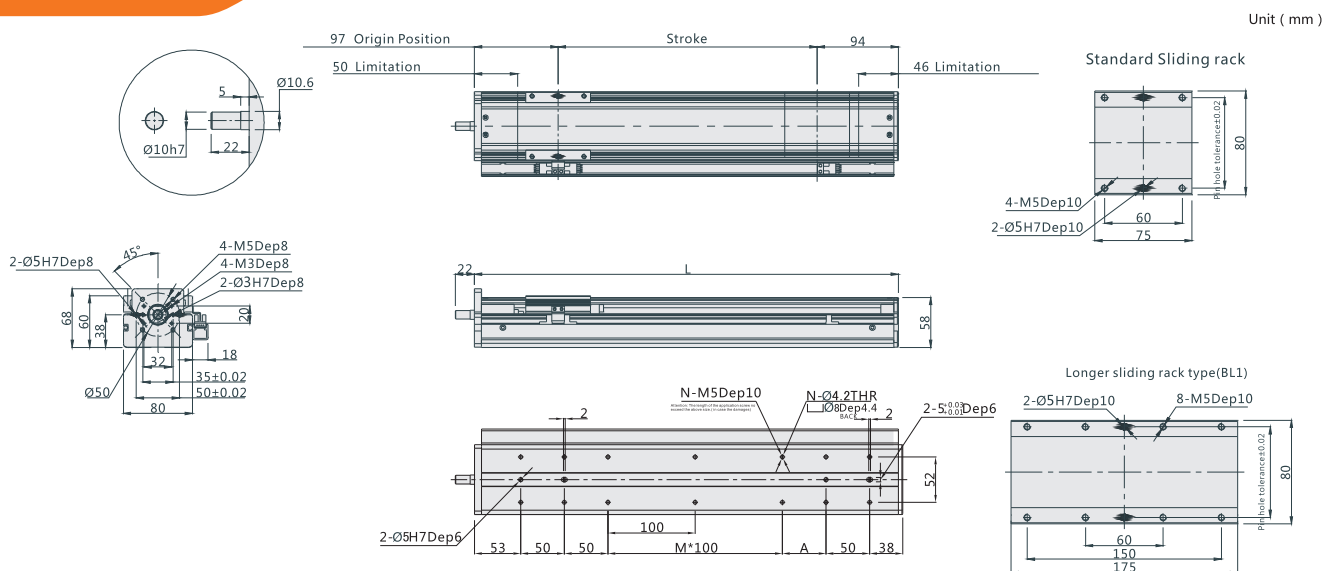
Horizontal installation					A	B	C	Wall installation					A	B	C	Vertical installation				A	C
Lead 5	15kg	374	33	109	Lead 5	15kg	204	45	530	Lead 5	4kg	100	145	Lead 5	4kg	100	145	Lead 5	4kg	100	145
	25kg	159	0	25		25kg	72	0	245		6kg	50	74		6kg	50	74				
	-	-	-	-		-	0	0	0		8kg	23	26		8kg	23	26				
Lead 10	4kg	624	125	335	Lead 10	4kg	280	96	500	Lead 10	3kg	335	350	Lead 10	3kg	335	350	Lead 10	3kg	335	350
	9kg	273	41	121		9kg	70	10	200		5kg	140	160		5kg	140	160				
	20kg	50	-	-		20kg	30	0	180		7kg	70	72		7kg	70	72				
Lead 16	4kg	737	182	159	Lead 16	4kg	80	30	300	Lead 16	1kg	372	418	Lead 16	1kg	372	418	Lead 16	1kg	372	418
	8kg	387	80	97		8kg	15	0	130		2kg	166	202		2kg	166	202				
	18kg	90	30	35		18kg	0	0	0		5kg	113	159		5kg	113	159				

Max. Static Torque Table



Maximum static torque	
MY	100
MP	100
MR	110

BA: Basis

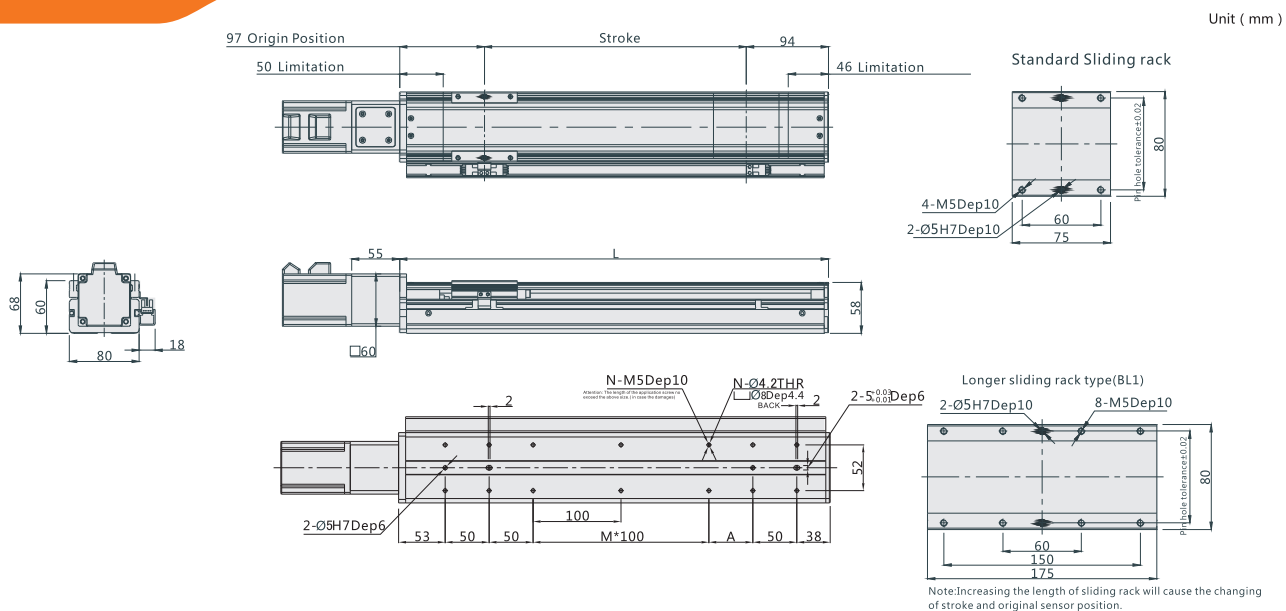


Note: Not including motor weight , in case special stroke please contact technical services .

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	291	341	391	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	3.1	3.5	3.9	4.3	4.7	5.1	5.5	5.9	6.3	6.7	7.1	7.5	7.9	8.3	8.7	9.1	9.5	9.9	10.3

*Products with color are available stock and short lead time.

BC: External



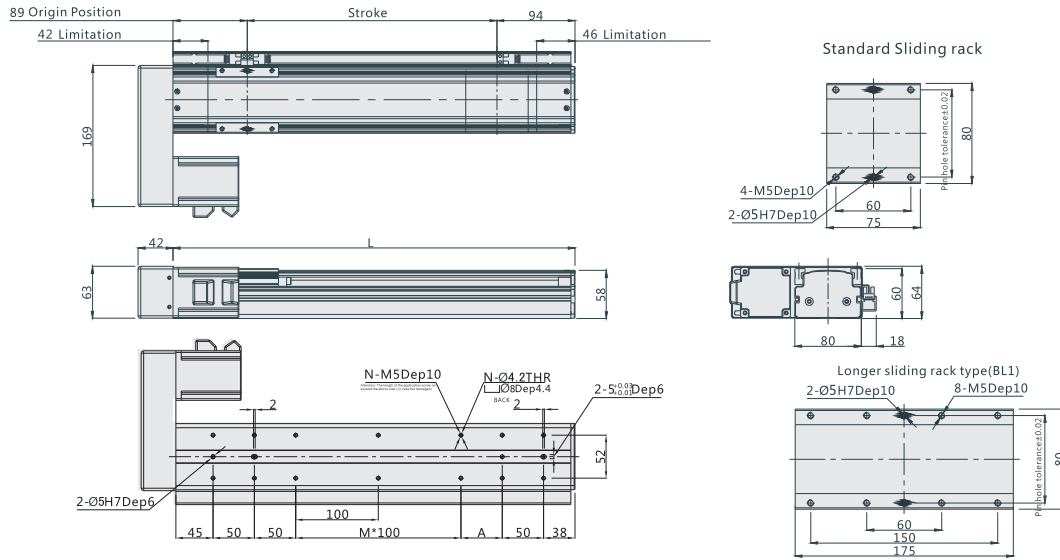
Note: Not including motor weight , in case special stroke please contact technical services .

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	291	341	391	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



Note: Not including motor weight , in case special stroke please contact technical services. .

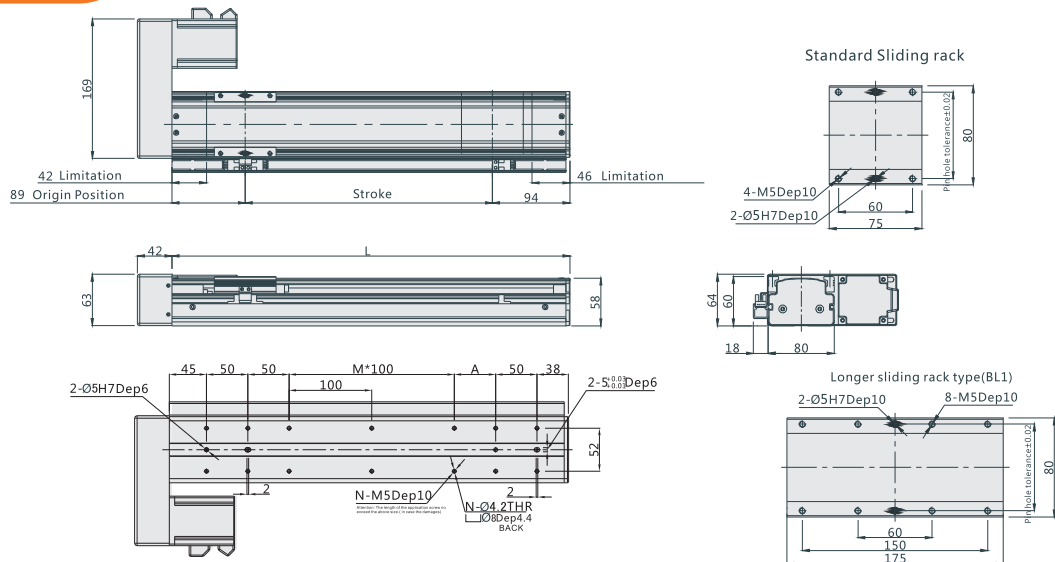
Note:Increasing the length of sliding rack will cause the changing of stroke and original sensor position.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	283	333	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2

*Products with color are available stock and short lead time.

BR: Right Side

Unit (mm)



Note: Not including motor weight , in case special stroke please contact technical services. .

Note:Increasing the length of sliding rack will cause the changing of stroke and original sensor position.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	283	333	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2

*Products with color are available stock and short lead time.



BA

BC

BL

BR

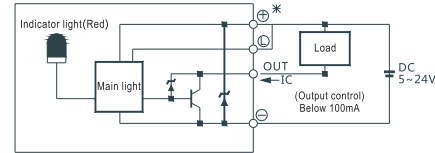
M

VF10 – L16 – P – S100 – BC – ZP10B – C3 –

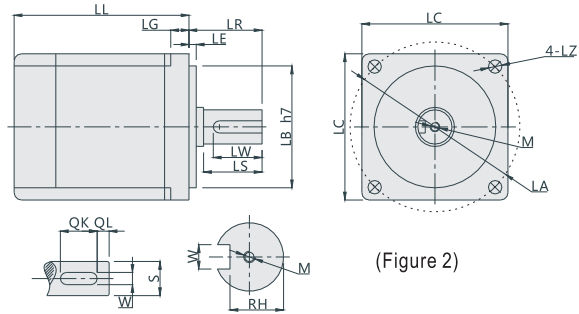
Specification

Motor power AC (W)	100W/200W/400W			
BallScrewØ	(C7)	16		
	(C5)	16		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	800	1000
Maximum Payload(kg)	Horizontal	50/65/65	30/39/45	22/28/33
	Vertical	12/15/18	8/10/12	5/6/7
RatedThrust(N)	330/683/1388	165/341/694	100/213/433	85/174/347
Linear Guide (mm)	15x12.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	8x10	11x10	14x10	14x10
Motor Output	100W	200W	400W	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)		
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)		

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 700 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

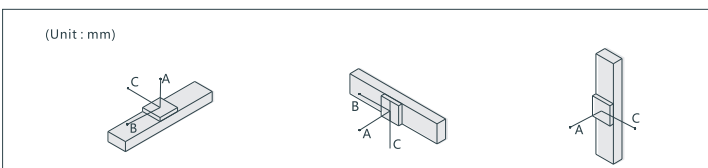
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
100W	Panasonic	MSMD012G1□ V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-	
	Delta	ECMA-C20401□S S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-	
	Mitsubishi	HC-KFS12□K B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-	
200W	Panasonic	MSMJ022G1□ V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-	
	Delta	ECMA-C20602□S S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-	
	Mitsubishi	HC-KFS23□K B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-	
400W	Panasonic	MSMJ042G1□ V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-	
	Delta	ECMA-C20604□S S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-	
		ECMA-C20804□S S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-	
	Mitsubishi	HC-KFS43□K B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-	

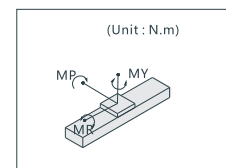
□ Stand for empty

Max. Payload Diameters Table



Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	30kg	424	24	25	Lead 5	10kg	105	50	1400	Lead 5	5kg	100	145
	50kg	0	0	0		20kg	22	0	538		10kg	50	90
	-	-	-	-		30kg	0	0	0		12kg	23	63
Lead 10	15kg	394	76	79	Lead 10	10kg	100	50	545	Lead 10	4kg	335	375
	25kg	184	22	25		20kg	20	0	221		6kg	140	180
	30kg	111	-	-		30kg	0	0	0		8kg	100	140
Lead 16	5kg	937	282	259	Lead 16	5kg	116	58	605	Lead 16	1kg	372	418
	10kg	487	121	116		10kg	24	0	253		2kg	166	202
	15kg	236	40	44		15kg	0	0	0		3kg	113	159

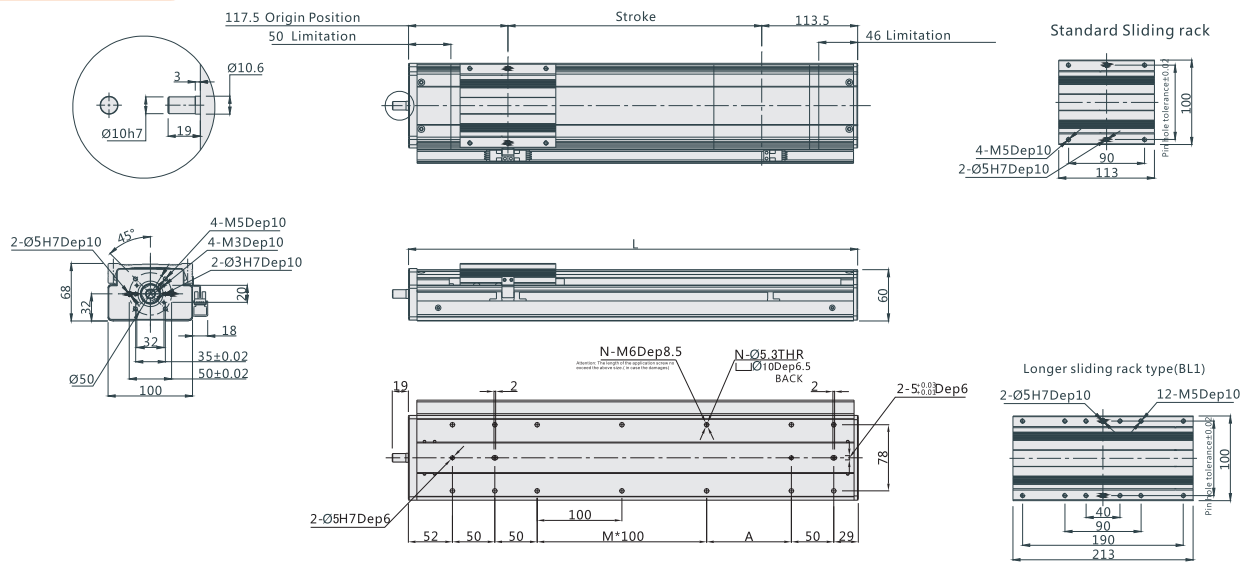
Max. Static Torque Table



Maximum static torque	
MY	131
MP	131
MR	115

BA: Basis

Unit (mm)



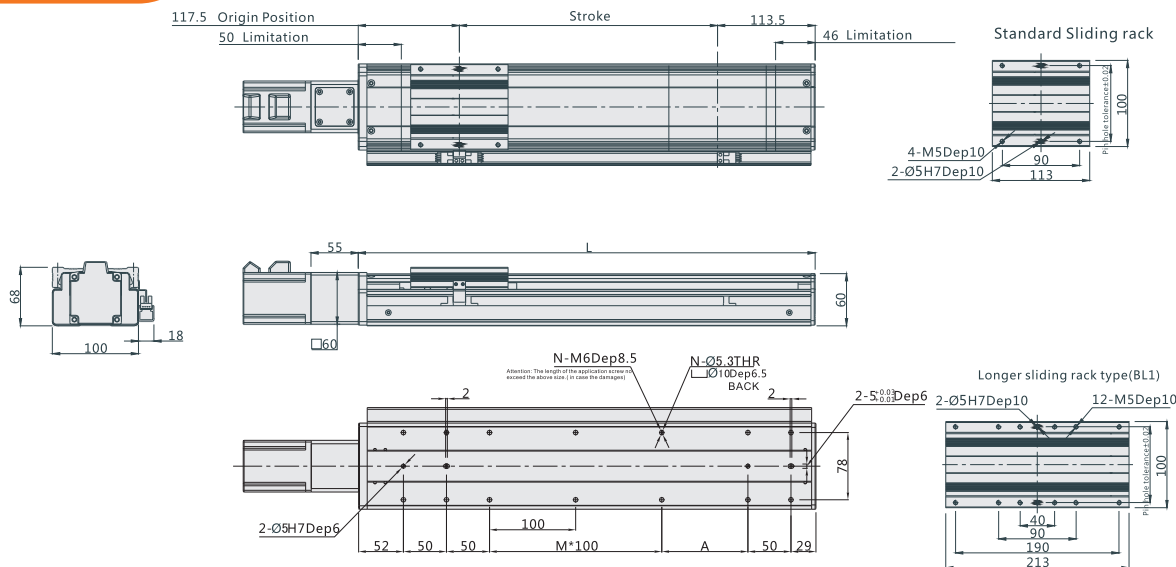
Note: Not including motor weight , in case special stroke please contact technical services .

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4.1	4.5	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.3

*Products with color are available stock and short lead time.

BC: External

Unit (mm)



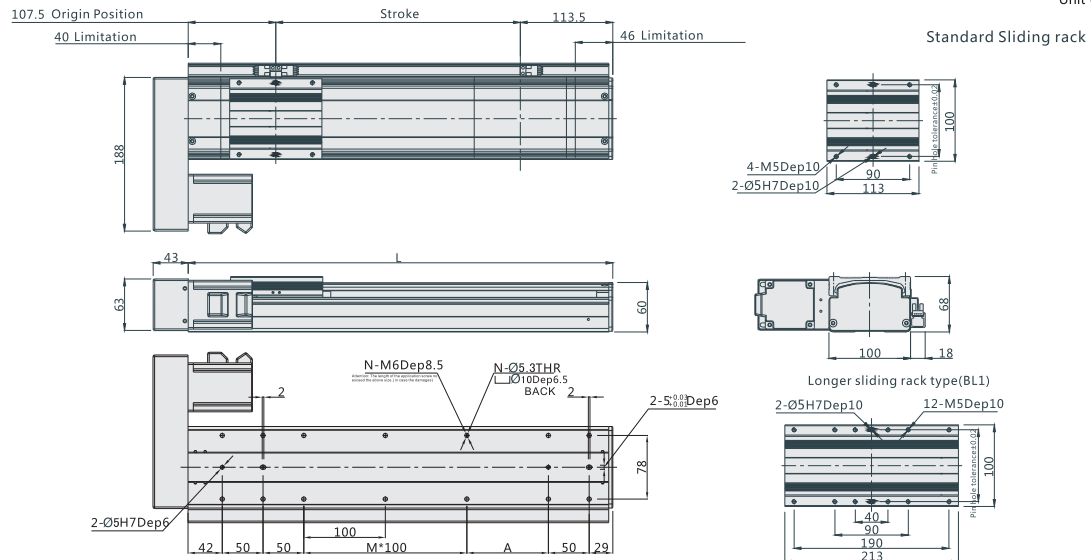
Note: Not including motor weight , in case special stroke please contact technical services .

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



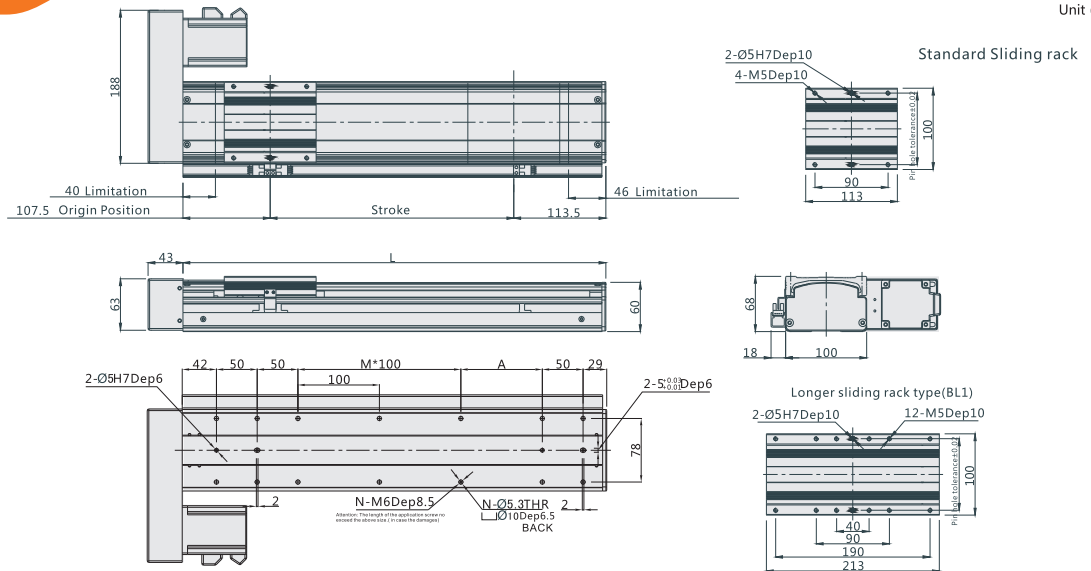
Note: Not including motor weight, in case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	321	371	421	471	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2

*Products with color are available stock and short lead time.

BR: Right Side

Unit (mm)



Note: Not including motor weight, in case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	321	371	421	471	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2

*Products with color are available stock and short lead time.

Unit (mm)

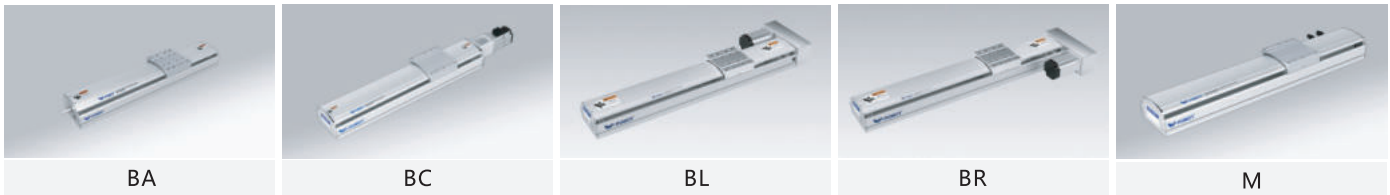


Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.3	11.7	12.1

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

VF12 — L16 — P — S100 — BC — ZP20B — C3 —

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
V	Vseries	L5	5mm	P	High precision	100-1200	BA	Basis	P	Panasonic	20	200W	External		External		No	Standard type
F	Semiclosed with Frame Ball Screw Drive	L10	10mm	C	Common precision		BC	External	M	Mitsubishi	40	400W	C	Motor side	2	2pcs	BL1	Detailed information please see page032
12	Body width120	L16	16mm				BR	Right Side	Y	Yaskawa	57	57-Ø8	D	Oppsite motor side	3	3pcs	B2	
		BL	Left Side				T	Delta	57-Ø6.35	E		No	No sensor	D01				
		M	Build-In Motor				W	W-Robot	Brakes						U01			
						* For Z: Motor is from clients			No	No brake			UD01					
									B	With brake			H01					
													HU01					
													HD01					
													HUD01					
													M01					
													S01					

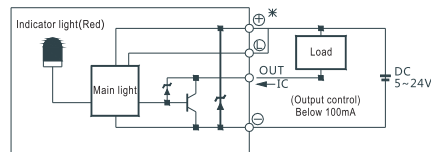
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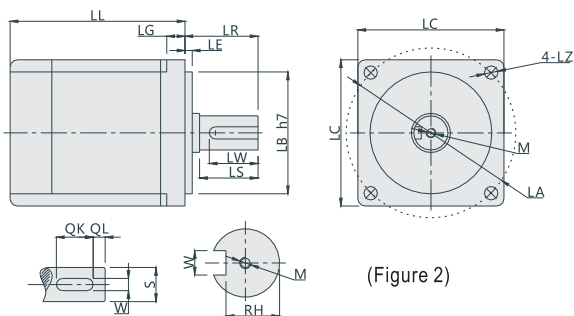
Specification

Motor power AC (W)	200W/400W			
BallScrewØ	(C7)	16		
	(C5)	16		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	800	1000
Maximum Payload(kg)	Horizontal	70/84	47/56	30/36
	Vertical	17/20	12/17	6/7
Rated Thrust(N)	683/1388	341/694	213/433	174/347
Linear Guide (mm)	15x12.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	11x10	14x10	14x10	
Motor Output	200W		400W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if longer travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

Servo Motor Matches List

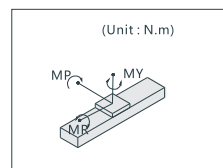
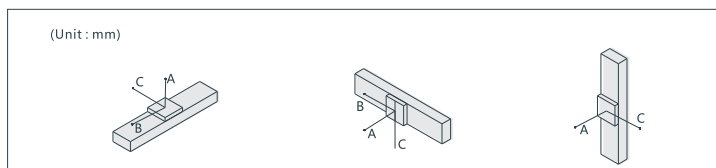
(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

□ Stand for empty

Max. Payload Diameters Table

Max. Static Torque Table

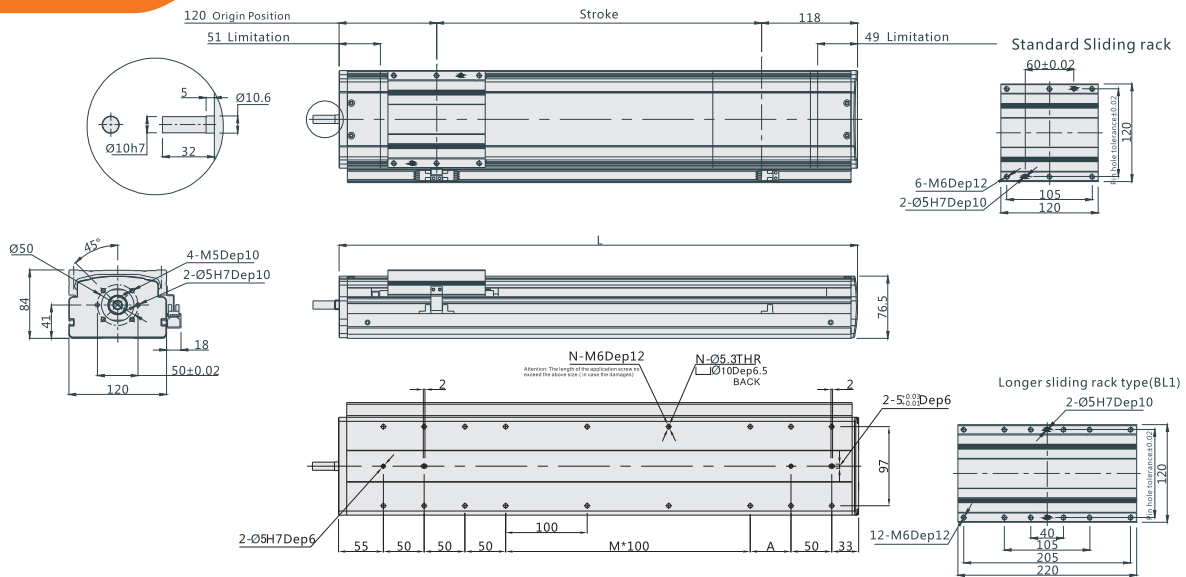


Horizontal installation					A	B	C	Wall installation					A	B	C	Vertical installation				A	C
Lead 5	40kg	2448	316	322	Lead 5	40kg	204	112	1394	Lead 5	5kg	762	614	Lead 10	4kg	1365	1101	Lead 16	1kg	1087	1217
	55kg	2197	247	257		55kg	130	57	1115		10kg	607	489		2kg	997	805				
	70kg	2005	207	219		70kg	85	24	895		12kg	498	493		6kg	747	603				
Lead 10	25kg	1958	370	490	Lead 10	25kg	414	333	1277	Lead 10	4kg	1365	1101	Lead 10	4kg	1365	1101	Lead 16	1kg	1087	1217
	35kg	1660	370	330		35kg	235	157	929		6kg	901	727		2kg	997	805				
	47kg	1725	247	243		47kg	129	57	751		8kg	674	543		6kg	747	603				
Lead 16	10kg	1800	1400	311	Lead 16	10kg	461	372	1410	Lead 16	1kg	1087	1217	Lead 16	1kg	1087	1217	Lead 16	1kg	1087	1217
	20kg	1100	1100	139		20kg	264	178	1027		2kg	997	805		2kg	997	805		2kg	997	805
	30kg	1047	445	324		30kg	148	69	832		6kg	747	603		6kg	747	603		6kg	747	603

Maximum static torque	
MY	174
MP	175
MR	153

BA: Basis

Unit (mm)



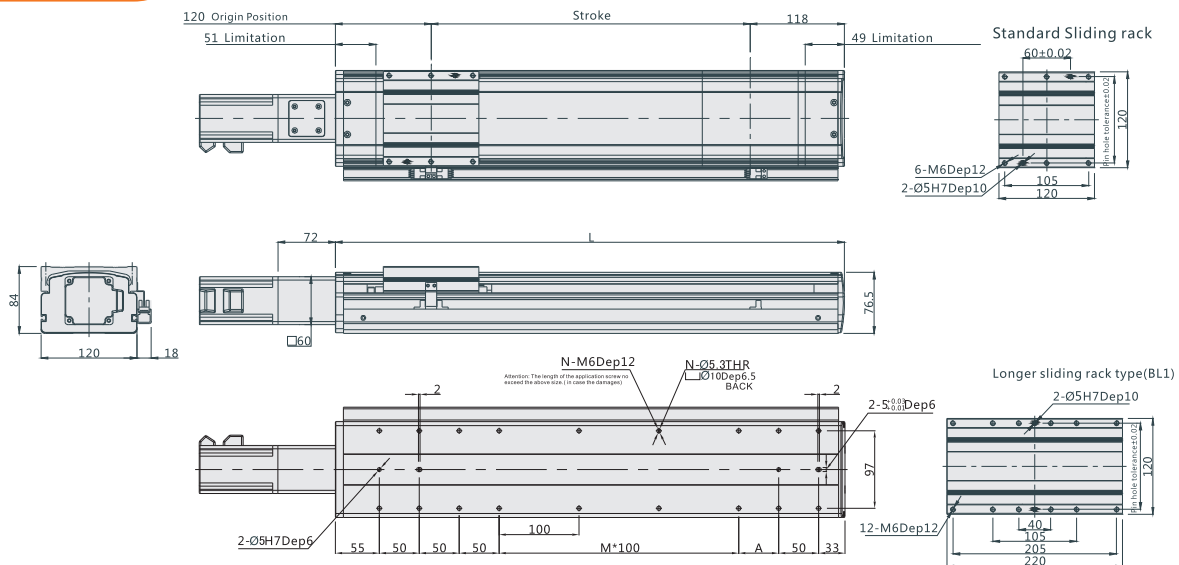
Note: Not including motor weight , in case special stroke please contact technical services. .

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9

*Products with color are available stock and short lead time.

BC: External

Unit (mm)



Note: Not including motor weight , in case special stroke please contact technical services. .

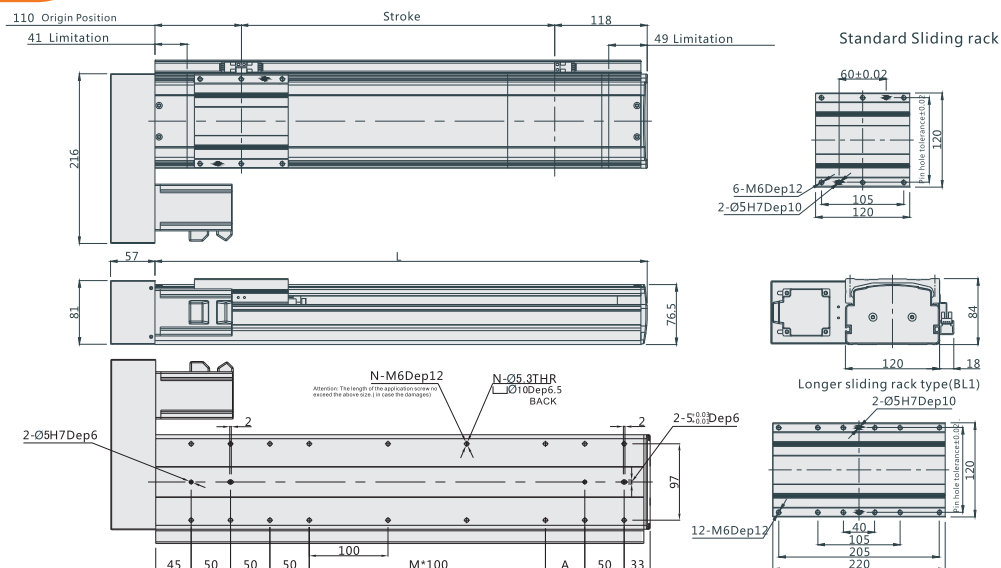
Note: Increasing the length of sliding rack will cause the changing of stroke and original sensor position.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



Note: Not including motor weight , in case special stroke please contact technical services. .

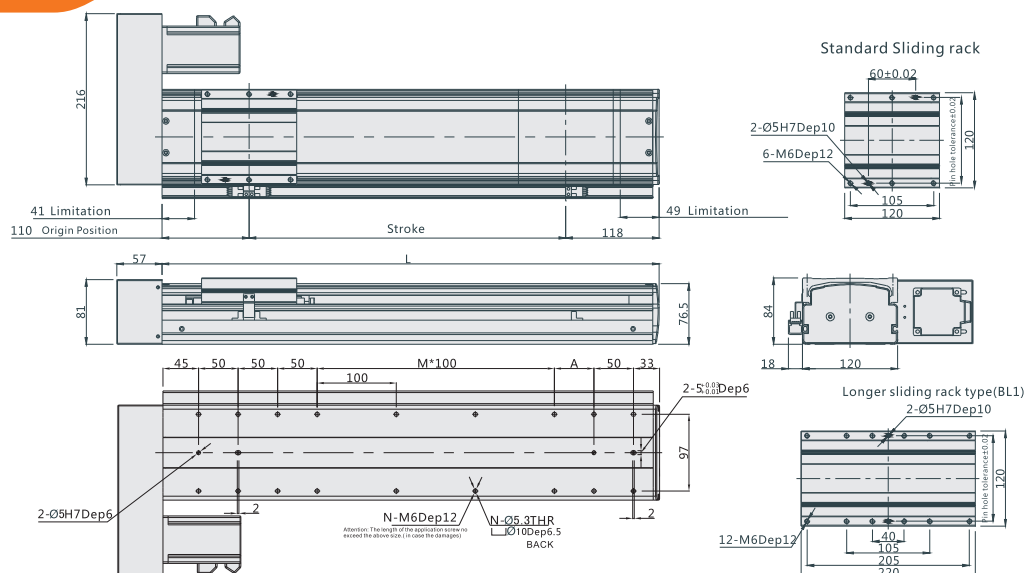
Note: Increasing the length of sliding rack will cause the changing of stroke and original sensor position.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3

*Products with color are available stock and short lead time.

BR: Right Side

Unit (mm)



Note: Not including motor weight , in case special stroke please contact technical services. .

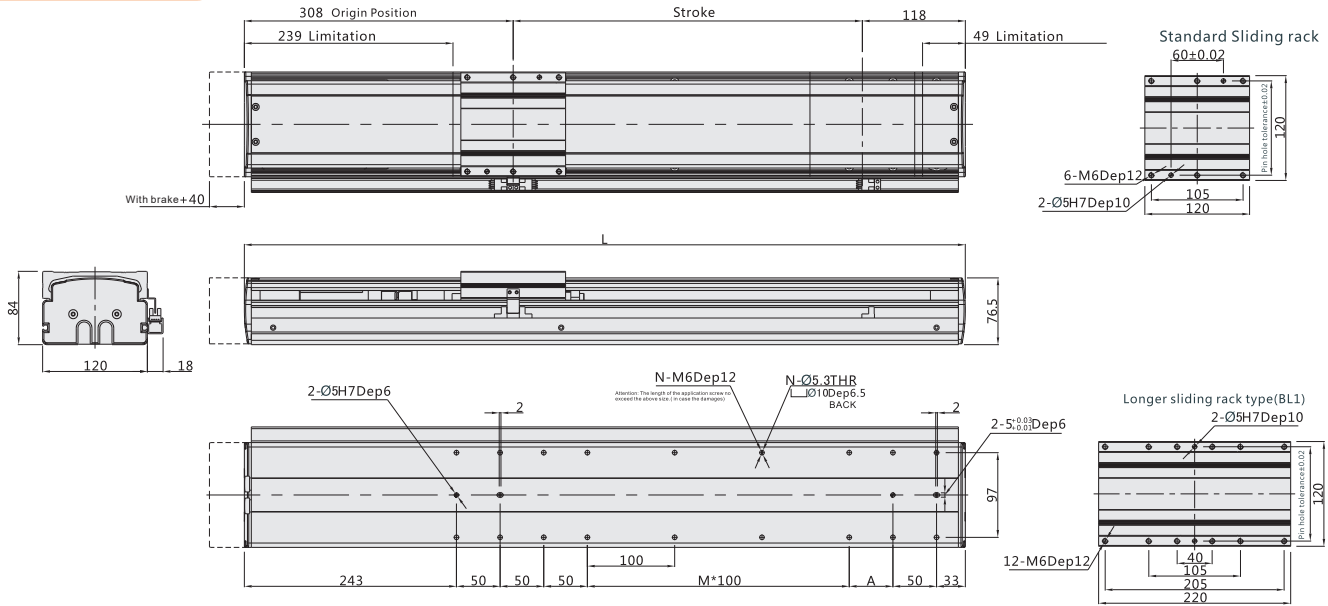
Note: Increasing the length of sliding rack will cause the changing of stroke and original sensor position.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3

*Products with color are available stock and short lead time.

M: Built-in

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9

*Products with color are available stock and short lead time.



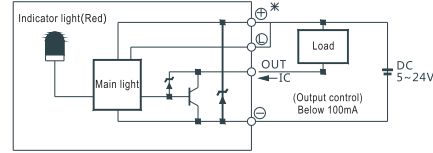
BA	BC	BL	BR	M

VF14 – L20 – P – S100 – BC – ZP40B – C3 –

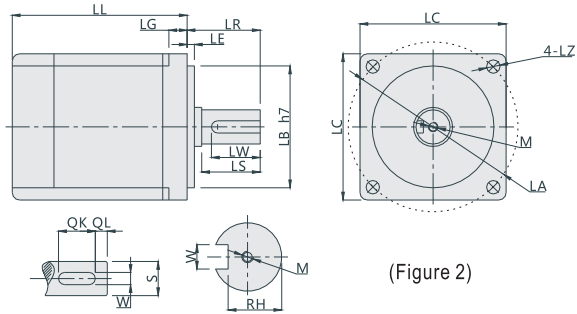
Specification

Motor power AC (W)	400W/750W			
BallScrewØ	(C7)	20		
	(C5)	20		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	20	40
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1000	2000
Maximum Payload(kg)	Horizontal	110/115	100/105	70/80
	Vertical	40/45	29/35	14/20
RatedThrust(N)	1388/2565	694/1281	347/640	170/320
Linear Guide (mm)	20x15.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	14x12	19x12		
Motor Output	400W	750W		
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

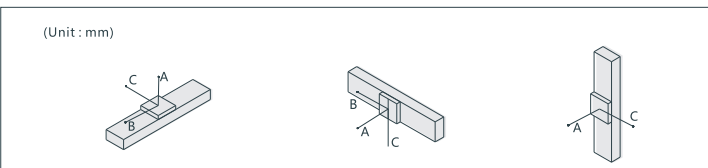
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

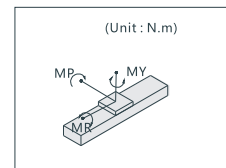
□ Stand for empty

Max. Payload Diameters Table



Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	55kg	2235	327	433	Lead 5	55kg	378	263	1829	Lead 5	15kg	1133	915
	95kg	1500	156	249		95kg	208	124	1497		25kg	908	743
	115kg	1385	152	202		115kg	163	89	1377		45kg	745	722
Lead 10	55kg	1830	321	428	Lead 10	55kg	400	265	1831	Lead 10	10kg	1334	1334
	70kg	1508	190	252		70kg	220	135	1508		20kg	788	788
	90kg	1389	156	206		90kg	173	100	1389		35kg	563	563
Lead 20	25kg	1989	675	746	Lead 20	25kg	737	612	1930	Lead 20	1kg	1265	1265
	45kg	1332	395	445		45kg	427	332	1260		5kg	1114	1114
	78kg	1047	238	201		78kg	253	174	944		20kg	489	489

Max. Static Torque Table



Maximum static torque	
MY	784
MP	788
MR	691

Unit (mm)



Working 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	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788
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	14
N	12	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	40
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	50	100	50	100
Weight KG	9.4	10.1	10.8	11.5	12.2	12.9	13.6	14.3	15	15.7	16.4	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	29

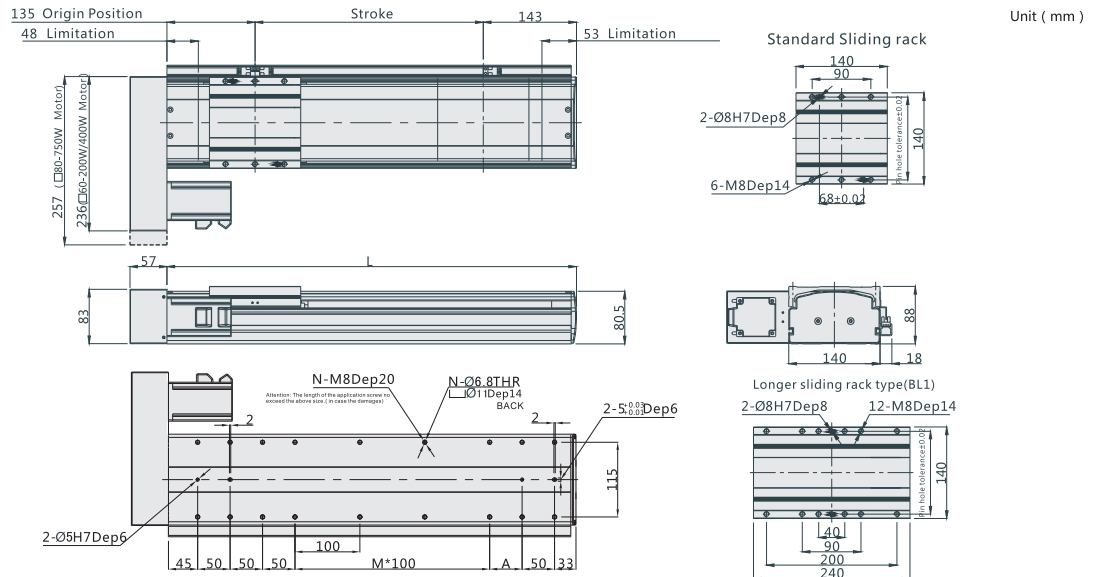
Unit (mm)



Working 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	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788
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	14
N	12	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	40
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	50	100	50	100
Weight KG	10.1	10.8	11.5	12.2	12.9	13.6	14.3	15	15.7	16.4	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	29	29.7

067

BL: Left Side

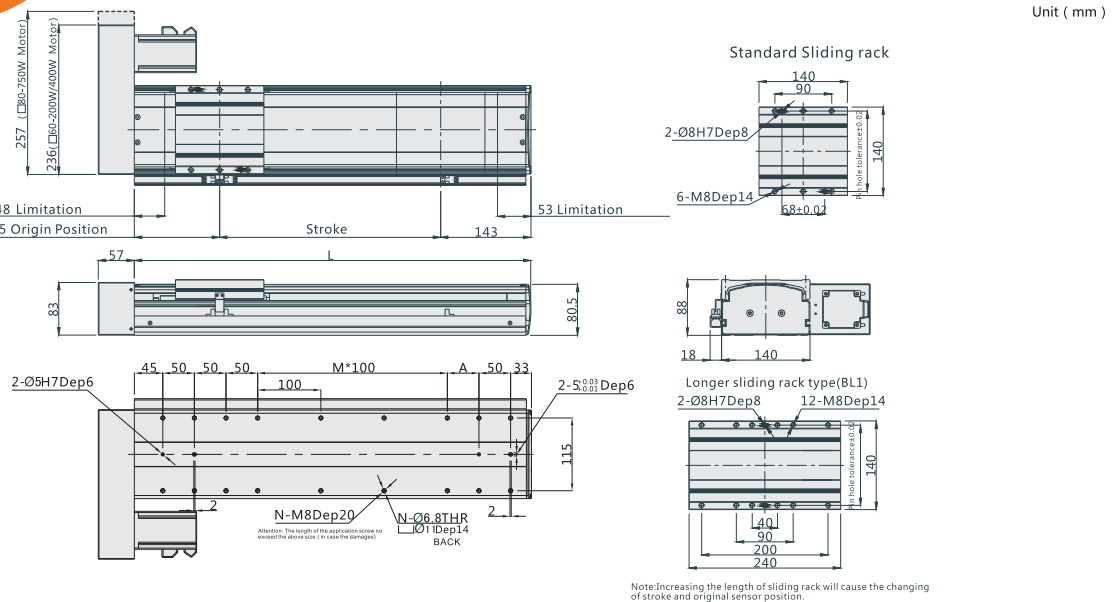


Note: Not including motor weight , in case special stroke please contact technical services.

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
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	14
N	12	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	40
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	50	100	50	100
Weight KG	11	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

*Products with color are available stock and short lead time.

BR: Right Side



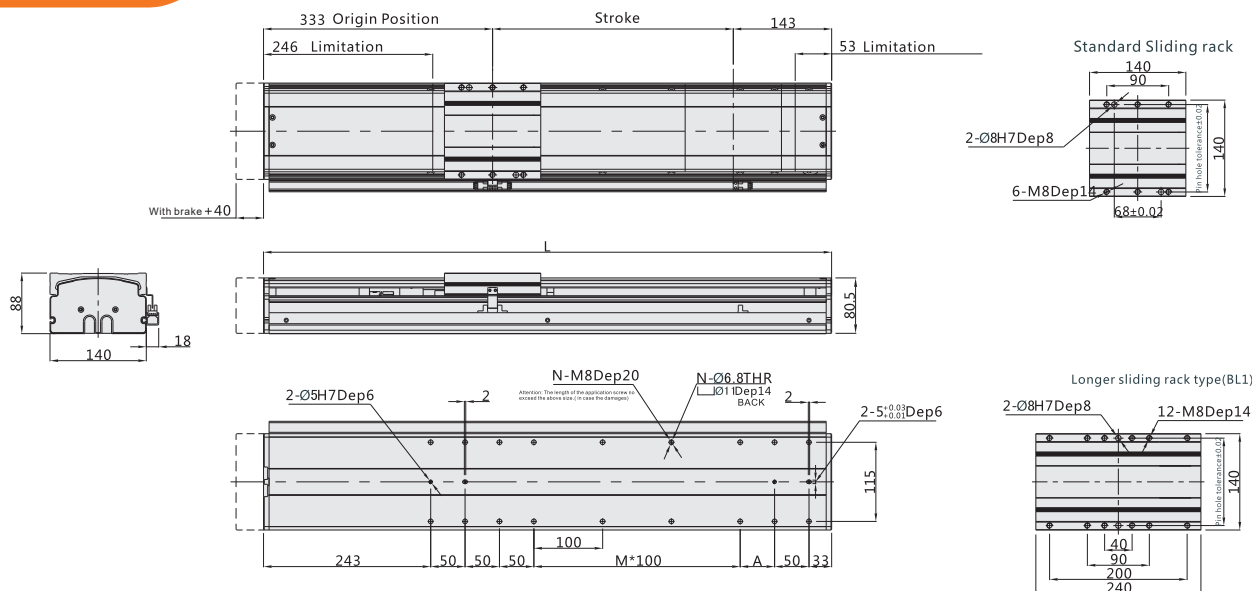
Note: Not including motor weight , in case special stroke please contact technical services.

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
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	14
N	12	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	40
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	50	100	50	100
Weight KG	11	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

*Products with color are available stock and short lead time.

M:Built-in

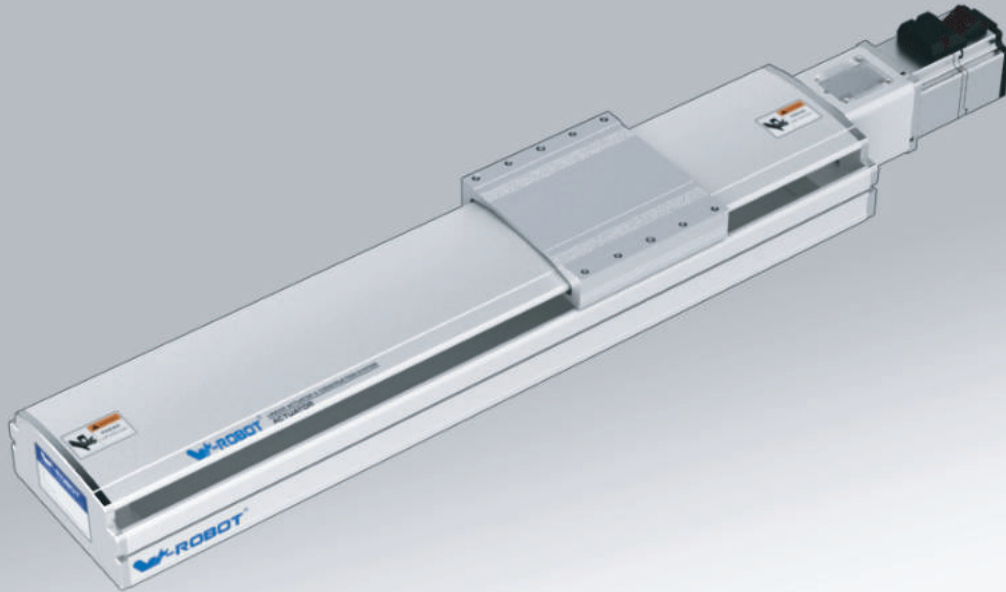
Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726	1776	1826	1876	1926	1976
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	14
N	12	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	40
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	50	100	50	100
Weight KG	10.8	11.5	12.2	12.9	13.6	14.3	15	15.7	16.4	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	29	29.7	30.4

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

VF17 — L20 — P — S100 — BC — ZP75B — C3 —

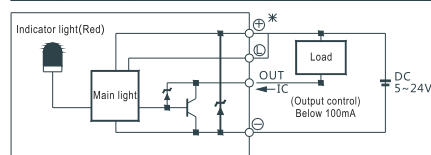
Base Style		Ball Screw Lead		Accuracy class	Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
V	Vseries	L5	5mm	P High precision	100-1500	BA	Basis	P	Panasonic	40	400W	External		External		No	Standard type
F	Semiclosed with Frame Ball Screw Drive	L10	10mm	C Common precision		BC	External	M	Mitsubishi	75	750W	C	Motor side	2	2pcs	BL1	Detailed information please see page032
17	Body width170	L20	20mm			BR	Right Side	Y	Yaskawa	Brakes		D	Oppsite motor side	3	3pcs	B2	
		L40	40mm			BL	Left Side	T	Delta	No	No brake	E	No	No sensor		D01	
						M	Build-In Motor	W	W-Robot	B	With brake	Sensor type				U01	
																UD01	
												No	NPN			H01	
												P	PNP			HU01	
																HD01	
																HUD01	
																M01	
																S01	

* For Z: Motor is from clients

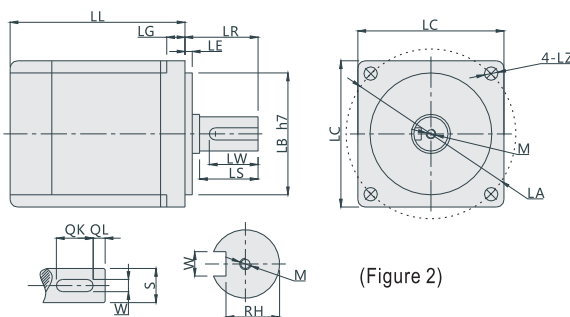
Specification

Motor power AC (W)	400W/750W			
BallScrewØ	(C7)	20		
	(C5)	20		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	20	40
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1000	2000
Maximum Payload(kg)	Horizontal	120/120	105/115	75/83
	Vertical	45/50	35/40	20/25
RatedThrust(N)	1388/2563	694/1281	347/640	170/320
Linear Guide (mm)	20x15.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	11x12	14x12	14x12	16x12
Motor Output	200W	400W	750W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm,if logner travel needed,it will be lower.In case stroke over 600 will lead to swing of ball screw,please slow down the speed 15%.Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

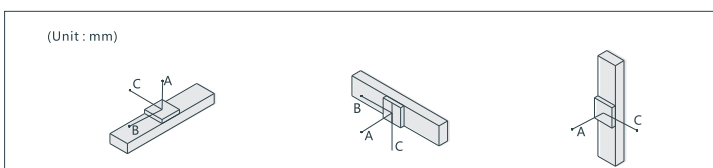
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

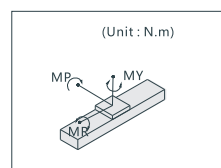
□ Stand for empty

Max. Payload Diameters Table



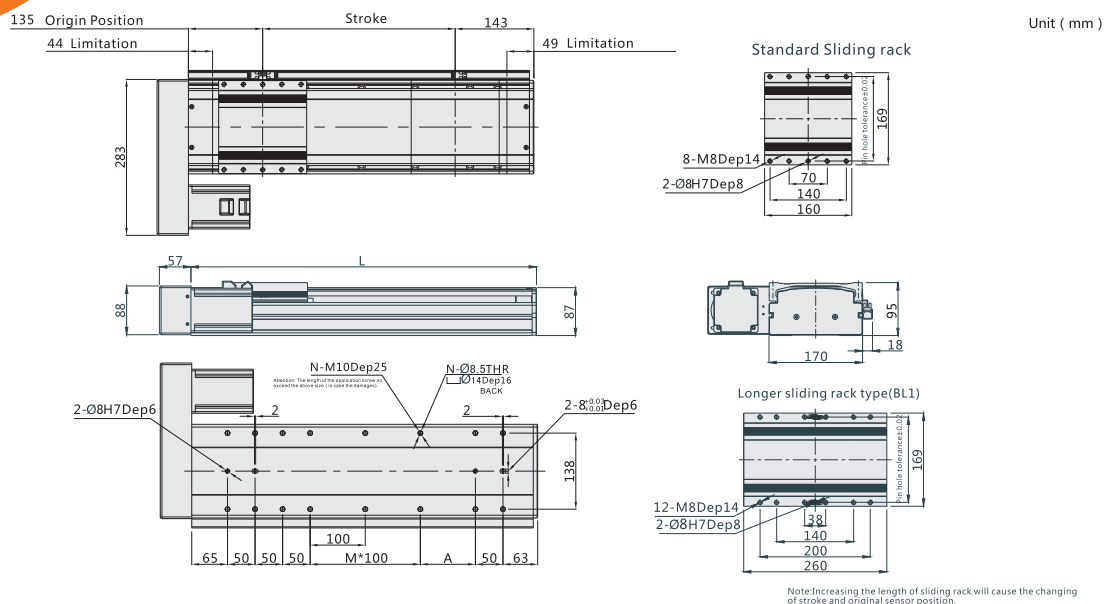
Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	60kg	2980	435	577	Lead 5	60kg	530	350	2438	Lead 5	20kg	1510	1220
	100kg	2000	207	331		100kg	277	165	1995		30kg	1210	990
	120kg	1846	202	269		120kg	215	118	1836		50kg	992	962
Lead 10	60kg	2440	428	570	Lead 10	60kg	533	353	2441	Lead 10	15kg	1778	1778
	75kg	2010	253	336		75kg	293	179	2010		25kg	1050	1050
	95kg	1851	207	274		95kg	230	133	1851		40kg	750	750
Lead 20	30kg	2652	899	994	Lead 20	30kg	982	815	2573	Lead 20	5kg	1700	1700
	50kg	1775	526	593		50kg	569	442	1680		10kg	2202	2202
	83kg	1396	317	267		83kg	337	232	1258		25kg	1485	1485

Max. Static Torque Table



Maximum static torque	
MY	1032
MP	1034
MR	908

BL: Left Side

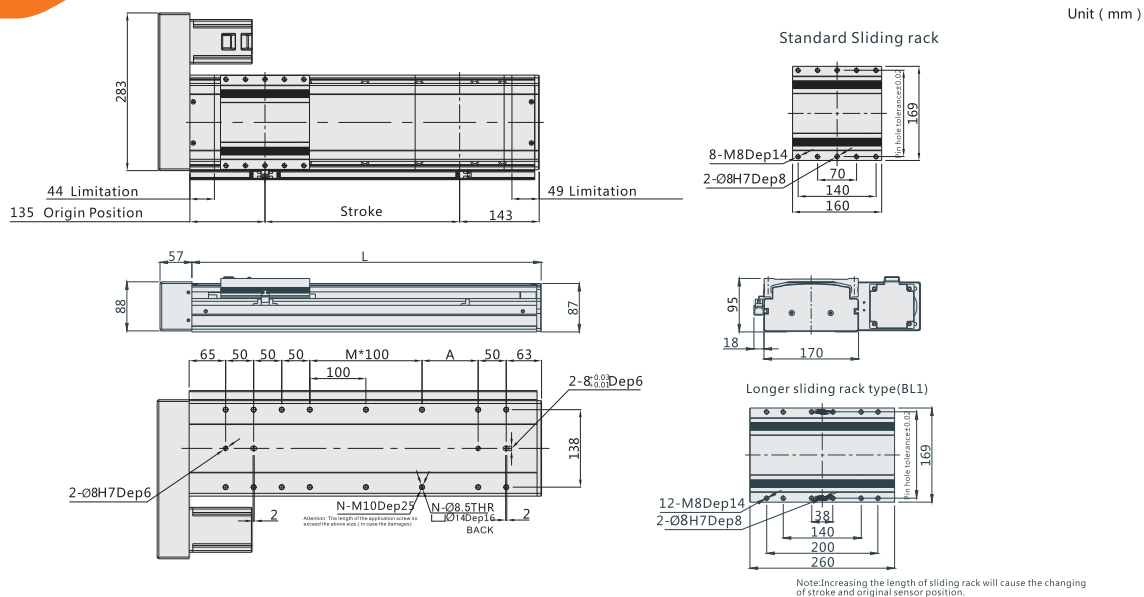


Note: Not including motor weight , in case special stroke please contact technical services .

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19	19.7	20.4	21.1	21.8	22.5	23.2	23.9	24.6	25.3	26	26.7	27.4	28.1	28.8	29.5	30.2	30.9	31.6	32.4	33	33.7

*Products with color are available stock and short lead time.

BR: Right Side



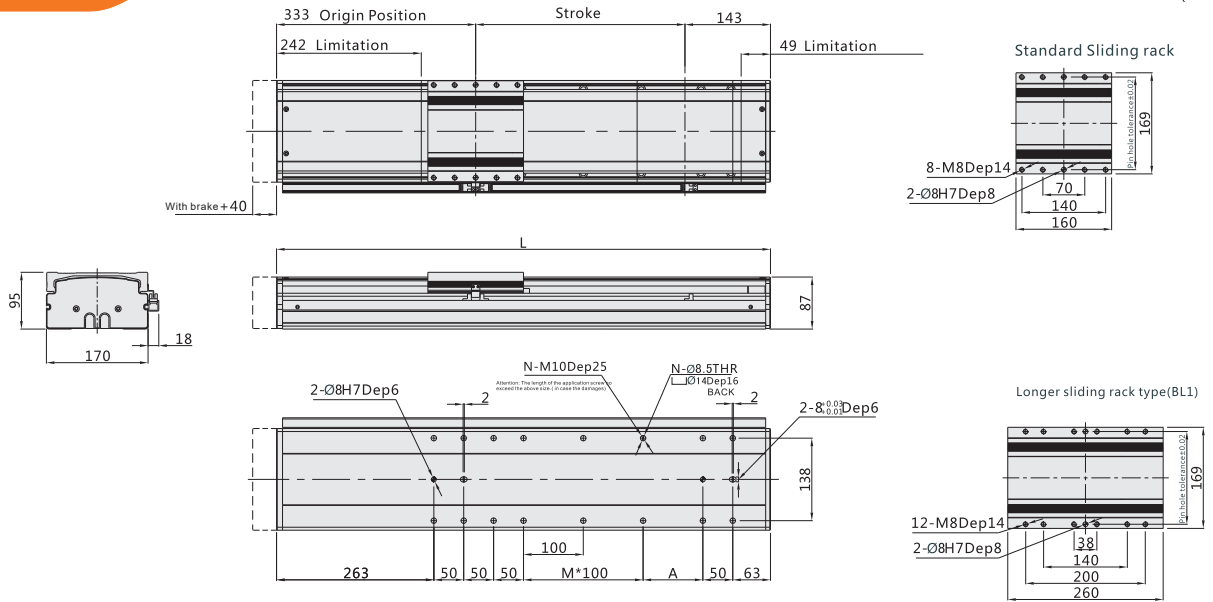
Note: Not including motor weight , in case special stroke please contact technical services .

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19	19.7	20.4	21.1	21.8	22.5	23.2	23.9	24.6	25.3	26	26.7	27.4	28.1	28.8	29.5	30.2	30.9	31.6	32.4	33	33.7

*Products with color are available stock and short lead time.

M: Built-in

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Note: Increasing the length of sliding rack will cause the changing of stroke and original sensor position.

Working 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	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726	1776	1826	1876	1926	1976
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	12.8	13.5	14.2	14.9	15.6	16.3	17	17.7	18.4	19.1	19.8	20.5	21.2	21.9	22.6	23.3	24	24.7	25.4	26.1	26.8	27.5	28.2	28.9	29.6	30.3	31	31.7	32.4

*Products with color are available stock and short lead time.

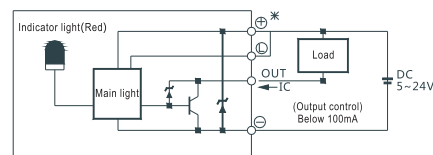


VF22 – L25 – P – S100 – BC – ZP75B – C3 –

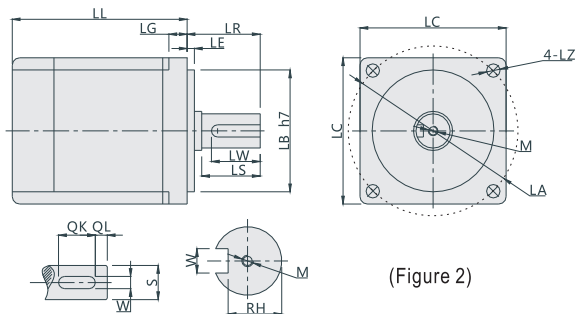
Specification

Motor power AC (W)	750W		
BallScrewØ(mm)	(C7)	25	
	(C5)	25	
Repeatability(mm)	(C7)	±0.01	
	(C5)	±0.006	
BallScrew Lead(mm)	5	10	25
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1250
Maximum Payload(kg)	Horizontal	150	140
	Vertical	65	54
RatedThrust(N)	2100	1050	420
Linear Guide (mm)	23x18 -2		
Coupling (mm) (Motor side) x (Ball Screw Side)	19x16		
Motor Output	750W		
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if longer travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

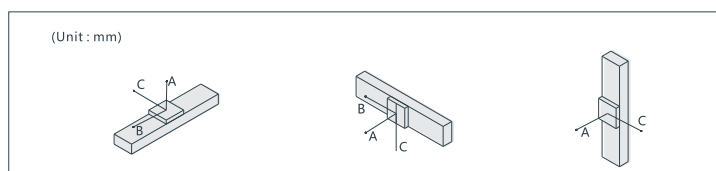
Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-

□ Stand for empty

Max. Payload Diameters Table

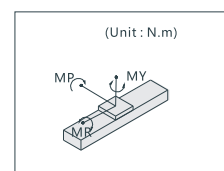


(Unit : mm)				
Horizontal installation	A	B	C	
Lead 5	60kg	3672	653	866
	100kg	3000	370	497
	150kg	2493	273	363
Lead 10	60kg	2652	899	994
	100kg	1775	526	593
	150kg	1396	317	267
Lead 25	50kg	2862	956	1191
	80kg	2412	581	773
	120kg	2025	373	556

Wall installation				
	A	B	C	
Lead 5	60kg	795	525	3657
	100kg	416	248	2993
	150kg	290	159	2479
Lead 10	60kg	982	815	2573
	100kg	569	442	1680
	150kg	337	232	1258
Lead 25	50kg	1207	879	2862
	80kg	779	504	2412
	120kg	515	295	2025

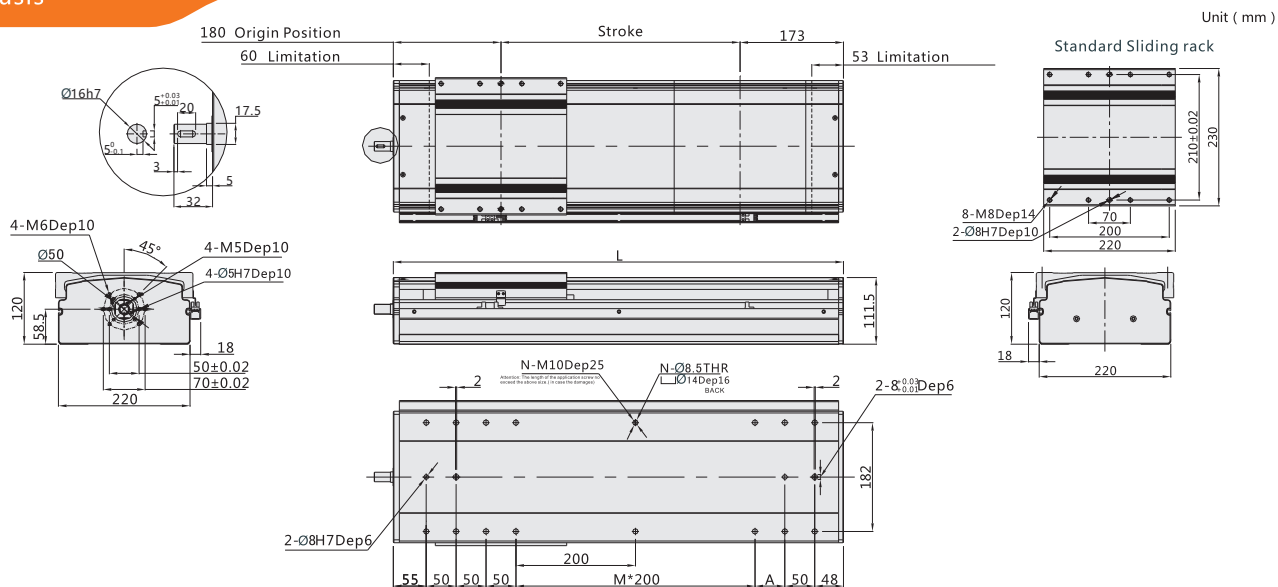
Vertical installation				
	A	C		
Lead 5	30kg	2688	2688	
	50kg	1893	1893	
	70kg	1640	1640	
Lead 10	20kg	2297	2297	
	30kg	1518	1518	
	45kg	999	999	
Lead 25	15kg	2767	2767	
	20kg	2100	2100	
	25kg	1702	1702	

Max. Static Torque Table



Maximum static torque	
MY	2052
MP	2052
MR	1810

BA: Basis

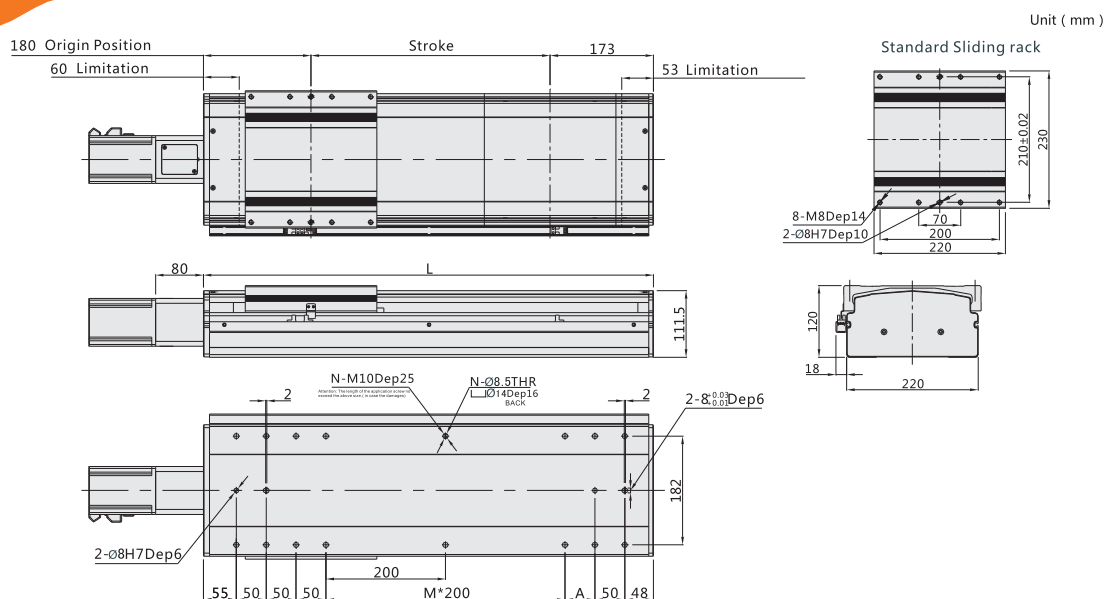


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803	1853
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	16.2	18.4	20.7	22.9	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	53.4

*Products with color are available stock and short lead time.

BC: External

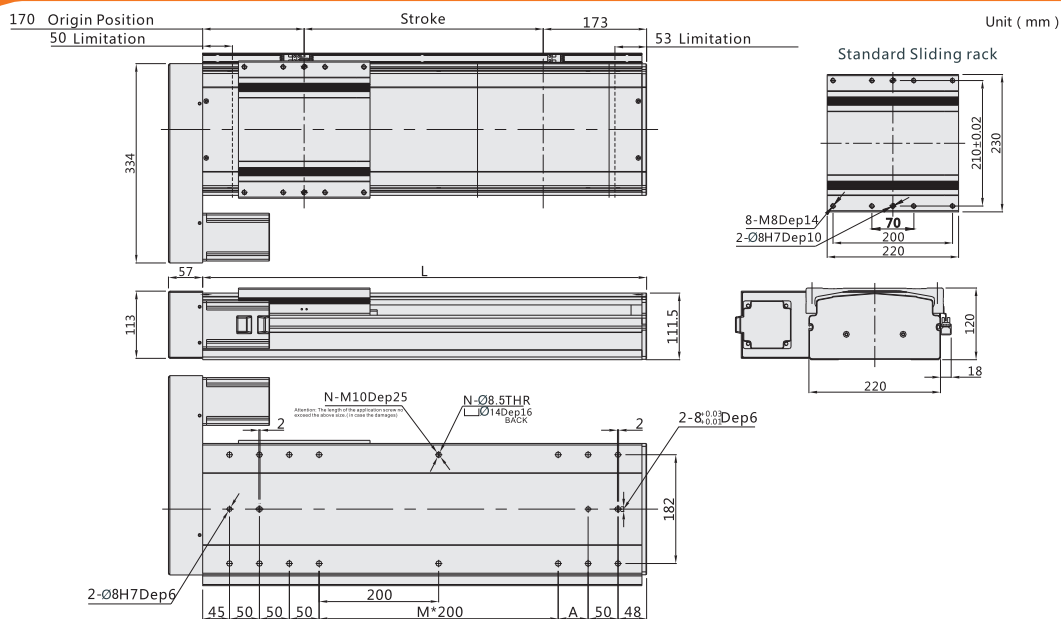


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803	1853
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	18.4	20.7	22.9	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	53.4	54.6

*Products with color are available stock and short lead time.

BL: Left Side

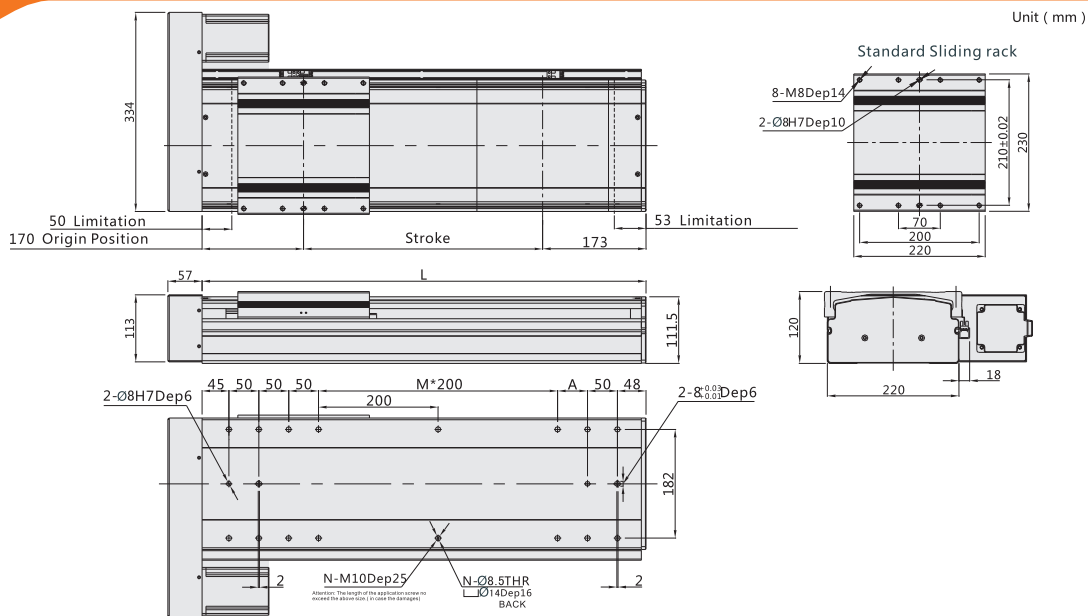


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	18.4	20.7	22.9	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	53.4	54.6

*Products with color  are available stock and short lead time.

BR: Right Side

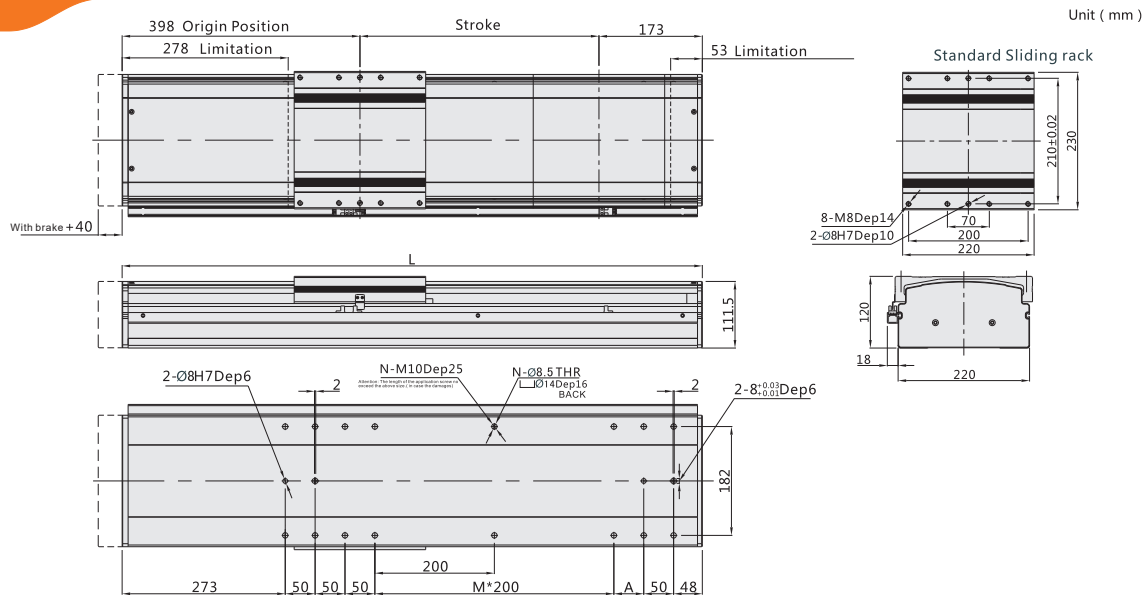


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	18.4	20.7	22.9	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	53.4	54.6

*Products with color  are available stock and short lead time.

M:Built-in



Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921	1971	2021	2071
M	0	0	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	20.7	22.9	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	53.4	54.6	55.8

*Products with color are available stock and short lead time.

Linear Stage Series

Timing Belt Drive General Environment

Standard Type

VBF10



Maximum Stroke 3000mm
Maximum Payload 15KG082
Body Width 100mm

Standard Type

VBF12



Maximum Stroke 3500mm
Maximum Payload 30KG 087
Body Width 120mm

VBF14



Maximum Stroke 3500mm
Maximum Payload 40KG 092
Body Width 140mm

Large Type

VBF17

Long stroke



Maximum Stroke 3500mm
Maximum Payload 55KG097
Body Width 170mm

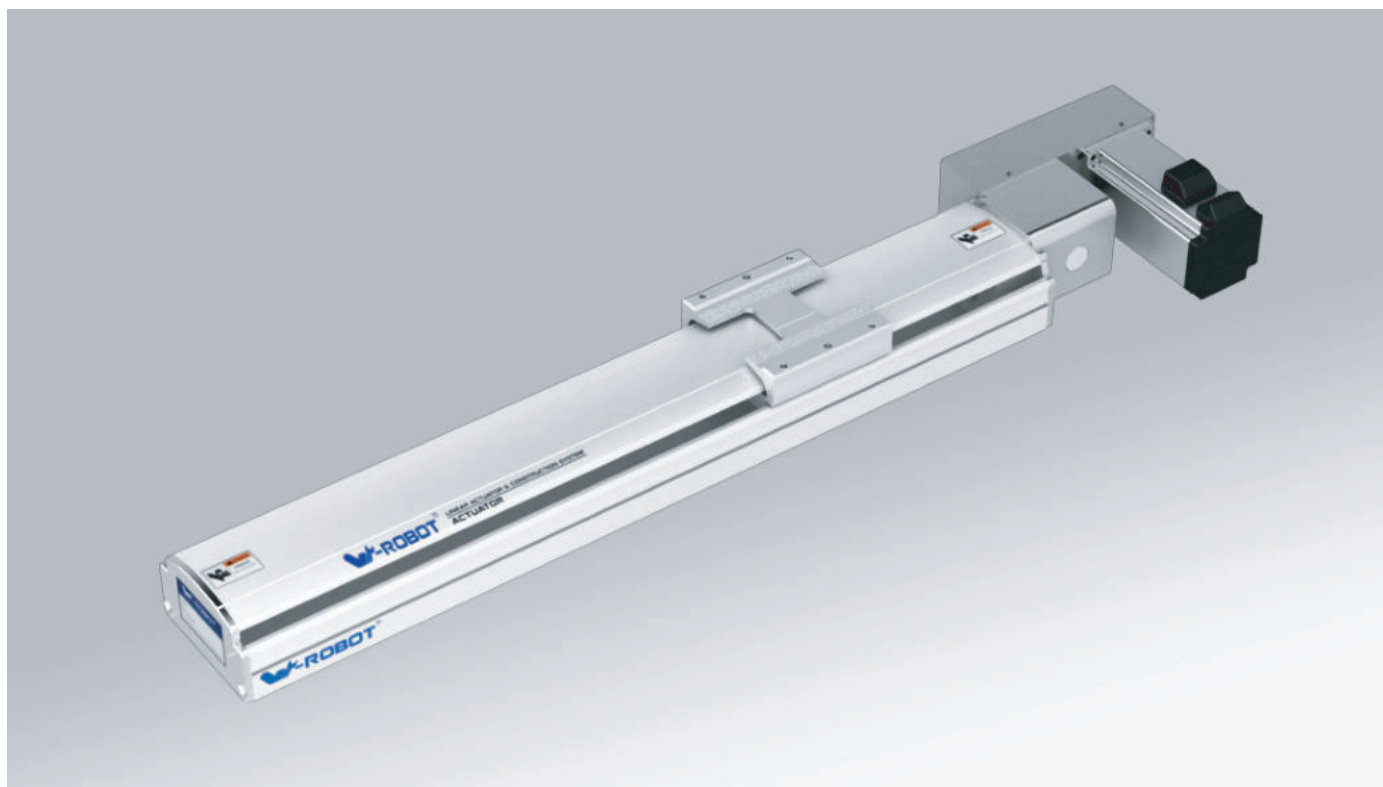
Large Type

VBF22

Long stroke



Maximum Stroke 4000mm
Maximum Payload 85KG102
Body Width 220mm



Motor direction



Guide for Model Selection

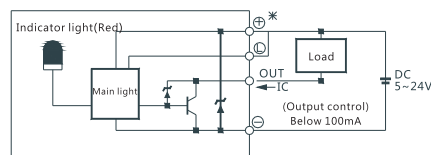
VBF10 — L45 — S100 — BL — ZP20B — C3 —

Base Style		Leather belt Type		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.	
V	V series	L	Clean belt	100-3000	BR	Right Side	P	Panasonic	20	200W	External		External		No	Standard type
BF	Semiclosed with Frame Belt Type	X	Rubber belt		BRU	Upper Right Side	M	Mitsubishi	40	400W	C	Motor side	2	2pcs	BL1	Detailed information please see page032
10	Body width100	45	45mm		BRD	Down Right Side	Y	Yaskawa	57	Stepper	D	Opposite motor side	3	3pcs	B2	
						BL	Left Side	T	Delta	Brakes		No		No sensor	D01	
						BLU	Upper Left Side	* For Z: Motor is from clients		No	No brake				U01	
						BLD	Down Left Side			B	With brake				UD01	
															H01	
															HU01	
															HD01	
															HUD01	
															M01	
															S01	

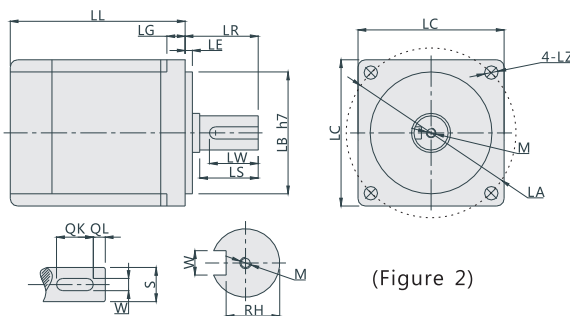
■ Specification

Motor power AC (W)	200W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	15
	Vertical	
RatedThrust(N)	85	
Linear Guide (mm)	15x 12.5-2	
Home Sensor	EE-SX672(NPN) EE-SX672P(PNP)	
	Outside Guide EE-SX674(NPN) EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



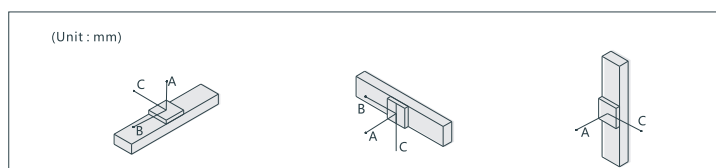
(Figure 2)

■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-

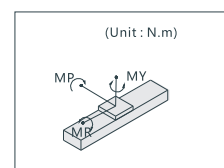
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
5kg	1400	750	600
8kg	1100	450	400
10kg	1000	350	350

Wall installation	A	B	C
5kg	660	500	1100
8kg	450	300	850
10kg	350	220	800

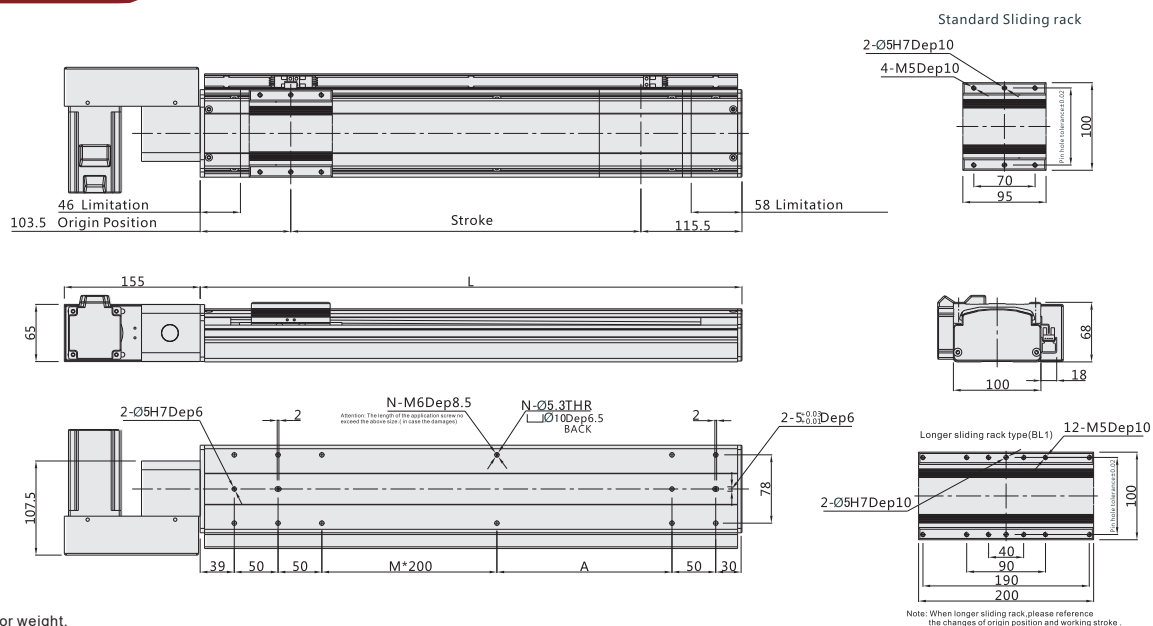
■ Max. Static Torque Table



Maximum static torque	
MY	131
MP	131
MR	115

BR: Right Side

Unit (mm)



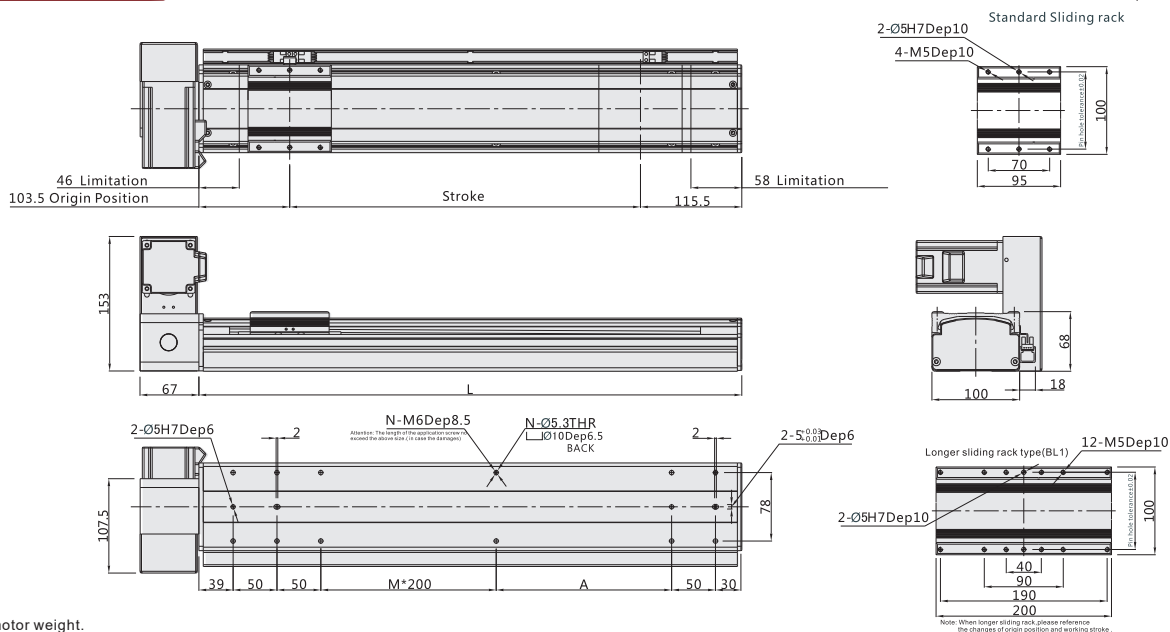
Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BRU: Upper Right Side

Unit (mm)

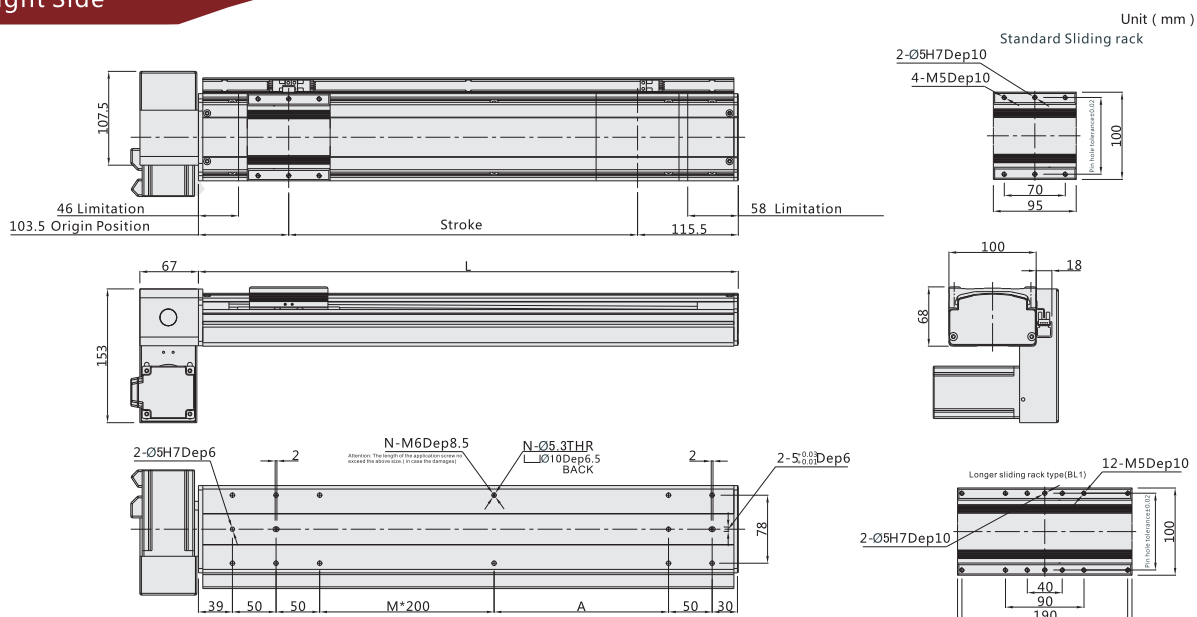


Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BRD: Down Right Side

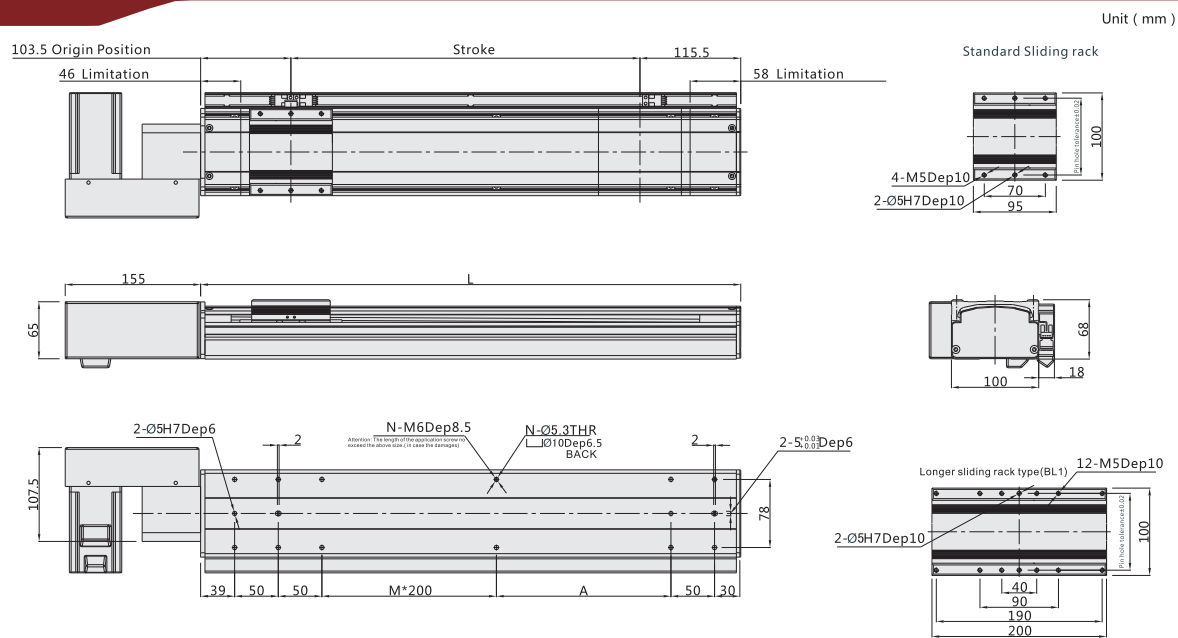


Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BL: Left Side



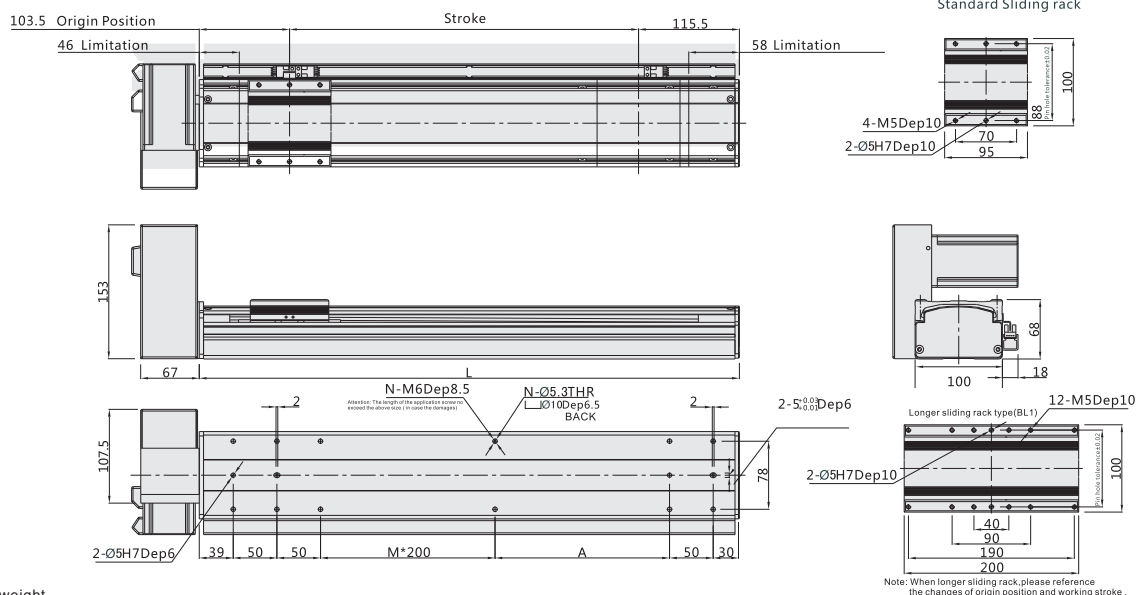
Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BLU: Upper Left Side

Unit (mm)



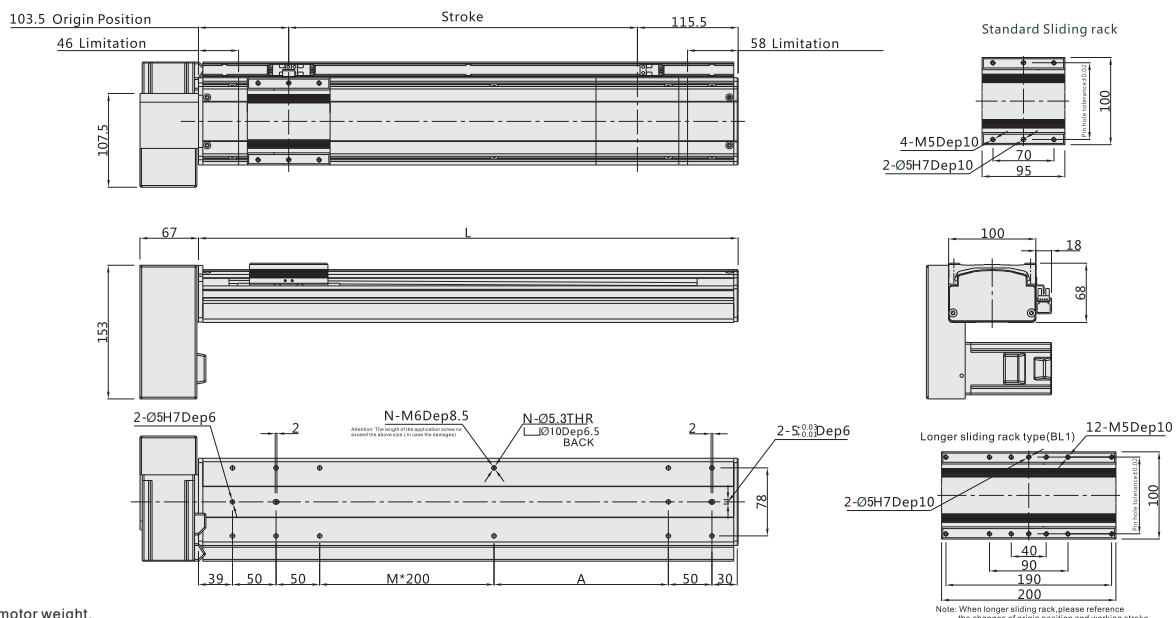
Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BLD: Down Left Side

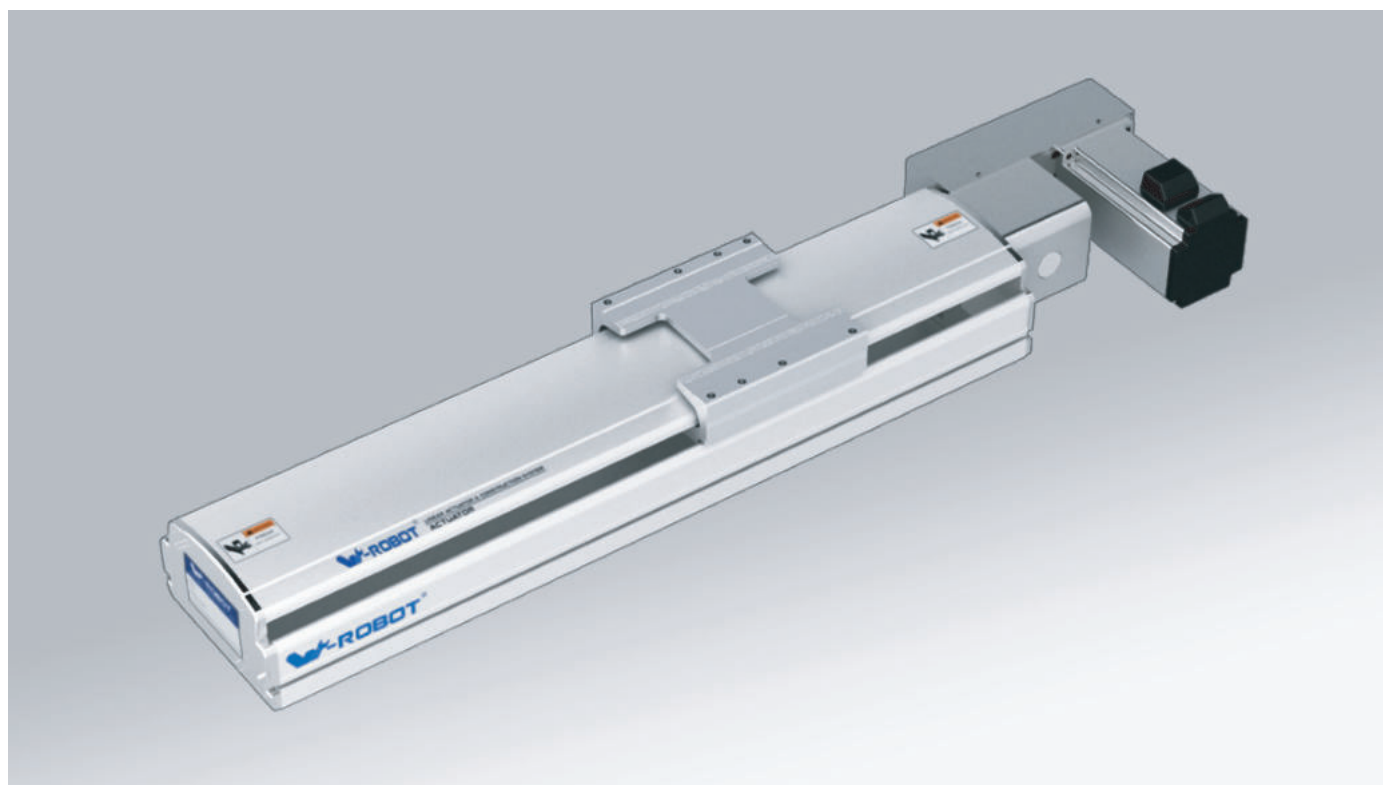
Unit (mm)



Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.



Motor direction



Guide for Model Selection

VBF12 — L45 — S100 — BL — ZP20B — C3 —

Base Style	
V	V series
BF	Semiclosed with Frame Belt Type
12	Body width 120

Leather belt Type	
L	Clean belt
X	Rubber belt
Lead	
45	45mm

Stroke(mm)
100-3500

Motor way	
BR	Right Side
BRU	Upper Right Side
BRD	Down Right Side
BL	Left Side
BLU	Upper Left Side
BLD	Down Left Side

Motor Type		Motor power	
P	Panasonic	20	200W
M	Mitsubishi	40	400W
Y	Yaskawa	57	57 Stepper
T	Delta	Brakes	
* For Z: Motor is from clients		No	No brake
		B	With brake

Original Sensor position		Sensor switch	
External		External	
C	Motor side	2	2pcs
D	Opposite motor side	3	3pcs
E	No	No sensor	

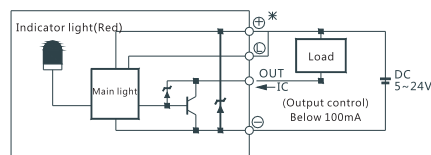
Sensor type	
No	NPN
P	PNP

Non-standard, d.c.	
No	Standard type
BL1	Detailed information please see page 032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

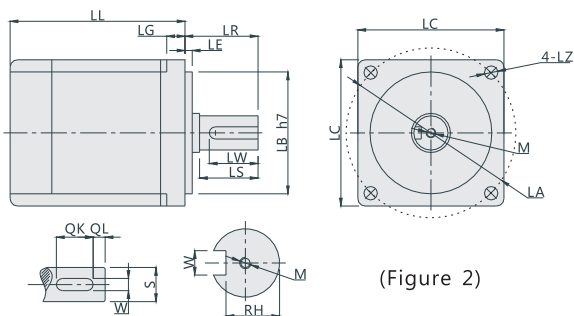
■ Specification

Motor power AC (W)	400W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	30
	Vertical	
RatedThrust(N)	170	
Linear Guide (mm)	15x 12.5-2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

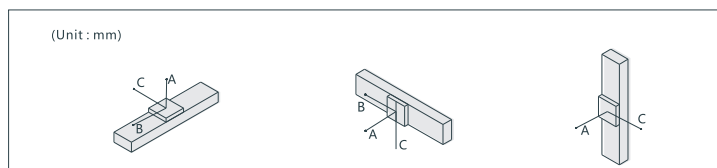
■ Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-

□ Stand for empty

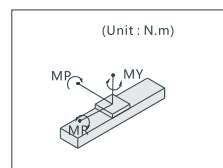
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	2700	1700	1050
20kg	2100	850	650
25kg	1700	600	500

Wall installation	A	B	C
10kg	1070	1200	2000
20kg	600	560	1500
25kg	410	350	1150

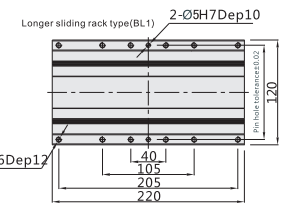
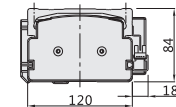
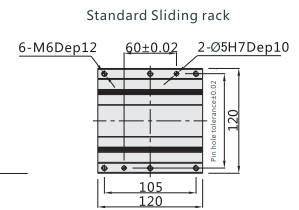
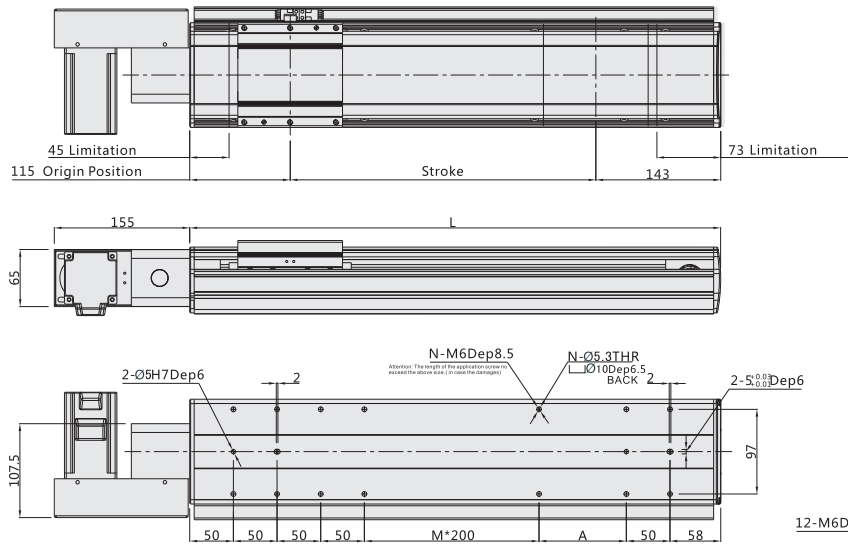
■ Max. Static Torque Table



Maximum static torque	
MY	174
MP	175
MR	153

BR: Right Side

Unit (mm)



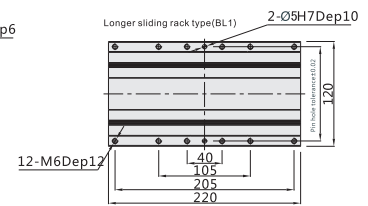
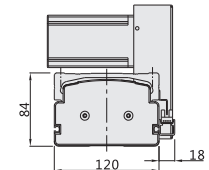
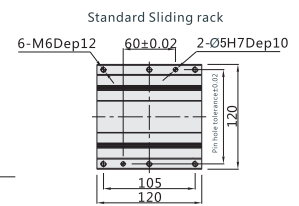
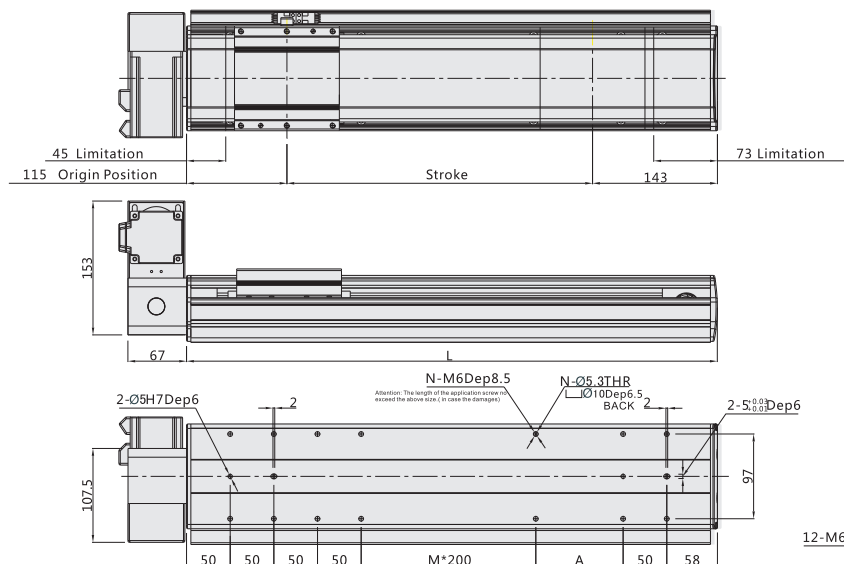
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1

*In case special stroke please contact technical services.

BRU: Upper Right Side

Unit (mm)



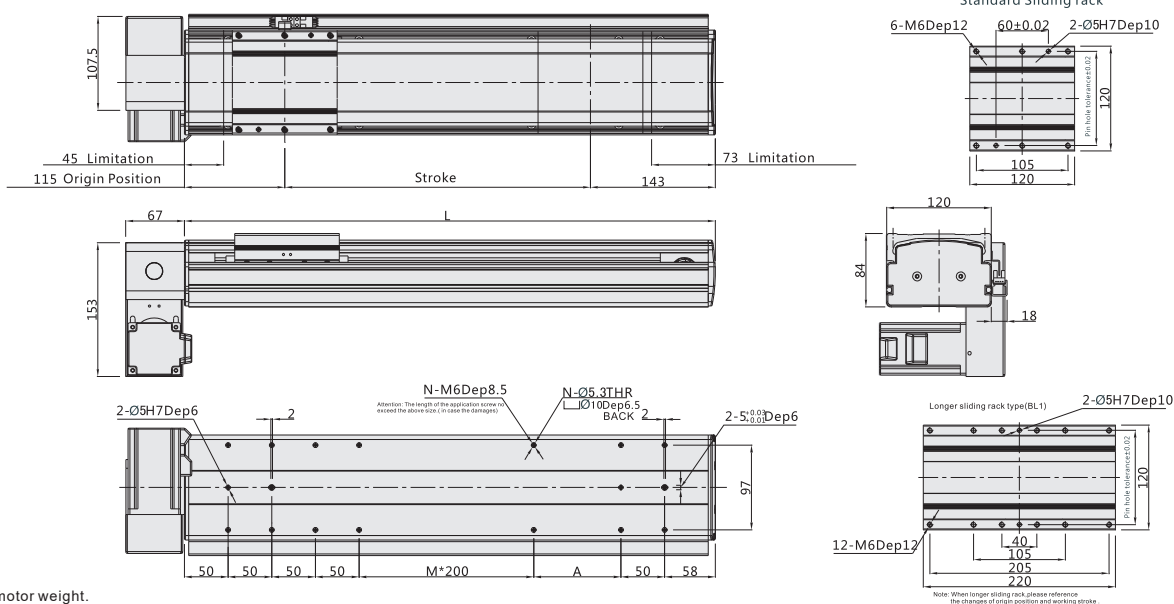
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1

*In case special stroke please contact technical services.

BRD: Down Right Side

Unit (mm)



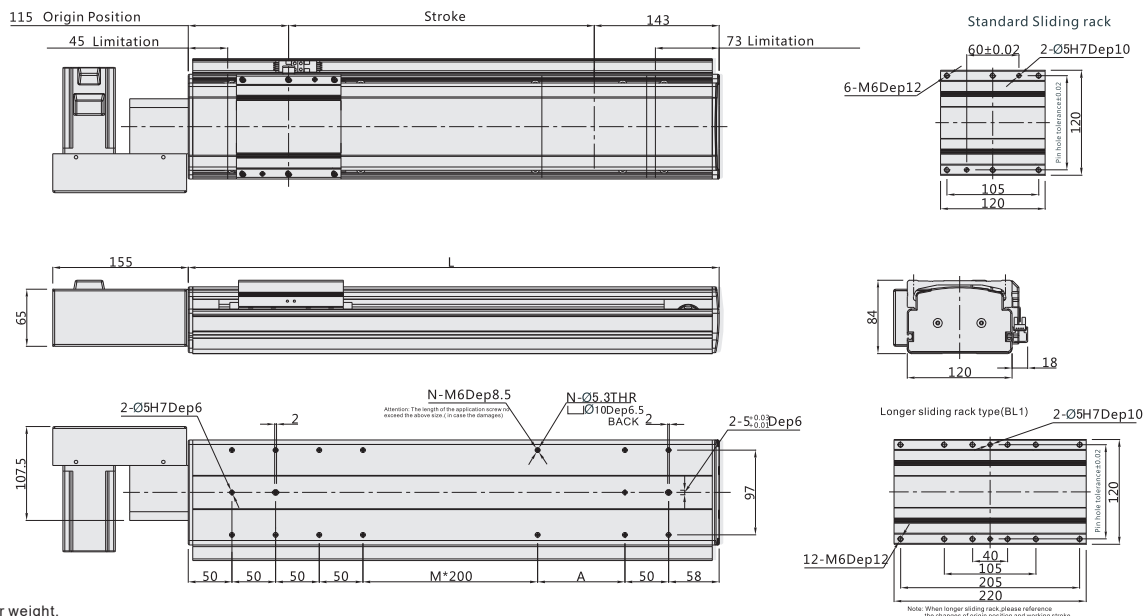
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1

*In case special stroke please contact technical services.

BL: Left Side

Unit (mm)



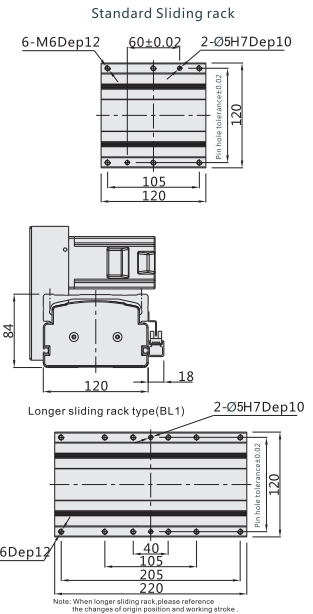
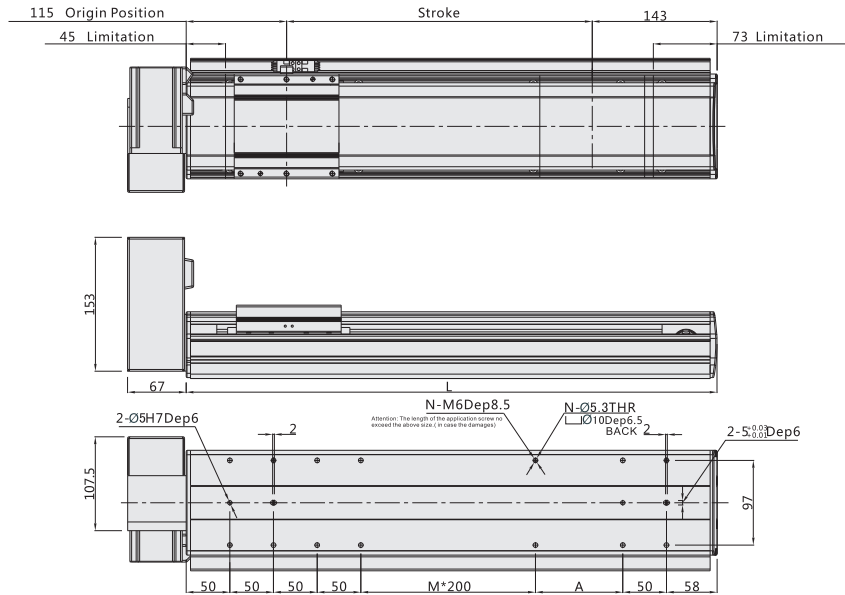
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1

*In case special stroke please contact technical services.

BLU: Upper Left Side

Unit (mm)



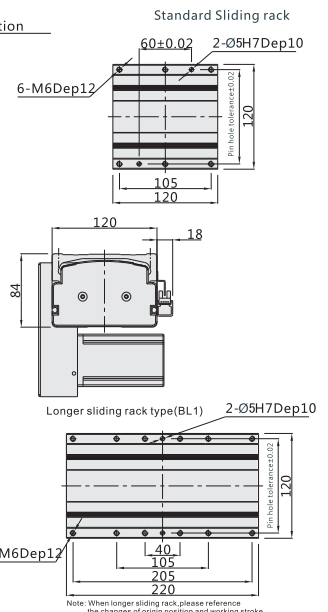
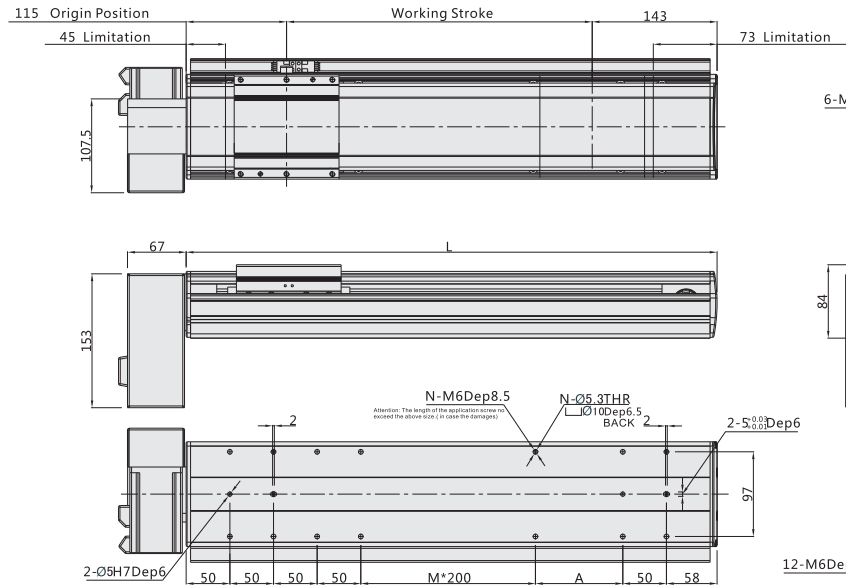
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1

*In case special stroke please contact technical services.

BLD: Down Left Side

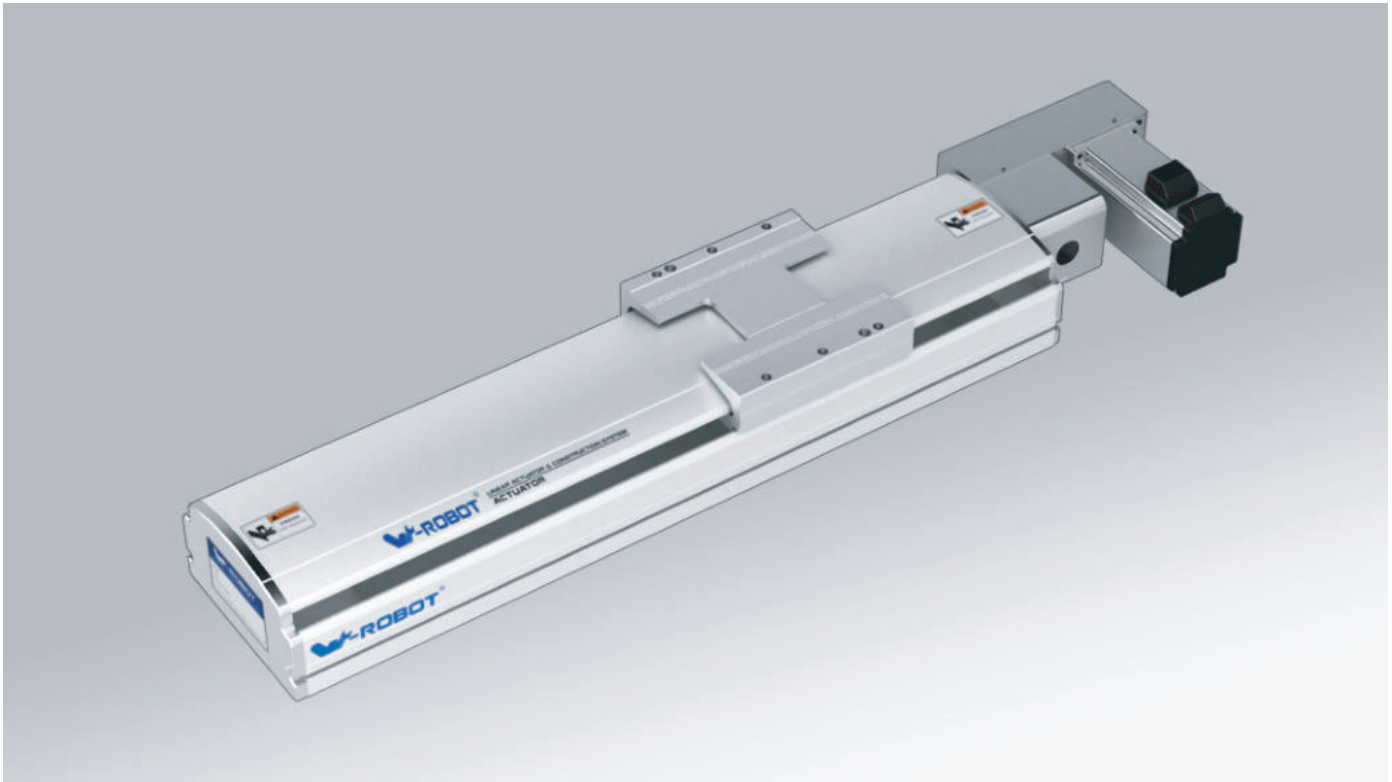
Unit (mm)



Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1

*In case special stroke please contact technical services.



Motor direction



Guide for Model Selection

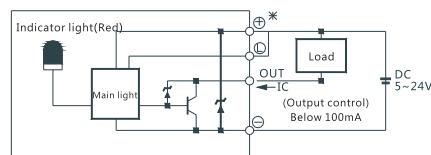
VBF14 — L45 — S100 — BL — ZP20B — C3 —

Base Style		Leather belt Type		Stroke(mm)	Motor way		Motor Type		Motor power	Original Sensor position		Sensor switch	Non-standard, d.c.	
V	V series	L	Clean belt	100-3500	BR	Right Side	P	Panasonic	20	200W	External		No	Standard type
BF	Semiclosed with Frame Belt Type	X	Rubber belt		BRU	Upper Right Side	M	Mitsubishi	40	400W	C	Motor side	2	2pcs
14	Body width140	Lead			BRD	Down Right Side	Y	Yaskawa	57	57 Stepper	D	Oppsite motor side	3	3pcs
		45	45mm		BL	Left Side	T	Delta	Brakes		E	No	No sensor	
					BLU	Upper Left Side	* For Z: Motor is from clients		No	No brake	Sensor type		Detailed information please see page 032	
					BLD	Down Left Side			B	With brake				
											No	NPN		
											P	PNP		
													BL1	
													B2	
													D01	
													U01	
													UD01	
													H01	
													HU01	
													HD01	
													HUD01	
													M01	
													S01	

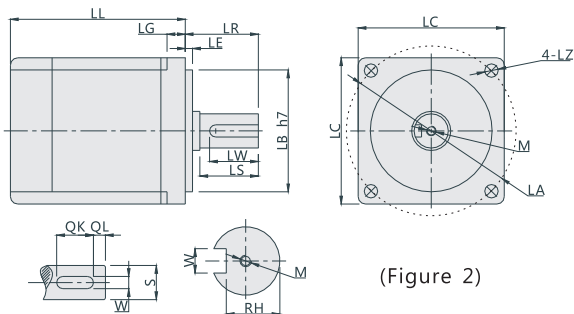
■ Specification

Motor power AC (W)	400W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	40
	Vertical	
RatedThrust(N)	170	
Linear Guide (mm)	20x 15.5-2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

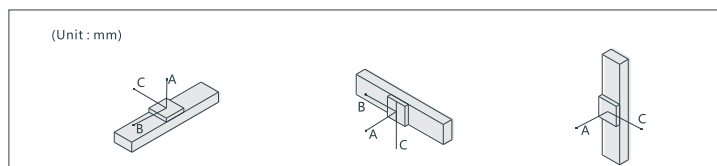
■ Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MHMJ022G□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-

□ Stand for empty

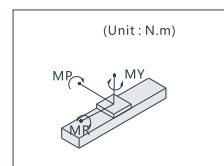
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	2800	1800	1250
20kg	2200	950	750
30kg	1800	650	550

Wall installation	A	B	C
10kg	1170	1300	2200
20kg	700	630	1600
30kg	450	380	1250

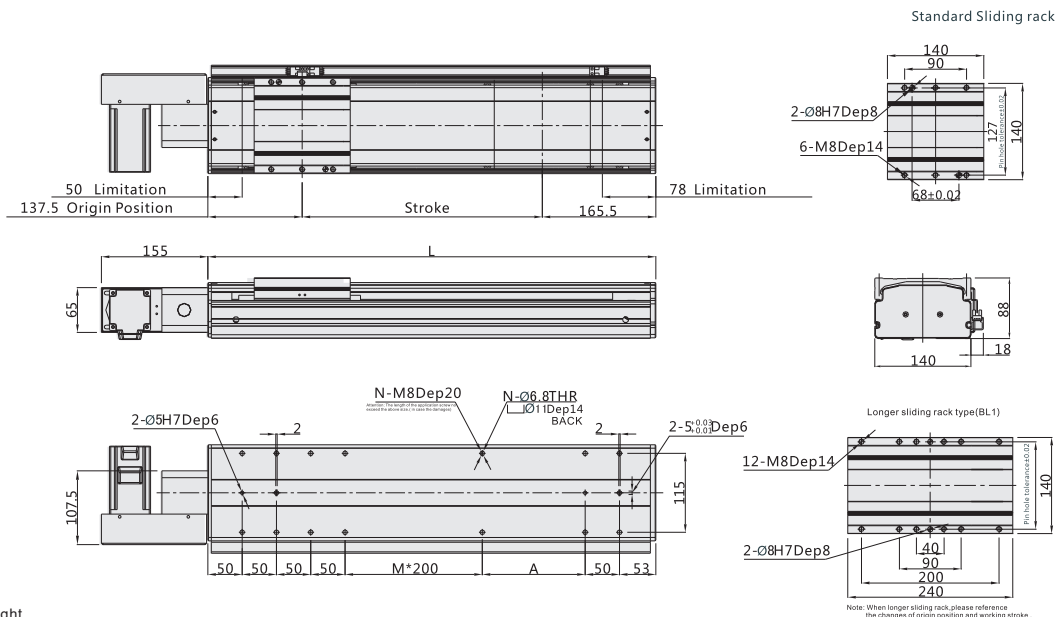
■ Max. Static Torque Table



Maximum static torque	
MY	784
MP	788
MR	691

BR: Right Side

Unit (mm)



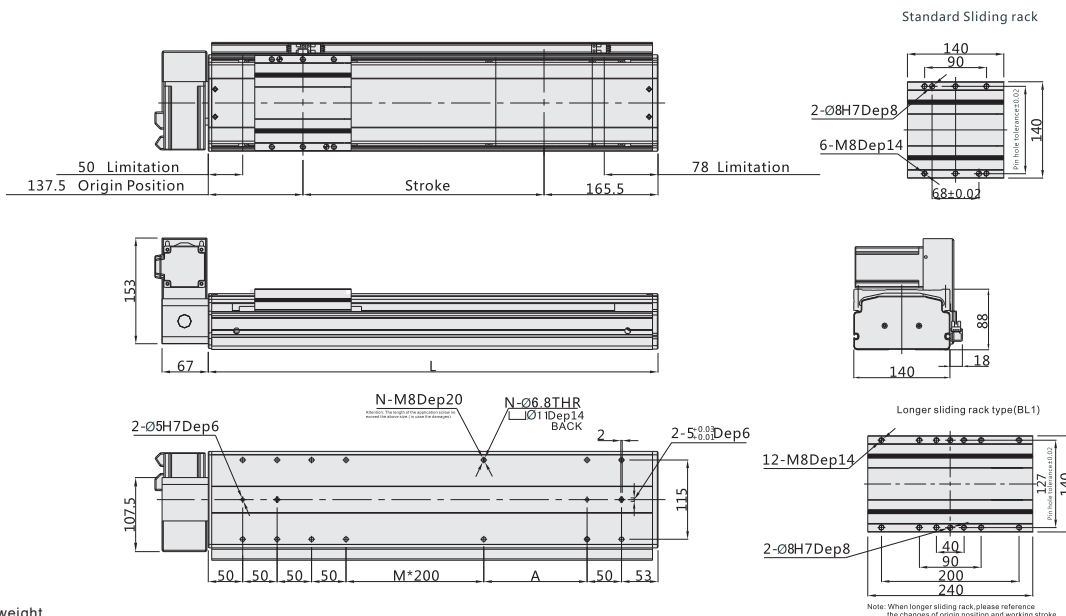
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BRU: Upper Right Side

Unit (mm)



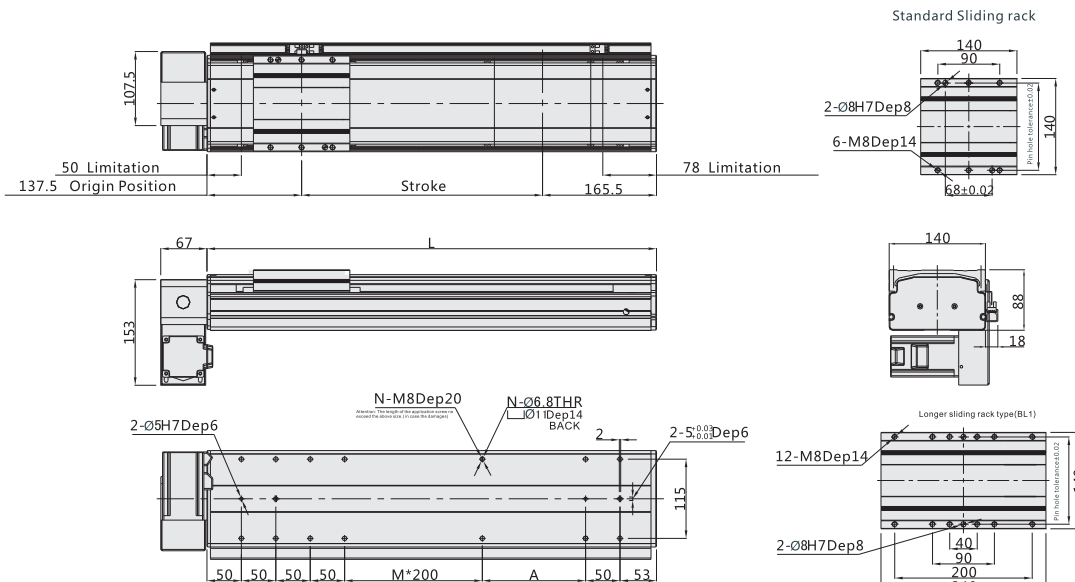
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BRD: Down Right Side

Unit (mm)



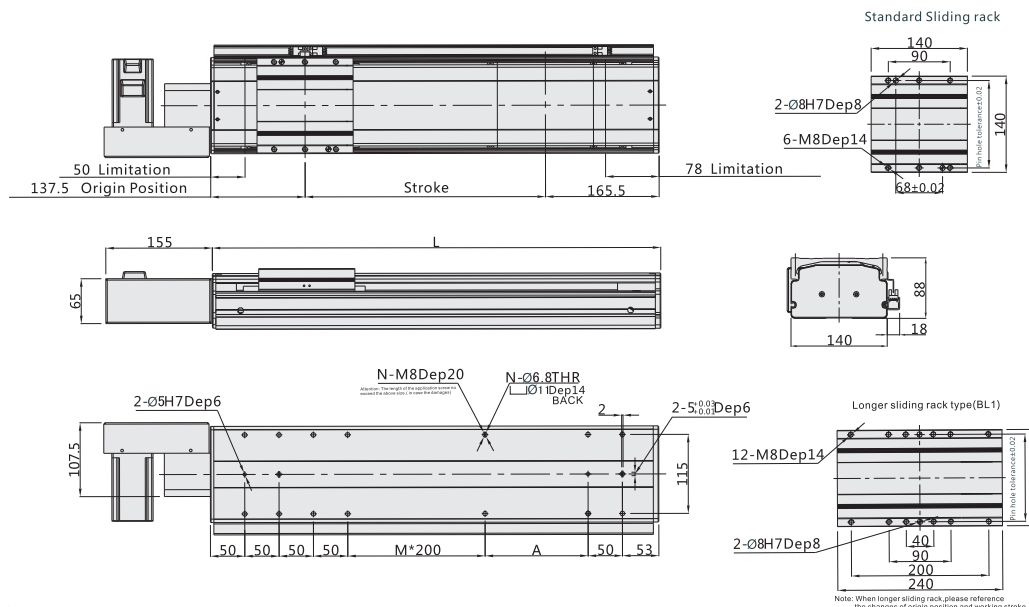
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BL: Left Side

Unit (mm)



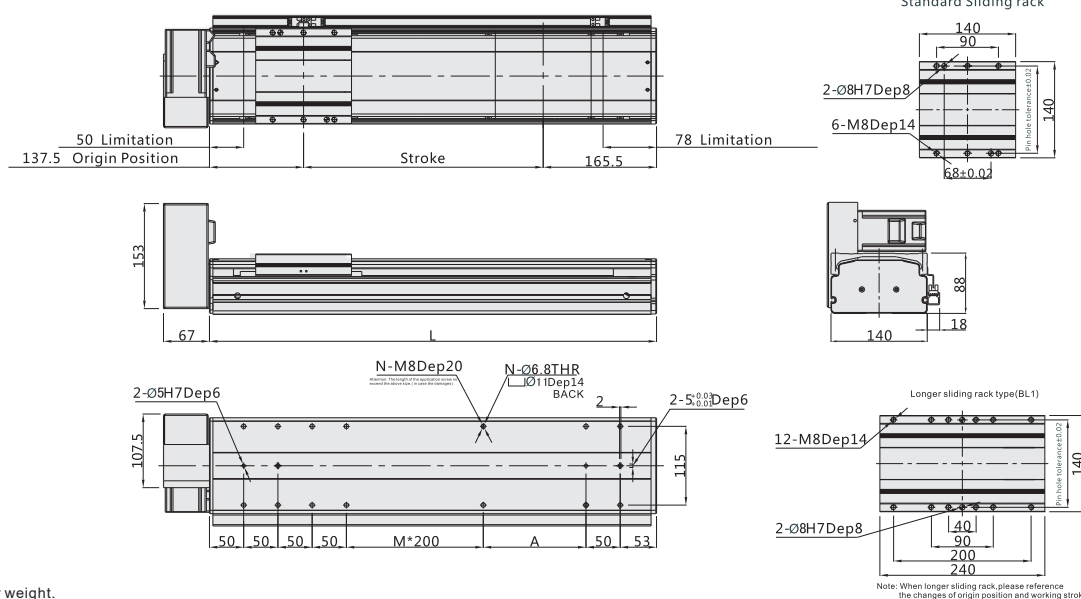
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BLU: Upper Left Side

Unit (mm)



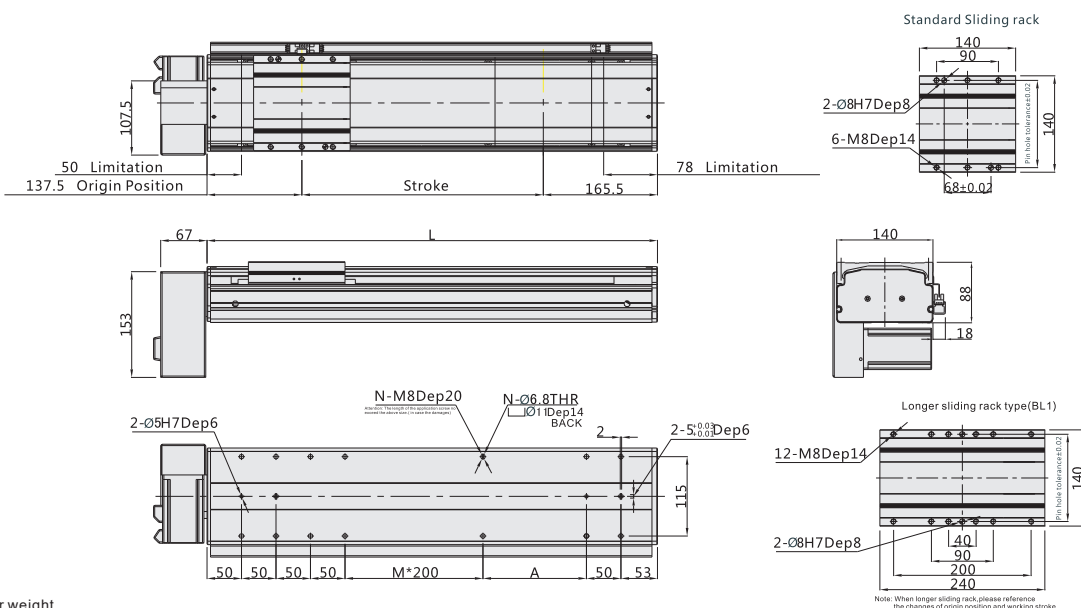
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BLD: Down Left Side

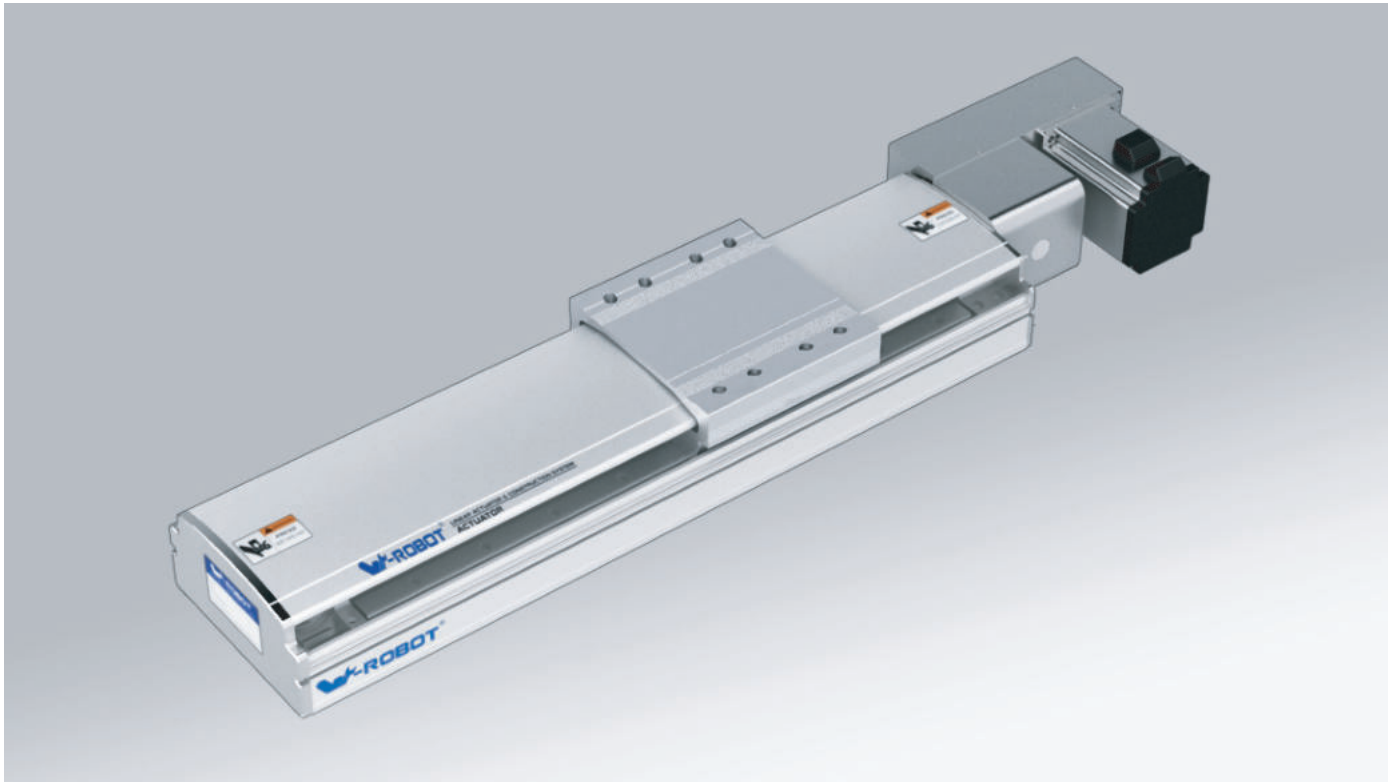
Unit (mm)



Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.



Motor direction



Guide for Model Selection

VBF17 — L45 — S100 — BL — ZP40B — C3 —

Base Style		Leather belt Type		Stroke(mm)		Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
V	V series	L	Clean belt	100-3500		BR	Right Side	P	Panasonic	40	400W	External		External		No	Standard type
BF	Semiclosed with Frame Belt Type	X	Rubber belt			BRU	Upper Right Side	M	Mitsubishi	75	750W	C	Motor side	2	2pcs	BL1	Detailed information please see page032
17	Body width170	Lead				BRD	Down Right Side	Y	Yaskawa	Brakes		D	Oppsite motor side	3	3pcs	B2	
		45	45mm			BL	Left Side	T	Delta	No	No brake	E	No	No sensor		D01	
						BLU	Upper Left Side	* For Z: Motor is from clients		B	With brake	Sensor type				U01	
						BLD	Down Left Side					No	NPN			UD01	
												P	PNP			H01	
																HU01	
																HD01	
																HUD01	
																M01	
																S01	

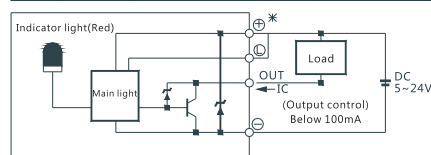
096

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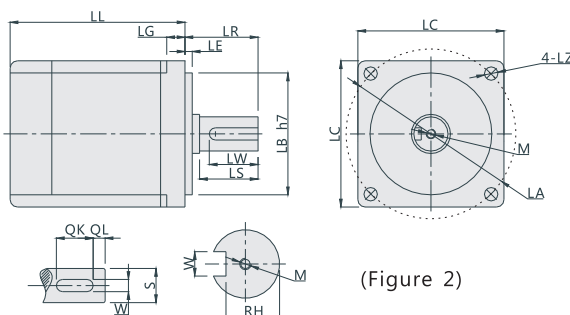
■ Specification

Motor power AC (W)	400W/750W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	45/55
	Vertical	
RatedThrust(N)	165/310	
Linear Guide (mm)	20x 15.5-2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

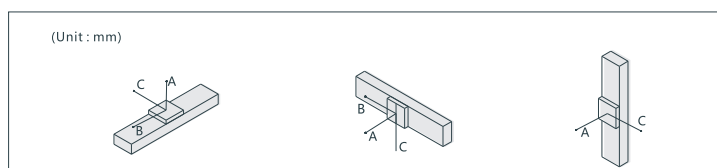
■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
	Delta	ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

□ Stand for empty

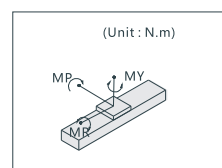
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	3000	1900	1300
20kg	2300	1000	800
30kg	2000	700	600
45kg	900	320	290

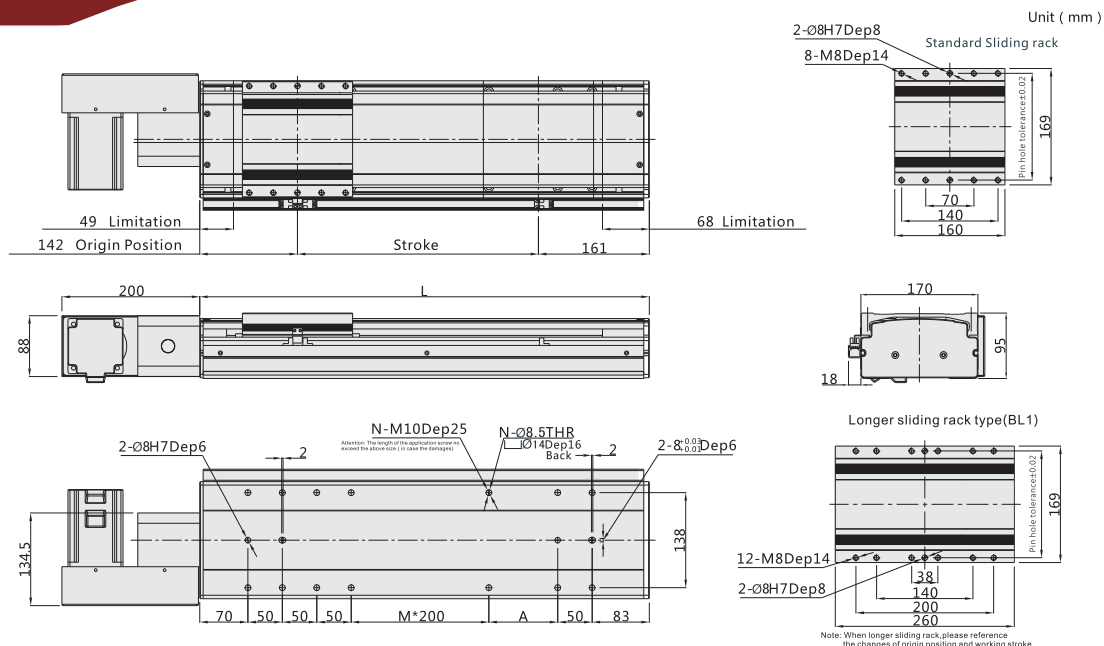
Wall installation	A	B	C
10kg	1300	1500	2300
20kg	800	700	1750
30kg	600	450	1350
45kg	290	210	610

■ Max. Static Torque Table



Maximum static torque	
MY	1032
MP	1034
MR	908

BR: Right Side

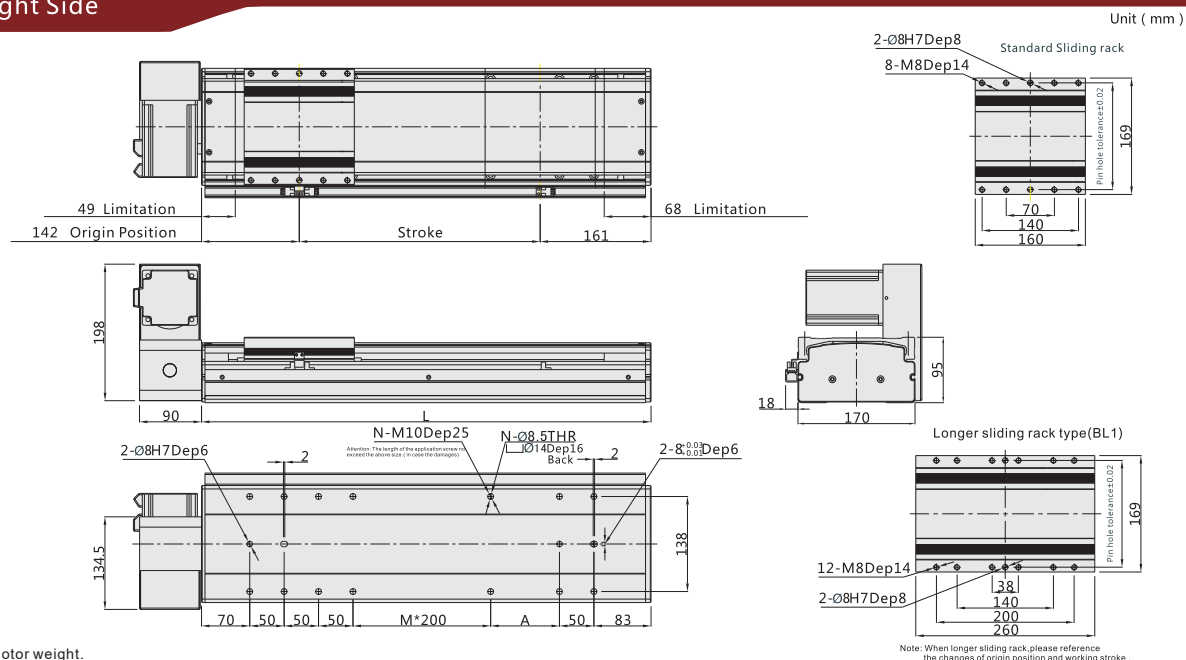


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BRU: Upper Right Side

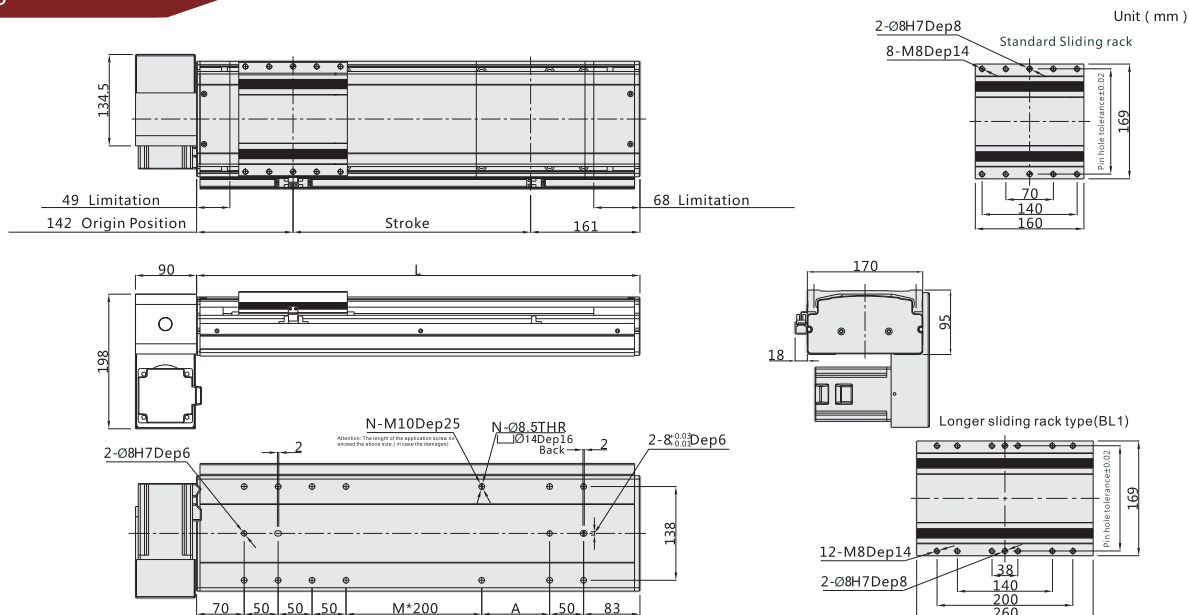


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BRD: Down Right Side

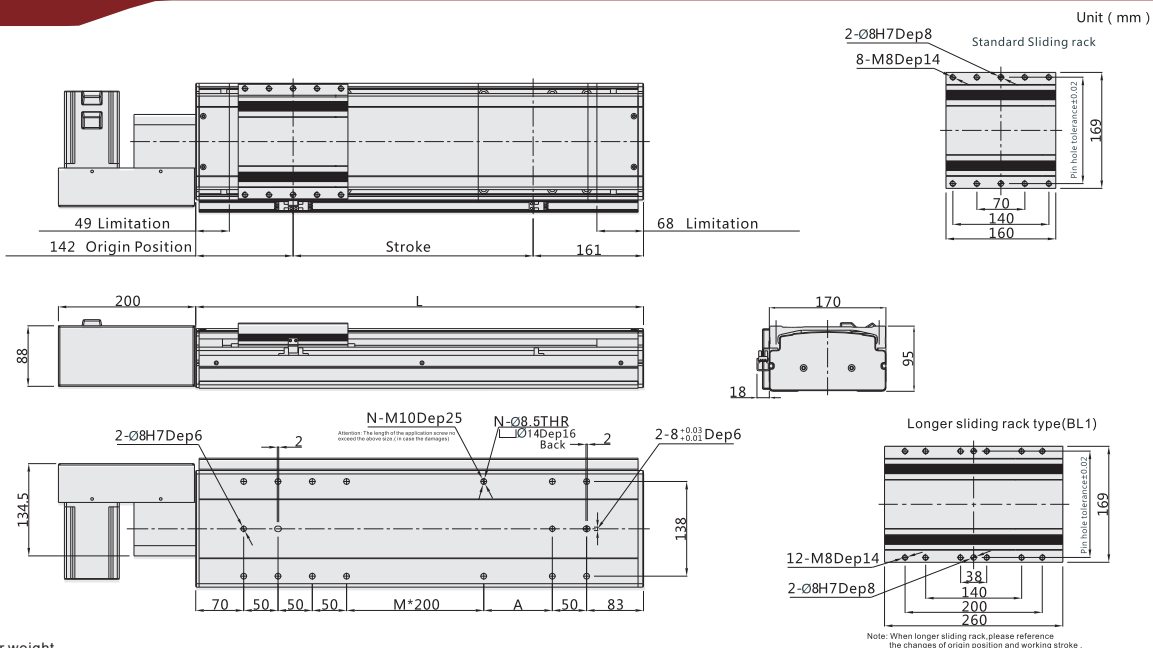


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BL: Left Side

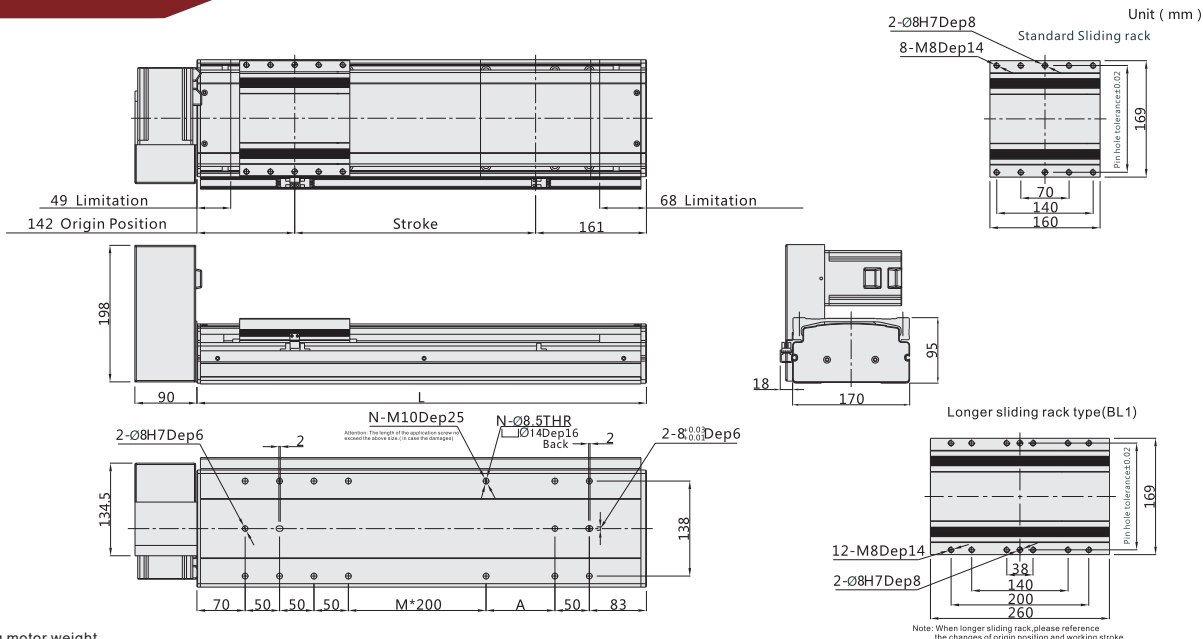


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BLU: Upper Left Side

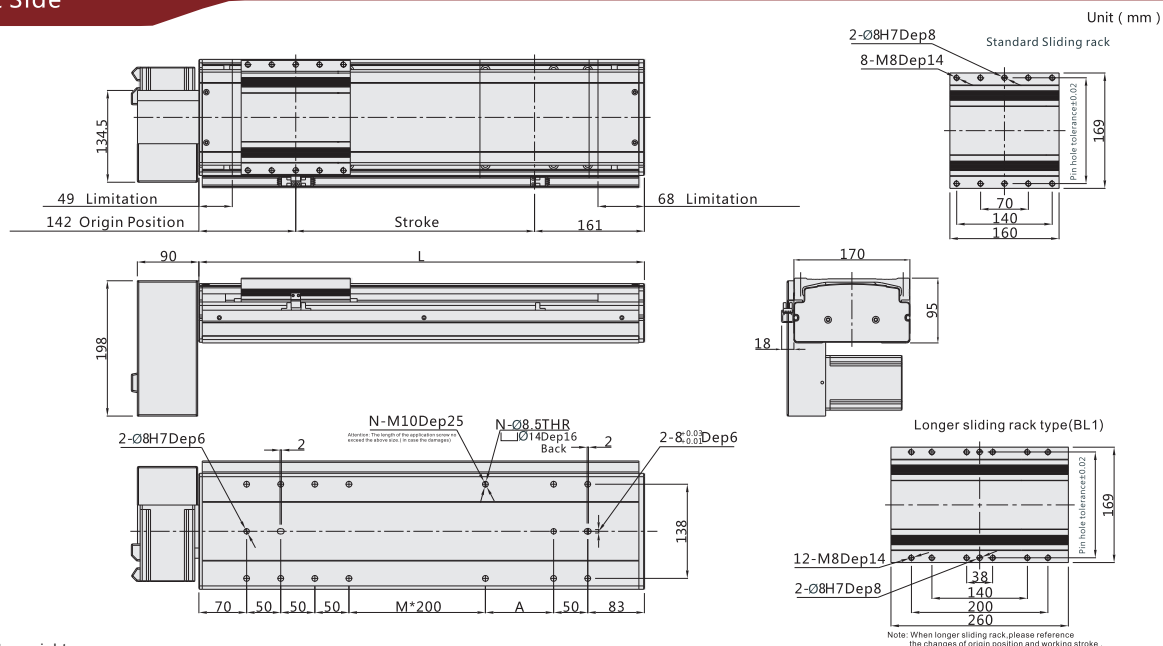


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

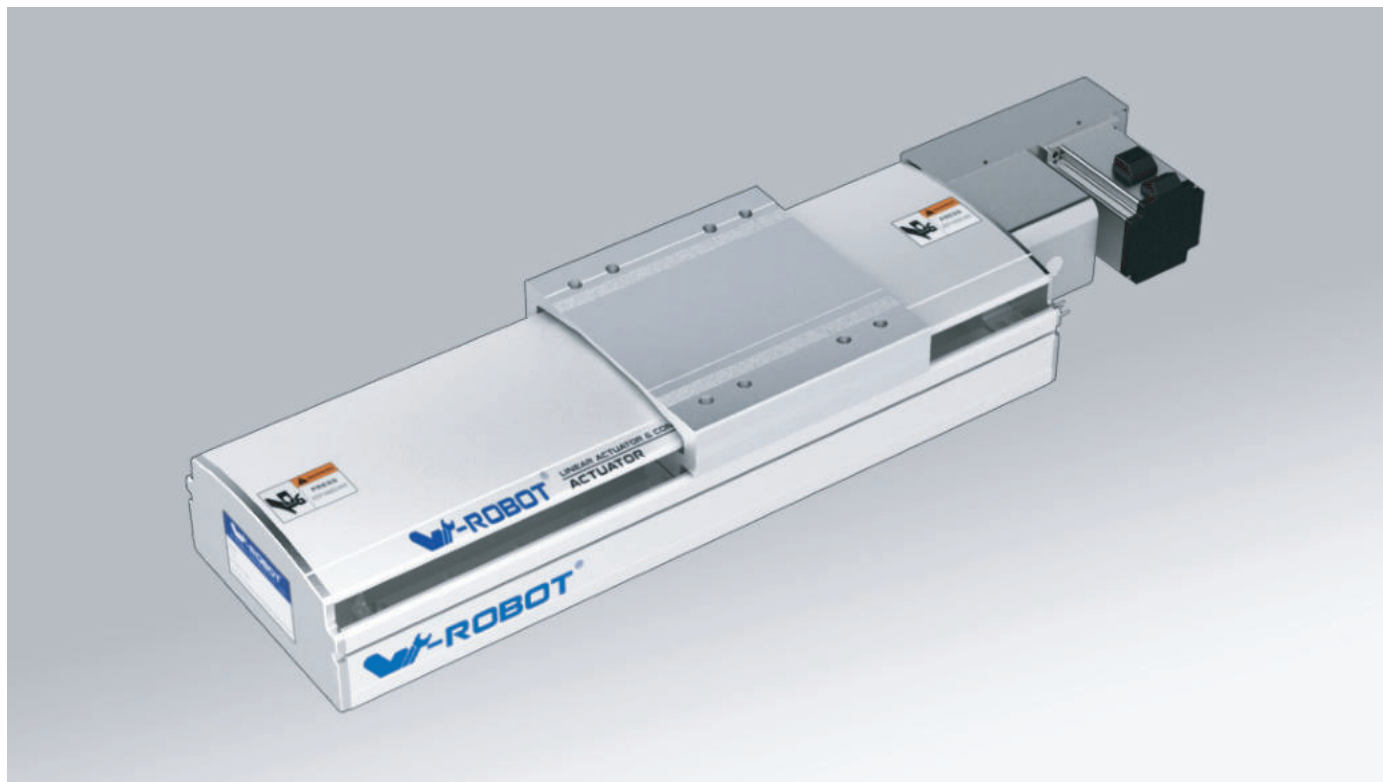
BLD: Down Left Side



Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.



■ Motor direction



■ Guide for Model Selection

VBF22 — L45 — S100 — BL — ZP75B — C3 —

Base Style	
V	Vseries
BF	Semiclosed with Frame Belt Type
22	Body width220

Leather belt Type	
L	Clean belt
X	Rubber belt
Lead	
45	45mm

Stroke(mm)
100-4000

Motor way	
BR	Right Side
BRU	Upper Right Side
BRD	Down Right Side
BL	Left Side
BLU	Upper Left Side
BLD	Down Left Side

Motor Type		Motor power	
P	Panasonic	75	750W
M	Mitsubishi	Brakes	
Y	Yaskawa	No	No brake
T	Delta	B	With brake
W	W-Robot	* For Z: Motor is from clients	

Original Sensor position		Sensor switch	
External		External	
C	Motor side	2	2pcs
D	Oppsite motor side	3	3pcs
E	No	No sensor	

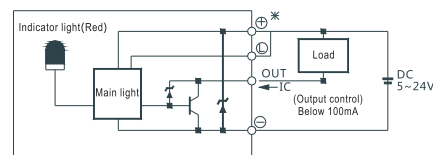
Sensor type	
No	NPN
P	PNP

Non-standard, d.c.,	
No	Standard type
BL1	Detailed information please see page032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

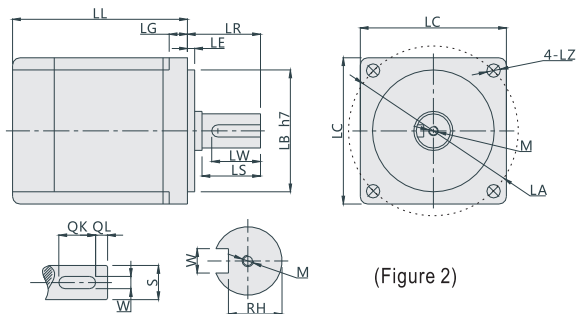
■ Specification

Motor power AC (W)	750W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	85
	Vertical	
RatedThrust(N)	320	
Linear Guide (mm)	23x 18-2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 1000 will lead to swing of ball screw, please slow down the speed. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

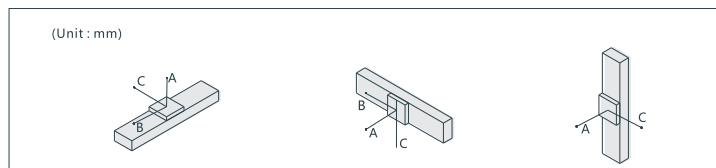
■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
		Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-

□ Stand for empty

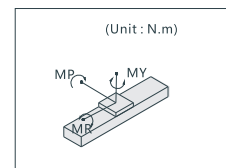
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
45kg	3444	1015	1358
65kg	2460	725	970
85kg	1800	550	740

Wall installation	A	B	C
45kg	1410	925	3435
65kg	1010	664	2455
85kg	770	500	1886

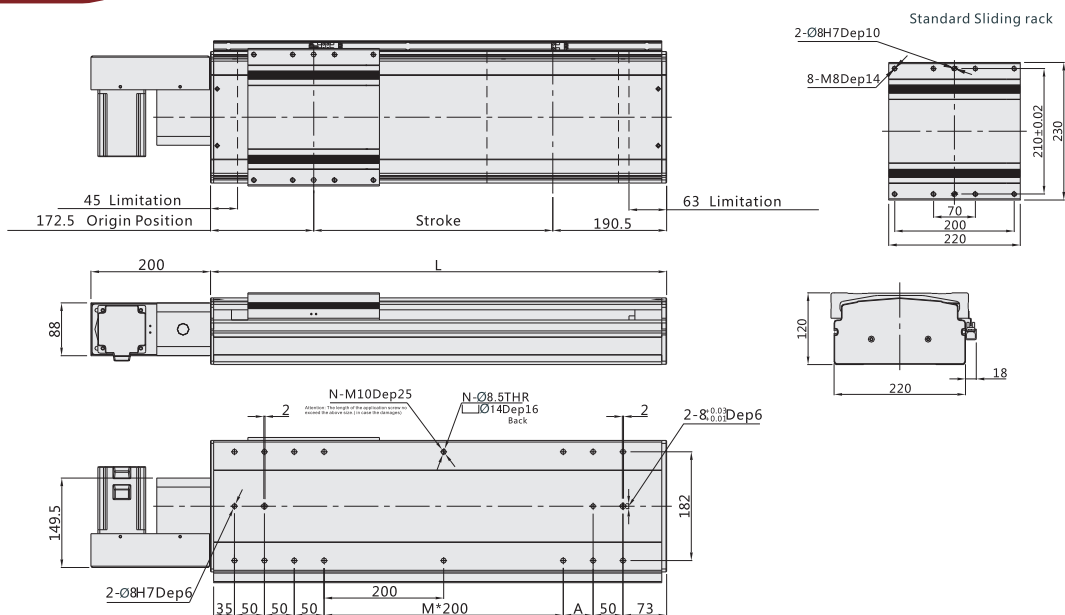
■ Max. Static Torque Table



Maximum static torque	
MY	2052
MP	2052
MR	1800

BR: Right Side

Unit (mm)



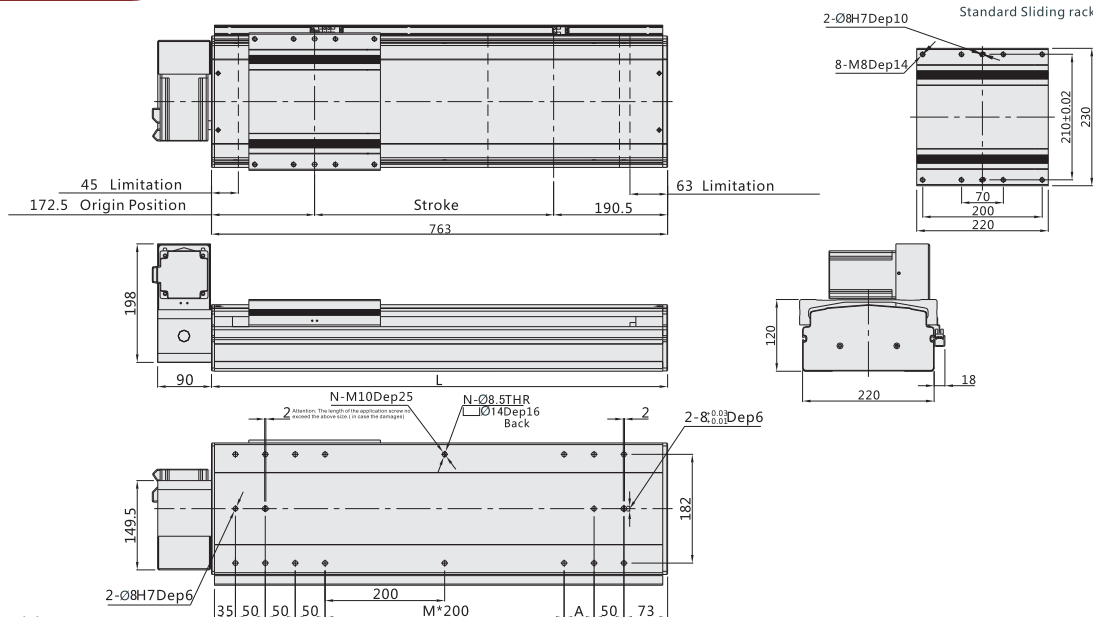
Note: Not including motor weight.

Working 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
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	16.2	18.4	20.7	22.9	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	53.4

*In case special stroke please contact technical services.

BRU: Upper Right Side

Unit (mm)



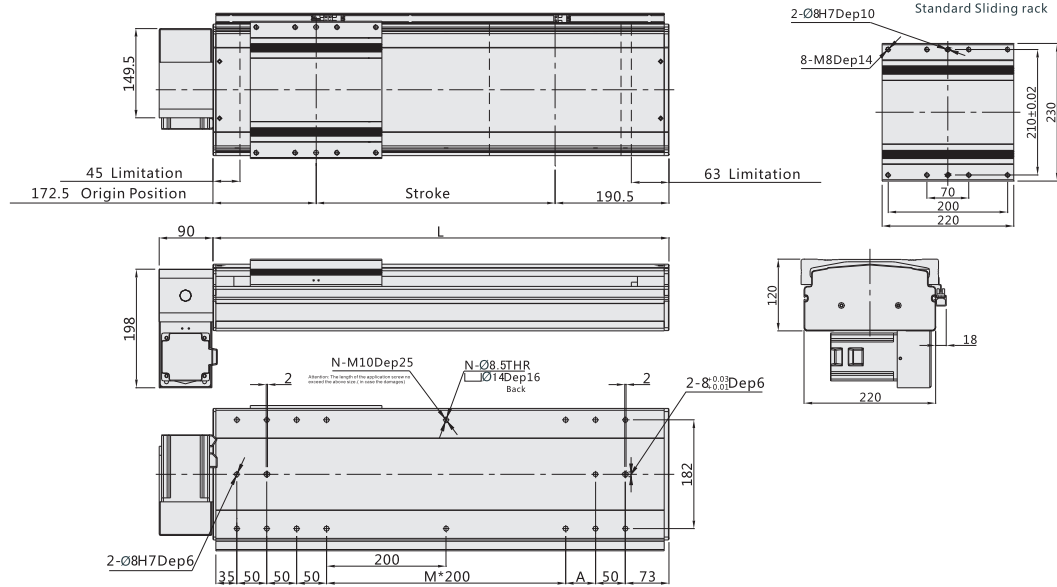
Note: Not including motor weight.

Working 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
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	16.2	18.4	20.7	22.9	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	53.4

*In case special stroke please contact technical services.

BRD: Down Right Side

Unit (mm)



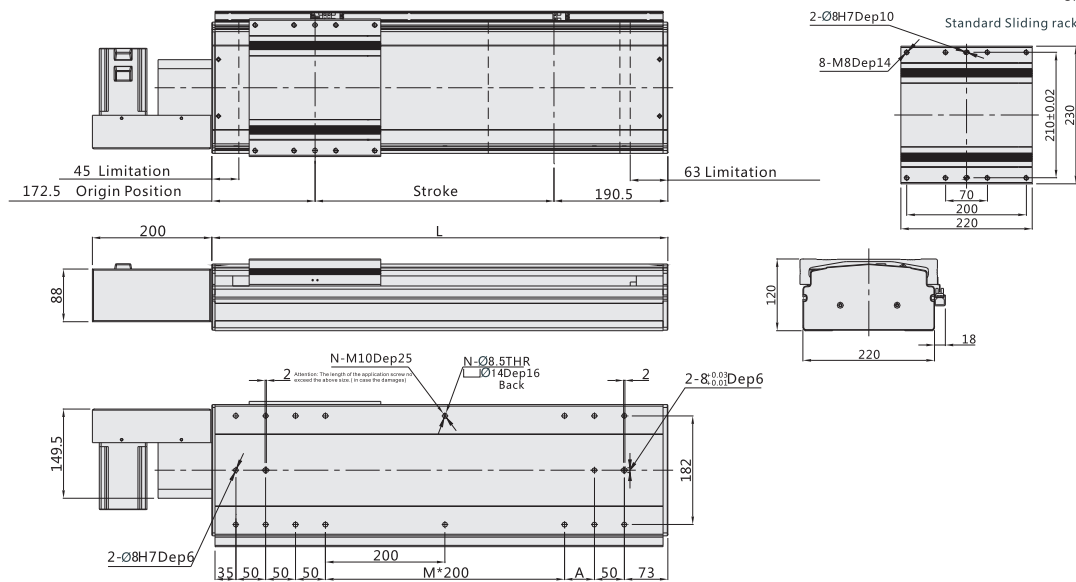
Note: Not including motor weight.

Working 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
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	16.2	18.4	20.7	22.9	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	53.4

*In case special stroke please contact technical services.

BL: Left Side

Unit (mm)



Note: Not including motor weight.

Working 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
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	16.2	18.4	20.7	22.9	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	53.4

*In case special stroke please contact technical services.

*In case special stroke please contact technical services.

*In case special stroke please contact technical services.

Linear Stage Series

Ball Screw Drive Dust-free Environment

Small Type



VC6

Maximum Stroke 800mm
Maximum Payload 30KG128
Body Width 65mm

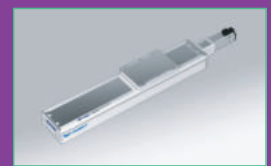
Small Type



VC8

Maximum Stroke 1000mm
Maximum Payload 35KG132
Body Width 80mm

Standard Type



VC10

Maximum Stroke 1000mm
Maximum Payload 65KG136
Body Width 100mm

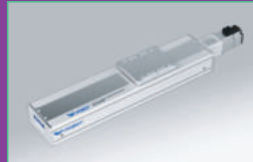
Standard Type



VC12

Maximum Stroke 1200mm
Maximum Payload 84KG142
Body Width 120mm

Standard Type



VC14

Maximum Stroke 1500mm
Maximum Payload 115KG148
Body Width 140mm

LargeType

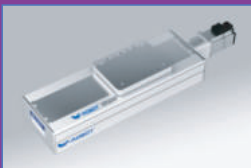


VC17



Maximum Stroke 1500mm
Maximum Payload 120KG154
Body Width 170mm

LargeType



VC22



Maximum Stroke 1500mm
Maximum Payload 150KG160
Body Width 220mm



BA

BC

BL

BR

VC6 – L10 – P – S80 – BC – ZP10B – C3 –

The diagram illustrates the structure of a model number, where each segment is linked to a specific table of options:

- VC6**: Base Style table
- L10**: Ball Screw Lead table
- P**: Accuracy class table
- S80**: Stroke(mm) table
- BC**: Motor way table
- ZP10B**: Motor Type and Motor power tables
- C3**: Original Sensor position, Sensor switch, and Sensor type tables
- Non-standard, d.**: Non-standard, d. table

Base Style

V	Vseries
C	Cleane Fully-enclosed
6	Body width60

Ball Screw Lead

L5	5mm
L10	10mm

Accuracy class

P	High precision
C	Common precision

Stroke(mm)

100-800

Motor way

BA	Basis
BC	External
BR	Right Side
BL	Left Side

Motor Type

P	Panasonic
T	Delta
W	W-Robot
* For Z: Motor is from clients	

Motor power

10	100W
57	57-08
	57-06.35
Brakes	
No	No brake
B	With brake

Original Sensor position

C	Motor side	2	2pcs
D	Oppsite motor side	3	3pcs
E	No	No sensor	

Sensor switch

External

Sensor type

No	NPN
P	PNP

Non-standard, d.

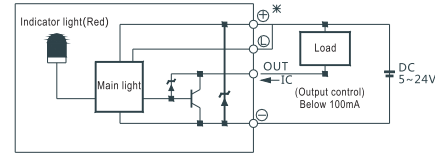
No	Standard type
BL1	
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	
T	

If the linear salges require the extra sealing strip, please add the 'T' at the end of the model numbers.

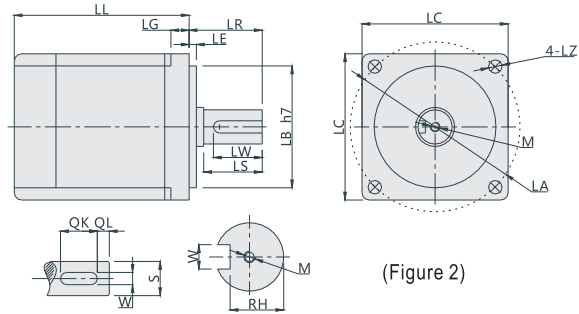
Specification

Motor power AC (W)	100W	
BallScrewØ	(C7)	12
	(C5)	12
Repeatability	(C7)	±0.01
	(C5)	±0.006
BallScrew Lead(mm)	5	10
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500
Maximum Payload(kg)	Horizontal	30
	Vertical	15
RatedThrust(N)	330	165
Linear Guide (mm)	42x9.5 -1	
Coupling (mm) (Motor side) x (Ball Screw Side)	8x8	
Motor Output	100W	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if longer travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

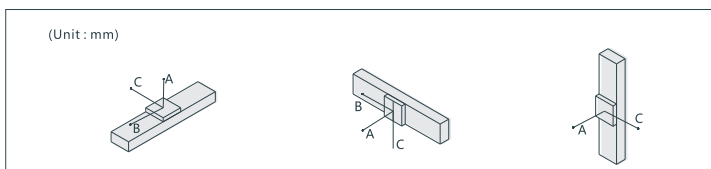
Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-

□ Stand for empty

Max. Payload Diameters Table

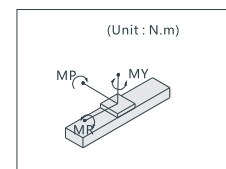


Horizontal installation		A	B	C
Lead 5	10kg	374	33	109
	30kg	159	0	25
Lead 10	3kg	642	125	335
	8kg	273	41	121
	15kg	216	24	77

Wall installation		A	B	C
Lead 5	5kg	204	45	530
	10kg	72	0	245
	30kg	0	0	0
Lead 10	3kg	293	96	510
	8kg	89	14	210
	15kg	43	0	130

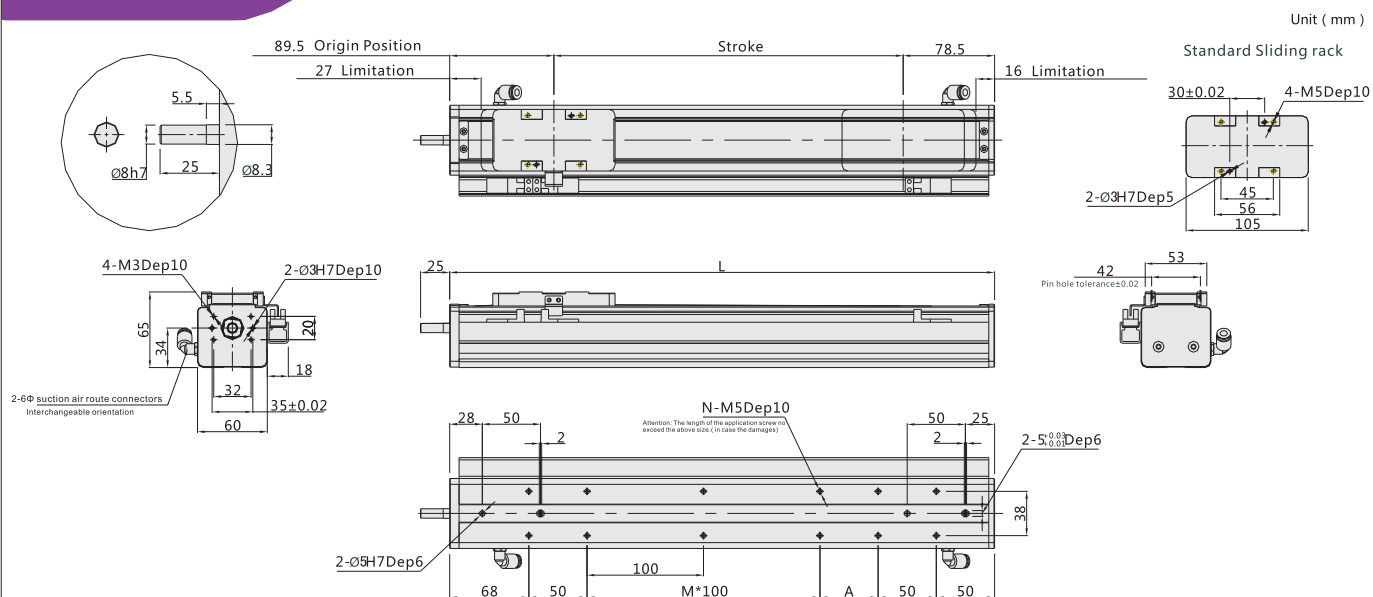
Vertical installation		A	C
Lead 5	2kg	171	172
	4kg	73	74
	10kg	23	26
Lead 10	1kg	335	352
	2kg	165	165
	5kg	70	72

Max. Static Torque Table



Maximum static torque	
MY	35
MP	40
MR	50

BA: Basis

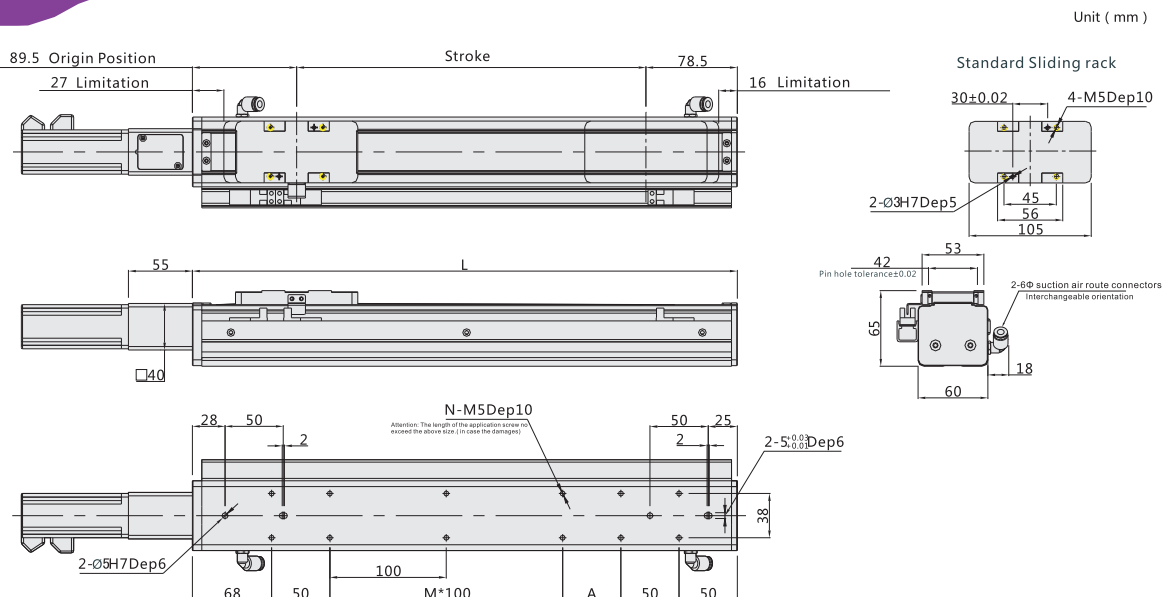


Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	2.5	2.8	3.1	3.4	3.7	4	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7

*Products with color are available stock and short lead time.

BC: External

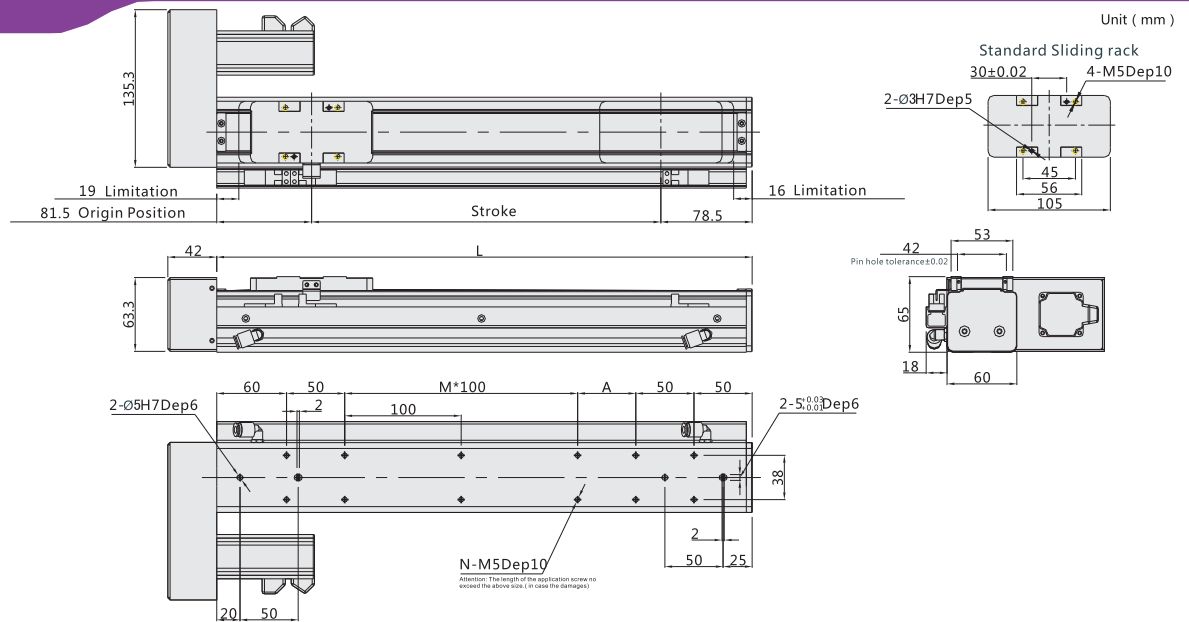


Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	2.5	2.8	3.1	3.4	3.7	4	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7

*Products with color are available stock and short lead time.

BR: Right Side

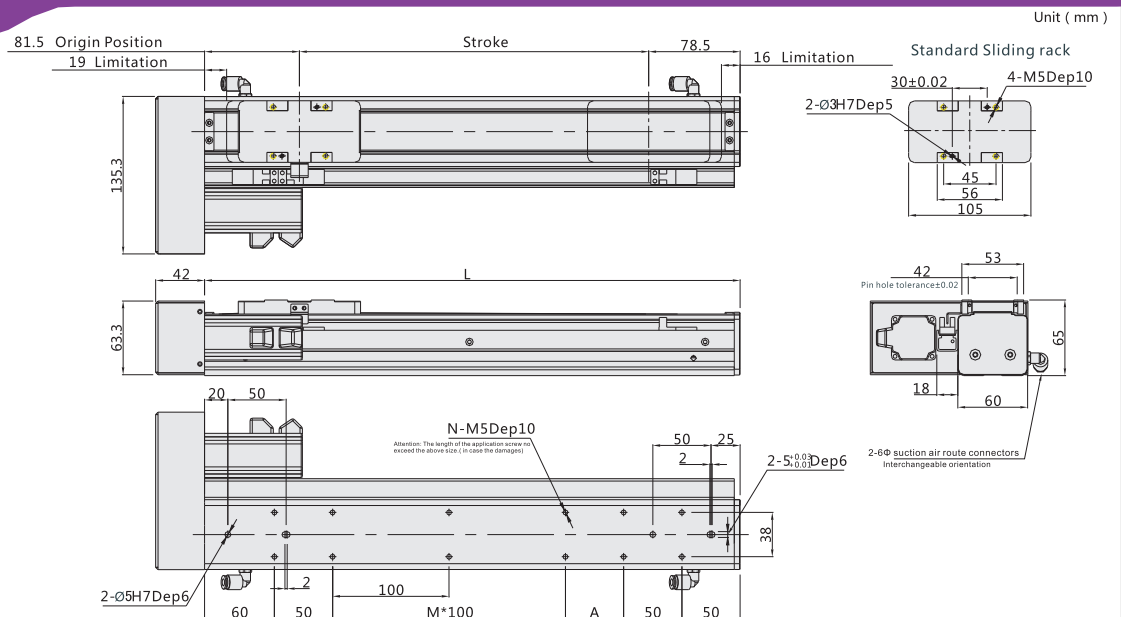


Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	2.5	2.8	3.1	3.4	3.7	4	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7

*Products with color  are available stock and short lead time.

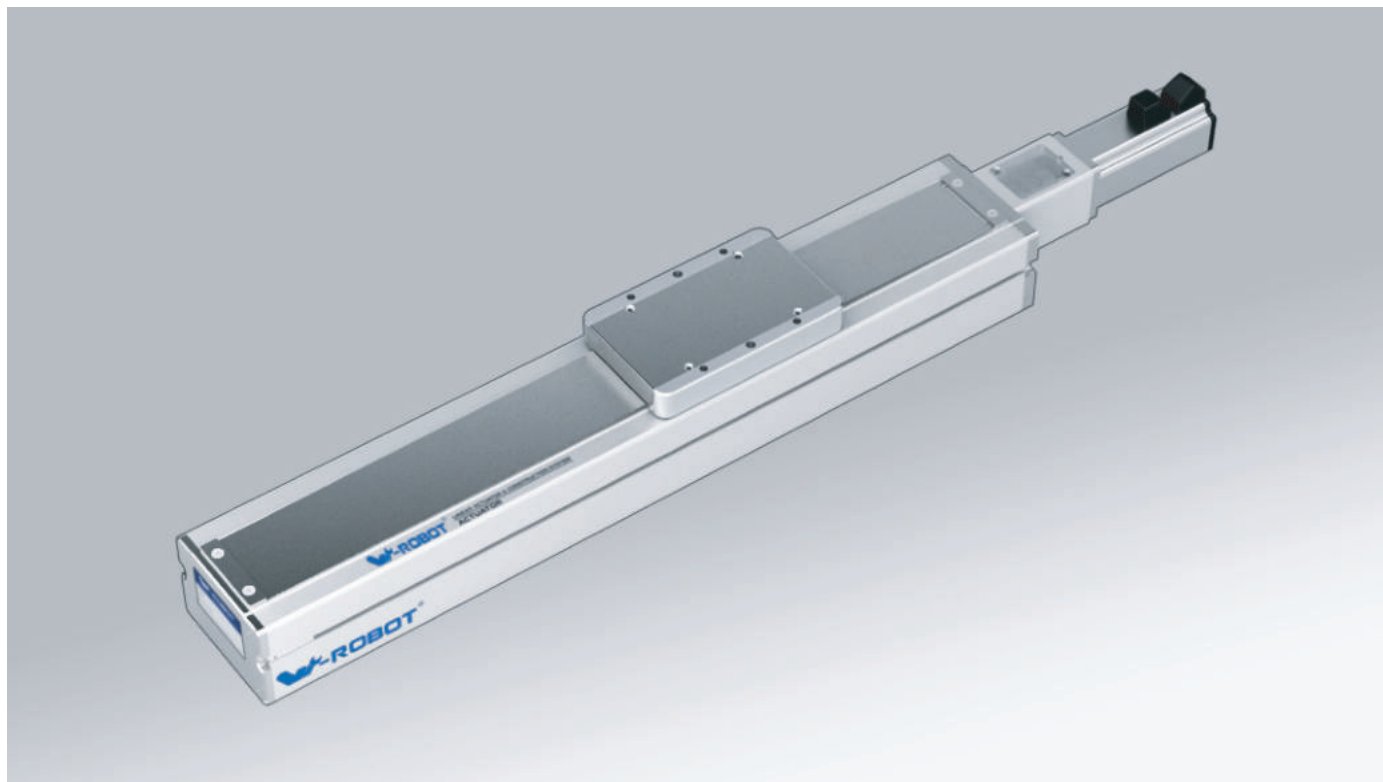
BL: Left Side



Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	2.5	2.8	3.1	3.4	3.7	4	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7

*Products with color  are available stock and short lead time.



Motor direction



Guide for Model Selection

VC8 — L16 — P — S100 — BC — ZP10B — C3 —

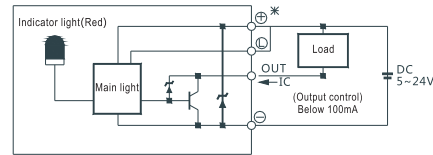
Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.	
V	Vseries	L5	5mm	P	High precision	100-1000	BA	Basis	P	Panasonic	10	100W	External		External		No	Standard type
C	Cleanse Fully-enclosed	L10	10mm	C	Common precision		BC	External	M	Mitsubishi	20	200W	C	Motor side	2	2pcs	BL1	Detailed information please see page 032
8	Body width80	L16	16mm				BR	Right Side	Y	Yaskawa	40	400W	D	Opposite motor side	3	3pcs	B2	
		L20	20mm				BL	Left Side	T	Delta	57	57-08	E	No	No sensor		D01	
									W	W-Robot	57	57-06.35					U01	
									* For Z: Motor is from clients		Brakes						UD01	
											No	No brake					H01	
											B	With brake					HU01	
																	HD01	
																	HUD01	
																	M01	
																	S01	
																	T	

If the linear salges require the extra sealing strip, please add the "T" at the end of the model numbers.

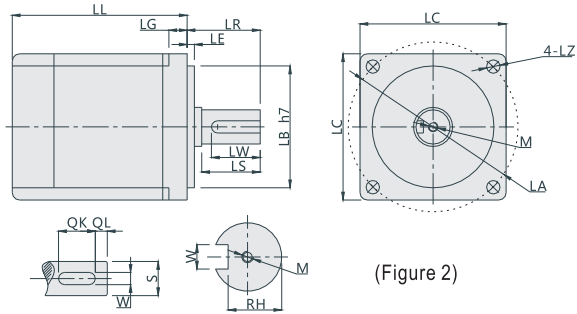
Specification

Motor power AC (W)	100W/200W/400W			
BallScrewØ	(C7)	16		
	(C5)	16		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	800	1000
Maximum Payload(kg)	Horizontal	25/30/35	20/25/30	18/22/27
	Vertical	8/10/12	7/9/11	5/7/9
Rated Thrust(N)	330/683/1388	165/341/694	100/213/433	85/174/347
Linear Guide (mm)	42x9.5 -1			
Coupling (mm) (Motor side) x (Ball Screw Side)	8x10	11x10	14x10	14x10
Motor Output	100W	200W	400W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

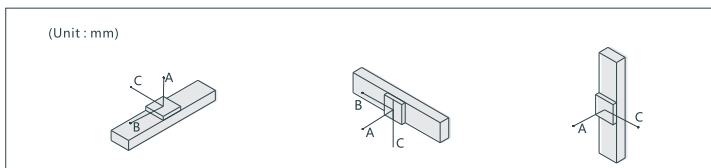
Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-

□ Stand for empty

Max. Payload Diameters Table

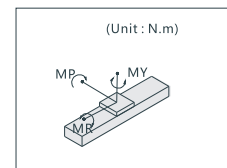


Horizontal installation		A	B	C
Lead 5	15kg	374	33	109
	25kg	159	0	25
	-	-	-	-
Lead 10	4kg	624	125	335
	9kg	273	41	121
	20kg	50	-	-
Lead 16	4kg	737	182	159
	8kg	387	80	97
	18kg	90	30	35

Wall installation		A	B	C
Lead 5	15kg	204	45	530
	25kg	72	0	245
	-	0	0	0
Lead 10	4kg	280	96	500
	9kg	70	10	200
	20kg	30	0	180
Lead 16	4kg	80	30	300
	8kg	15	0	130
	18kg	0	0	0

Vertical installation		A	C
Lead 5	4kg	100	145
	6kg	50	74
	8kg	23	26
Lead 10	3kg	335	350
	5kg	140	160
	7kg	70	72
Lead 16	1kg	372	418
	2kg	166	202
	5kg	113	159

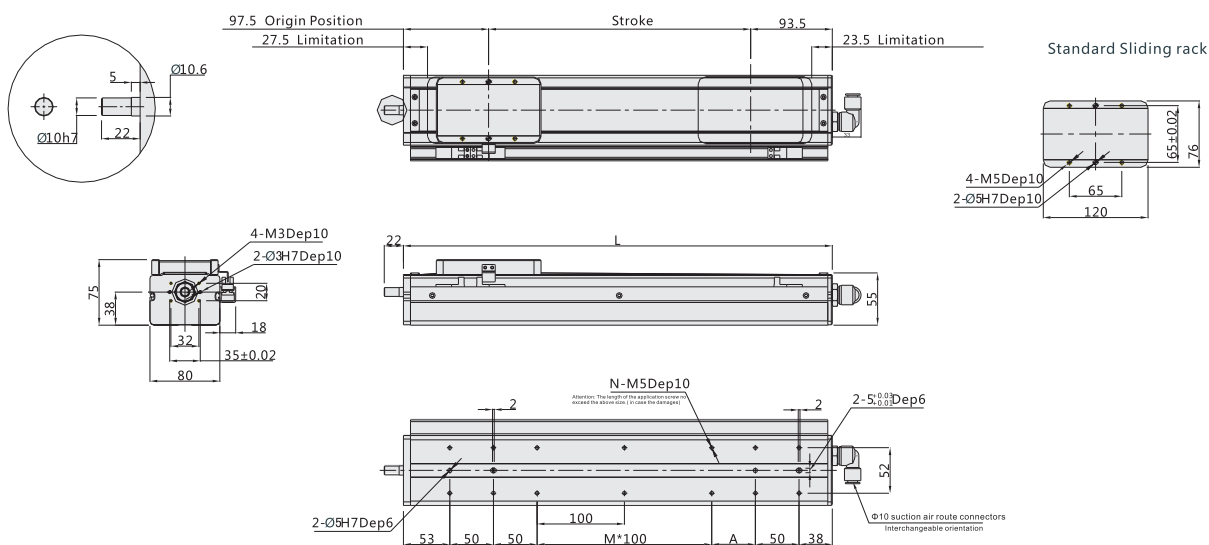
Max. Static Torque Table



Maximum static torque	
MY	100
MP	100
MR	110

BA: Basis

Unit (mm)



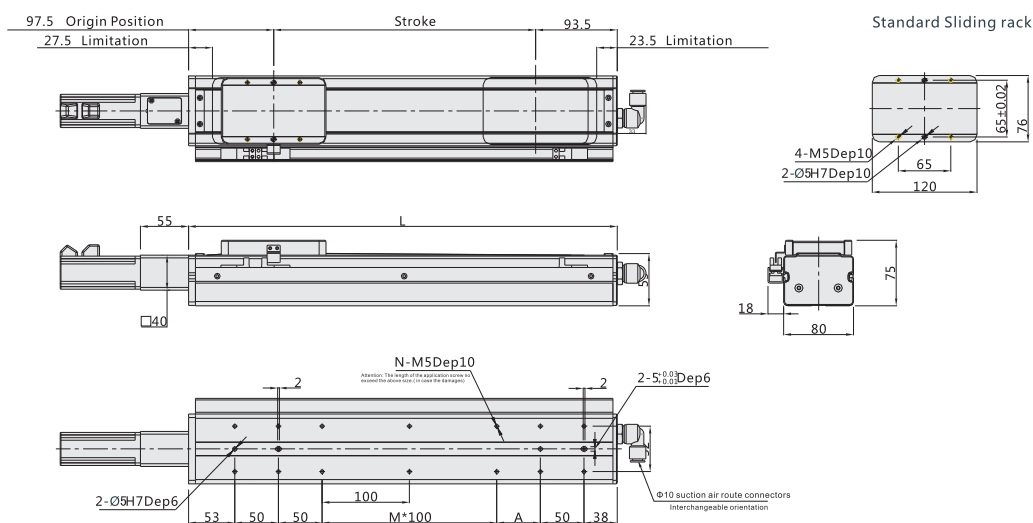
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	291	341	391	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	3.1	3.5	3.9	4.3	4.7	5.1	5.5	5.9	6.3	6.7	7.1	7.5	7.9	8.3	8.7	9.1	9.5	9.9	10.3	10.7

*Products with color are available stock and short lead time.

BC: External

Unit (mm)



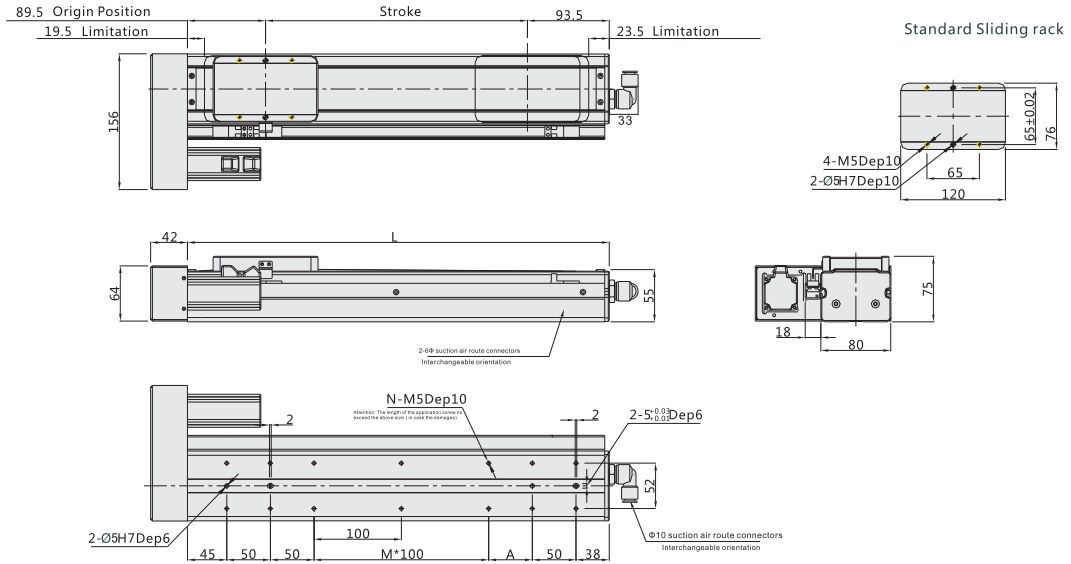
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	291	341	391	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	3.1	3.5	3.9	4.3	4.7	5.1	5.5	5.9	6.3	6.7	7.1	7.5	7.9	8.3	8.7	9.1	9.5	9.9	10.3	10.7

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



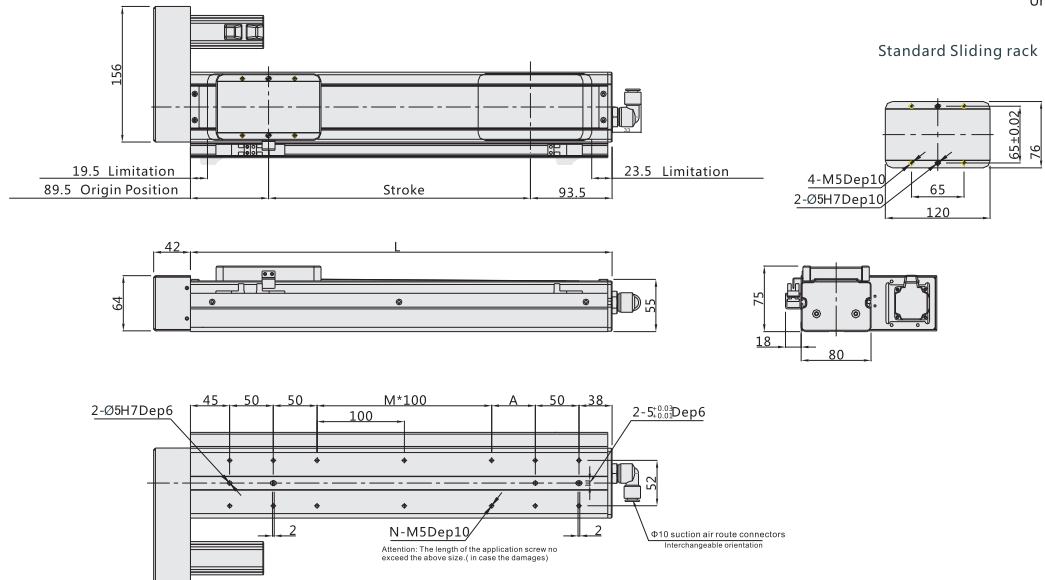
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	283	333	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6

*Products with color are available stock and short lead time.

BR: Right Side

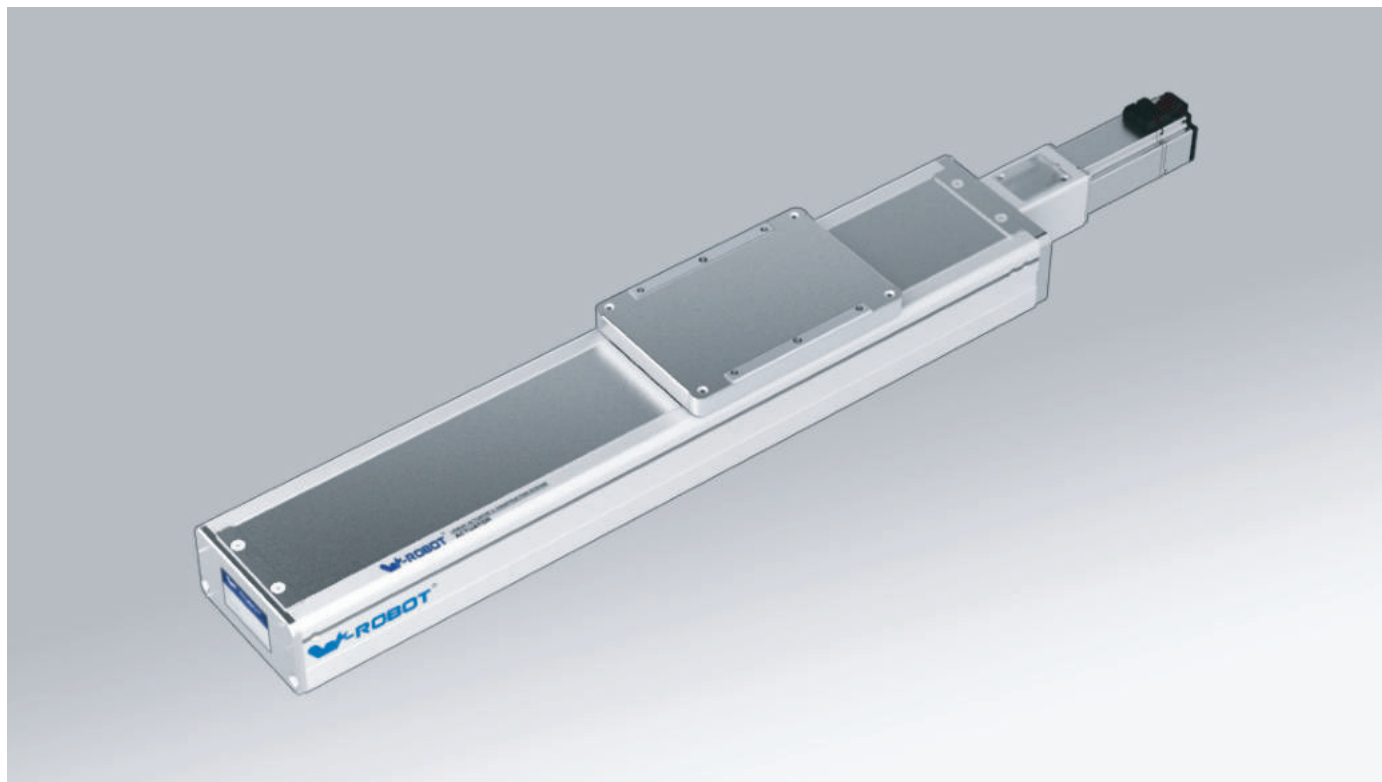
Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	283	333	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

VC10 — L16 — P — S100 — BC — ZP10B — C3 —

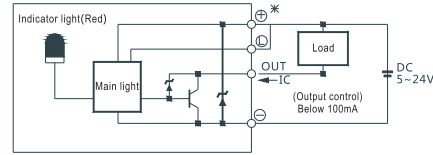
Base Style	Ball Screw Lead	Accuracy class	Stroke(mm)	Motor way	Motor Type	Motor power	Original Sensor position	Sensor switch	Non-standard, d.c.,
V Vseries	L5 5mm	P High precision	100-1000	BA Basis	P Panasonic	10 100W	External	External	No Standard type
C Cleanse Fully-enclosed	L10 10mm	C Common precision		BC External	M Mitsubishi	20 200W	C Motor side	2 2pcs	BL1
10 Body width100	L16 16mm			BR Right Side	Y Yaskawa	40 400W	D Oppsite motor side	3 3pcs	B2
	L20 20mm			BL Left Side	T Delta	57 57-08	E No	No sensor	D01
				M Build-In Motor	W W-Robot	57 57-06.35			U01
									UD01
									H01
									HU01
									HD01
									HUD01
									M01
									S01
									T

If the linear satges require the extra sealing strip, please add the "T" at the end of the model numbers.

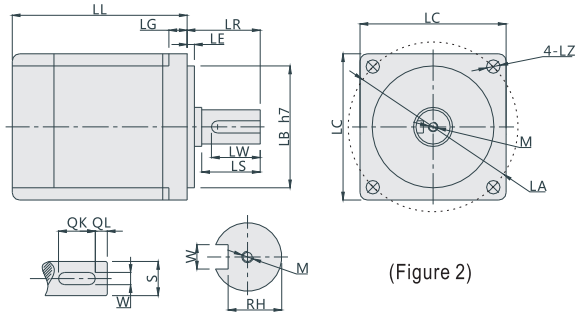
Specification

AC (W) Motor power AC (W)	100W/200W/400W			
BallScrewØ	(C7)	16		
	(C5)	16		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	800	1000
Maximum Payload(kg)	Horizontal	50/65/65	30/39/45	22/28/33
	Vertical	12/15/18	8/10/12	5/6/7
RatedThrust(N)	330/683/1388	165/341/694	100/213/433	85/174/347
Linear Guide (mm)	15x12.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	8x10	11x10	14x10	14x10
Motor Output	100W	200W	400W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm,if logner travel needed,it will be lower.In case stroke over 600 will lead to swing of ball screw,please slow down the speed 15%.Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

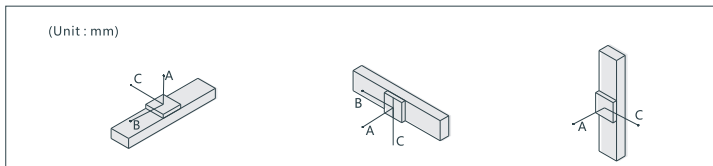
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-

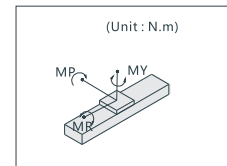
□ Stand for empty

Max. Payload Diameters Table



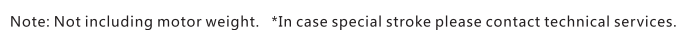
Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	30kg	424	24	25	Lead 5	10kg	105	50	1400	Lead 5	5kg	100	145
	50kg	0	0	0		20kg	22	0	538		10kg	50	90
	-	-	-	-		30kg	0	0	0		12kg	23	63
Lead 10	15kg	394	76	79	Lead 10	10kg	100	50	545	Lead 10	4kg	335	375
	25kg	184	22	25		20kg	20	0	221		6kg	140	180
	30kg	111	-	-		30kg	0	0	0		8kg	100	140
Lead 16	5kg	937	282	259	Lead 16	5kg	116	58	605	Lead 16	1kg	372	418
	10kg	487	121	116		10kg	24	0	253		2kg	166	202
	15kg	236	40	44		15kg	0	0	0		3kg	113	159

Max. Static Torque Table



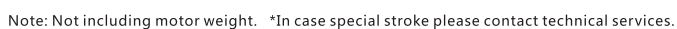
Maximum static torque	
MY	131
MP	131
MR	115

Unit (mm)



*Products with color are available stock and short lead time.

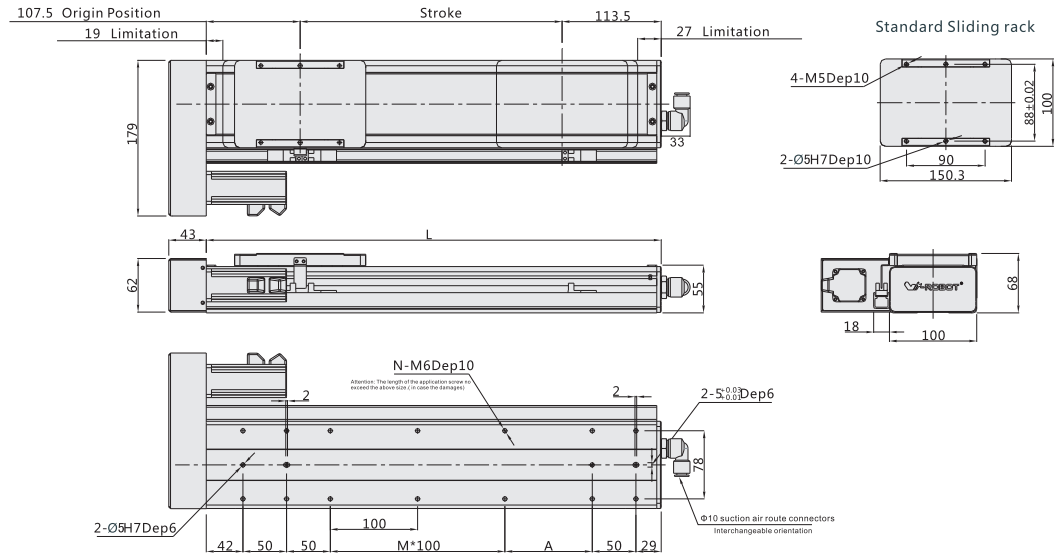
Unit (mm)



*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



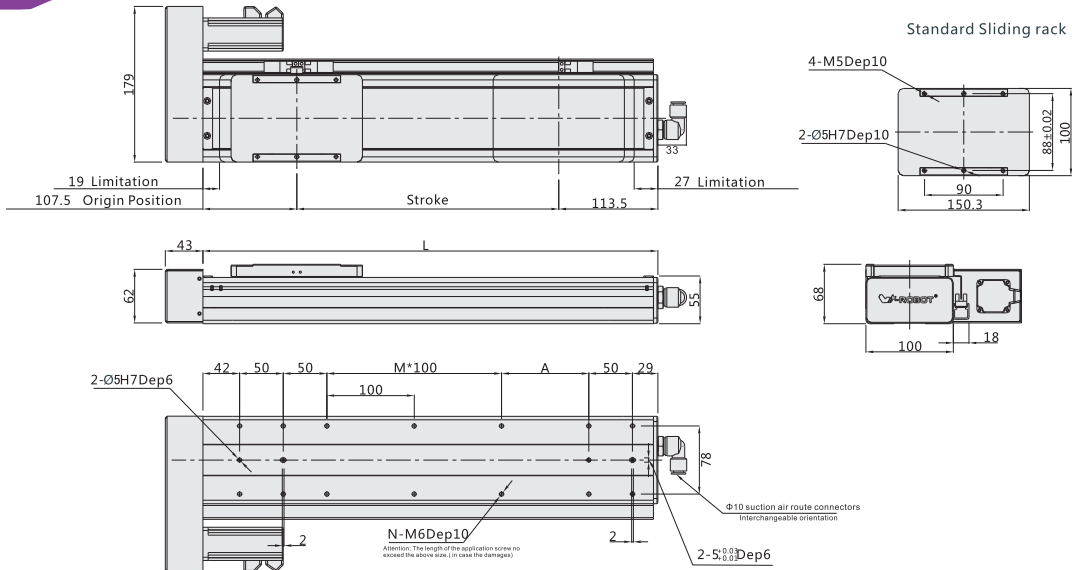
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	321	371	421	471	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6

*Products with color are available stock and short lead time.

BR: Right Side

Unit (mm)



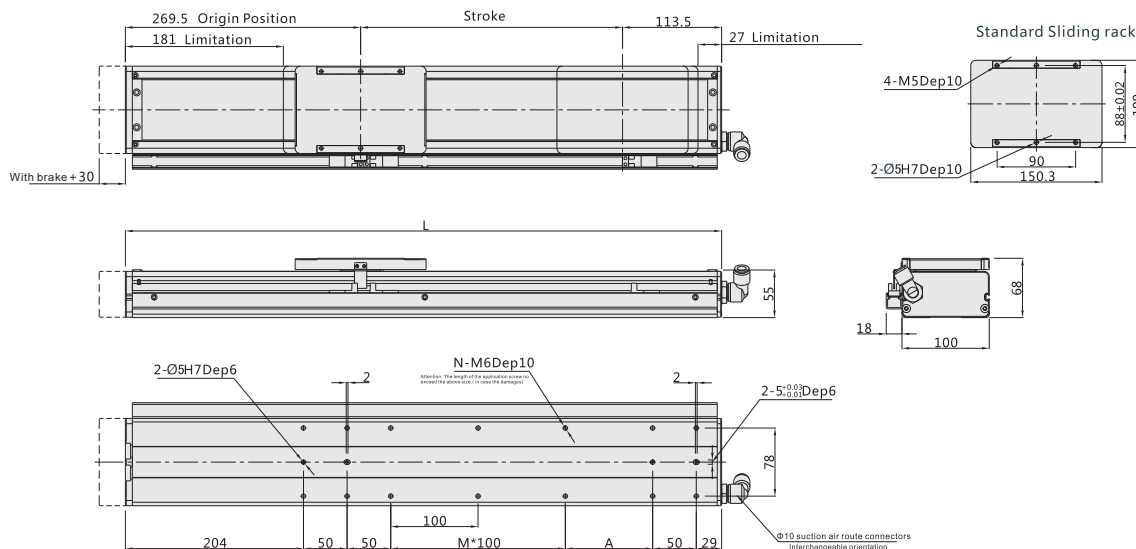
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	321	371	421	471	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6

*Products with color are available stock and short lead time.

M:Built-in

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.3	11.7	12.1

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

VC12 — L16 — P — S100 — BC — ZP20B — C3 —

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,		
V	Vseries	L5	5mm	P	High precision	100-1200	BA	Basis	P	Panasonic	20	200W	External		External		No	Standard type	
C	Cleanse Fully-enclosed	L10	10mm	C	Common precision		BC	External	M	Mitsubishi	40	400W	C	Motor side	2	2pcs	BL1	Detailed information please see page032	
12	Body width120	L16	16mm				BR	Right Side	Y	Yaskawa	57	57-08	D	Oppsite motor side	3	3pcs	B2		
		L20	20mm				BL	Left Side	T	Delta		57-06.35	E	No	No sensor	D01			
							M	Build-In Motor	W	W-Robot	Brakes						U01		
									* For Z: Motor is from clients		No	No brake					UD01		
											B	With brake							H01
															Sensor type				HU01
															No	NPN			HD01
															P	PNP			HUD01
																			M01
																			S01
																			T

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If the linear satges require the extra sealing strip,please add the "T" at the end of the model numbers.

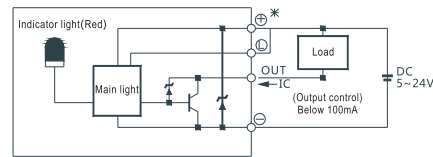
If the linear satges require the extra sealing strip, please add the "T" at the end of the model numbers.

Specification

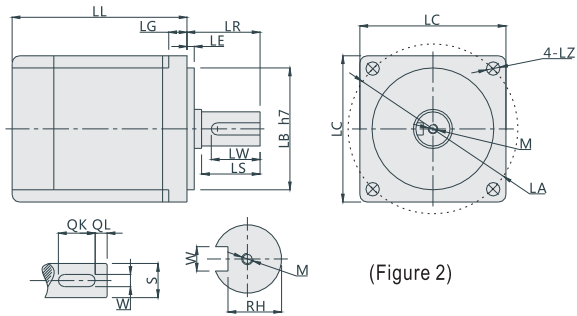
Motor power AC (W)	200W/400W			
BallScrewØ(mm)	(C7)	16		
	(C5)	16		
Repeatability(mm)	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	800	1000
Maximum Payload(kg)	Horizontal	70/84	47/56	30/36
	Vertical	17/20	12/17	6/7
RatedThrust(N)	683/1388	341/694	213/433	174/347
Linear Guide (mm)	15x12.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	11x10	14x10	14x10	
Motor Output	200W		400W	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)		
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)		

* Above repeatability is within stroke 300mm,if logner travel needed,it will be lower.In case stroke over 600 will lead to swing of ball screw,please slow down the speed 15%.Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

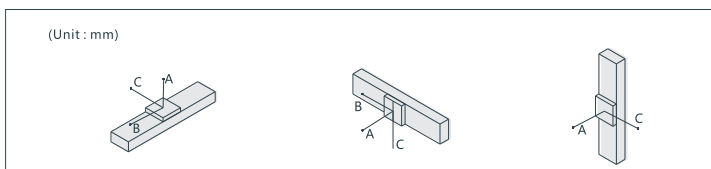
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

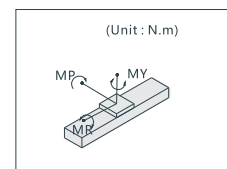
□ Stand for empty

Max. Payload Diameters Table



Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	40kg	2448	316	322	Lead 5	40kg	204	112	1394	Lead 5	5kg	762	614
	55kg	2197	247	257		55kg	130	57	1115		10kg	607	489
	70kg	2005	207	219		70kg	85	24	895		12kg	498	493
Lead 10	25kg	1958	370	490	Lead 10	25kg	414	333	1277	Lead 10	4kg	1365	1101
	35kg	1660	370	330		35kg	235	157	929		6kg	901	727
	47kg	1725	247	243		47kg	129	57	751		8kg	674	543
Lead 16	10kg	1800	1400	311	Lead 16	10kg	461	372	1410	Lead 16	1kg	1087	1217
	20kg	1100	1100	139		20kg	264	178	1027		2kg	997	805
	30kg	1047	445	324		30kg	148	69	832		6kg	747	603

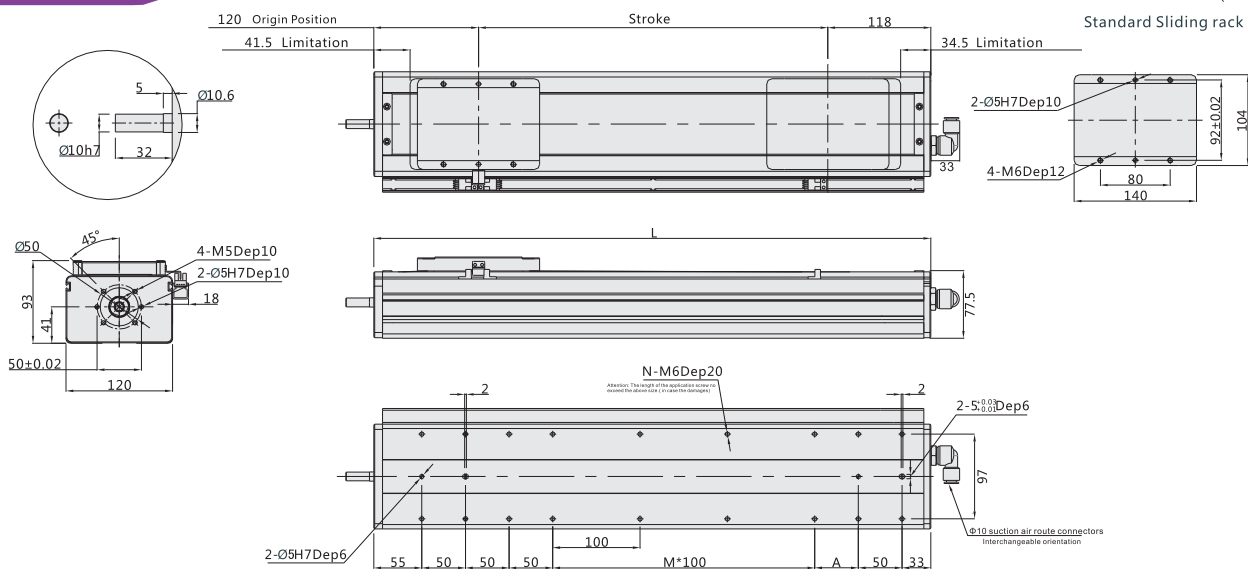
Max. Static Torque Table



Maximum static torque	
MY	174
MP	175
MR	153

BA: Basis

Unit (mm)



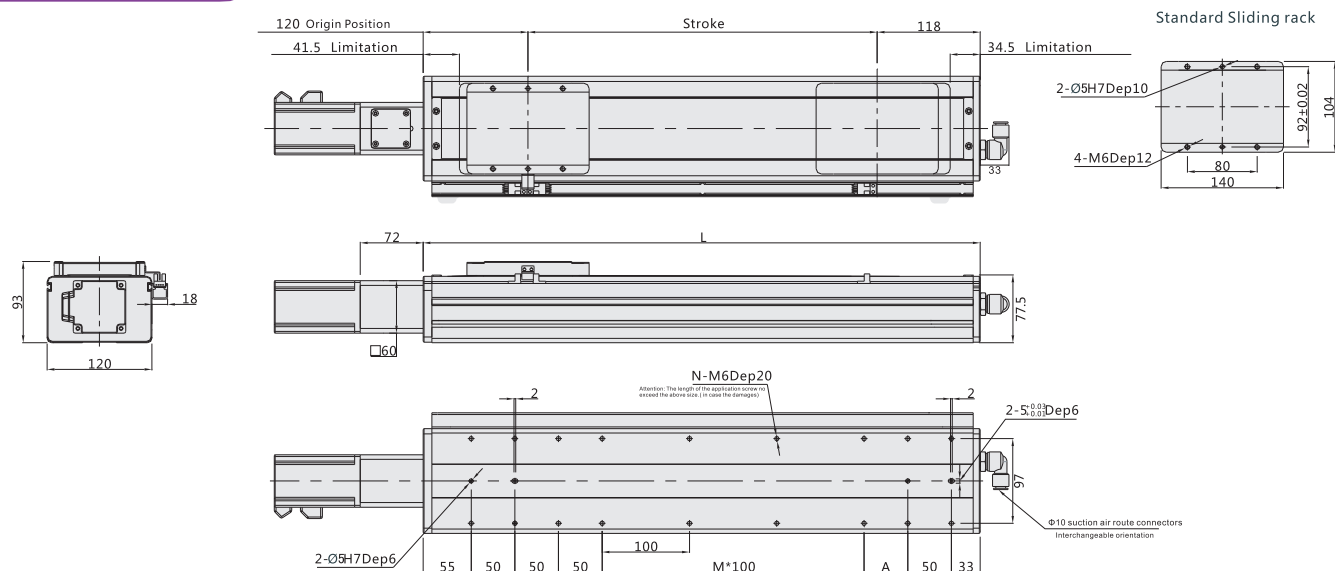
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9

*Products with color are available stock and short lead time.

BC: External

Unit (mm)

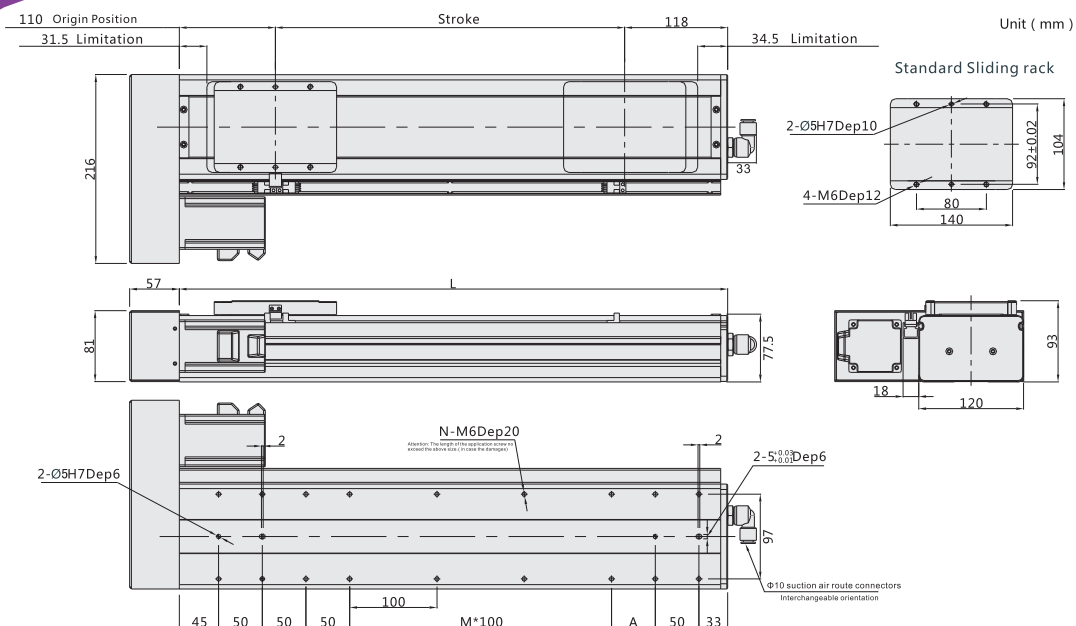


Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2

*Products with color are available stock and short lead time.

BL: Left Side

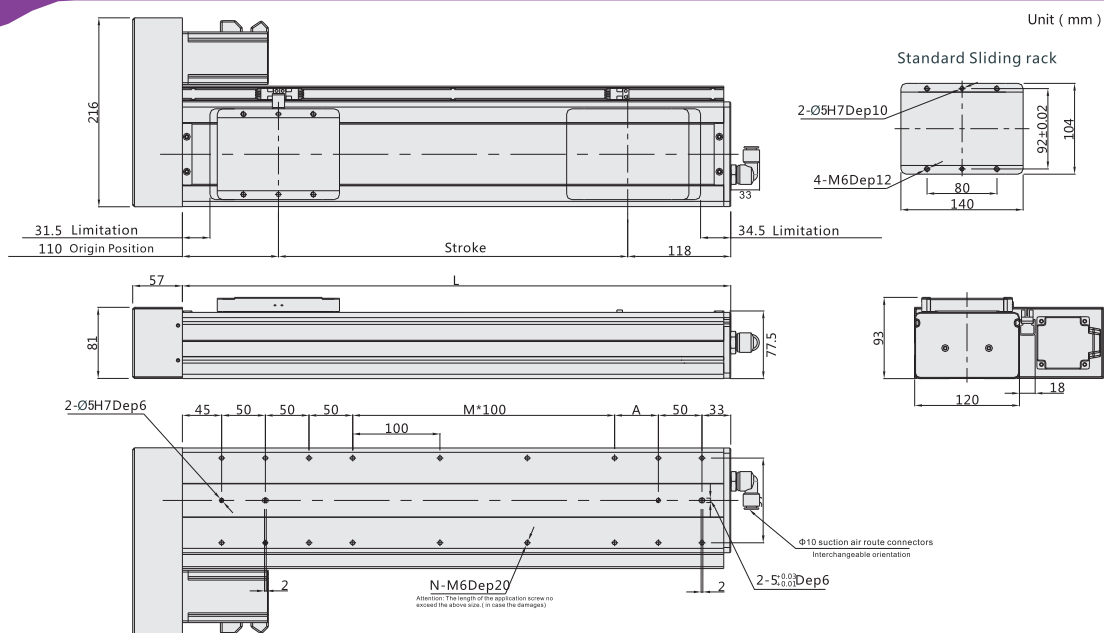


Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3

*Products with color are available stock and short lead time.

BR: Right Side



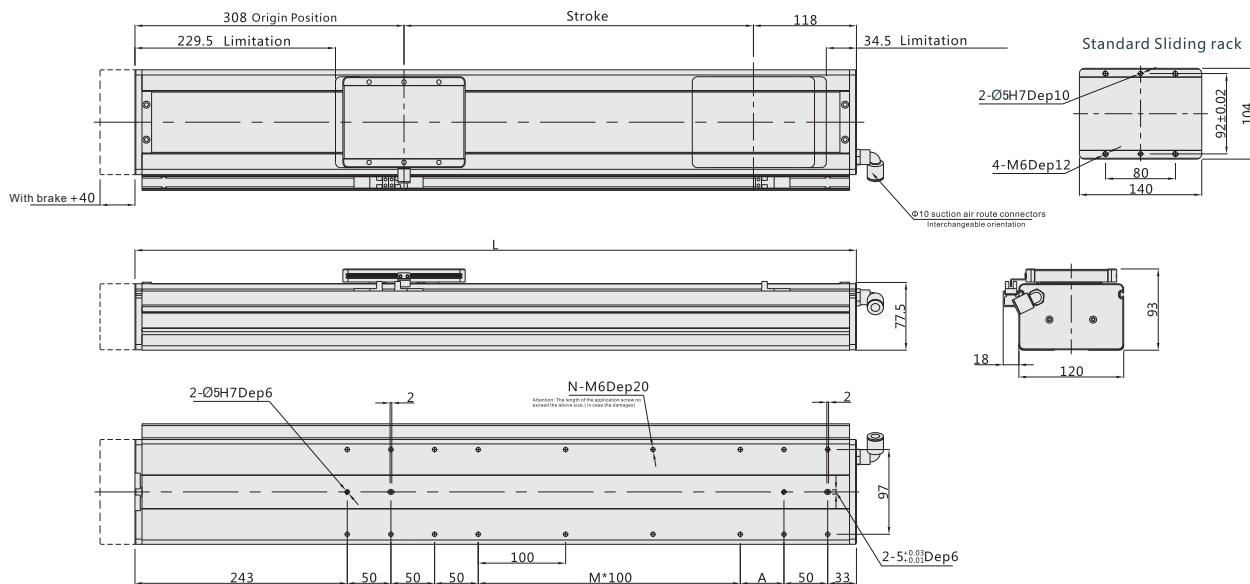
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3

*Products with color are available stock and short lead time.

M:Built-in

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9

*Products with color are available stock and short lead time.



BA	BC	BL	BR	M

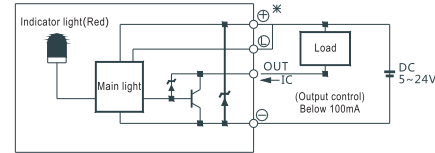
VC14 – L20 – P – S100 – BC – ZP40B – C3 –

If the linear satges require the extra sealing strip, please add the "T" at the end of the model numbers.

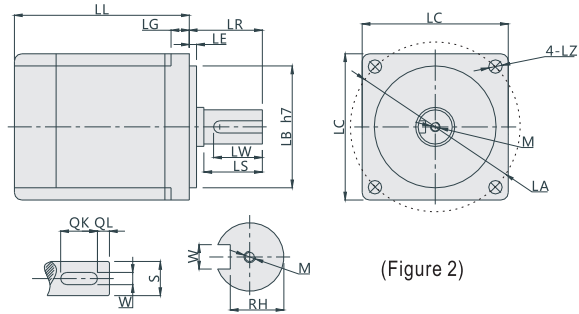
Specification

Motor power AC (W)	400W/750W			
BallScrew Ø (mm)	(C7)	20		
	(C5)	20		
Repeatability (mm)	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	20	40
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1000	2000
Maximum Payload(kg)	Horizontal	110/115	100/105	70/80
	Vertical	40/45	29/35	14/20
RatedThrust(N)	1388/2565	694/1281	347/640	170/320
Linear Guide (mm)	20x15.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	14x12		19x12	
Motor Output	400W		750W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm,if logner travel needed,it will be lower.In case stroke over 600 will lead to swing of ball screw,please slow down the speed 15%.Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

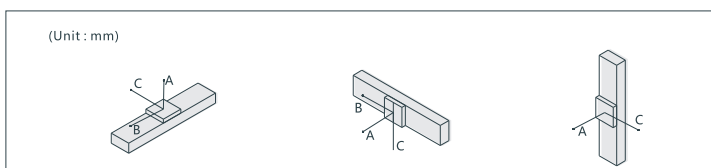
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

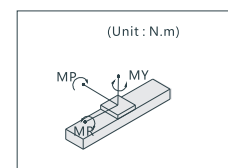
□ Stand for empty

Max. Payload Diameters Table



Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	55kg	2235	327	433	Lead 5	55kg	378	263	1829	Lead 5	15kg	1133	915
	95kg	1500	156	249		95kg	208	124	1497		25kg	908	743
	115kg	1385	152	202		115kg	163	89	1377		45kg	745	722
Lead 10	55kg	1830	321	428	Lead 10	55kg	400	265	1831	Lead 10	10kg	1334	1334
	70kg	1508	190	252		70kg	220	135	1508		20kg	788	788
	90kg	1389	156	206		90kg	173	100	1389		35kg	563	563
Lead 20	25kg	1989	675	746	Lead 20	25kg	737	612	1930	Lead 20	1kg	1265	1265
	45kg	1332	395	445		45kg	427	332	1260		5kg	1114	1114
	78kg	1047	238	201		78kg	253	174	944		20kg	489	489

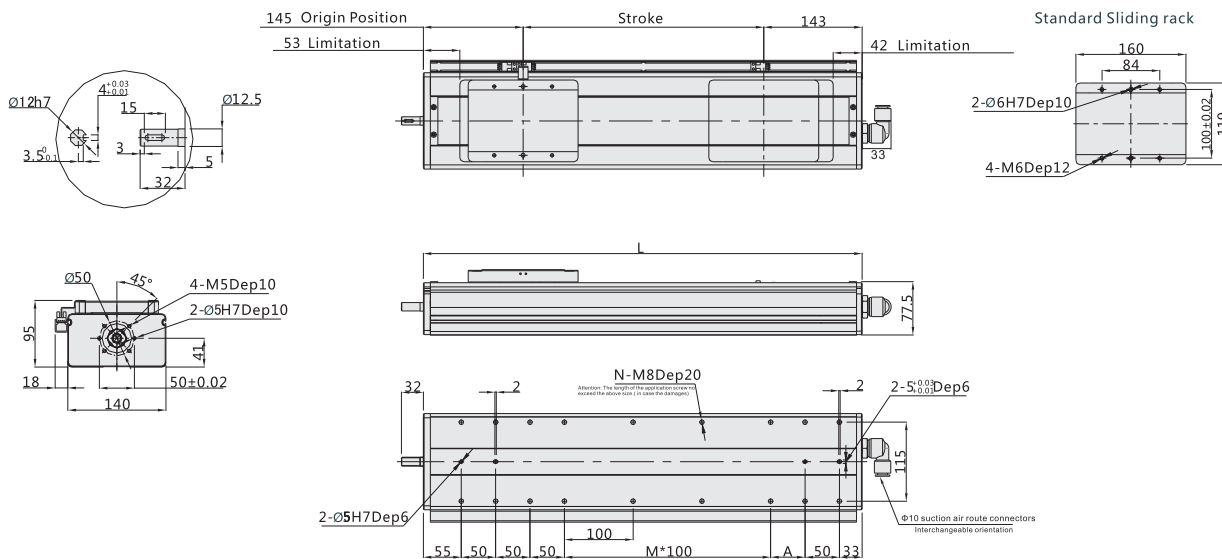
Max. Static Torque Table



Maximum static torque	
MY	784
MP	788
MR	691

BA: Basis

Unit (mm)



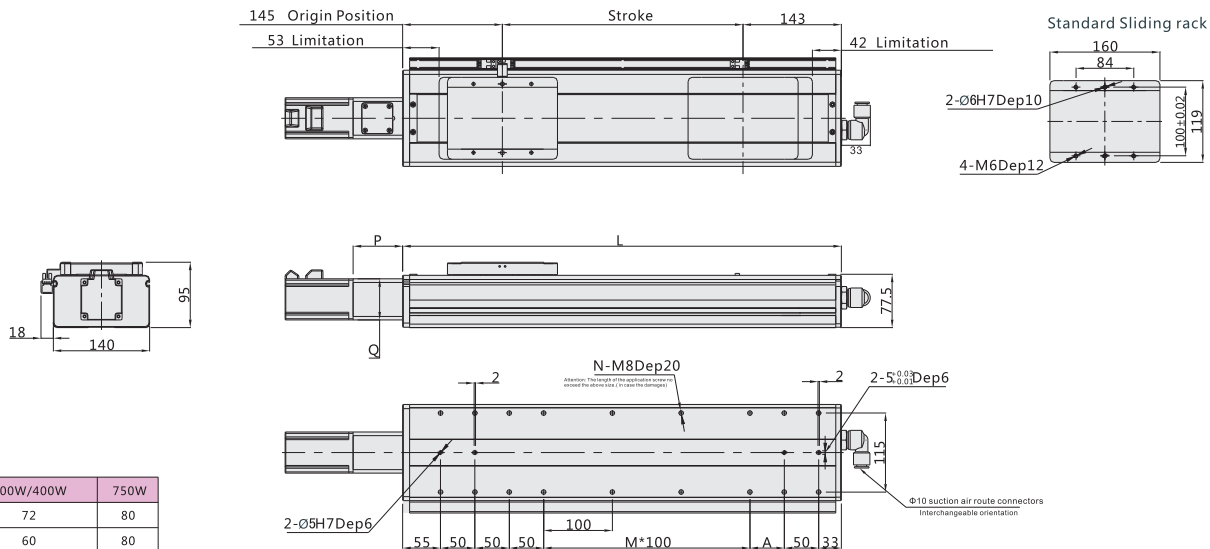
Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788
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	14
N	12	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	40
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	50	100	50	100
Weight KG	9.4	10.1	10.8	11.5	12.2	12.9	13.6	14.3	15	15.7	16.4	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	29

*Products with color are available stock and short lead time.

BC: External

Unit (mm)



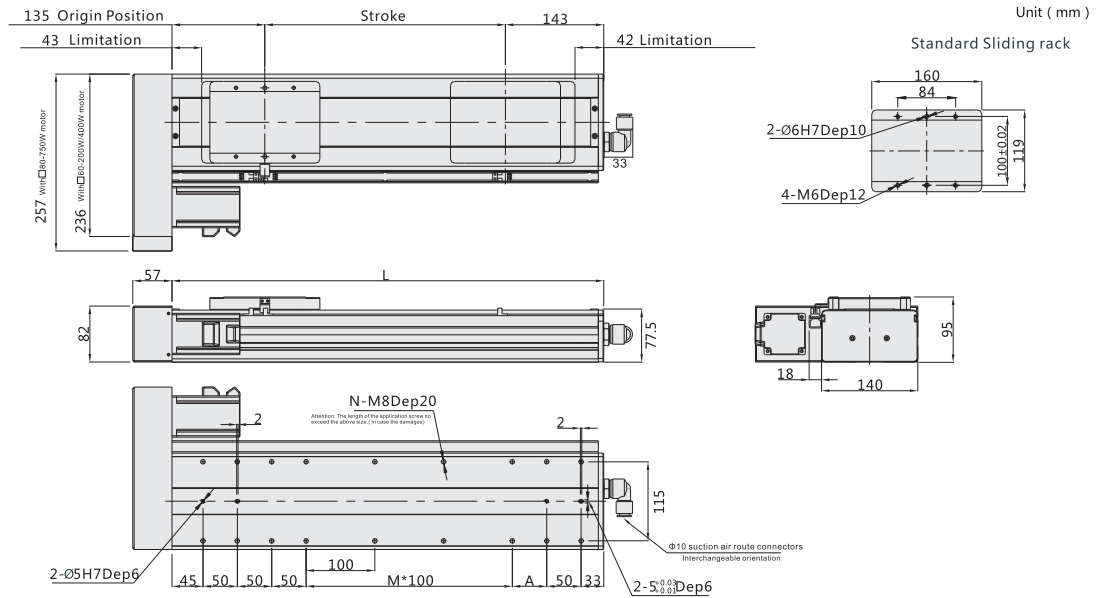
Motor specifications	200W/400W	750W
Corresponding to P value	72	80
Corresponding to A value	60	80

Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788
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	14
N	12	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	40
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	50	100	50	100
Weight KG	10.1	10.8	11.5	12.2	12.9	13.6	14.3	15	15.7	16.4	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	29	29.7

*Products with color are available stock and short lead time.

BL: Left Side

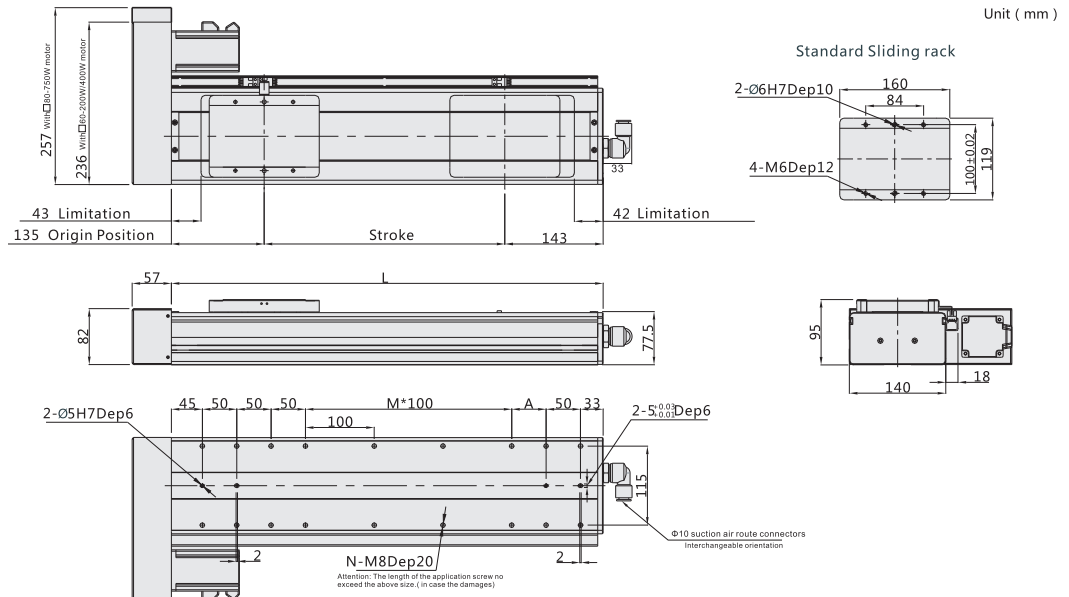


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
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	14
N	12	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	40
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	50	100	50	100
Weight KG	11	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

*Products with color are available stock and short lead time.

BR: Right Side



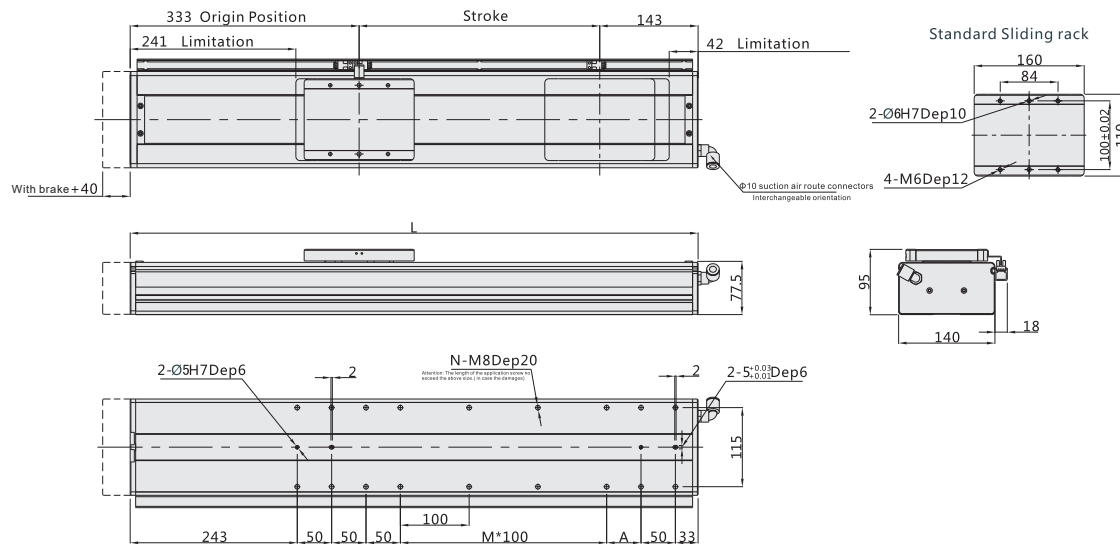
Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
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	14
N	12	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	40
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	50	100	50	100
Weight KG	11	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

*Products with color are available stock and short lead time.

M:Built-in

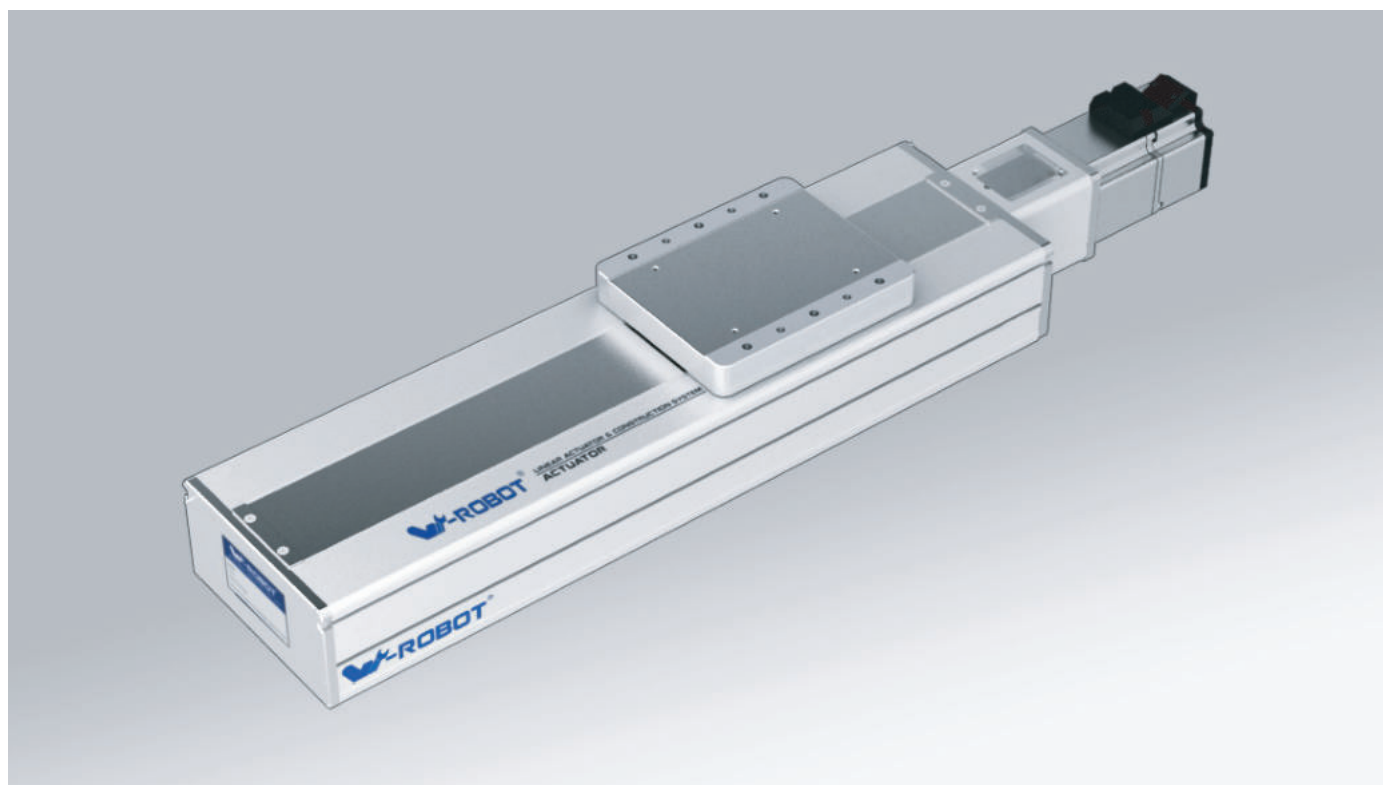
Unit (mm)



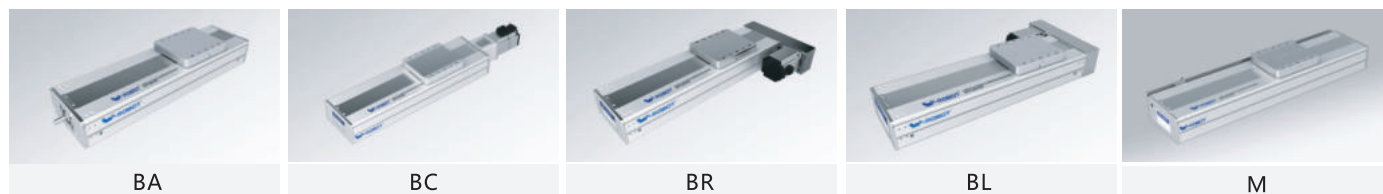
Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726	1776	1826	1876	1926	1976
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	14
N	12	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	40
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	50	100	50	100
Weight KG	10.8	11.5	12.2	12.9	13.6	14.3	15	15.7	16.4	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	29	29.7	30.4

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

VC17 – L20 – P – S100 – BC – ZP75B – C3 –

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.	
V	Vseries	L5	5mm	P	High precision	100-1500	BA	Basis	P	Panasonic	40	400W	External		External		No	Standard type
C	Cleance Fully-enclosed	L10	10mm	C	Common precision		BC	External	M	Mitsubishi	75	750W	C	Motor side	2	2pcs	BL1	
17	Body width170	L20	20mm				BR	Right Side	Y	Yaskawa	Brakes		D	Oppsite motor side	3	3pcs	B2	
		L40	40mm				BL	Left Side	T	Delta	No	No brake	E	No	No sensor		D01	
						M	Build-In Motor	W	W-Robot	B	With brake					Sensor type		U01
																No	NPN	UD01
																P	PNP	H01
																		HU01
																		HD01
																		HUD01
																		M01
																		S01
																		T

* For Z: Motor is from clients

Sensor type	
No	NPN
P	PNP

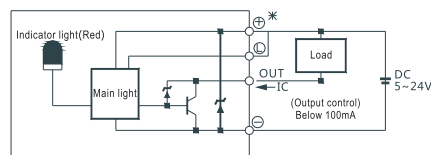
Detailed information please see page032

Specification

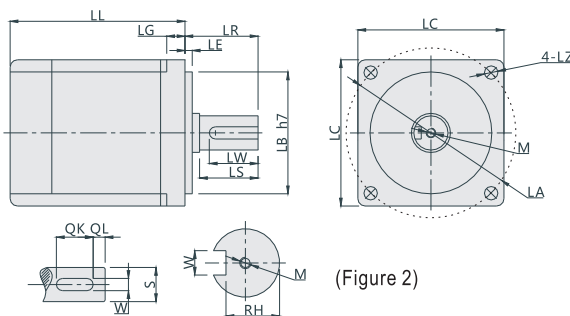
Motor power AC (W)	400W/750W			
BallScrewØ(mm)	(C7)	20		
	(C5)	20		
Repeatability (mm)	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	20	40
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1000	2000
Maximum Payload(kg)	Horizontal	120/120	105/115	75/83
	Vertical	45/50	35/40	20/25
RatedThrust(N)	1388/2563	694/1281	347/640	170/320
Linear Guide (mm)	20x15.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	11x12	14x12	14x12	16x12
Motor Output	200W	400W	750W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

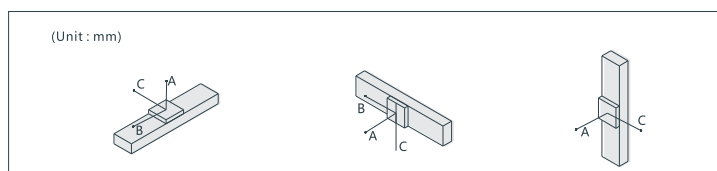
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

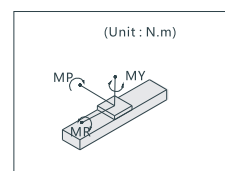
□ Stand for empty

Max. Payload Diameters Table



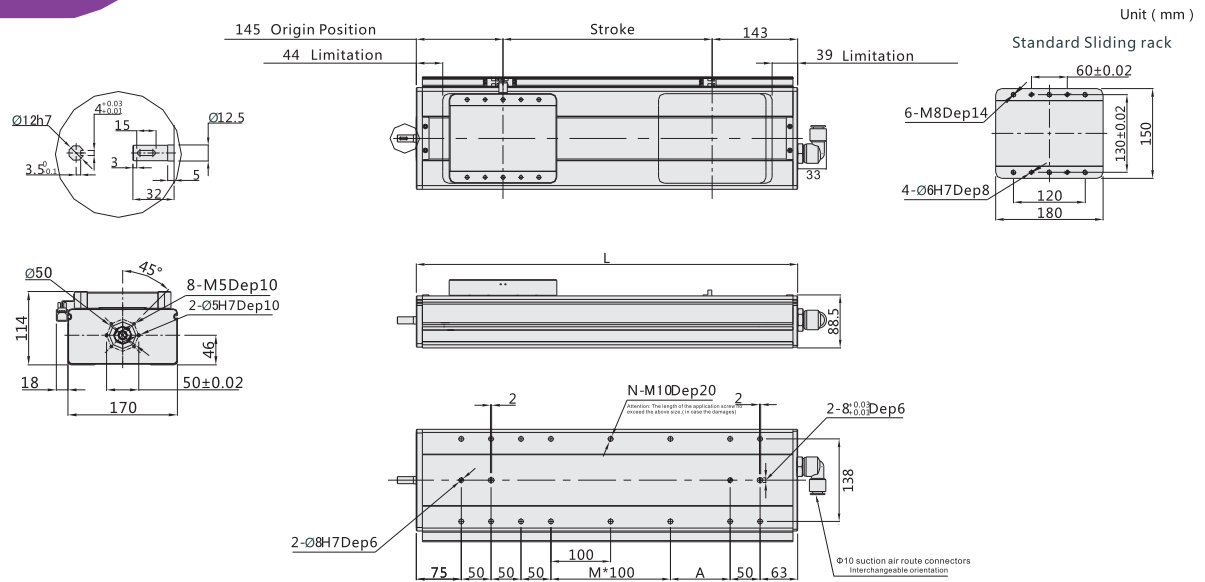
Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	60kg	2980	435	577	Lead 5	60kg	530	350	2438	Lead 5	20kg	1510	1220
	100kg	2000	207	331		100kg	277	165	1995		30kg	1210	990
	120kg	1846	202	269		120kg	215	118	1836		50kg	992	962
Lead 10	60kg	2440	428	570	Lead 10	60kg	533	353	2441	Lead 10	15kg	1778	1778
	75kg	2010	253	336		75kg	293	179	2010		25kg	1050	1050
	95kg	1851	207	274		95kg	230	133	1851		40kg	750	750
Lead 20	30kg	2652	899	994	Lead 20	30kg	982	815	2573	Lead 20	5kg	1700	1700
	50kg	1775	526	593		50kg	569	442	1680		10kg	2202	2202
	83kg	1396	317	267		83kg	337	232	1258		25kg	1485	1485

Max. Static Torque Table



Maximum static torque	
MY	1032
MP	1034
MR	908

BA: Basis

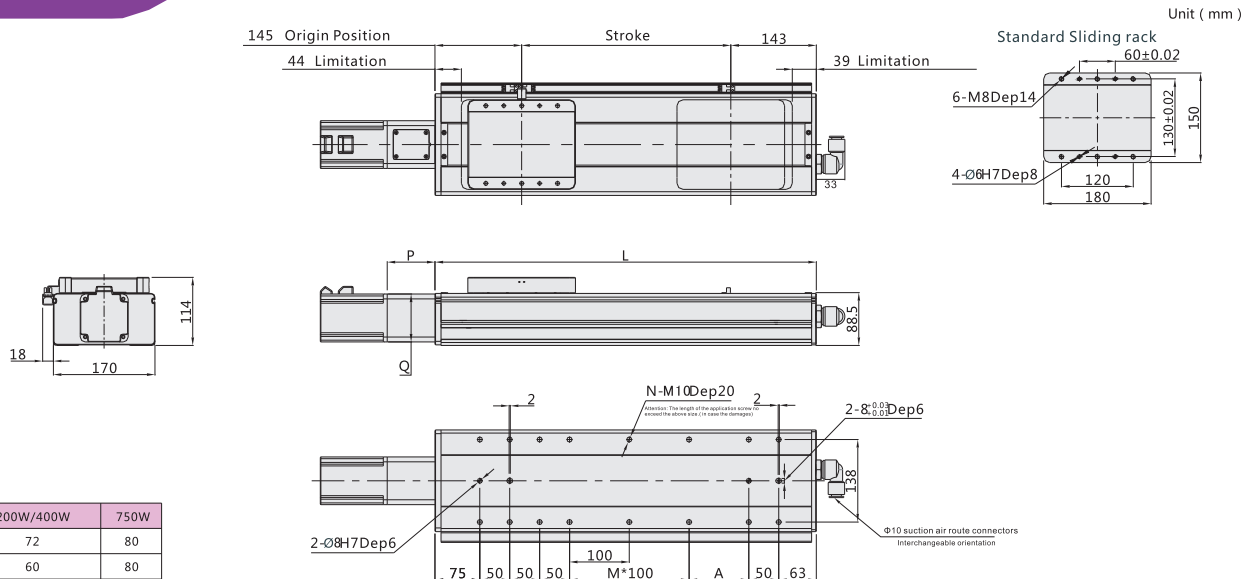


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	11.4	12.1	12.8	13.5	14.2	14.9	15.6	16.3	17	17.7	18.4	19.1	19.8	20.5	21.2	21.9	22.6	23.3	24	24.7	25.4	26.1	26.8	27.5	28.2	28.9	29.6	30.4	31

*Products with color are available stock and short lead time.

BC: External



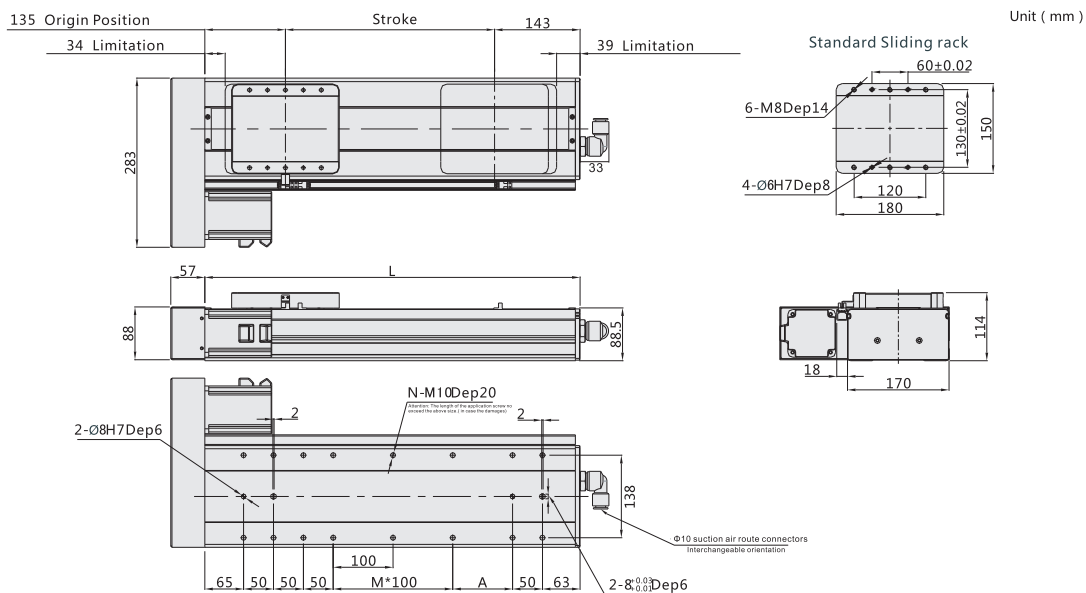
Motor specifications	200W/400W	750W
Corresponding to the P value	72	80
Corresponding to the Q value	60	80

Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	12.1	12.8	13.5	14.2	14.9	15.6	16.3	17	17.7	18.4	19.1	19.8	20.5	21.2	21.9	22.6	23.3	24	24.7	25.4	26.1	26.8	27.5	28.2	28.9	29.6	30.4	31	31.7

*Products with color are available stock and short lead time.

BL: Left Side

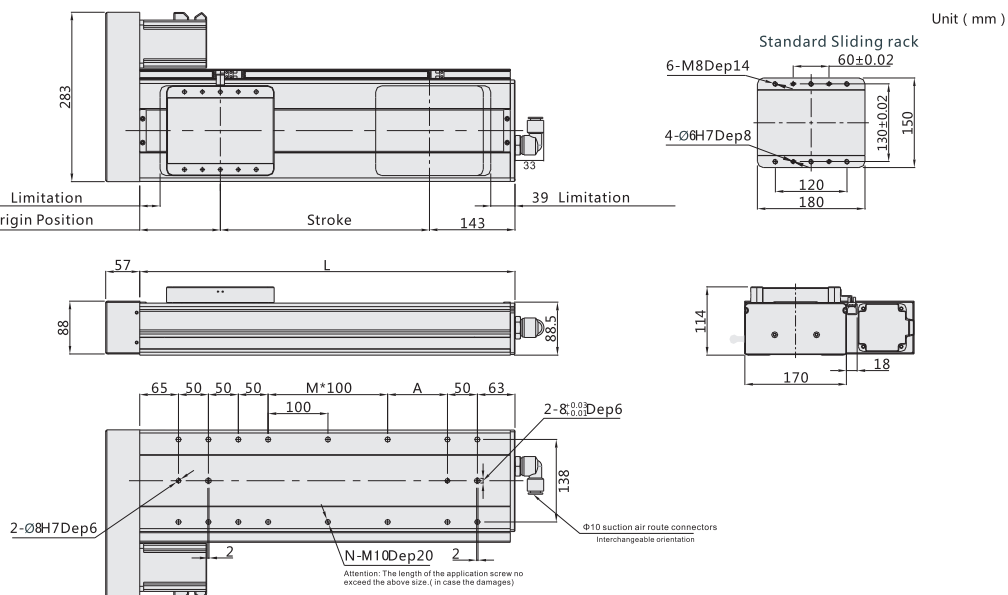


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19	19.7	20.4	21.1	21.8	22.5	23.2	23.9	24.6	25.3	26	26.7	27.4	28.1	28.8	29.5	30.2	30.9	31.6	32.4	33	33.7

*Products with color are available stock and short lead time.

BR: Right Side



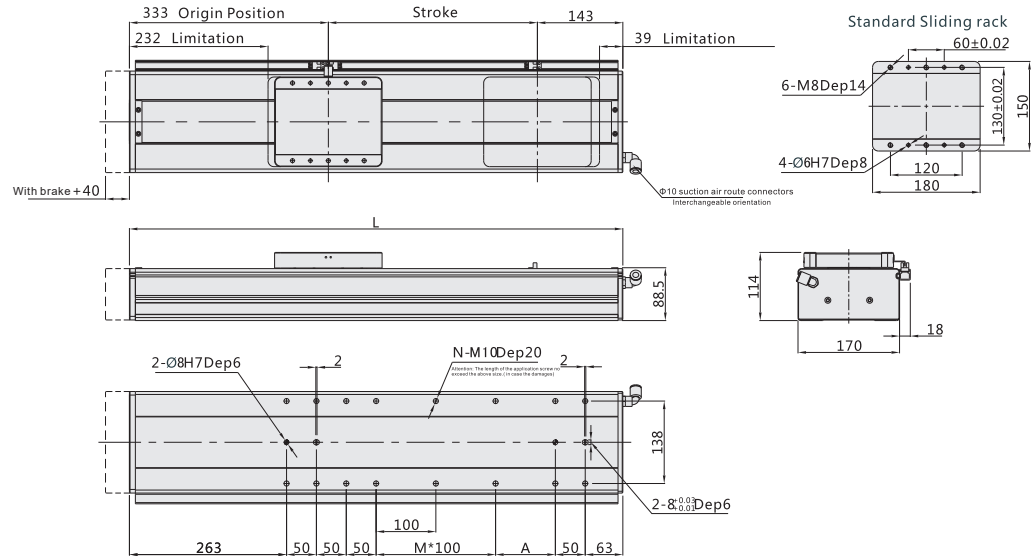
Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19	19.7	20.4	21.1	21.8	22.5	23.2	23.9	24.6	25.3	26	26.7	27.4	28.1	28.8	29.5	30.2	30.9	31.6	32.4	33	33.7

*Products with color are available stock and short lead time.

M:Built-in

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726	1776	1826	1876	1926	1976
M	0	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	12	12	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
A	50	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	50	100	50
Weight KG	12.8	13.5	14.2	14.9	15.6	16.3	17	17.7	18.4	19.1	19.8	20.5	21.2	21.9	22.6	23.3	24	24.7	25.4	26.1	26.8	27.5	28.2	28.9	29.6	30.3	31	31.7	32.4

*Products with color are available stock and short lead time.



BA	BC	BL	BR	M

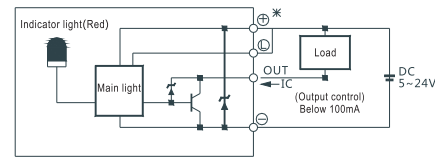
VC22 – L25 – P – S100 – BC – ZP75B – C3 –

If the linear satges require the extra sealing strip, please add the "T" at the end of the model numbers.

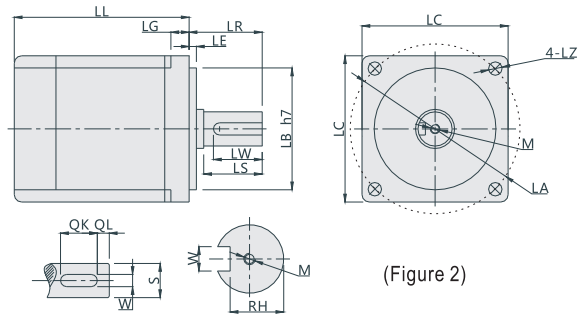
Specification

Motor power AC (W)	750W		
BallScrew Ø (mm)	(C7)	25	
	(C5)	25	
Repeatability (mm)	(C7)	±0.01	
	(C5)	±0.006	
BallScrew Lead(mm)	5	10	25
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1250
Maximum Payload(kg)	Horizontal	150	140
	Vertical	65	54
RatedThrust(N)	2100	1050	420
Linear Guide (mm)	23x18 -2		
Coupling (mm) (Motor side) x (Ball Screw Side)	19x16		
Motor Output	750W		
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 1000 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

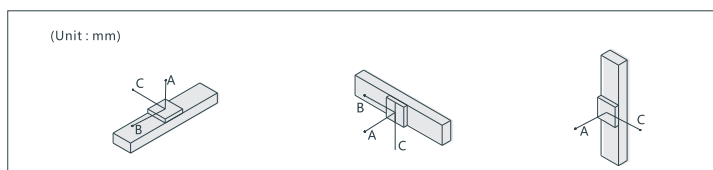
Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-
	Delta	ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-
	Mitsubishi	HC-KF573□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-

□ Stand for empty

Max. Payload Diameters Table

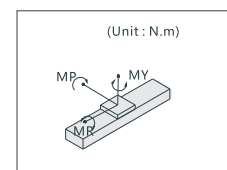


Horizontal installation		A	B	C
Lead 5	60kg	3672	653	866
	100kg	3000	370	497
	150kg	2493	273	363
Lead 10	60kg	2652	899	994
	100kg	1775	526	593
	150kg	1396	317	267
Lead 25	50kg	2862	956	1191
	80kg	2412	581	773
	120kg	2025	373	556

Wall installation		A	B	C
Lead 5	60kg	795	525	3657
	100kg	416	248	2993
	150kg	290	159	2479
Lead 10	60kg	982	815	2573
	100kg	569	442	1680
	150kg	337	232	1258
Lead 25	50kg	1207	879	2862
	80kg	779	504	2412
	120kg	515	295	2025

Vertical installation		A	C
Lead 5	30kg	2688	2688
	50kg	1893	1893
	70kg	1640	1640
Lead 10	20kg	2297	2297
	30kg	1518	1518
	45kg	999	999
Lead 25	15kg	2767	2767
	20kg	2100	2100
	25kg	1702	1702

Max. Static Torque Table

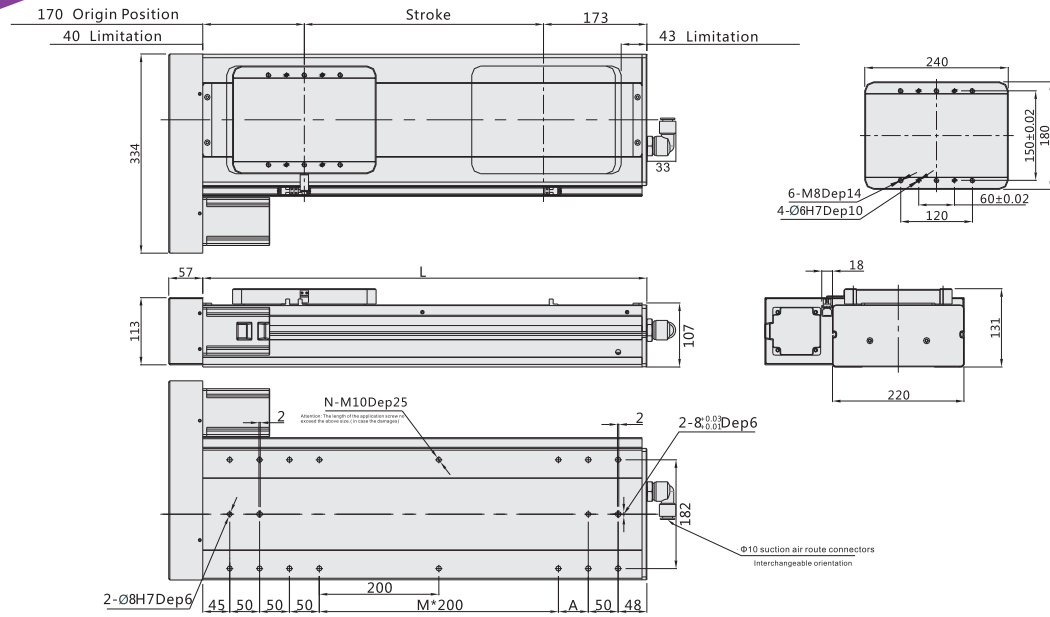


Maximum static torque	
MY	2052
MP	2052
MR	1810

*Products with color are available stock and short lead time.

*Products with color are available stock and short lead time.

BL: Left Side

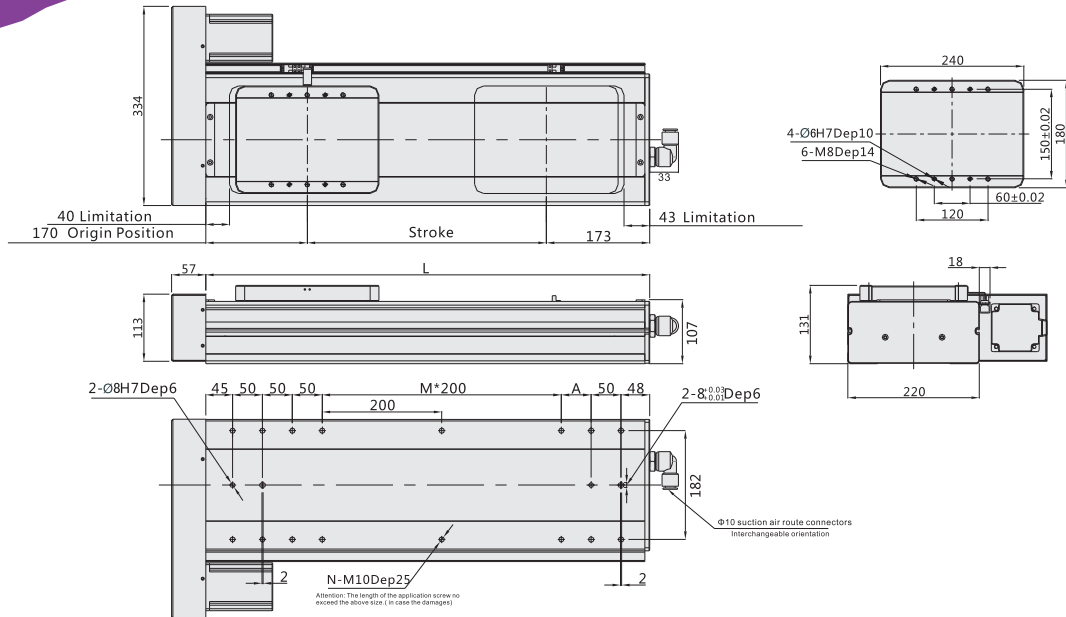


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	22.9	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	53.4	54.6	55.8	57

*Products with color are available stock and short lead time.

BR: Right Side

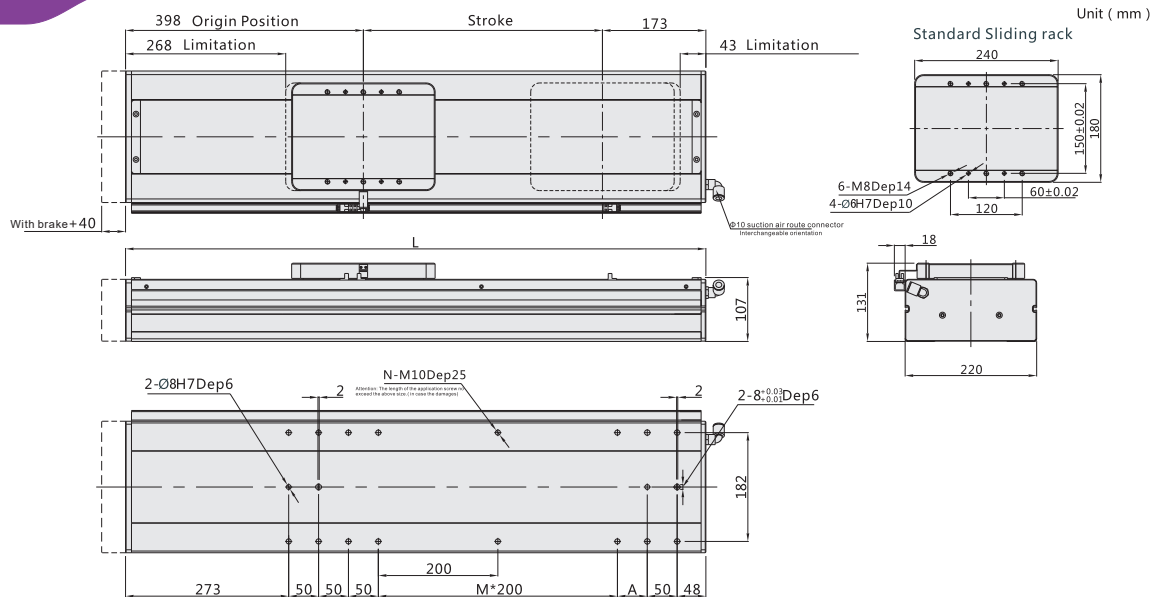


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843
M	0	0	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
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	22.9	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	53.4	54.6	55.8	57

*Products with color are available stock and short lead time.

M:Built-in



Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921	1971	2021	2071
M	0	0	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
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
Weight KG	22.9	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	53.4	54.6	55.8	57

*Products with color are available stock and short lead time.

Linear Stage Series

Timing Belt Drive Dust-free Environment

Small Type

RBC5



Maximum Stroke 800mm
Maximum Payload 5KG142
Body Width 55mm

Small Type

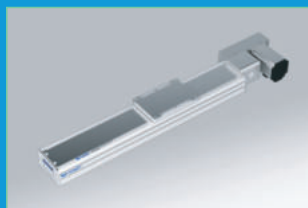
RBC6



Maximum Stroke 800mm
Maximum Payload 8KG145
Body Width 65mm

Standard Type

VBC10



Maximum Stroke 3000mm
Maximum Payload 25KG 148
Body Width 100mm

Standard Type

VBC12



Maximum Stroke 3500mm
Maximum Payload 30KG153
Body Width 120mm

VBC14



Maximum Stroke 3500mm
Maximum Payload 40KG 158
Body Width 140mm

Large Type

VBC17



Maximum Stroke 3500mm
Maximum Payload 55KG163
Body Width 170mm

Long stroke



BU

BD

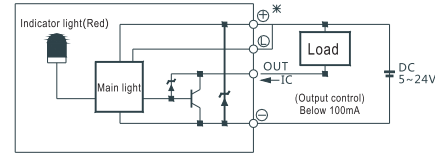
RBC5 — L80 — S100 — BU — ZW57 — C3 —

Non-standard, d.c.,	
No	Standard type
BL1	Detailed information please see page 032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

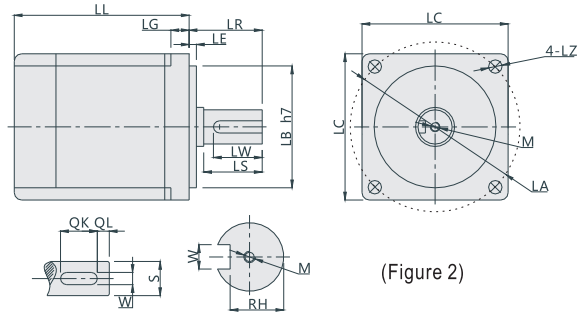
■ Specification

Motor power AC (W)		57 motor
Drive Type		Timing belt driving
Repeatability		±0.05
Lead(mm)		80
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/min)		400
Maximum Payload(kg)	Horizontal	5
	Vertical	/
RatedThrust(N)		70
Linear Guide (mm)		24x8.5-1
Home Sensor		Outside EE-SX672(NPN) EE-SX672P(PNP)
		Outside Guide EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

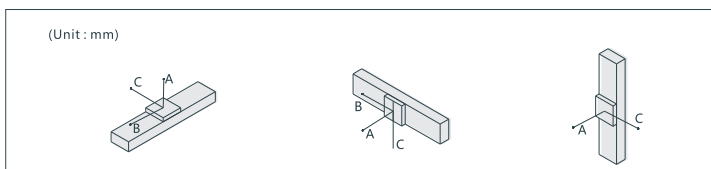
■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
57 motor	w-ROBOT	W57S□	V:With brake U:No brake	81	97	66.67	1.6	4.5	57	4.8	15	7.2	-	21	8h6	38.1h7	-	-	-

□ Stand for empty

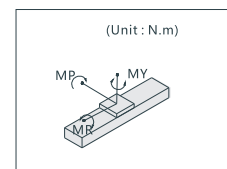
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
1kg	250	32	100
2.5kg	108	12	38

Wall installation	A	B	C
1kg	75	23	170
2.5kg	22	0	65

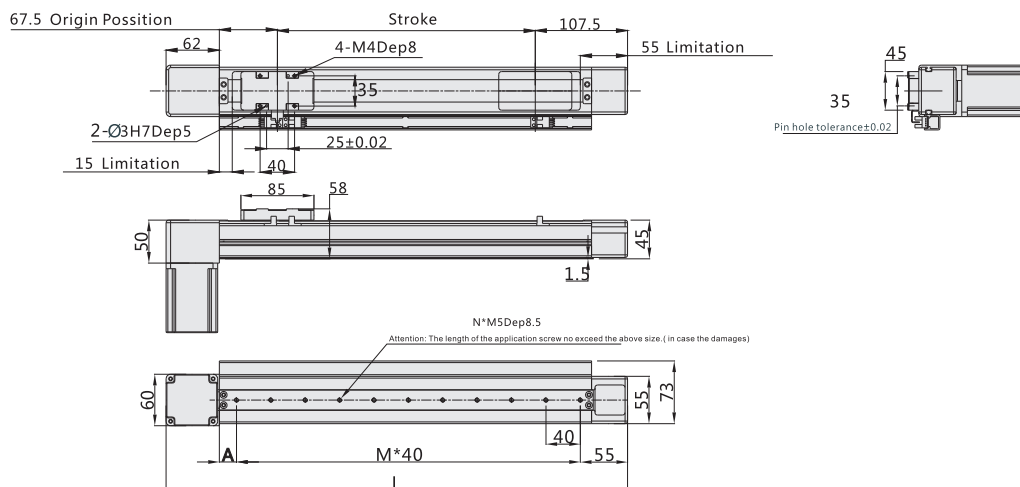
■ Max. Static Torque Table



Maximum static torque	
MY	56
MP	56
MR	95

BD: Down Side

Unit (mm)



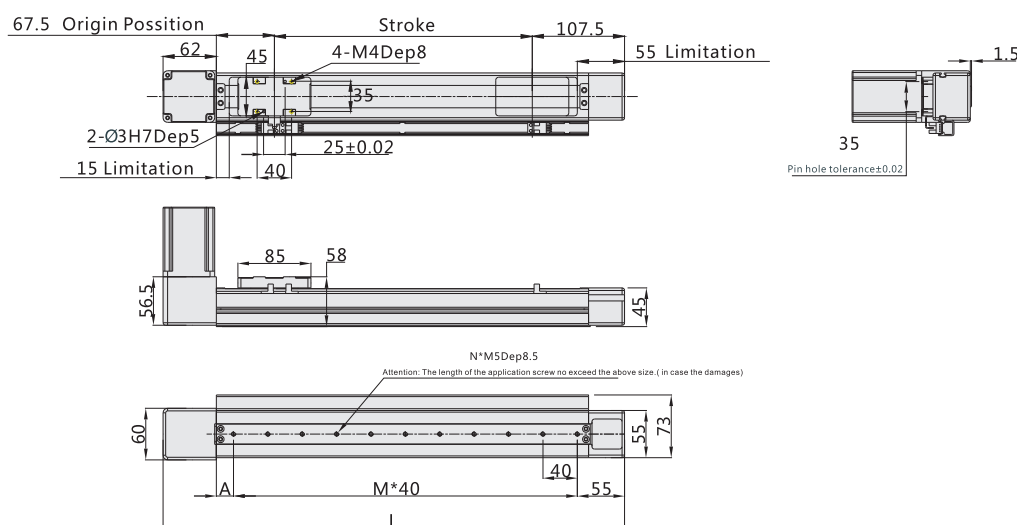
Note: Not including motor weight.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	337	387	437	487	537	587	637	687	737	787	837	887	937	987	1037
M	5	6	7	9	10	11	12	14	15	16	17	19	20	21	22
N	6	7	8	10	11	12	13	15	16	17	18	20	21	22	23
A	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40
Weight KG	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6

*In case special stroke please contact technical services.

BU: Upper Side

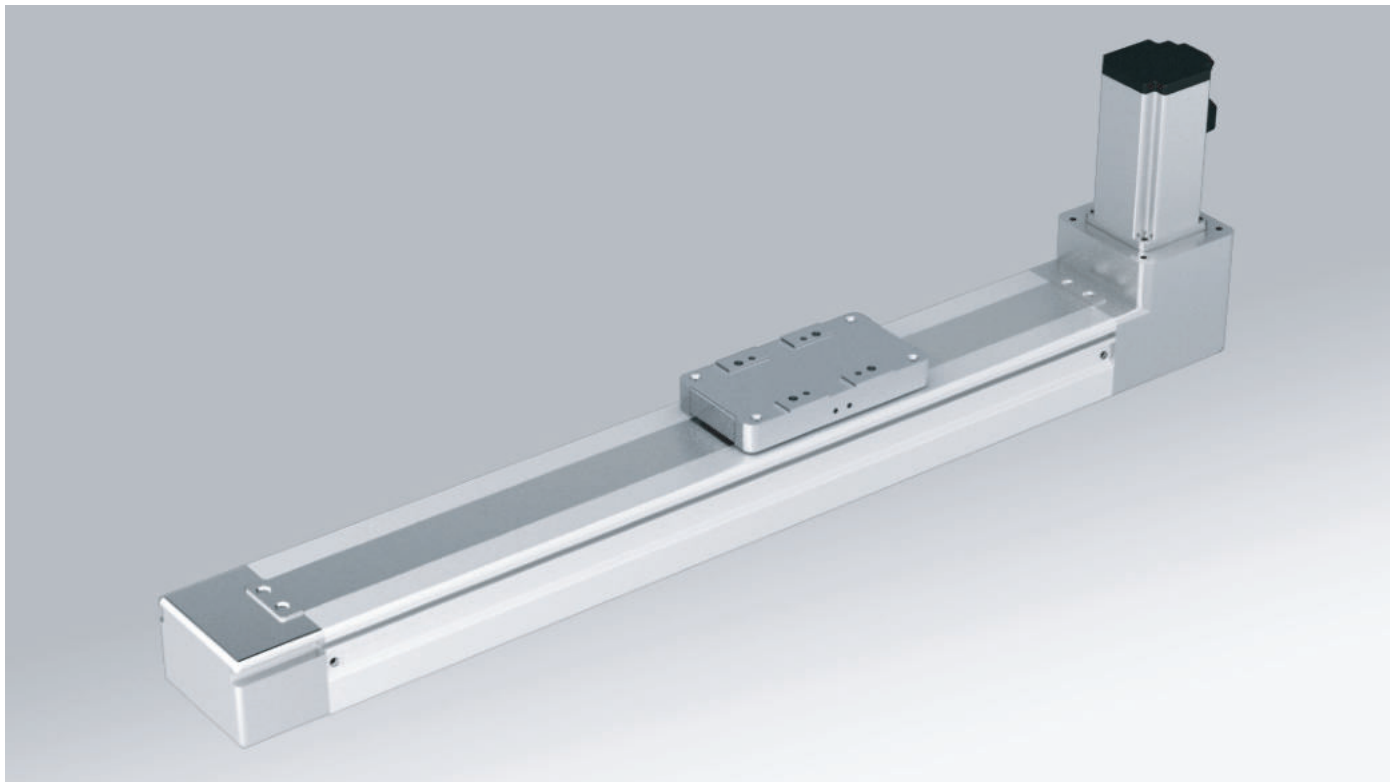
Unit (mm)



Note: Not including motor weight.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	337	387	437	487	537	587	637	687	737	787	837	887	937	987	1037
M	5	6	7	9	10	11	12	14	15	16	17	19	20	21	22
N	6	7	8	10	11	12	13	15	16	17	18	20	21	22	23
A	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40
Weight KG	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6

*In case special stroke please contact technical services.



Motor direction



Guide for Model Selection

RBC6 — **L80** — **S100** — **BU** — **ZW57** — **C3** —

Base Style	
R	R series
BC	Cleane Belt Type
6	Body width 65

Leather belt Type	
L	Clean belt
X	Rubber belt
Lead	
80	80mm

Stroke(mm)
100-800

Motor way	
BU	Upper Side
BD	Down Side

Motor Type		Motor power	
W	W-Robot	57	57-08
* For Z: Motor is from clients		Brakes	
No	No brake		
B	With brake		

Original Sensor position		Sensor switch	
External		External	
C	Motor side	2	2pcs
D	Oppsite motor side	3	3pcs
E	No	No sensor	

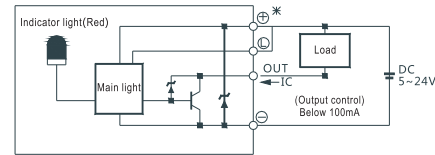
Sensor type	
No	NPN
P	PNP

Non-standard, d.c.,	
No	Standard type
BL1	Detailed information please see page 032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

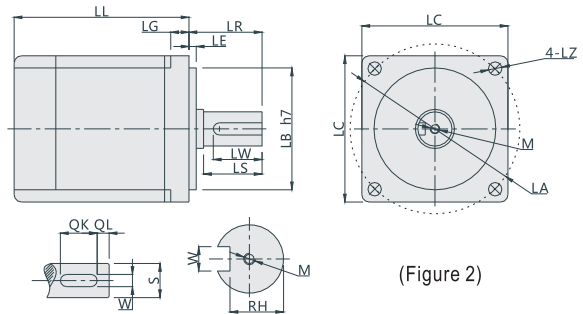
Specification

Motor power AC (W)	57 motor	
Drive Type	Timing belt driving	
Repeatability	±0.05	
Lead(mm)	80	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	400	
Maximum Payload(kg)	Horizontal	8
	Vertical	/
RatedThrust(N)	70	
Linear Guide (mm)	42x9.5-1	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

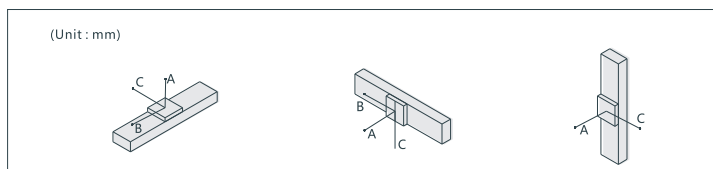
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
57 motor	W-ROBOT	W57S□	V-With brake U:No brake	81	97	66.67	1.6	4.5	57	4.8	15	7.2	-	21	8h6	38.1h7	-	-	-

□ Stand for empty

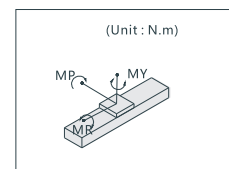
Max. Payload Diameters Table



Horizontal installation	A	B	C
2.5kg	250	32	100
5kg	108	12	38

Wall installation	A	B	C
2.5kg	75	23	170
5kg	22	0	65

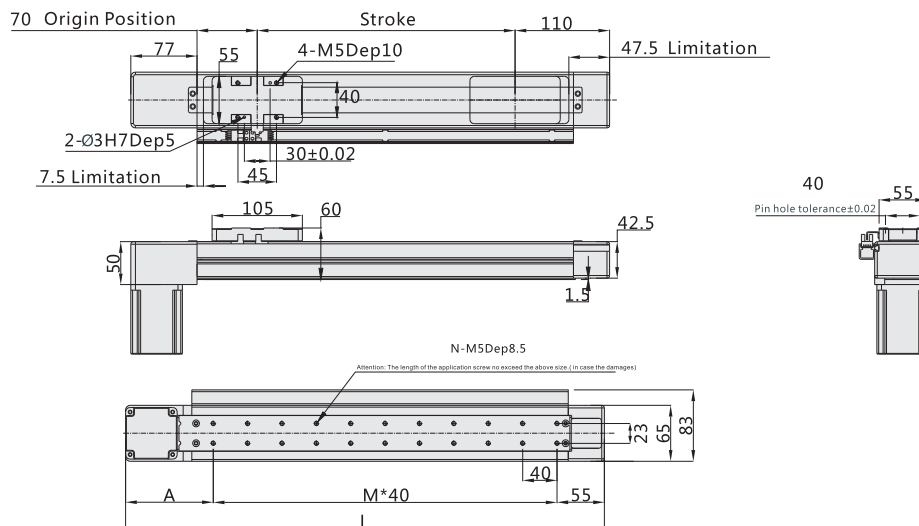
Max. Static Torque Table



Maximum static torque	
MY	56
MP	56
MR	95

BD: Down Side

Unit (mm)



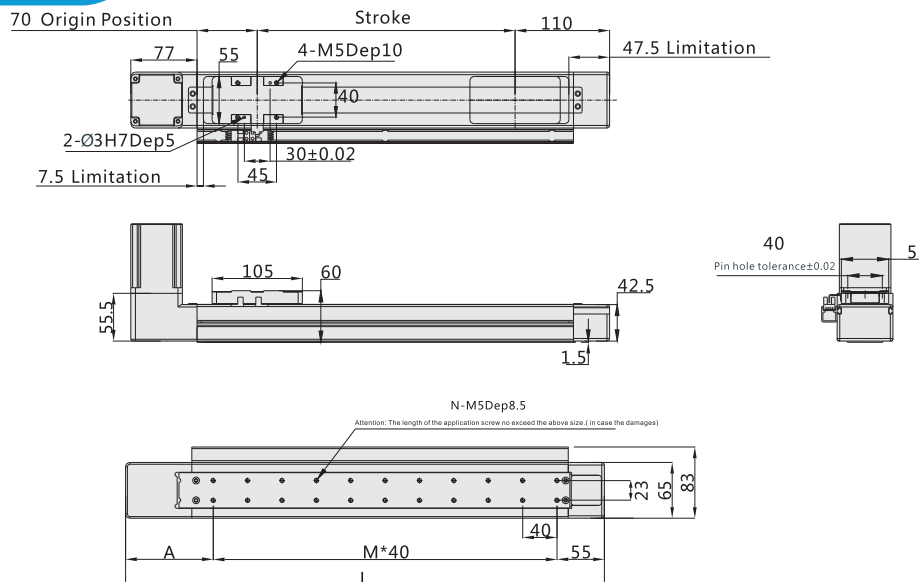
Note: Not including motor weight.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057
M	5	7	8	9	10	12	13	14	15	17	18	19	20	22	23
N	12	16	18	22	22	26	28	30	32	36	38	40	42	46	48
A	102	72	82	92	102	72	82	92	102	72	82	92	102	72	82
Weight KG	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.5

*In case special stroke please contact technical services.

BU: Upper Side

Unit (mm)



Note: Not including motor weight.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057
M	5	7	8	9	10	12	13	14	15	17	18	19	20	22	23
N	12	16	18	22	22	26	28	30	32	36	38	40	42	46	48
A	102	72	82	92	102	72	82	92	102	72	82	92	102	72	82
Weight KG	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.5

*In case special stroke please contact technical services.



BR	BL	BLU	BRU	BRD	BLD

VBC10 – L45 – S100 – BL – ZP20B – C3 –

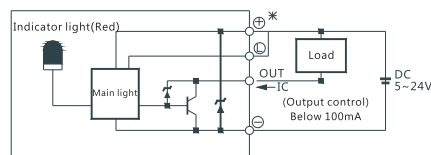
Non-standard, d.	
No	Standard type
BL1	Detailed information please see page 032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	
T	

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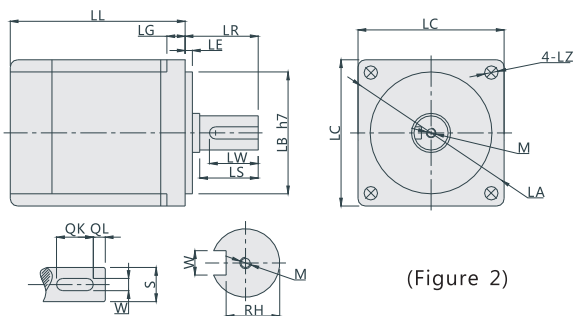
Specification

Motor power AC (W)	200W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	15
	Vertical	
RatedThrust(N)	85	
Linear Guide (mm)	15x12.5 -2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
100W	Panasonic	MSMD012G□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-

□ Stand for empty

Max. Payload Diameters Table

(Unit : mm)

Horizontal installation	A	B	C
5kg	1400	750	600
8kg	1100	450	400
10kg	1000	350	350

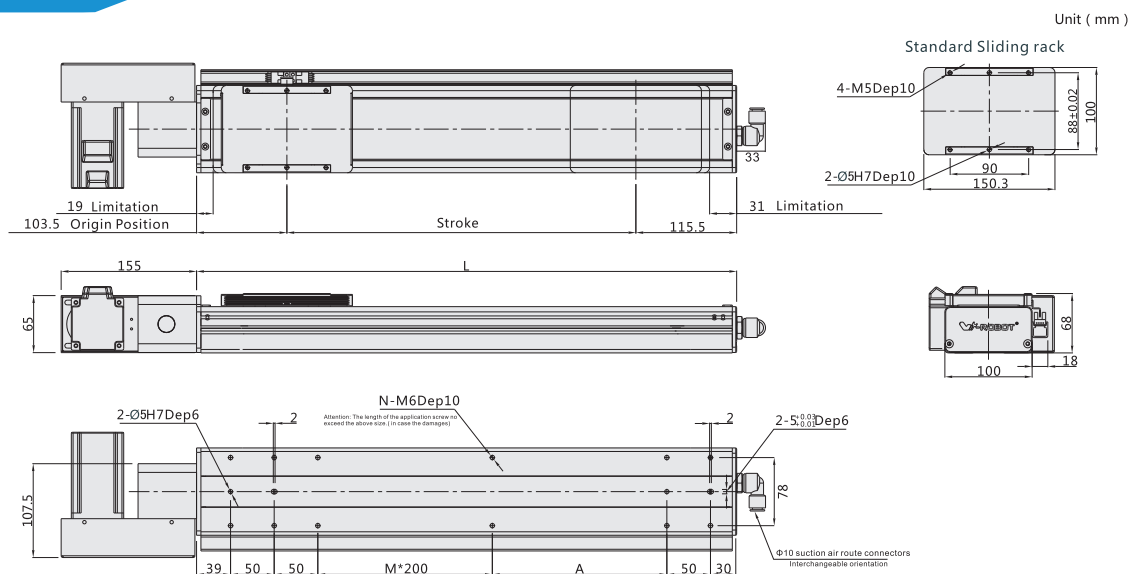
Wall installation	A	B	C
5kg	660	500	1100
8kg	450	300	850
10kg	350	220	800

Max. Static Torque Table

(Unit : N.m)

MY	110
MP	110
MR	120

BR: Right Side

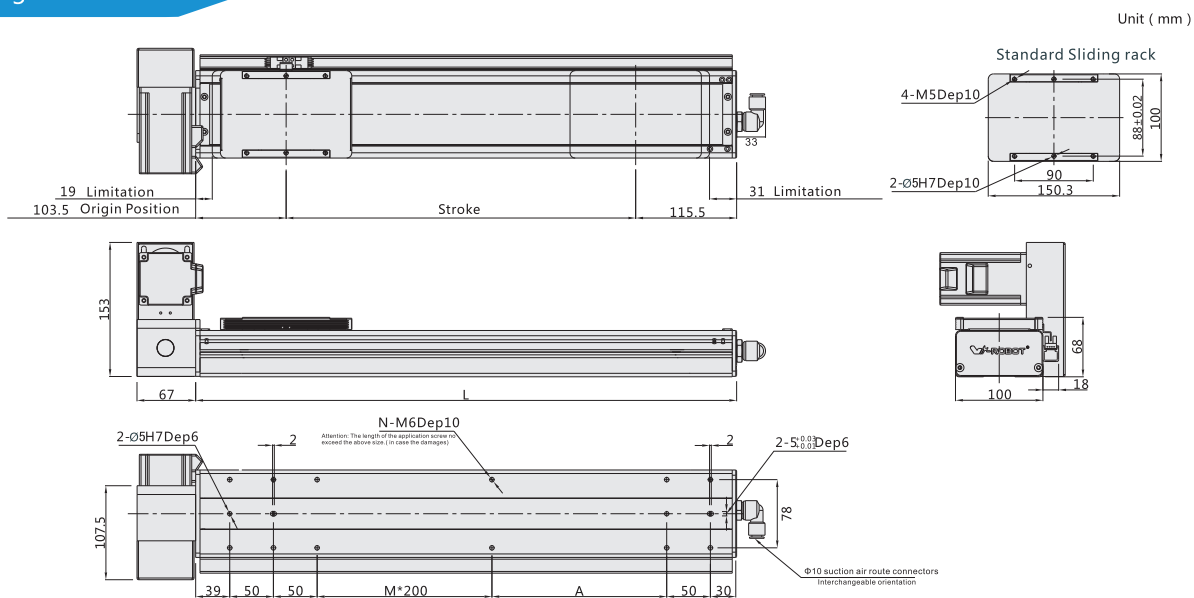


Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BRU: Upper Right Side



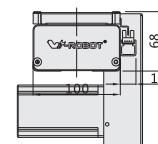
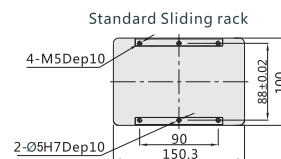
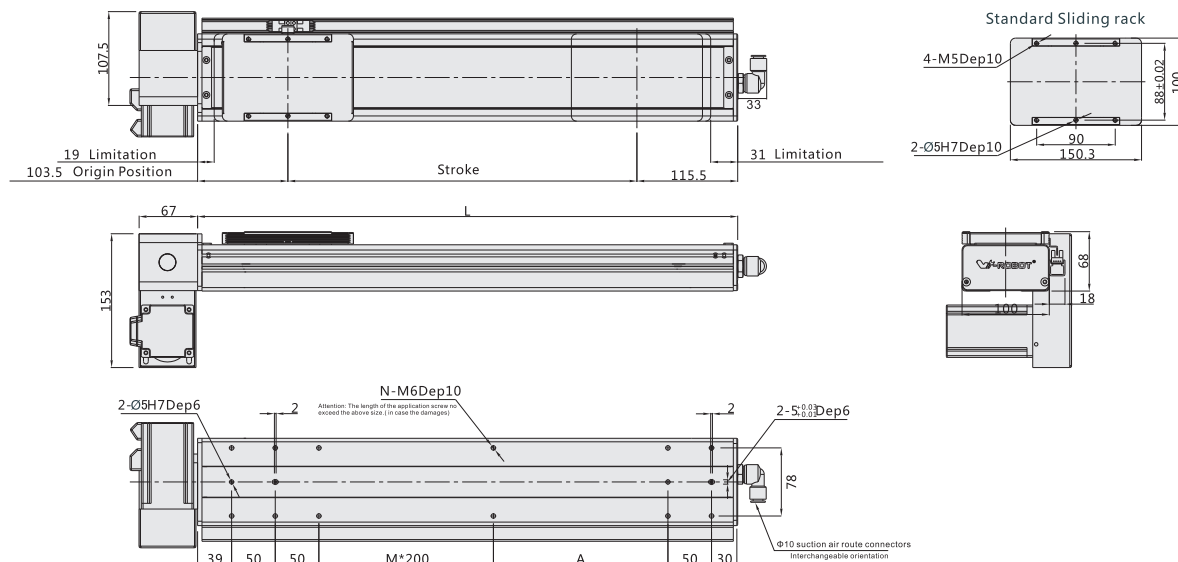
Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BRD: Down Right Side

Unit (mm)



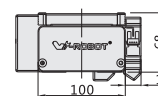
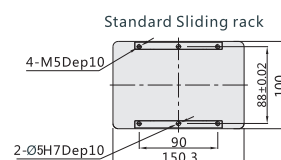
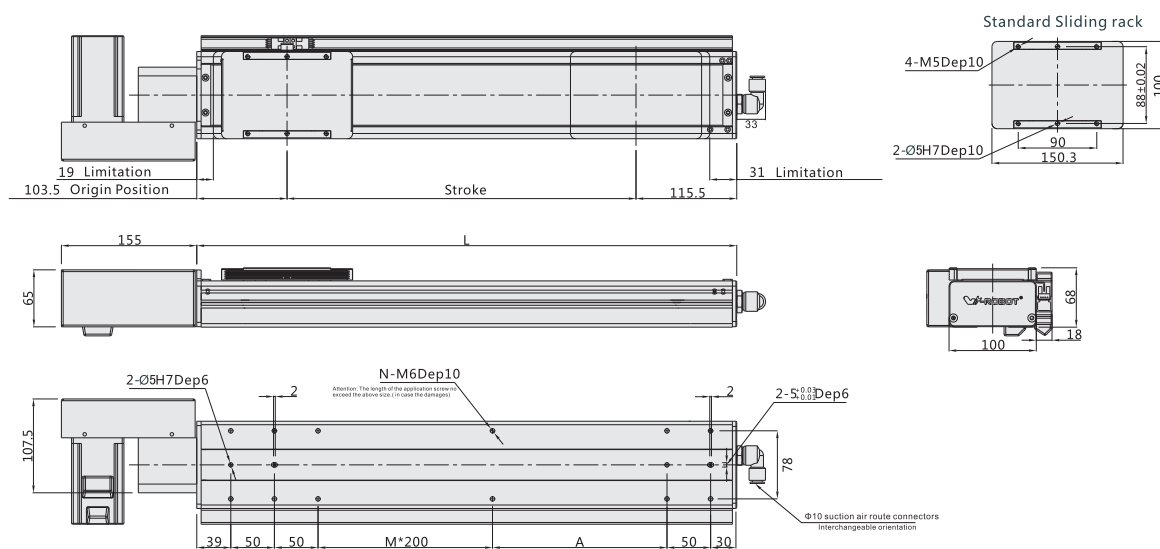
Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BL: Left Side

Unit (mm)

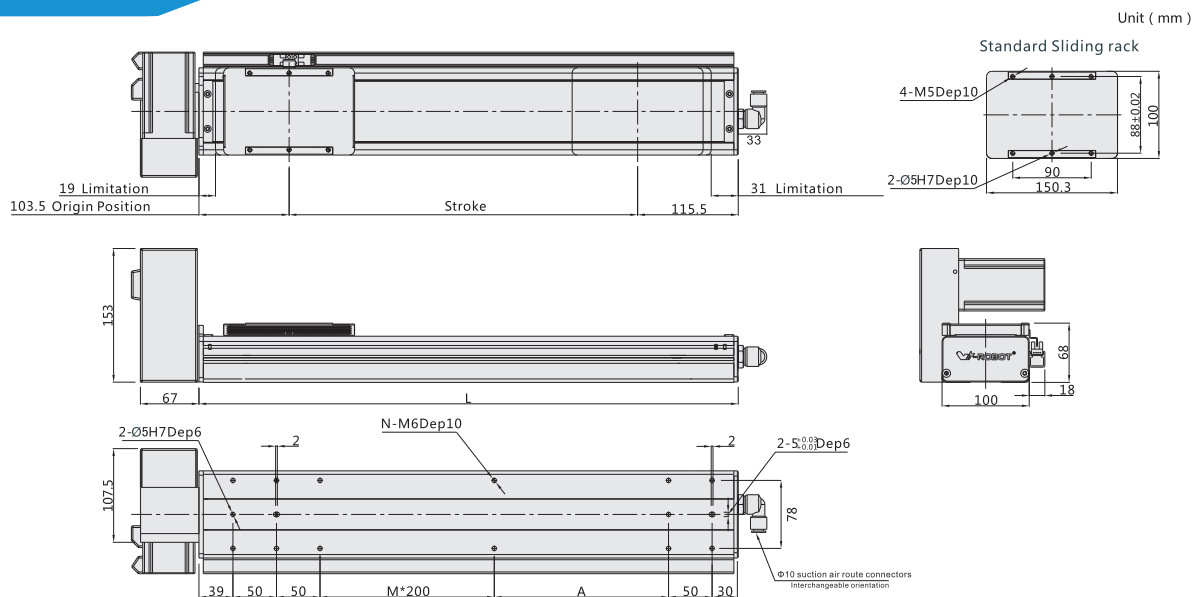


Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

BLU: Upper Left Side

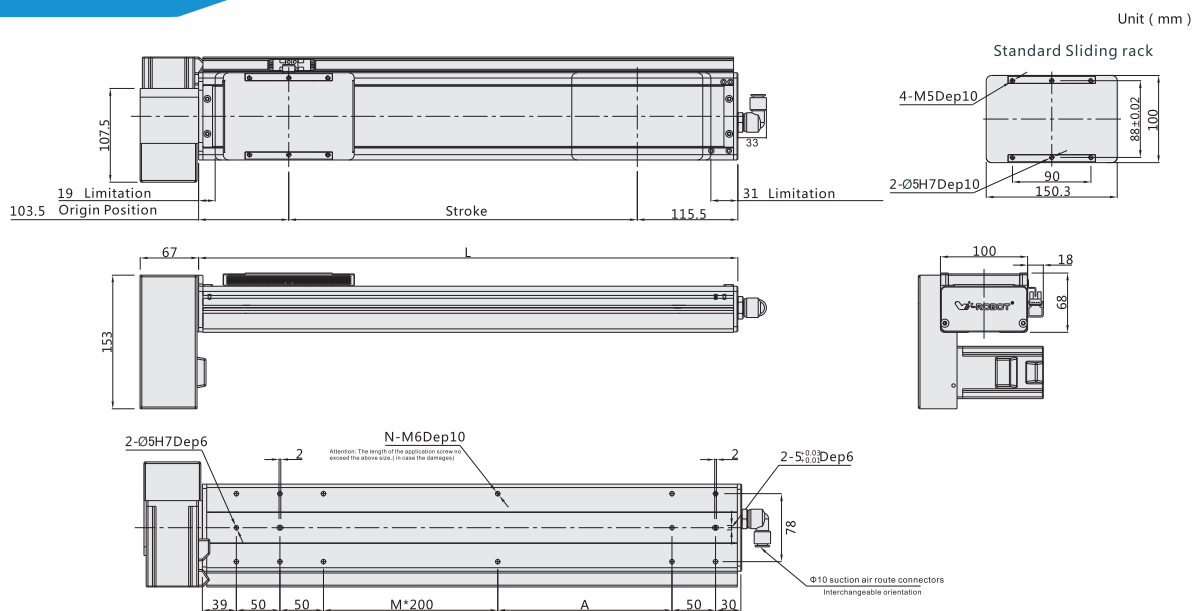


Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.

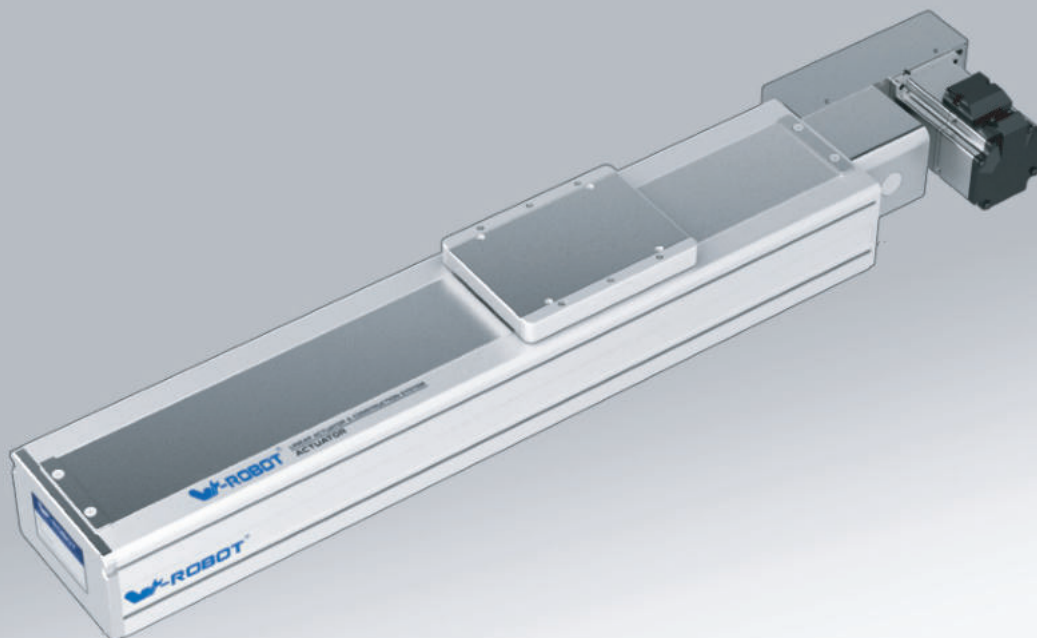
BLD: Down Left Side



Note: Not including motor weight.

Working 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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
M	0	0	0	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
N	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	22	22	24	24
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
Weight KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	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

*In case special stroke please contact technical services.



■ Motor direction



■ Guide for Model Selection

VBC12 — L45 — S100 — BL — ZP20B — C3 —

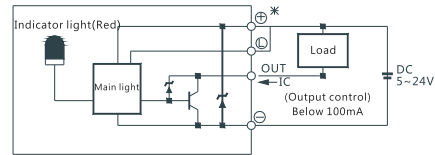
Base Style		Leather belt Type		Stroke(mm)		Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.	
V	V series	L	Clean belt	100-3500		BR	Right Side	P	Panasonic	20	200W	C	Motor side	2	2pcs	No	Detailed information please see page032
BC	Cleane Belt Type	X	Rubber belt			BRU	Upper Right Side	M	Mitsubishi	40	400W	D	Oppsite motor side	3	3pcs	B2	
12	Body width120	45	45mm			BRD	Down Right Side	Y	Yaskawa	57	57 Stepper	E	No	No sensor		D01	
						BL	Left Side	T	Delta	Brakes						U01	
						BLU	Upper Left Side	* For Z: Motor is from clients		No	No brake					UD01	
						BLD	Down Left Side			B	With brake					H01	
																HU01	
																HD01	
																HUD01	
																M01	
																S01	
																T	

If the linear satges require the extra sealing strip, please add the "T" at the end of the model numbers.

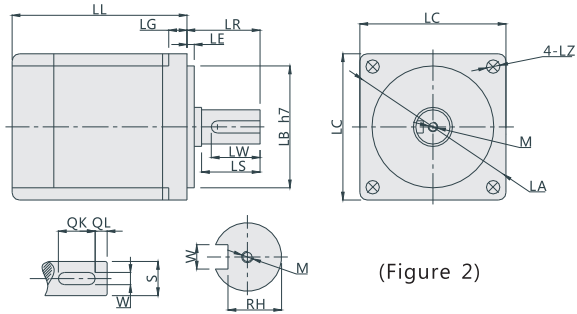
Specification

Motor power AC (W)	400W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/min)	2250	
Maximum Payload(kg)	Horizontal	30
	Vertical	
RatedThrust(N)	170	
Linear Guide (mm)	15x12.5 -2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

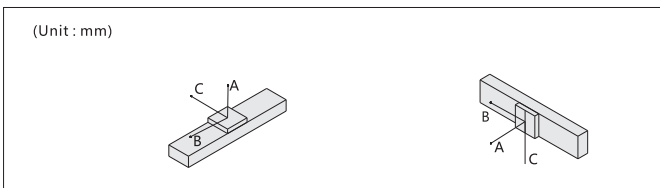
Servo Motor Matches List

(Table 1)

Servo motor size																		
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-

□ Stand for empty

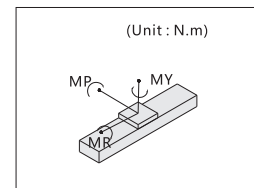
Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	2700	1700	1050
20kg	2100	850	650
25kg	1700	600	500

Wall installation	A	B	C
10kg	1070	1200	2000
20kg	600	560	1500
25kg	410	350	1150

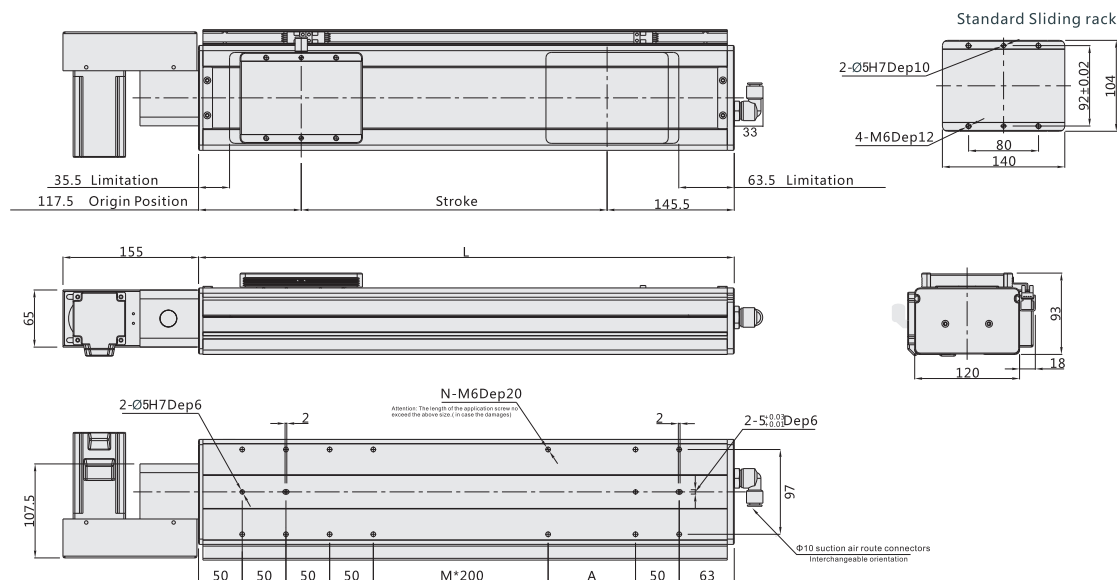
Max. Static Torque Table



Maximum static torque	
MY	174
MP	175
MR	153

BR: Right Side

Unit (mm)



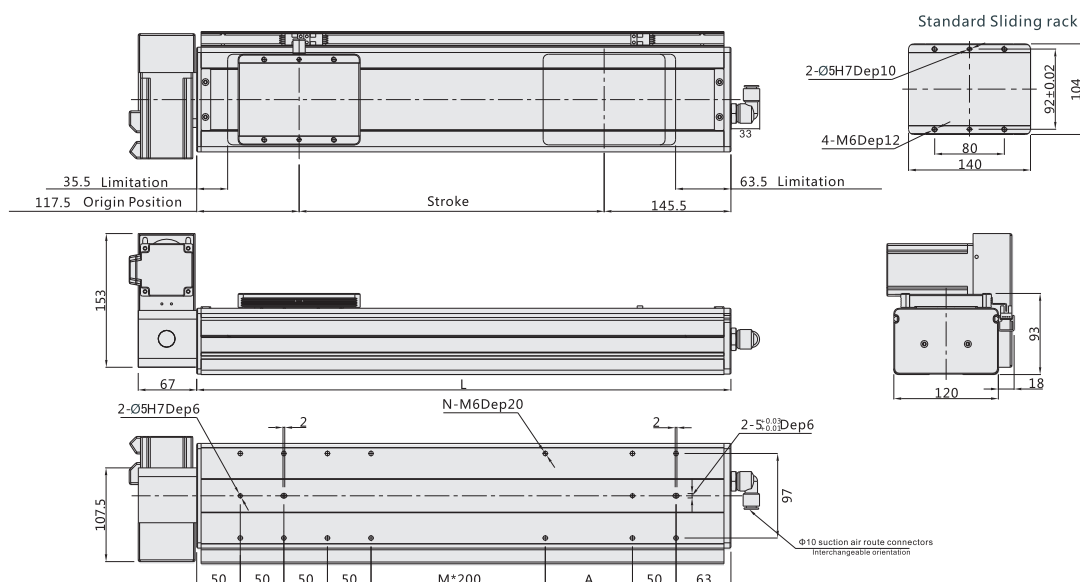
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6

*In case special stroke please contact technical services.

BRU: Upper Right Side

Unit (mm)



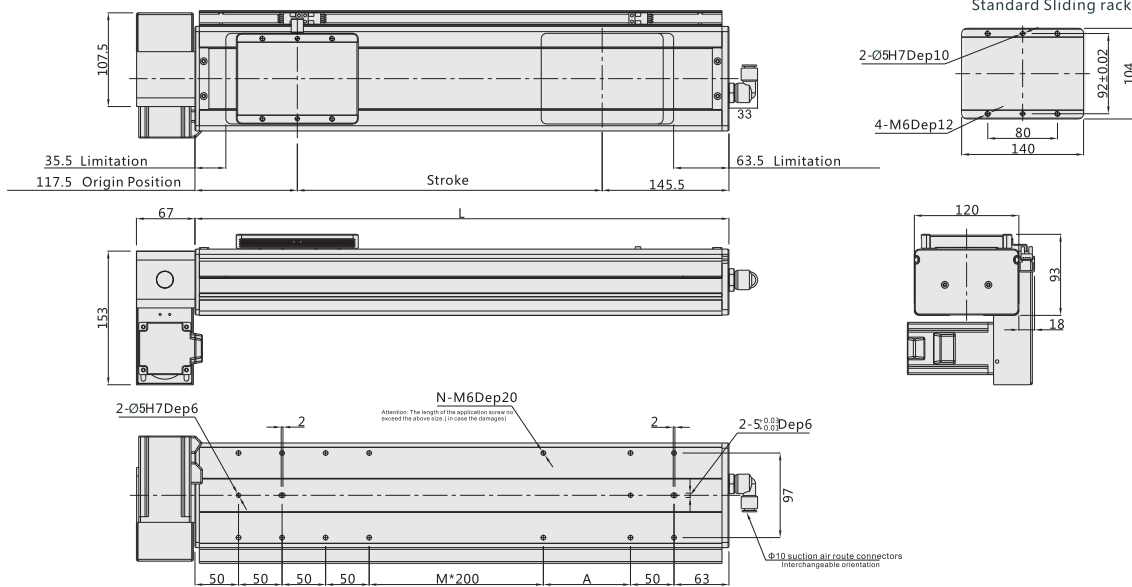
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6

*In case special stroke please contact technical services.

BRD: Down Right Side

Unit (mm)



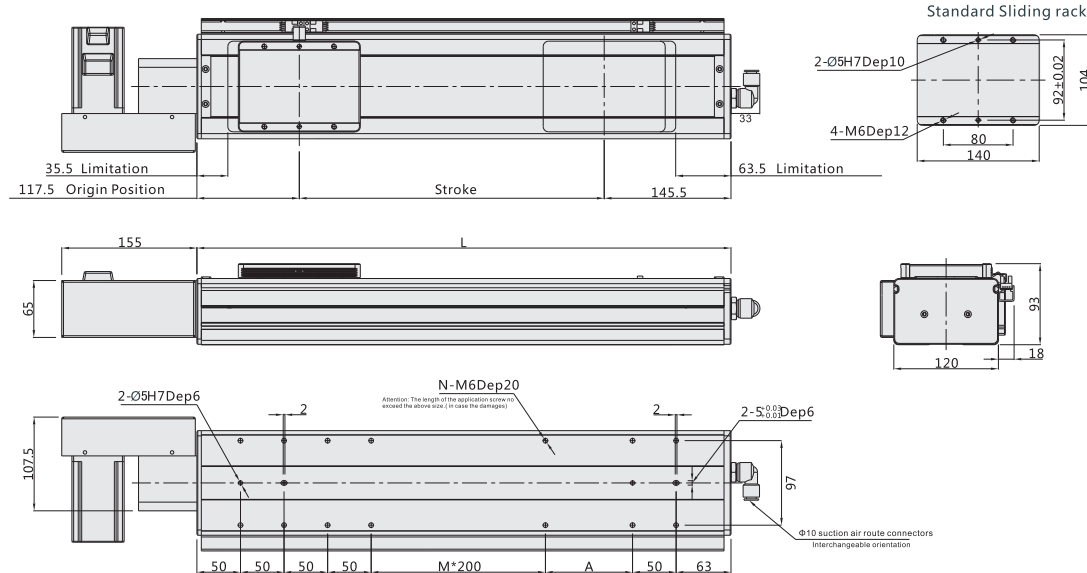
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6

*In case special stroke please contact technical services.

BL: Left Side

Unit (mm)



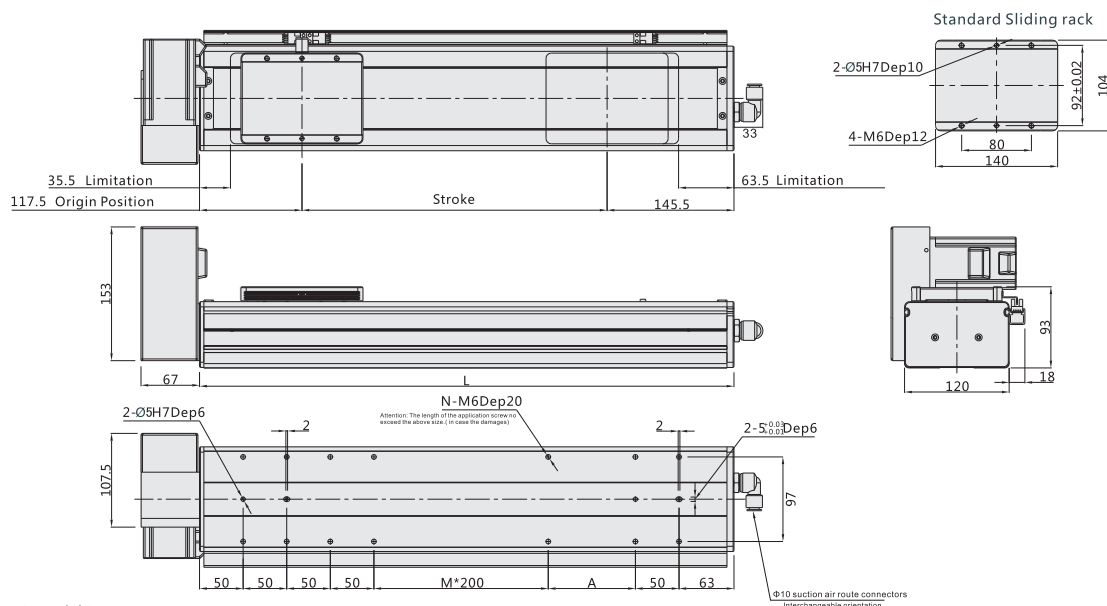
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6

*In case special stroke please contact technical services.

BLU: Upper Left Side

Unit (mm)



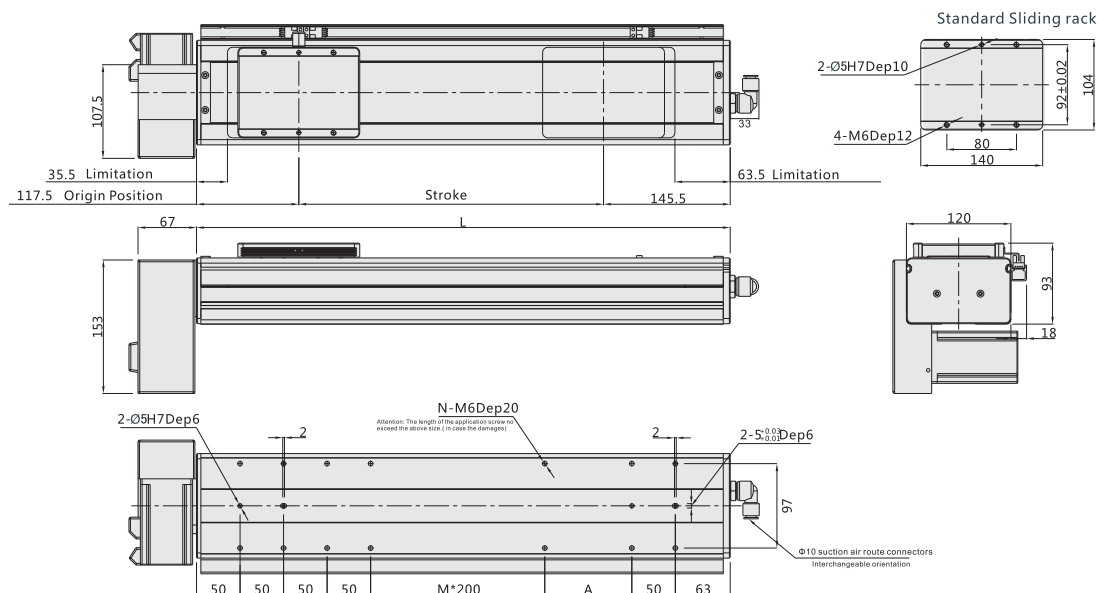
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6

*In case special stroke please contact technical services.

BLD: Down Left Side

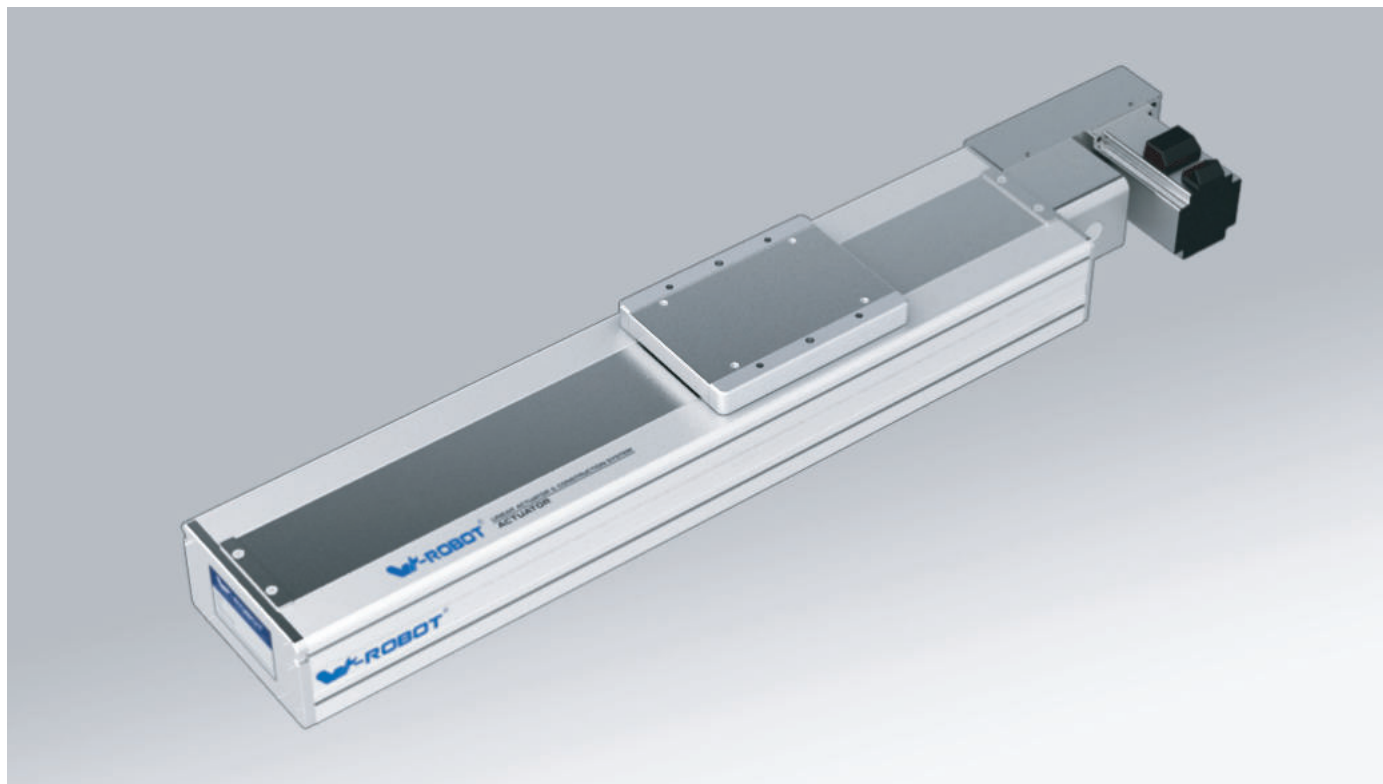
Unit (mm)



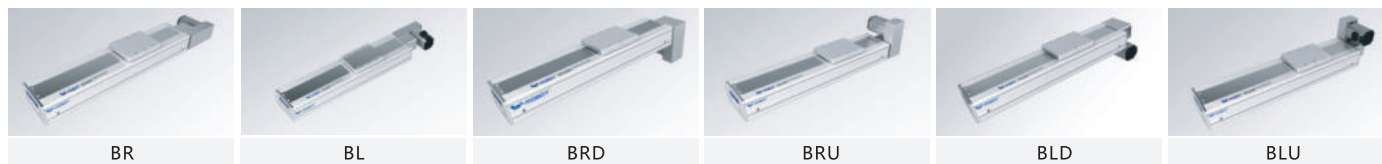
Note: Not including motor weight.

Working 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	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6

*In case special stroke please contact technical services.



■ Motor direction



■ Guide for Model Selection

VBC14 – L45 – S100 – BL – ZP20B – C3 –

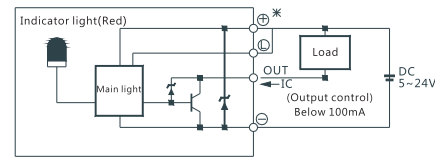
Base Style		Leather belt Type		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.		
V	V series	L	Clean belt	100-3500	BR	Right Side	P	Panasonic	20	200W	External		External		No	Standard type	
BC	Cleanse Belt Type	X	Rubber belt		BRU	Upper Right Side	M	Mitsubishi	40	400W	C	Motor side	2	2pcs	BL1	Detailed information please see page032	
14	Body width140	Lead			BRD	Down Right Side	Y	Yaskawa	75	750W	D	Oppsite motor side	3	3pcs	B2		
		45	45mm		BL	Left Side	T	Delta	Brakes		No		No sensor		D01		
					BLU	Upper Left Side	* For Z: Motor is from clients		No	No brake					U01		
					BLD	Down Left Side			B	With brake					UD01		
															H01		
															HU01		
															HD01		
															HUD01		
															M01		
															S01		
															T		

If the linear satges require the extra sealing strip, please add the "T" at the end of the model numbers.

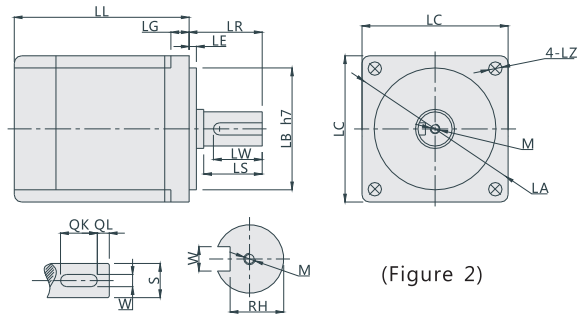
Specification

Motor power AC (W)	400W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	40
	Vertical	
RatedThrust(N)	170	
Linear Guide (mm)	20x15.5-2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

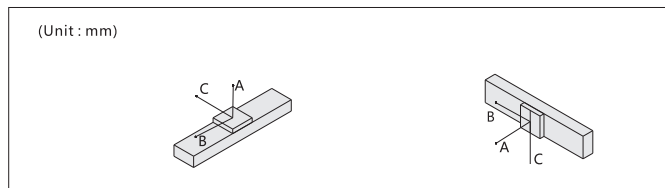
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

□ Stand for empty

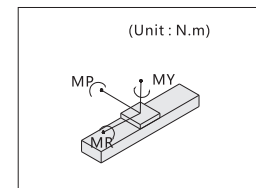
Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	2800	1800	1250
20kg	2200	950	750
30kg	1800	650	550

Wall installation	A	B	C
10kg	1170	1300	2200
20kg	700	630	1600
30kg	450	380	1250

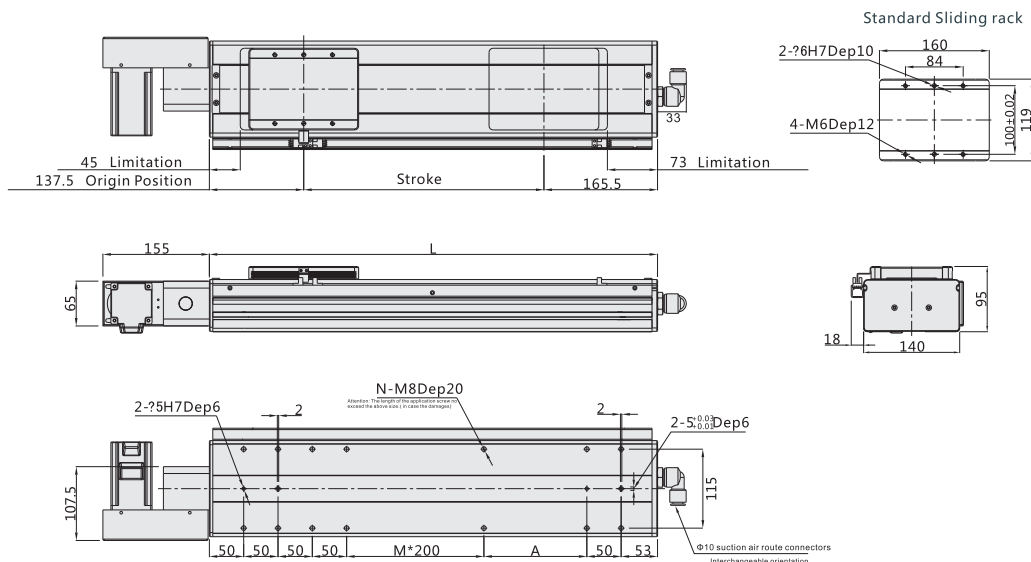
Max. Static Torque Table



Non-standard, d.c.,	
MY	784
MP	788
MR	691

BR: Right Side

Unit (mm)



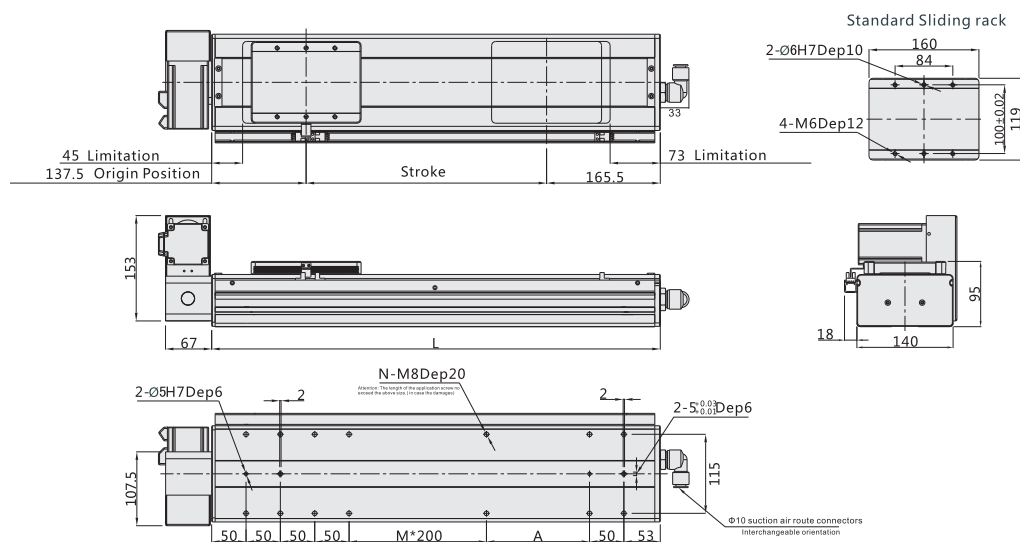
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2

*In case special stroke please contact technical services.

BRU: Upper Right Side

Unit (mm)



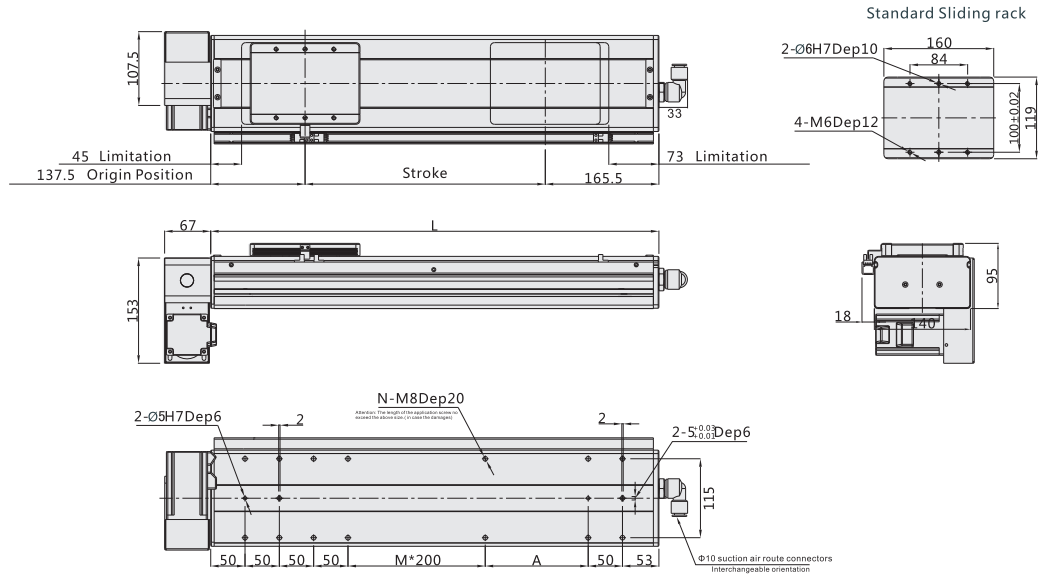
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2

*In case special stroke please contact technical services.

BRD: Down Right Side

Unit (mm)



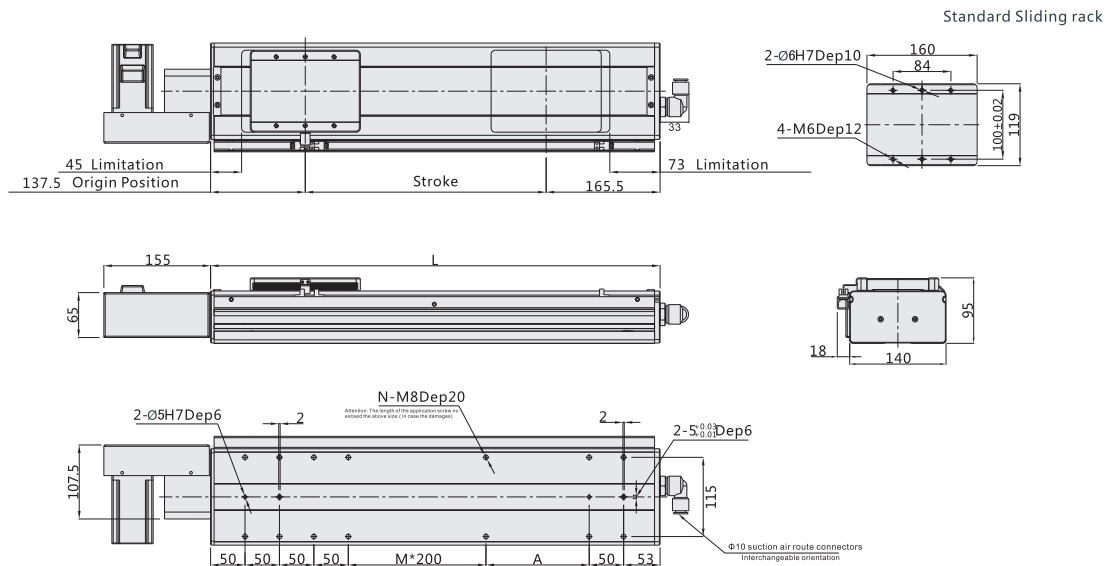
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2

*In case special stroke please contact technical services.

BL: Left Side

Unit (mm)



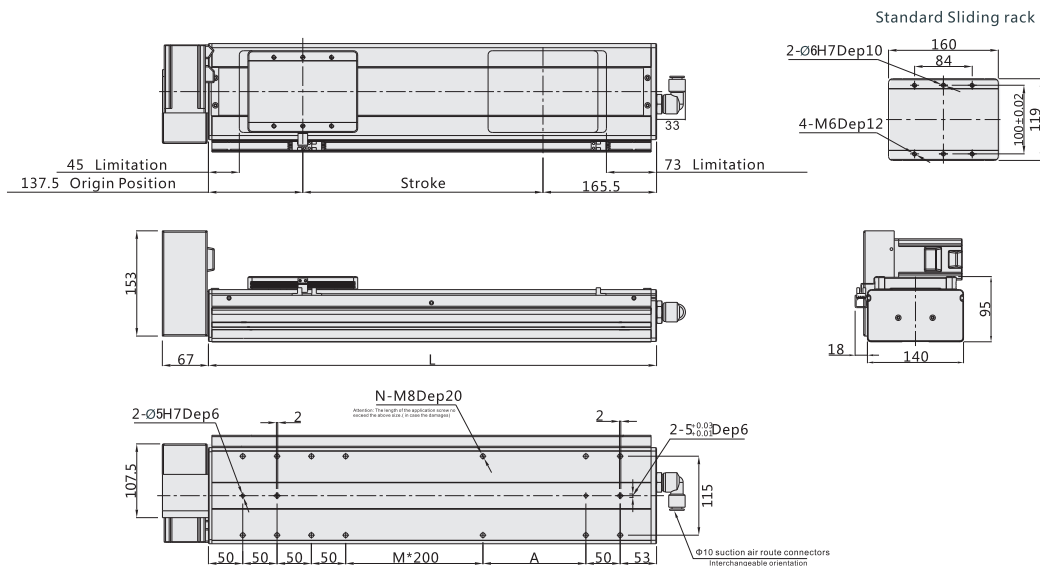
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2

*In case special stroke please contact technical services.

BLU: Upper Left Side

Unit (mm)



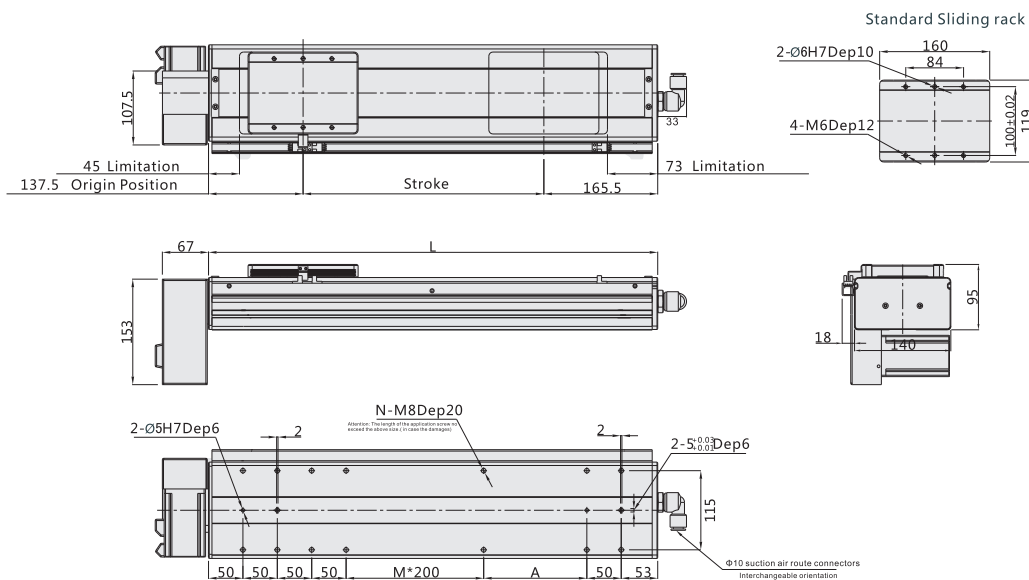
Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2

*In case special stroke please contact technical services.

BLD: Down Left Side

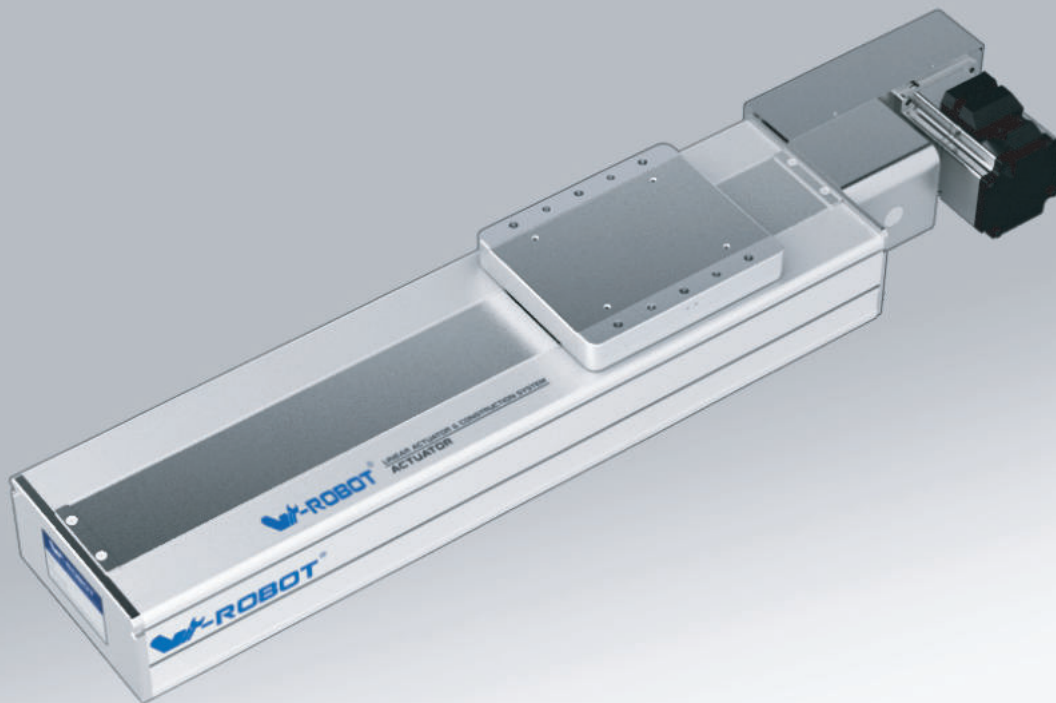
Unit (mm)



Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
M	0	0	0	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
N	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26
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
Weight KG	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2

*In case special stroke please contact technical services.



Motor direction



Guide for Model Selection

VBC17 — L45 — S100 — BL — ZP40B — C3 —

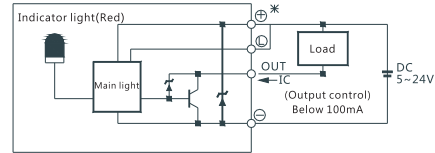
Base Style		Leather belt Type		Stroke(mm)	Motor way		Motor Type		Motor power	Original Sensor position	Sensor switch	Non-standard, d.c.,	
V	V series	L	Clean belt	100-3500	BR	Right Side	P	Panasonic	40 400W	External	External	No	Standard type
BC	Cleanse Belt Type	X	Rubber belt		BRU	Upper Right Side	M	Mitsubishi	75 750W	C Motor side	2 2pcs	BL1	Detailed information please see page032
17	Body width170	Lead	45 45mm		BRD	Down Right Side	Y	Yaskawa	Brakes	D Oppsite motor side	3 3pcs	B2	
					BL	Left Side	T	Delta	No No brake	E No	No sensor	D01	
					BLU	Upper Left Side	* For Z: Motor is from clients		B With brake	Sensor type		U01	
					BLD	Down Left Side				No	NPN	UD01	
										P	PNP	H01	
												HU01	
												HD01	
												HUD01	
												M01	
												S01	
												T	

If the linear satges require the extra sealing strip, please add the "T" at the end of the model numbers.

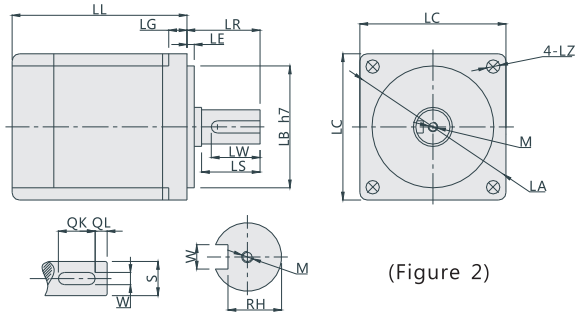
Specification

Motor power AC (W)	400W/750W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	45	
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2250	
Maximum Payload(kg)	Horizontal	40/55
	Vertical	
RatedThrust(N)	160/330	
Linear Guide (mm)	20x15.5-2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

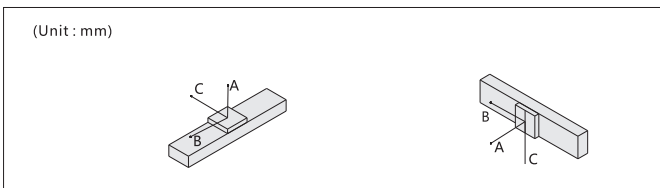
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

□ Stand for empty

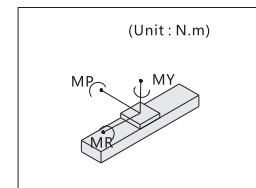
Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	3000	1900	1300
20kg	2300	1000	800
30kg	2000	700	600
45kg	900	320	290

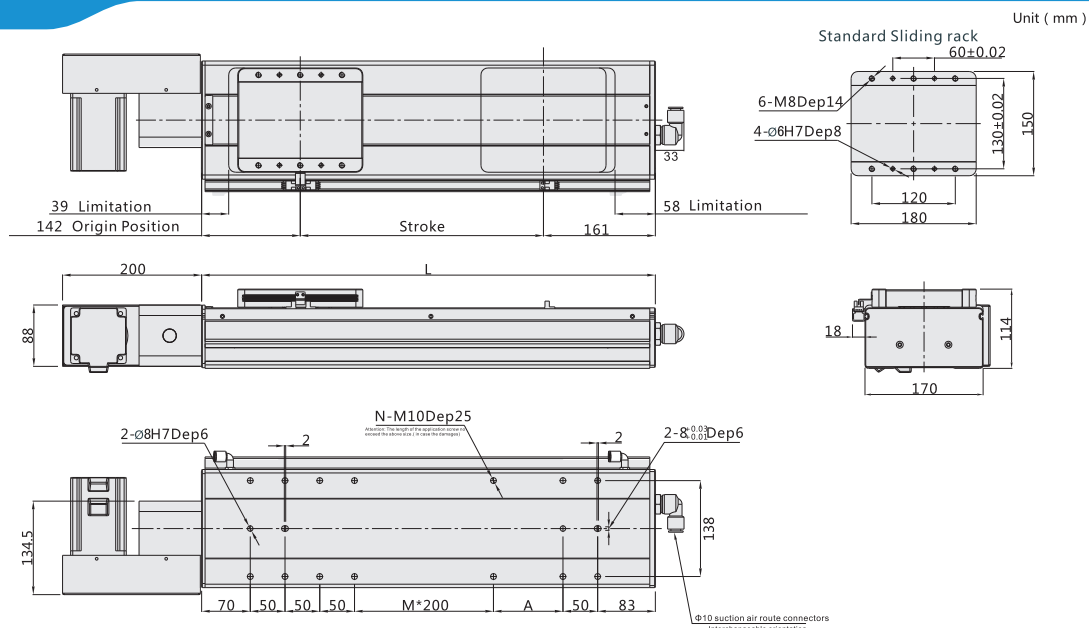
Wall installation	A	B	C
10kg	1300	1500	2300
20kg	800	700	1750
30kg	600	450	1350
45kg	290	210	610

Max. Static Torque Table



Maximum static torque	
MY	1032
MP	1034
MR	908

BR: Right Side

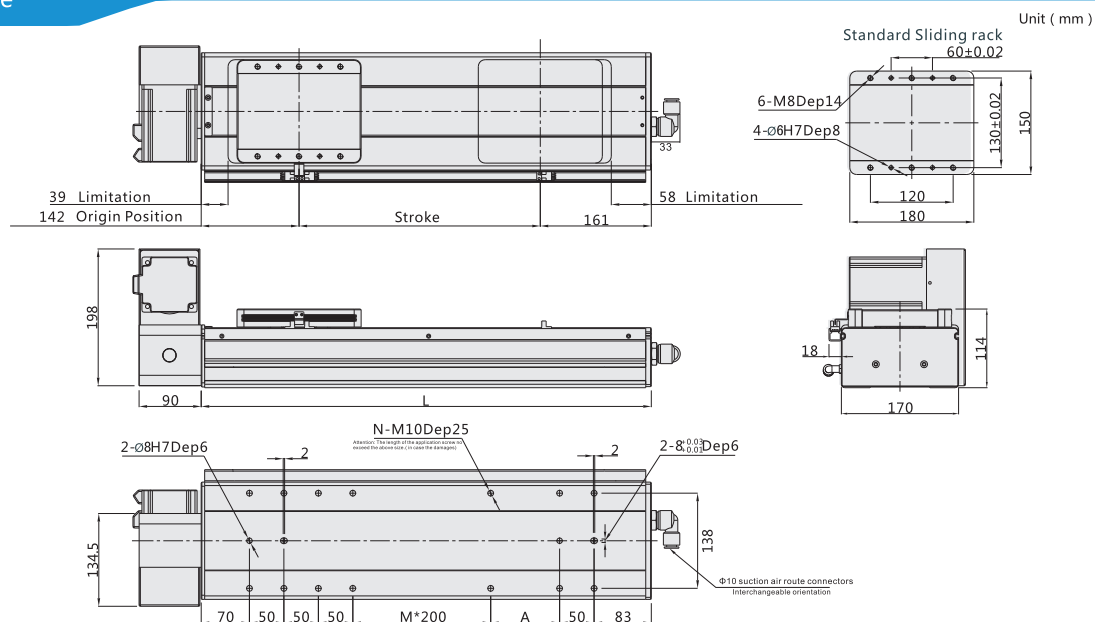


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BRU: Upper Right Side

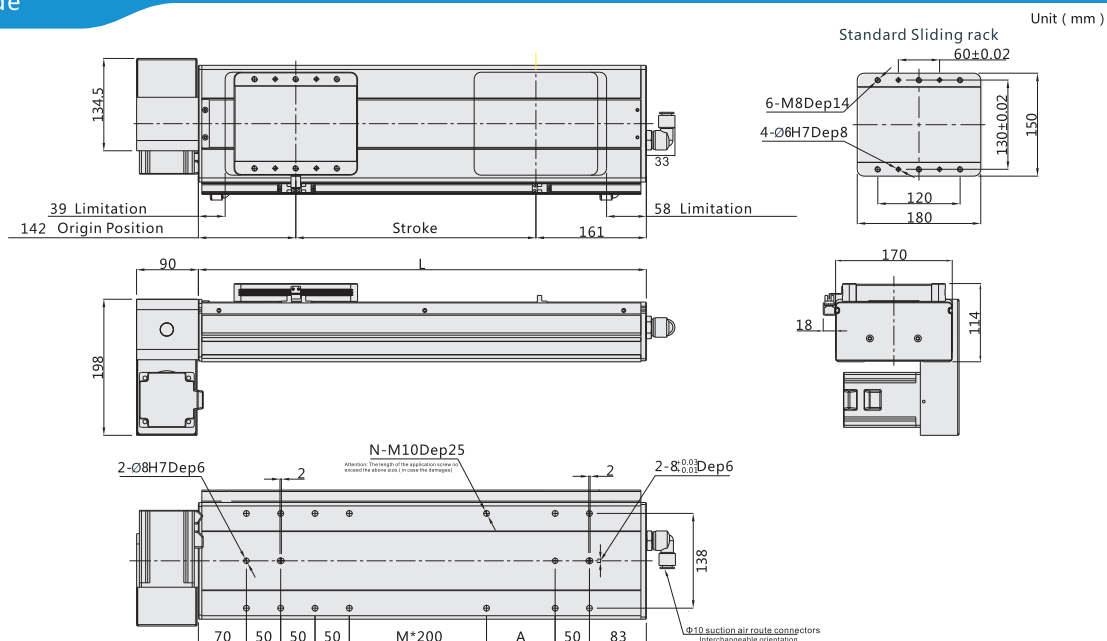


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BRD: Down Right Side

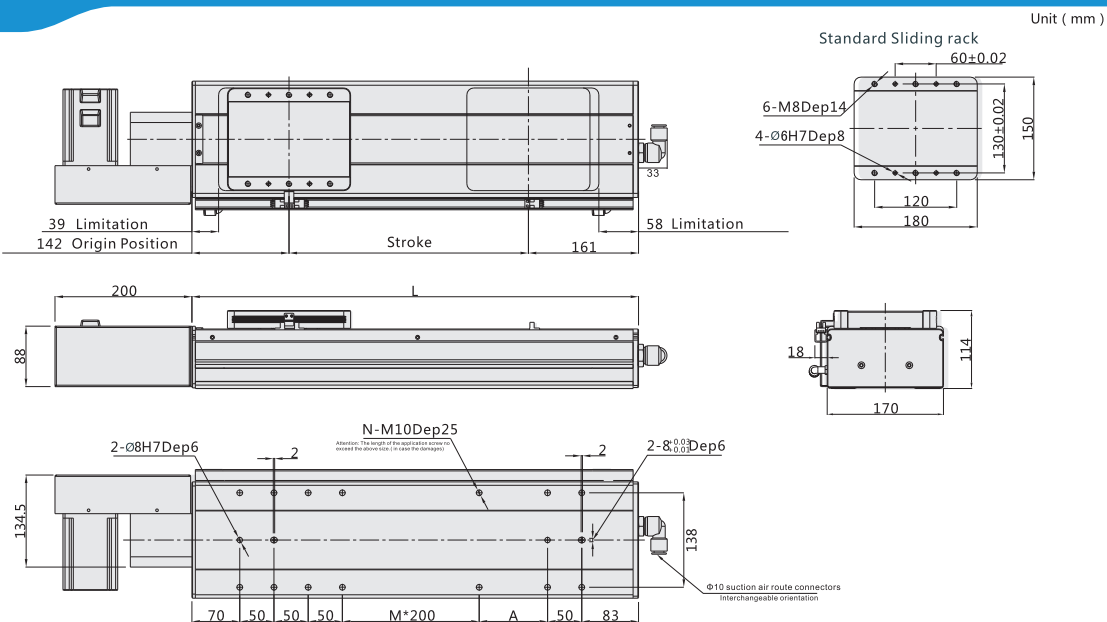


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BL: Left Side

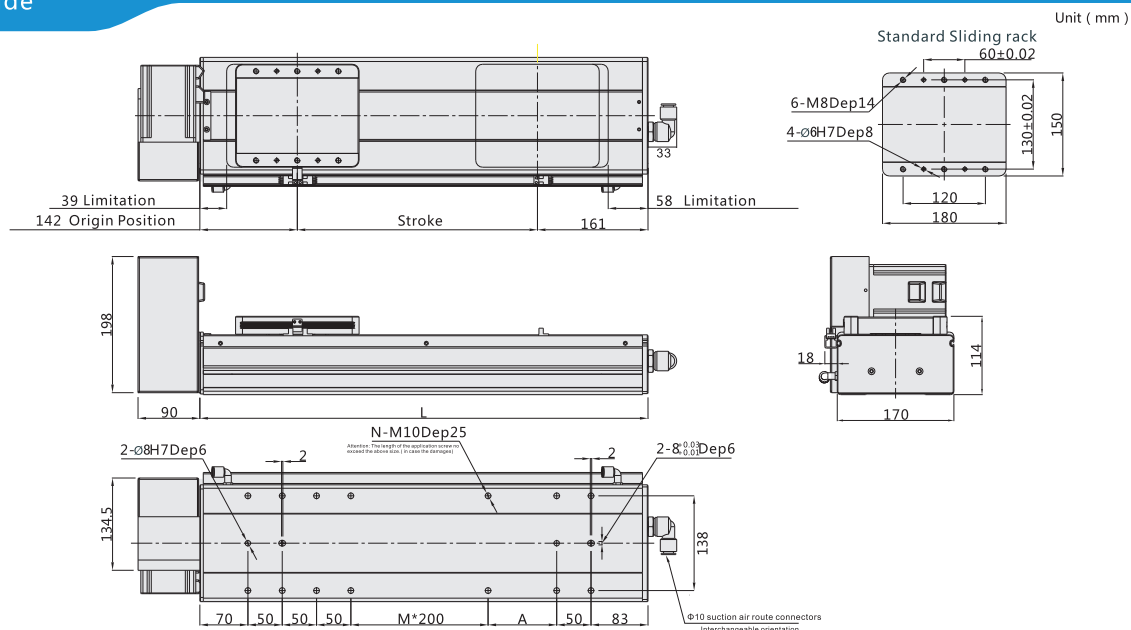


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BLU: Upper Left Side

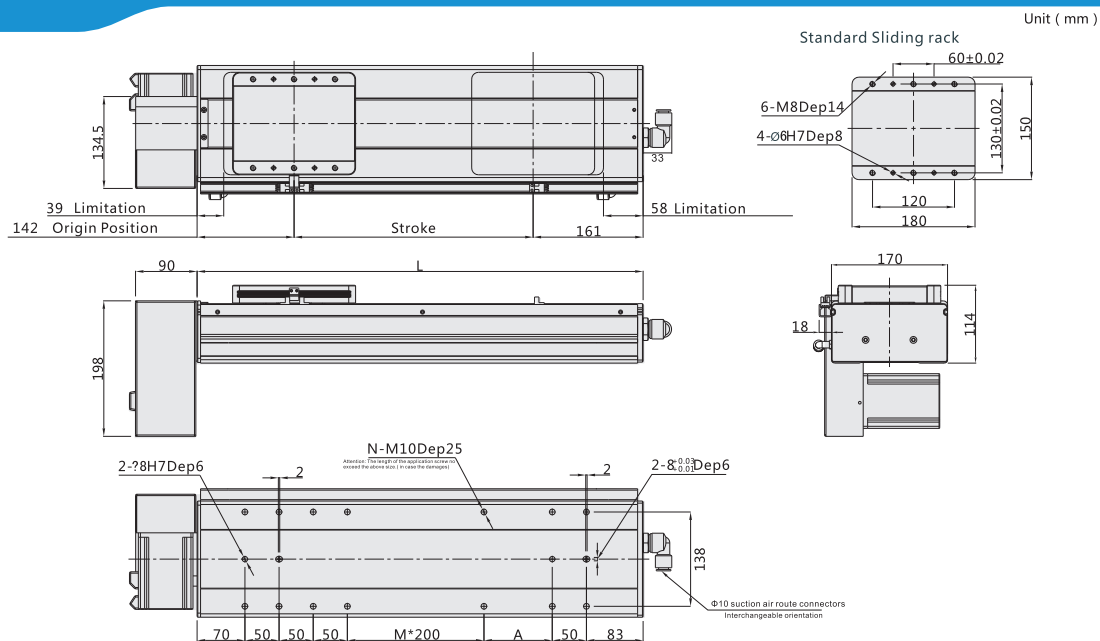


Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

BLD: Down Left Side



Note: Not including motor weight.

Working 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	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453	1503	1553	1603	1653	1703	1753	1803
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	6	6	6	6	7
N	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
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
Weight KG	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7

*In case special stroke please contact technical services.

Linear Stage Series (European Standard)

Timing Belt Drive General Environment

Standard Type

LB6

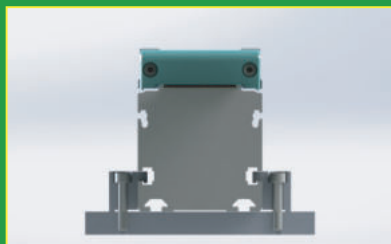
Economy series

Long stroke



Maximum Stroke 5700mm
Maximum Payload 40KG 169
Body Width 65mm

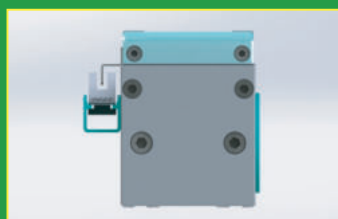
Installation ways :



Sensor type :



Magnetic sensor



Electronic sensor

Standard Type

LB8

Economy series

Long stroke



Maximum Stroke 5700mm
Maximum Payload 68KG 172
Body Width 80mm

GB5

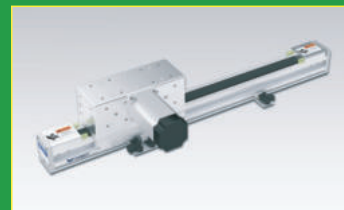
Long stroke



Maximum Stroke 1500mm
Maximum Payload 5KG 175
Body Width 55mm

GB5Z

Long stroke



Maximum Stroke 1500mm
Maximum Payload Vertical Payload 5KG.....178
Body Width 55mm

Standard Type

GB8

Long stroke



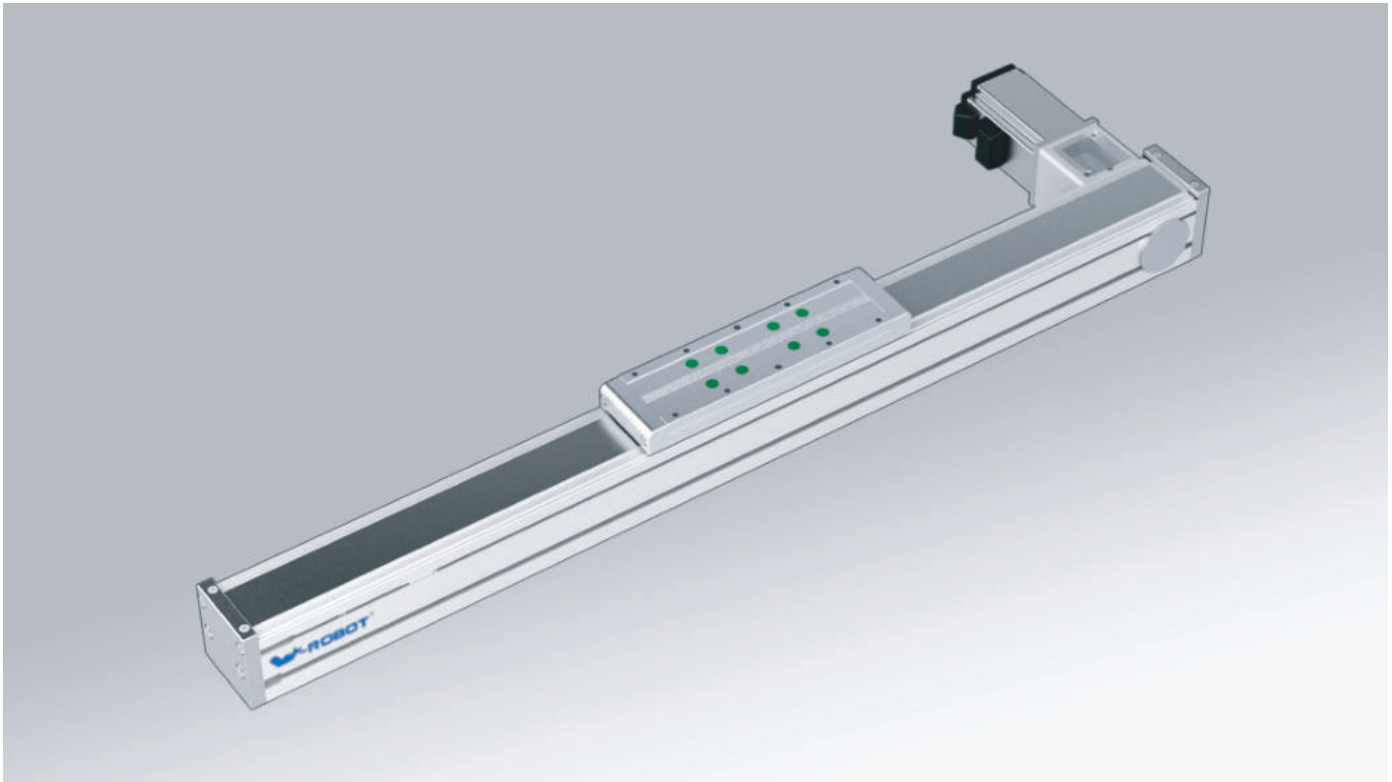
Maximum Stroke 5500mm
Maximum Payload 40KG 181
Body Width 80mm

Standard Type

GB8Z



Maximum Stroke 2000mm
Maximum Payload 15KG 186
Body Width 80mm



■ Motor direction



■ Guide for Model Selection

LB6 — **L130** — **S100** — **BL** — **ZP40B** — **C3** —

Base Style		Leather belt Type		Stroke(mm)		Motor way		Motor Type		Motor power		Sensor		Sensor switch		Non-standard, d.c.,	
LB	Belt Type	L	Dust-free belt	100-5700		BR	Right Side	P	Panasonic	400	400W	C	The electro-optical sensor	3	3pcs	No	Standard type
6	Body width65	Lead				BRU	Upper Right Side	M	Mitsubishi	Brakes		MS	Magnetic sensor	2	2pcs	BL1	Detailed information please see page032
		130	130mm			BRD	Down Right Side	Y	Yaskawa	No	No brake	E	No	1	1pcs	B2	
						BL	Left Side	T	Delta	B	With brake					D01	
						BLU	Upper Left Side	*For Z: Motor is from clients								U01	
						BLD	Down Left Side									UD01	
																H01	
																HU01	
																HD01	
																HUD01	
																M01	
																S01	

■ Specification

Motor power AC (W)	400W		
Drive Type	Timing belt driving		
Repeatability	±0.05		
Reduction ratio(Connecting the reduction gears)	None	2	3
Lead(mm)	130	65	43
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/min)	5000	3250	2150
Maximum Payload(kg)	Horizontal	*10	*25
	Vertical	*2	*5
RatedThrust(N)	62	111	167
Linear Guide (mm)	15x 9.5		
Diameter of the synchronous wheel	41.38		
Width of the synchronous belt	25		
The allow tension for synchronous belt	*540		
Sensor	The electro-optical sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
		Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)
	Magnetic sensor DS1-HN-020		

m/sec²

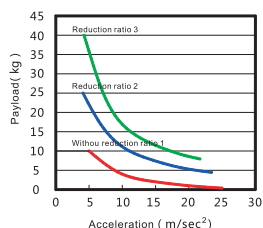
*We suggest the accelerated velocity under the 5m/sec² when reaching to the maximum payload horizontally, 2m/sec² for the maximum payload vertically.

*The allow tension of the synchronous belt remarked as the standard parameters for the synchronous belt.(polyurethane (PU) + high-tensile steel wires)

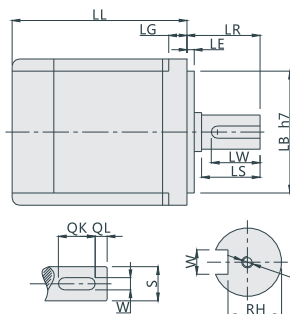
*Please attention the allow tension of the synchronous belt by vertically working.(Increase the reduction ratio of the reduction gear increases the rated thrust).

■ Acceleration—Payload

Horizontal - 400W Servo motor



(Figure 1)



(Figure 2)

■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
	Delta	ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

□ Stand for empty

■ Max. Payload Diameters Table

(Unit : mm)

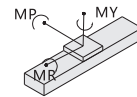


Horizontal installation	A	B	C
7kg	500	200	200
25kg	400	150	100
40kg	400	150	80

Wall installation	A	B	C
7kg	200	200	500
25kg	100	150	400
40kg	80	150	400

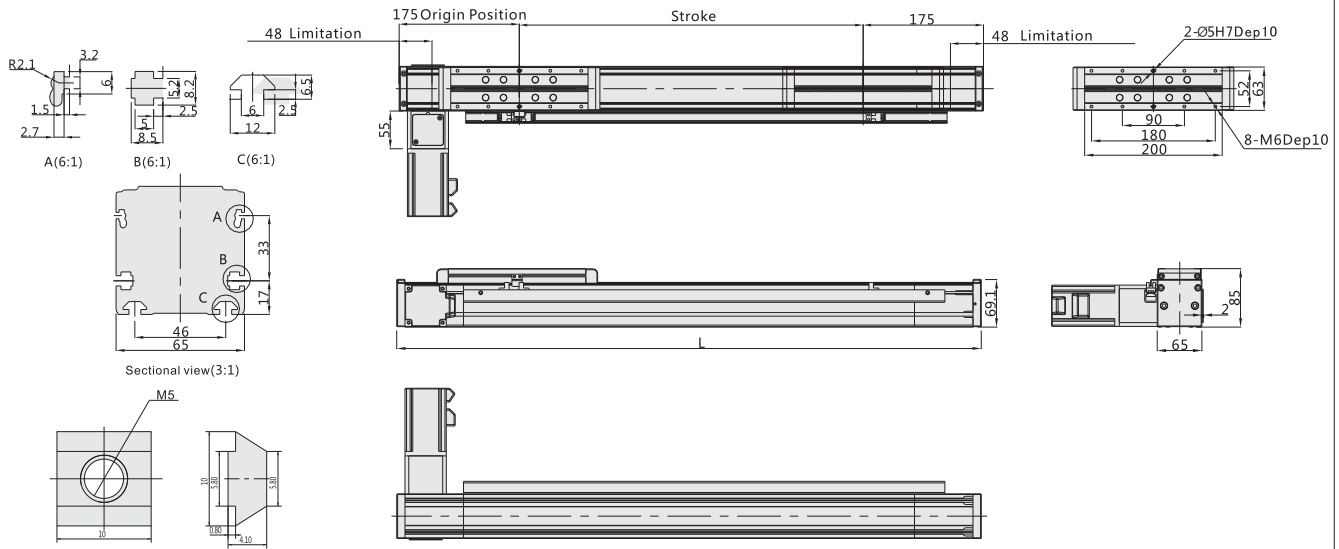
■ Max. Static Torque Table

(Unit : N.m)



Maximum static torque	
MY	242
MP	242
MR	70

BL: Left Side

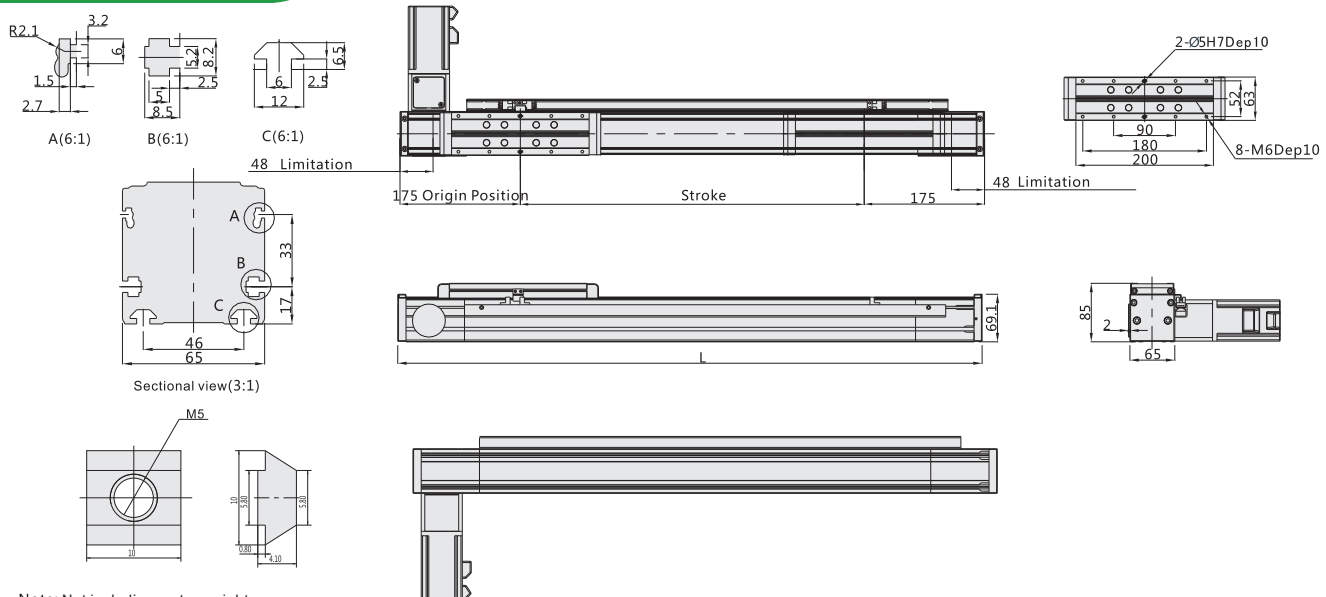


Note: Not including motor weight.

Working 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	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	1750	1800	1850
Weight KG	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.4	13.7	14
Working Stroke	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	...	5700
L	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	...	6050
Weight KG	14.6	15.2	15.8	16.4	17	17.6	18.2	18.8	19.4	20	20.6	21.2	21.8	22.4	23	23.6	24.2	24.8	25.4	26	26.6	27.2	27.8	28.4	29	29.6	30.2	...	39.2

*In case special stroke please contact technical services.

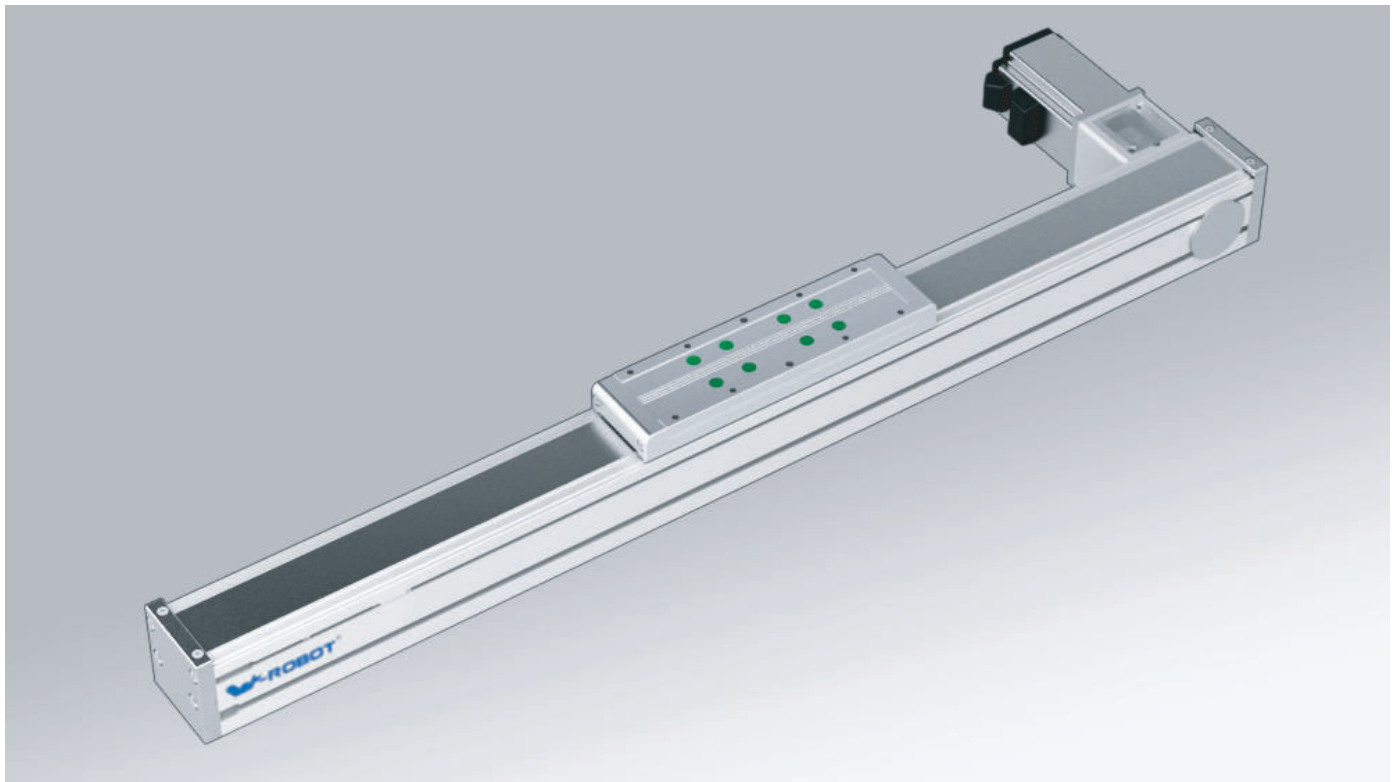
BR: Right Side



Note: Not including motor weight.

Working 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	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	1750	1800	1850
Weight KG	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.4	13.7	14
Working Stroke	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	...	5700
L	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	...	6050
Weight KG	14.6	15.2	15.8	16.4	17	17.6	18.2	18.8	19.4	20	20.6	21.2	21.8	22.4	23	23.6	24.2	24.8	25.4	26	26.6	27.2	27.8	28.4	29	29.6	30.2	...	39.2

*In case special stroke please contact technical services.



Motor direction



Guide for Model Selection

LB8 — **L150** — **S100** — **BL** — **ZP75B** — **C3** —

Base Style	
LB	Belt Type
8	Body width80

Leather belt Type	
L	Dust-free belt
150	Lead
150	150mm

Stroke(mm)
100-5700

Motor way	
BR	Right Side
BRU	Upper Right Side
BRD	Down Right Side
BL	Left Side
BLU	Upper Left Side
BLD	Down Left Side

Motor Type		Motor power	
P	Panasonic	75	750W
M	Mitsubishi	Brakes	
Y	Yaskawa	No	No brake
T	Delta	B	With brake
* For Z: Motor is from clients			

Sensor		Sensor switch	
C	The electro-optical sensor	3	3pcs
MS	Magnetic sensor	2	2pcs
E	No	1	1pcs

Sensor type	
No	NPN
P	PNP

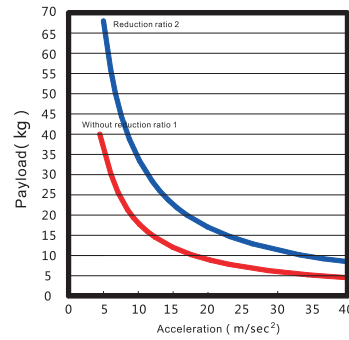
Non-standard, d.c.	
No	Standard type
BL1	Detailed information please see page032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

■ Specification

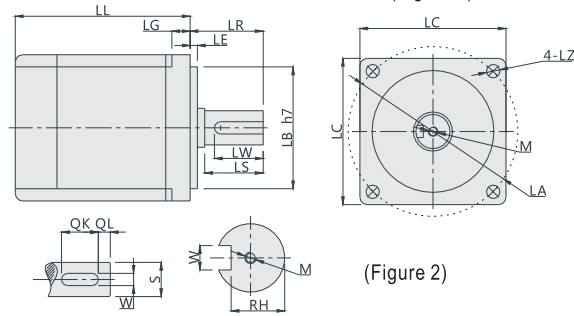
Motor power AC (W)	750W	
Drive Type	Timing belt driving	
Repeatability	±0.05	
Reduction ratio(Connecting the reduction gears)	None	2
Lead(mm)	150	75
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/min)	5000	3750
Maximum Payload(kg)	Horizontal	*30
	Vertical	*6
RatedThrust(N)	90	170
Linear Guide (mm)	20x 15.5	
Diameter of the synchronous wheel	47.75	
Width of the synchronous belt	35	
The allow tension for synchronous belt	*754	
Sensor	The electro-optical sensor	Outside EE-SX672(NPN) EE-SX672P(PNP)
		Outside Guide EE-SX674(NPN) EE-SX674P(PNP)
	Magnetic sensor DS1-HN-020	

■ Acceleration—Payload

Horizontal - 750W Servo motor



(Figure 1)



(Figure 2)

*We suggest the accelerated velocity under the 5m/sec2 when reaching to the maximum payload horizontally, 2m/sec2 for the maximum payload vertically.

*The allow tension of the synchronous belt remarked as the standard parameters for the synchronous belt. (polyurethane (PU) + high-tensile steel wires)

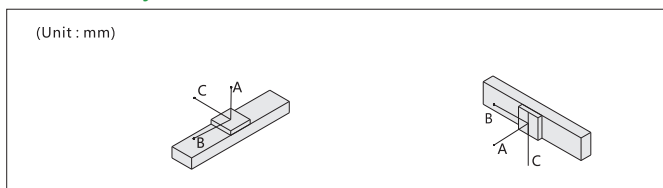
*Please attention the allow tension of the synchronous belt by vertically working. (Increase the reduction ratio of the reduction gear increases the rated thrust).

■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
	Delta	ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

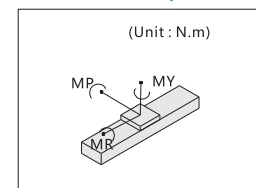
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
40kg	500	200	200
68kg	400	150	100

Wall installation	A	B	C
40kg	200	200	500
68kg	100	150	400

■ Max. Static Torque Table



Maximum static torque	
MY	326
MP	326
MR	94

*In case special stroke please contact technical services.

*In case special stroke please contact technical services.



Motor direction



BR



BL

Guide for Model Selection

GB5 — **L72** — **S100** — **BL** — **ZP20B** — **D3** —

Base Style	
Semiclosed with Frame Belt Type	
5	Body width55

Leather belt Type	
L	Clean belt
Lead	
72	72mm

Stroke(mm)
100-1500

Motor way	
BR	Right Side
BL	Left Side

Motor Type		Motor power	
P	Panasonic	20	200W
M	Mitsubishi	57	57 Stepper
Y	Yaskawa	Brakes	
T	Delta	No	No brake
* For Z: Motor is from clients		B	With brake

Original Sensor position		Limit Sensor Qty	
External		External	
C	Motor side	3	3pcs
D	Opposite motor side	2	2pcs
E	No	No sensor	

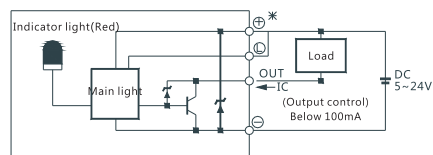
Sensor type	
No	NPN
P	PNP

Non-standard, d.c.,	
No	Standard type
BL1	Detailed information please see page032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

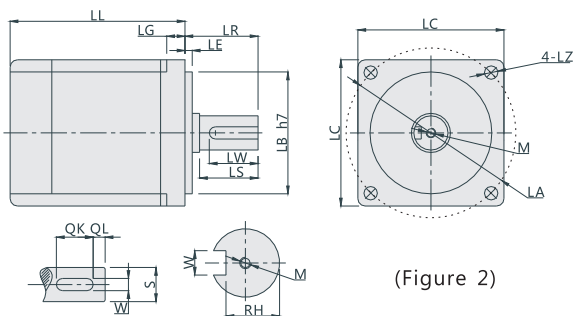
■ Specification

AC (W) Motor power AC (W)		200W
Drive Type		Timing belt driving
Repeatability		±0.08
Lead(mm)		72
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)		3600
Maximum Payload(kg)	Horizontal	5
	Vertical	
RatedThrust(N)		55
Diameter of the synchronous wheel		22.9
Width of the synchronous belt		15
The allow tension for synchronous belt		159
Linear Guide (mm)		Ø6
Home Sensor		Outside EE-SX671(NPN) EE-SX671P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

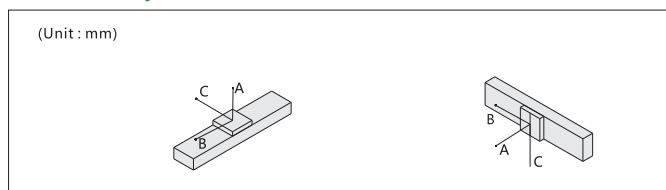
■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
		Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-

□ Stand for empty

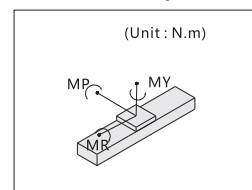
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
5kg	300	200	180

Wall installation	A	B	C
5kg	200	150	300

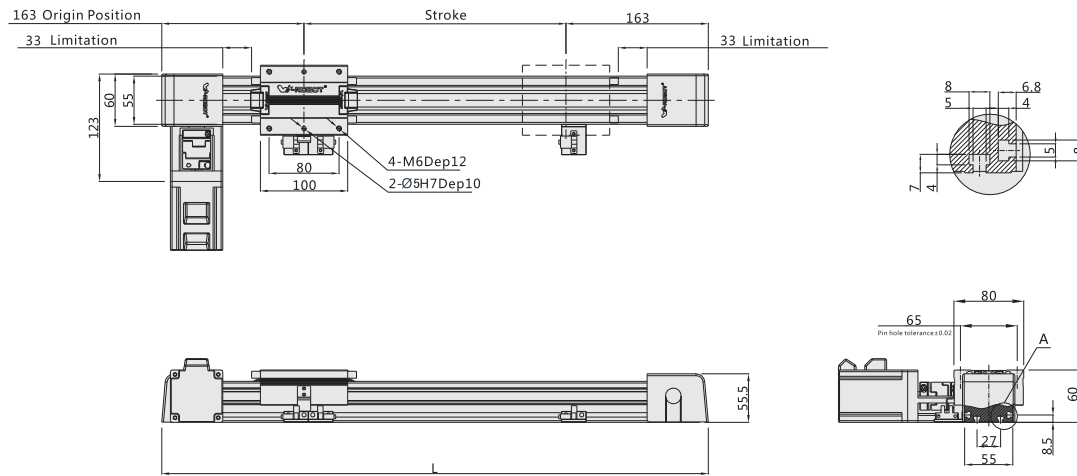
■ Max. Static Torque Table



Maximum static torque	
MY	35
MP	70
MR	50

BL: Left Side

Unit (mm)



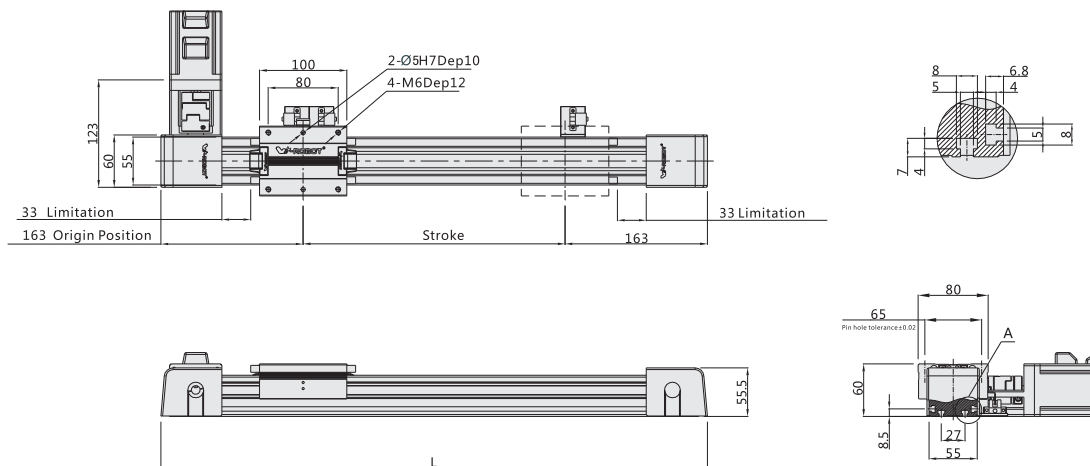
Note: Not including motor weight.

Working 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	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726	1776	1826
Weight KG	2.78	3.02	3.26	3.5	3.74	3.96	4.2	4.44	4.7	4.94	5.42	5.66	5.9	6.14	6.38	6.62	6.86	7.1	7.34	7.58	7.82	8.06	8.3	8.54	8.78	9.02	9.26	9.5	9.74

*In case special stroke please contact technical services.

BR: Right Side

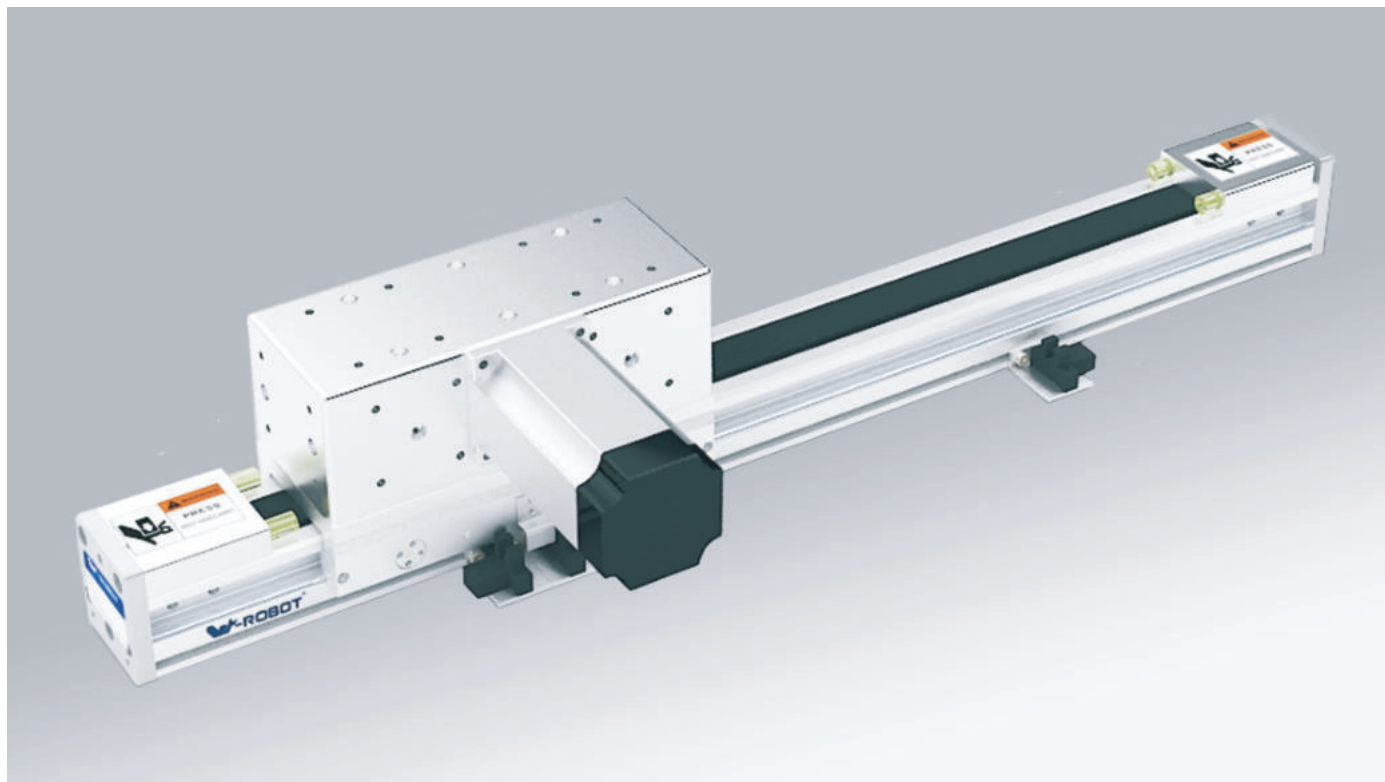
Unit (mm)



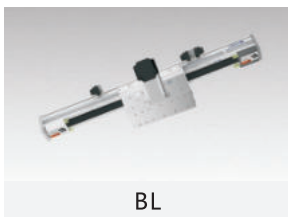
Note: Not including motor weight.

Working 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	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726	1776	1826
Weight KG	2.78	3.02	3.26	3.5	3.74	3.96	4.2	4.44	4.7	4.94	5.42	5.66	5.9	6.14	6.38	6.62	6.86	7.1	7.34	7.58	7.82	8.06	8.3	8.54	8.78	9.02	9.26	9.5	9.74

*In case special stroke please contact technical services.



■ Motor direction



■ Guide for Model Selection

GB5Z — L120 — S100 — BL — ZP40B — D3 —

Base Style	
Semiclosed with Frame	Belt Type
5	Body width55

Leather belt Type	
L	Clean belt
Lead	
120	120mm

Stroke(mm)	
100-1500	

Motor way	
BR	Right Side
BL	Left Side

Motor Type		Motor power	
P	Panasonic	40	400W
M	Mitsubishi	57	57 Stepper
Y	Yaskawa	Brakes	
T	Delta	No	No brake
* For Z: Motor is from clients		B	With brake

Original Sensor position		Limit Sensor Qty	
External		External	
C	Motor side	3	3pcs
D	Opposite motor side	2	2pcs
E	No	No sensor	

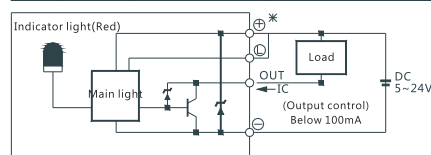
Sensor type	
No	NPN
P	PNP

Non-standard, d.c.,	
No	Standard type
BL1	Detailed information please see page 032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

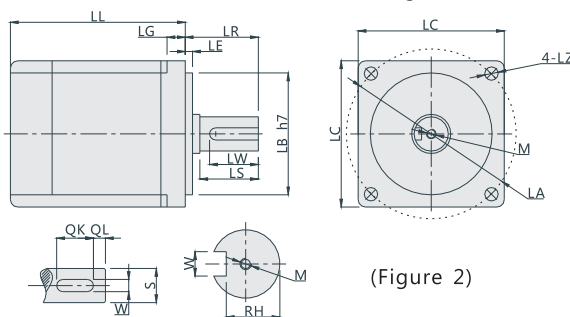
■ Specification

Motor power AC (W)		400W
Drive Type		Timing belt driving
Repeatability		±0.08
Lead(mm)		120
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/min)		4000
Maximum Payload(kg)	Horizontal	5 (The gearbox required)
	Vertical	
RatedThrust(N)		65
Linear Guide (mm)		Ø6x4
Diameter of the synchronous wheel		38.2
Width of the synchronous belt		25
The allow tension for synchronous belt		539
Home Sensor		Outside EE-SX671(NPN) EE-SX671P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



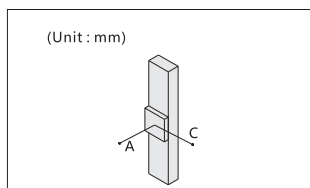
(Figure 2)

■ Servo Motor Matches List

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-

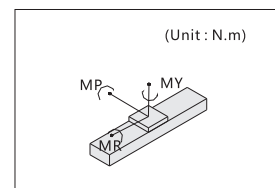
□ Stand for empty

■ Max. Payload Diameters Table



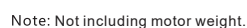
Vertical installation	A	C
5kg	245	200

■ Max. Static Torque Table



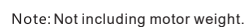
Maximum static torque	
MY	35
MP	70
MR	50

Unit (mm)

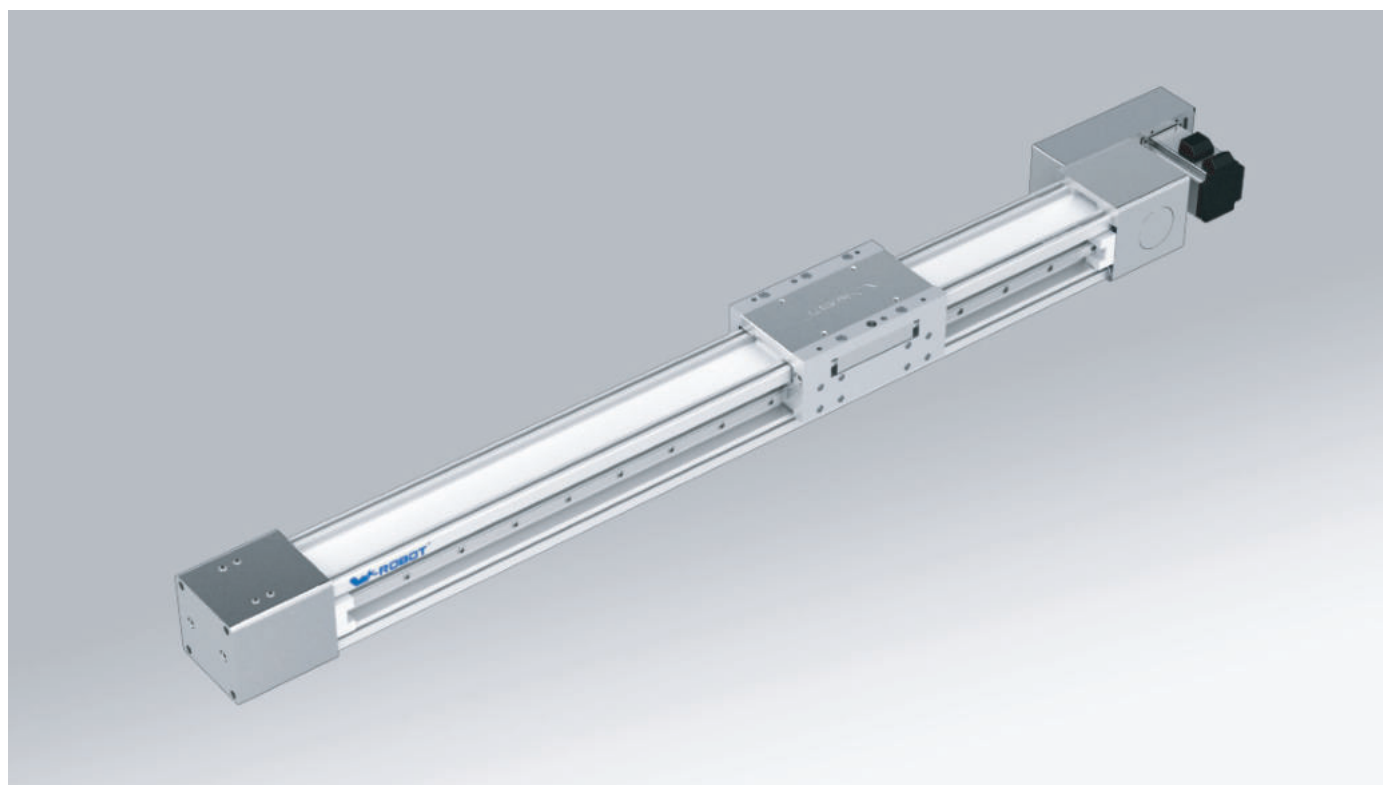


*In case special stroke please contact technical services.

Unit (mm)



*In case special stroke please contact technical services.



■ Motor direction



■ Guide for Model Selection

GB8 — L88 — S100 — BL — ZP20B — MS3 —

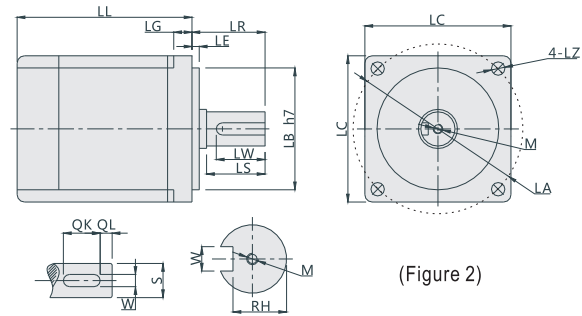
Base Style		Leather belt Type		Stroke(mm)	Motor way		Motor Type		Motor power	Sensor		Sensor switch		Non-standard, d.c.,	
GB	Belt Type	L	Clean belt	100-5500	BR	Right Side	P	Panasonic	20	200W	C	The electro-optical sensor	3	3pcs	No
80	Body width80	X	Rubber belt		BRU	Upper Right Side	M	Mitsubishi	40	400W	MS	Magnetic sensor	2	2pcs	BL1
		Lead			BRD	Down Right Side	Y	Yaskawa	Brakes		E	No	1	1pcs	B2
		88	88mm		BL	Left Side	T	Delta	No	No brake	Sensor type				D01
					BLU	Upper Left Side	* For Z: Motor is from clients		B	With brake			No	NPN	U01
					BLD	Down Left Side					P	PNP			UD01
															H01
															HU01
															HD01
															HUD01
															M01
															S01

Detailed information please see page 032

Specification

Motor power AC (W)		400W/750W
Drive Type		Timing belt driving
Repeatability		±0.05
Lead(mm)		88
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)		4400
Maximum Payload(kg)	Horizontal	*20/40
	Vertical	
RatedThrust(N)		*90/170
Linear Guide (mm)		15x 12.5-2
Diameter of the synchronous wheel		56.02
Reduction ratio		2
Width of the synchronous belt		30
The allow tension for synchronous belt		*1400
Sensor		The electro-optical sensor Outside EE-SX674(NPN) EE-SX674P(PNP)
		Magnetic sensor DS1-EN-020

*The reduction gears can be connected separately on the motor interfac



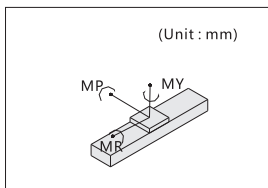
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-

□ Stand for empty

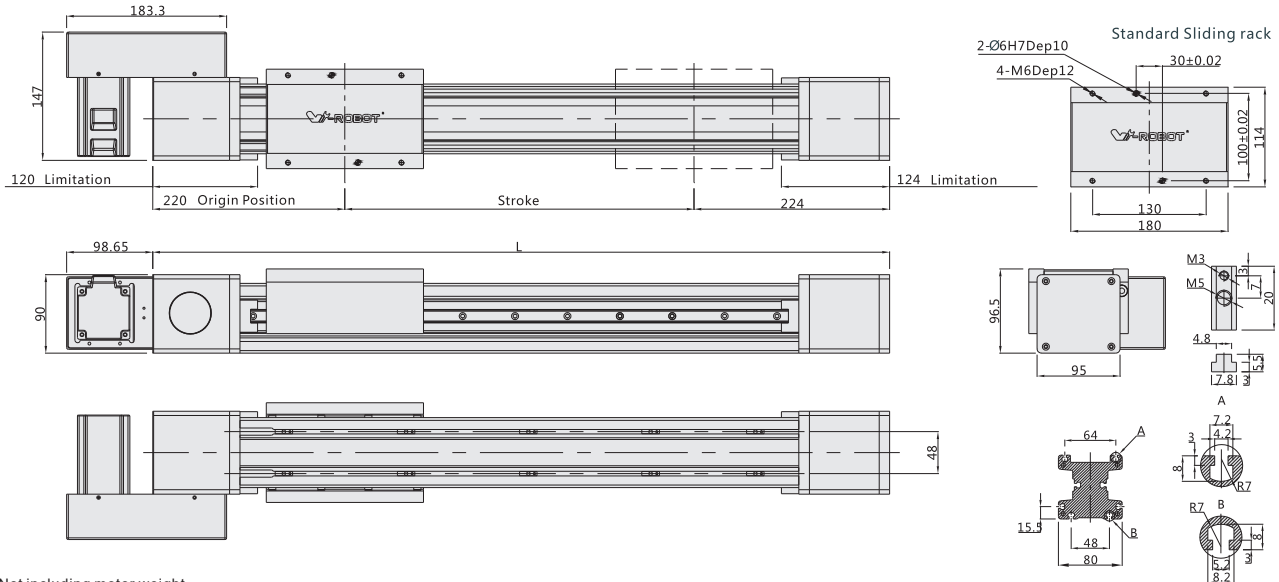
Max. Static Torque Table



Maximum static torque	
MY	510
MP	510
MR	440

BR: Right Side

Unit (mm)



Note: Not including motor weight.

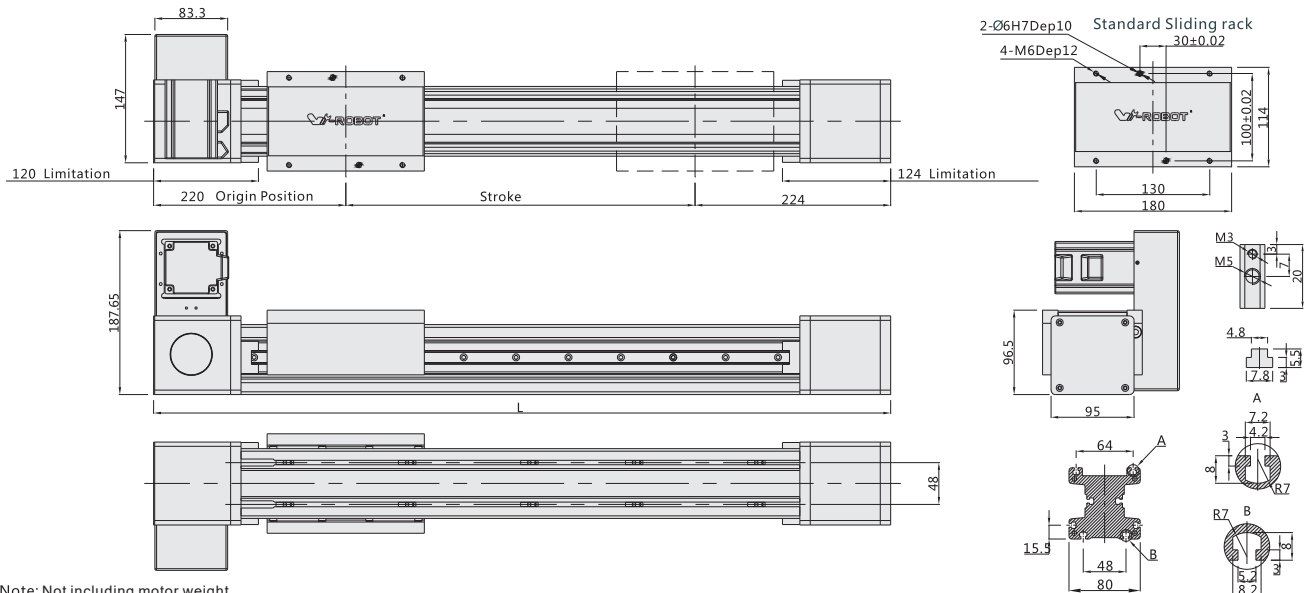
Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594	1644	1694	1744	1794	1844	1894	1944
Weight KG	10.0	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.4	20.8	21.2

Working Stroke	1550	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
L	1994	2044	2094	2144	2194	2244	2294	2344	2394	2444	2494	2544	2594	2644	2694	2744	2794	2844	2894	2944	2994	3044	3094	3144	3194	3244	3294	3344	3394
Weight KG	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.2	25.6	26.0	26.4	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6	30.0	30.4	30.8	31.2	31.6	32.0	32.4	32.8

*In case special stroke please contact technical services.

BRU: Upper Right Side

Unit (mm)



Note: Not including motor weight.

Working 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	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594	1644	1694	1744	1794	1844	1894	1944
Weight KG	10.0	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.4	20.8	21.2

Working Stroke	1550	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
L	1994	2044	2094	2144	2194	2244	2294	2344	2394	2444	2494	2544	2594	2644	2694	2744	2794	2844	2894	2944	2994	3044	3094	3144	3194	3244	3294	3344	3394
Weight KG	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.2	25.6	26.0	26.4	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6	30.0	30.4	30.8	31.2	31.6	32.0	32.4	32.8

*In case special stroke please contact technical services.

Unit (mm)



Working Stroke	1550	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
L	1994	2044	2094	2144	2194	2244	2294	2344	2394	2444	2494	2544	2594	2644	2694	2744	2794	2844	2894	2944	2994	3044	3094	3144	3194	3244	3294	3344	3394
Weight KG	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.2	25.6	26.0	26.4	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6	30.0	30.4	30.8	31.2	31.6	32.0	32.4	32.8

*In case special stroke please contact technical services.

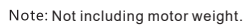
Unit (mm)



Working Stroke	1550	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
L	1994	2044	2094	2144	2194	2244	2294	2344	2394	2444	2494	2544	2594	2644	2694	2744	2794	2844	2894	2944	2994	3044	3094	3144	3194	3244	3294	3344	3394
Weight KG	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.2	25.6	26.0	26.4	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6	30.0	30.4	30.8	31.2	31.6	32.0	32.4	32.8

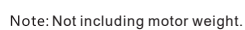
*In case special stroke please contact technical services.

Unit (mm)



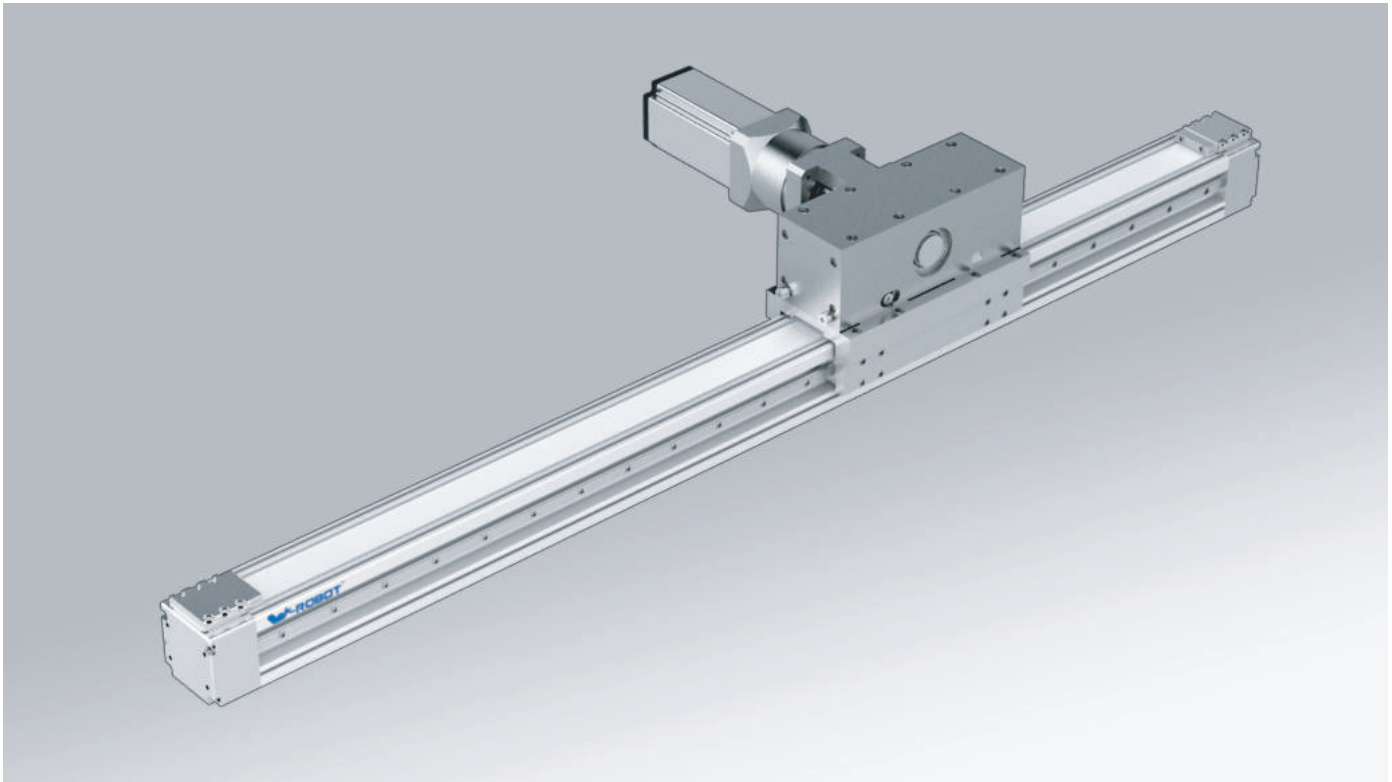
Working Stroke	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
L	1994	2044	2094	2144	2194	2244	2294	2344	2394	2444	2494	2544	2594	2644	2694	2744	2794	2844	2894	2944	2994	3044	3094	3144	3194	3244	3294	3344	3394
Weight KG	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.2	25.6	26.0	26.4	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6	30.0	30.4	30.8	31.2	31.6	32.0	32.4	32.8

Unit (mm)



Working Stroke	1550	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
L	1994	2044	2094	2144	2194	2244	2294	2344	2394	2444	2494	2544	2594	2644	2694	2744	2794	2844	2894	2944	2994	3044	3094	3144	3194	3244	3294	3344	3394
Weight KG	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.2	25.6	26.0	26.4	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6	30.0	30.4	30.8	31.2	31.6	32.0	32.4	32.8

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■ Motor direction



BLR

■ Guide for Model Selection

GB8Z — L200 — S100 — BLR — ZP75B — MS3 —

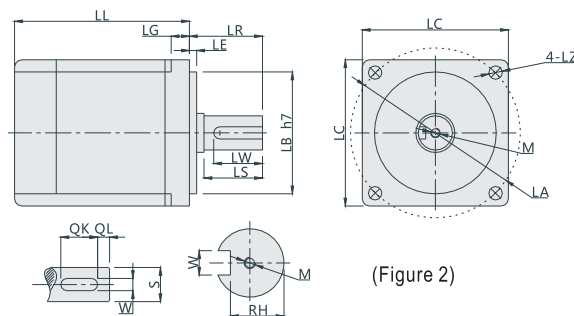
Base Style		Leather belt Type		Stroke(mm)	Motor way		Motor Type		Motor power		Sensor		Sensor switch		Non-standard, d.c.,				
GB	Belt Type	L	Clean belt	100-2000	BLR	Right/Left Side	P	Panasonic	75	750W	C	The electro-optical sensor	3	3pcs	No	Standard type			
80	Body width80	X	Rubber belt				M	Mitsubishi	Brakes		MS	Magnetic sensor	2	2pcs	BL1	Detailed information please see page032			
Z	Vertical	Lead		200	200mm		Y	Yaskawa	No	No brake	E	No	1	1pcs	B2				
							T	Delta	B	With brake					D01				
							W	W-Robot							U01				
															UD01				
															H01				
															HU01				
															HD01				
															HUD01				
															M01				
															S01				

* For Z: Motor is from clients

Sensor type	
No	NPN
P	PNP

Specification

Motor power AC (W)		750W
Drive Type		Timing belt driving
Repeatability		±0.05
Lead(mm)		* ¹ 200 (The gearbox required)
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)		* ² 1000
Maximum Payload(kg)	Horizontal	15
	Vertical	
RatedThrust(N)		* ³ 700
Linear Guide (mm)		15x 12.5-2
Diameter of the synchronous wheel		63.66
Width of the synchronous belt		40
The allow tension for synchronous belt		1882
Sensor		The electro-optical sensor Outside EE-SX674(NPN) EE-SX674P(PNP)
		Magnetic sensor DS1-EN-020



(Figure 2)

*1. The standard lead for 200mm, the reduction gears required for operation (E.g. 1/10 reduction gear , 200/10 =20 ,the lead can be 20mm)

*2. The linear actuator reaches the max velocity 1000mm/s with 1/10 reduction gear (The rotation rate for motor is 3000r/min) , changes reduction ratio of the reduction gear , follows the velocity change for actuators.

*3. The horizontal rated trust for 1/10 reduction gears are 700N (The actuators operate vertically need to remove the body load when up runing)

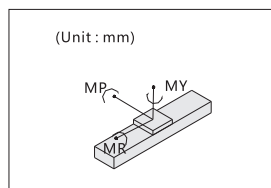
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
		Mitsubishi	HC-KFS73□	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-

□ Stand for empty

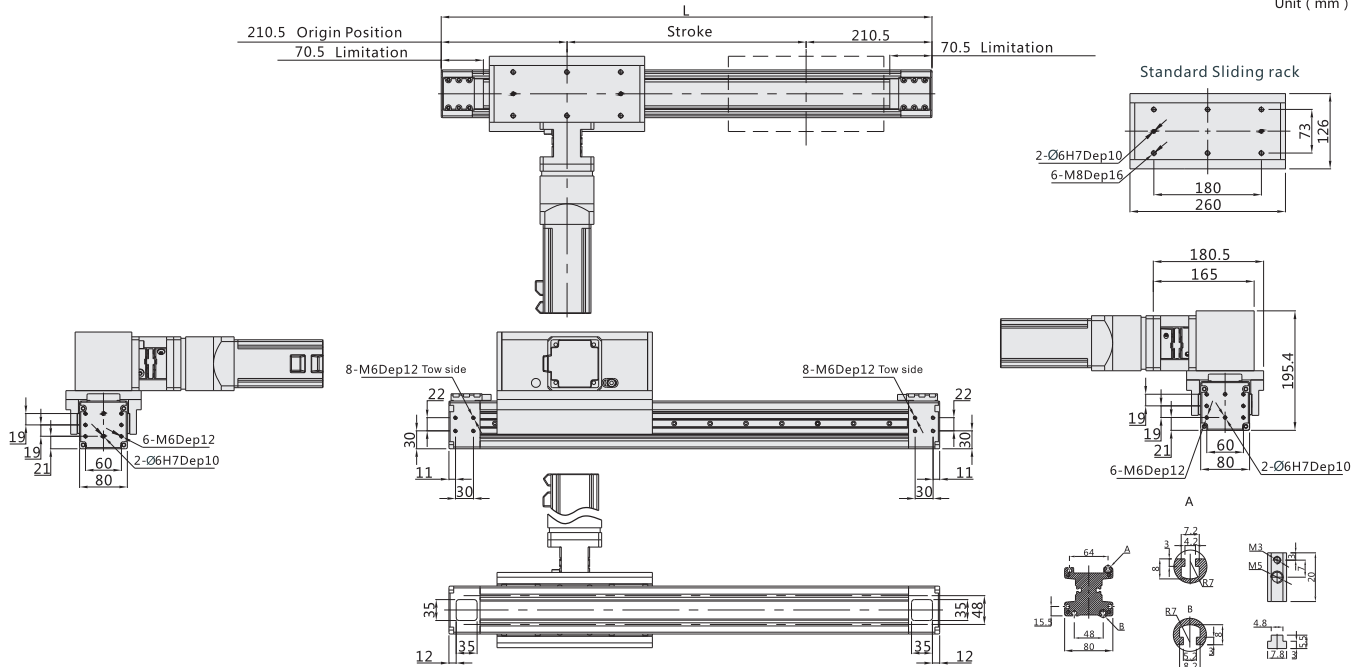
Max. Static Torque Table



Maximum static torque	
MY	510
MP	510
MR	440

BLR: Right/Left Side

Unit (mm)



Note: Not including motor weight.

Working 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	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921	1971	2021	2071	2121	2171	2221	2271	2321	2371	2421
Weight KG	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.0	25.4	25.8	26.2	26.6	27.0	27.4	27.8	28.2	28.6	29.0	29.4

*In case special stroke please contact technical services.

Dual Motors Series

Ball screw drive
General environment

VF14D2



Maximum Stroke 1500mm
Maximum Payload 115KG 190
Body Width 140mm

Timing belt drive
General environment

VBF14S2



Maximum Stroke 3000mm
Maximum Payload *20KGx2..... 194
Body Width 140mm

Ball screw drive
Dust-free environment

VC14D2



Maximum Stroke 1500mm
Maximum Payload 115KG 198
Body Width 140mm

Timing belt drive
Dust-free environment

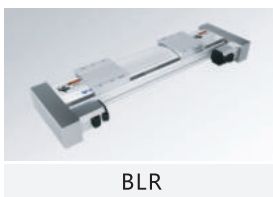
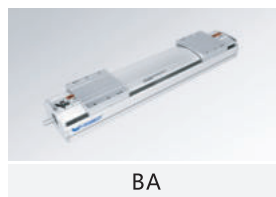
VBC14S2



Maximum Stroke 3000mm
Maximum Payload *20KGx2.....202
Body Width 140mm



Motor direction



Guide for Model Selection

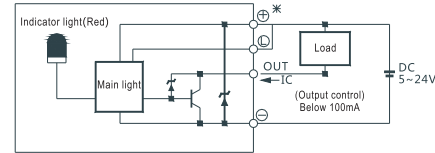
VF14D2 — L20 — P — S100 — BC — ZP40B — C6 —

Base Style		Ball Screw Lead		Accuracy class	Stroke(mm)	马达方式 Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
V	Vseries	L5	5mm	P	100-1500	BA	Basis	P	Panasonic	40	400W	External		External		No	Standard type
F	Semiclosed with Frame Ball Screw Drive	L10	10mm	C		BC	External	M	Mitsubishi	75	750W	C	Motor side	2	2pcs	BL1	Detailed information please see page032
14	Body width140	L20	20mm			BLR	Right/Left Side	Y	Yaskawa	Brakes		D	Oppsite motor side	6	6pcs	B2	
		L40	40mm					T	Delta	No	No brake	E	No	No sensor		D01	
								W	W-Robot	B	With brake	Sensor type				U01	
								* For Z: Motor is from clients				No	NPN			UD01	
												P	PNP			H01	
																HU01	
																HD01	
																HUD01	
																M01	
																S01	

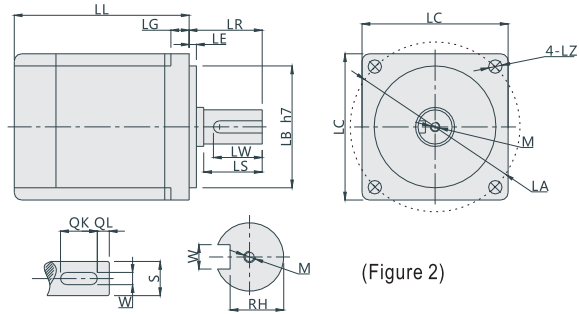
■ Specification

Motor power AC (W)	400W/750W			
BallScrewØ	(C7)	20		
	(C5)	20		
Repeatability (mm)	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	20	40
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1000	2000
Maximum Payload(kg)	Horizontal	110/115	100/105	75/80
	Vertical	40/45	29/35	14/20
Rated Thrust(N)	1388/2565	694/1281	347/640	347/640
Linear Guide (mm)	20x15.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	14x12		19x12	
Motor Output	400W		750W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

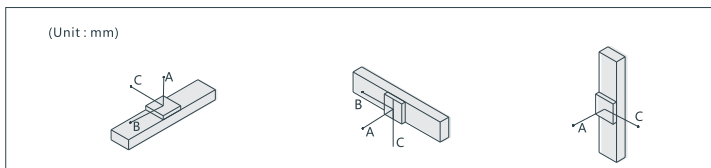
■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Delta	ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
	Delta	ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

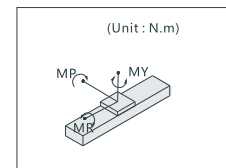
□ Stand for empty

■ Max. Payload Diameters Table



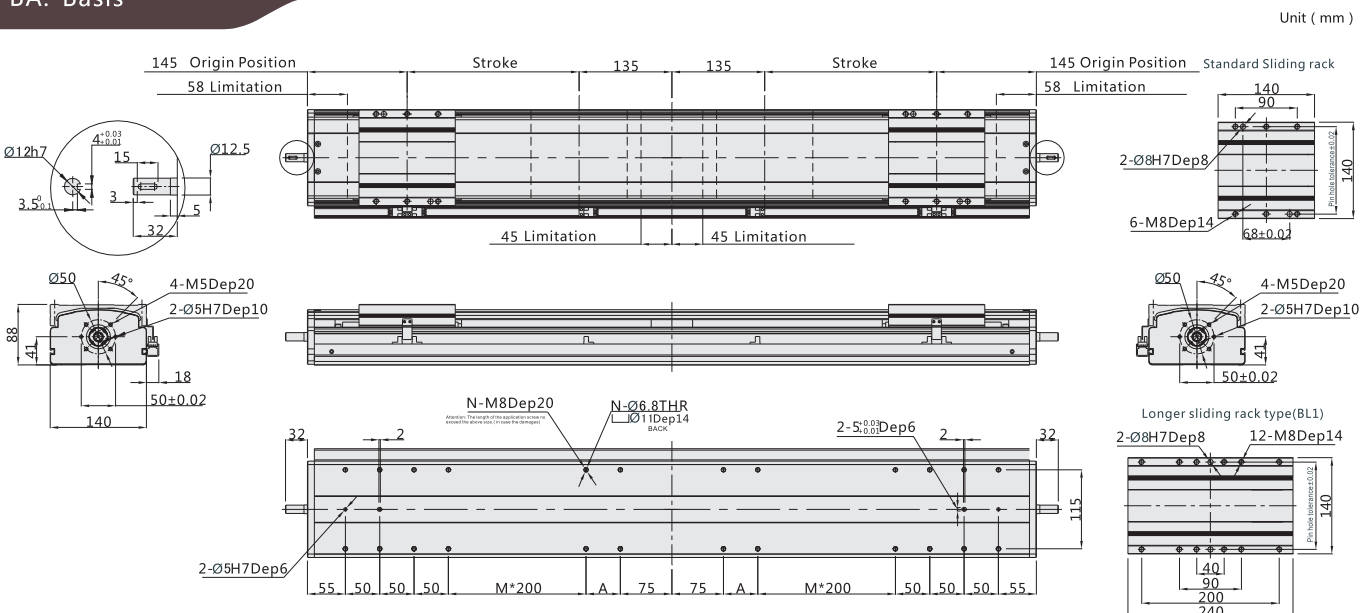
Horizontal installation		A	B	C	Wall installation		A	B	C	Vertical installation		A	C
Lead 5	55kg	2235	327	433	Lead 5	55kg	378	263	1829	Lead 5	15kg	1133	915
	95kg	1500	156	249		95kg	208	124	1497		25kg	908	743
	115kg	1385	152	202		115kg	163	89	1377		45kg	745	722
Lead 10	55kg	1830	321	428	Lead 10	55kg	400	265	1831	Lead 10	10kg	1334	1334
	70kg	1508	190	252		70kg	220	135	1508		20kg	788	788
	90kg	1389	156	206		90kg	173	100	1389		35kg	563	563
Lead 20	25kg	1989	675	746	Lead 20	25kg	737	612	1930	Lead 20	1kg	1265	1265
	45kg	1332	395	445		45kg	427	332	1260		5kg	1114	1114
	78kg	1047	238	201		78kg	253	174	944		20kg	489	489

■ Max. Static Torque Table



Maximum static torque	
MY	784
MP	788
MR	691

BA: Basis

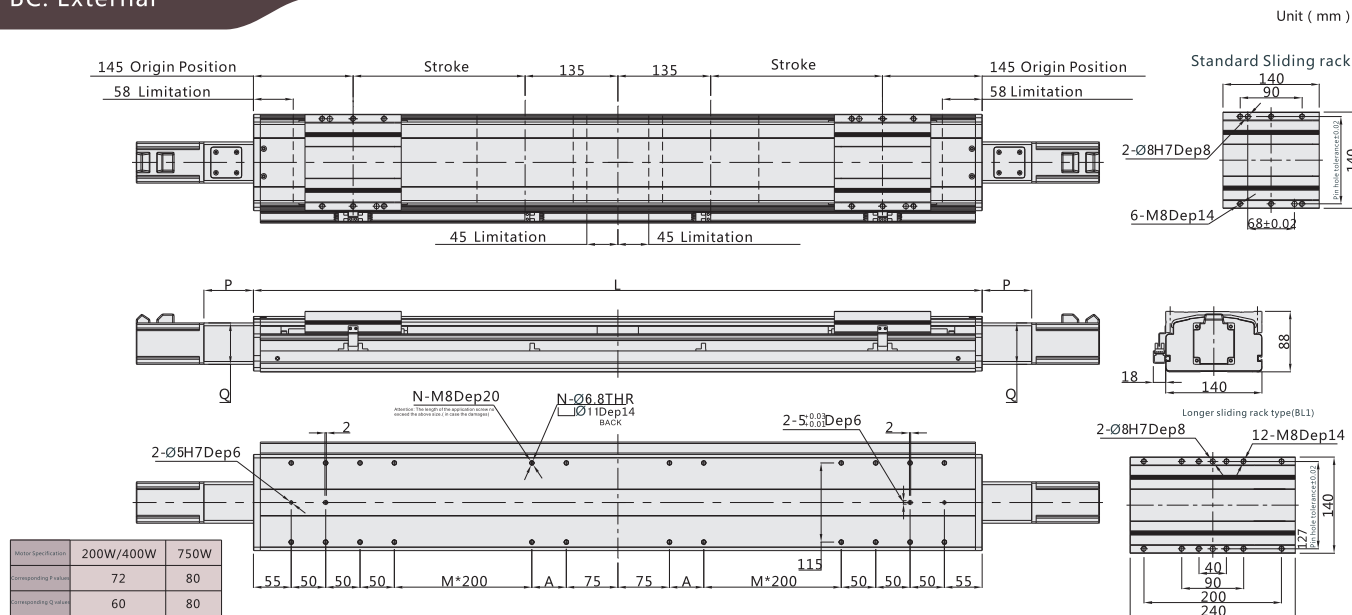


Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5	5	6	6	6	6	7	7
N	20	20	20	24	24	24	24	28	28	28	28	32	32	32	32	36	36	36	36	40	40	40	40	44	44	44	44	48	48
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
Weight KG	18.8	20.2	21.6	23.0	24.4	25.8	27.2	28.6	30.0	31.4	32.8	34.2	35.6	37.0	38.4	39.8	41.2	42.6	44.0	45.4	46.8	48.2	49.6	51.0	52.4	53.8	55.2	56.6	58.0

*Products with color are available stock and short lead time.

BC: External



Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5	5	6	6	6	6	7	7
N	20	20	20	24	24	24	24	28	28	28	28	32	32	32	32	36	36	36	36	40	40	40	40	44	44	44	44	48	48
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
Weight KG	20.2	21.6	23.0	24.4	25.8	27.2	28.6	30.0	31.4	32.8	34.2	35.8	37.0	38.4	39.8	41.2	42.6	44.0	45.4	46.8	48.2	49.6	51.0	52.4	53.8	55.2	56.6	58.0	59.4

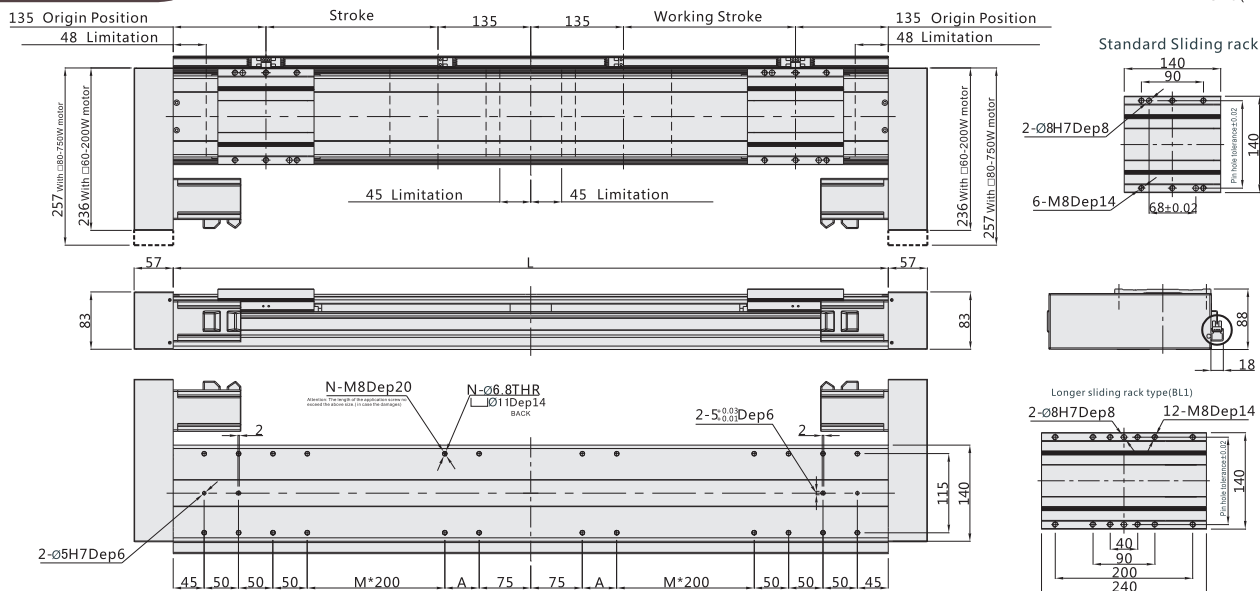
Note: Increasing the length of sliding rack will cause the changing of stroke and original sensor position.

*Products with color are available stock and short lead time.

VF14D2

BLR: Left/Right Side

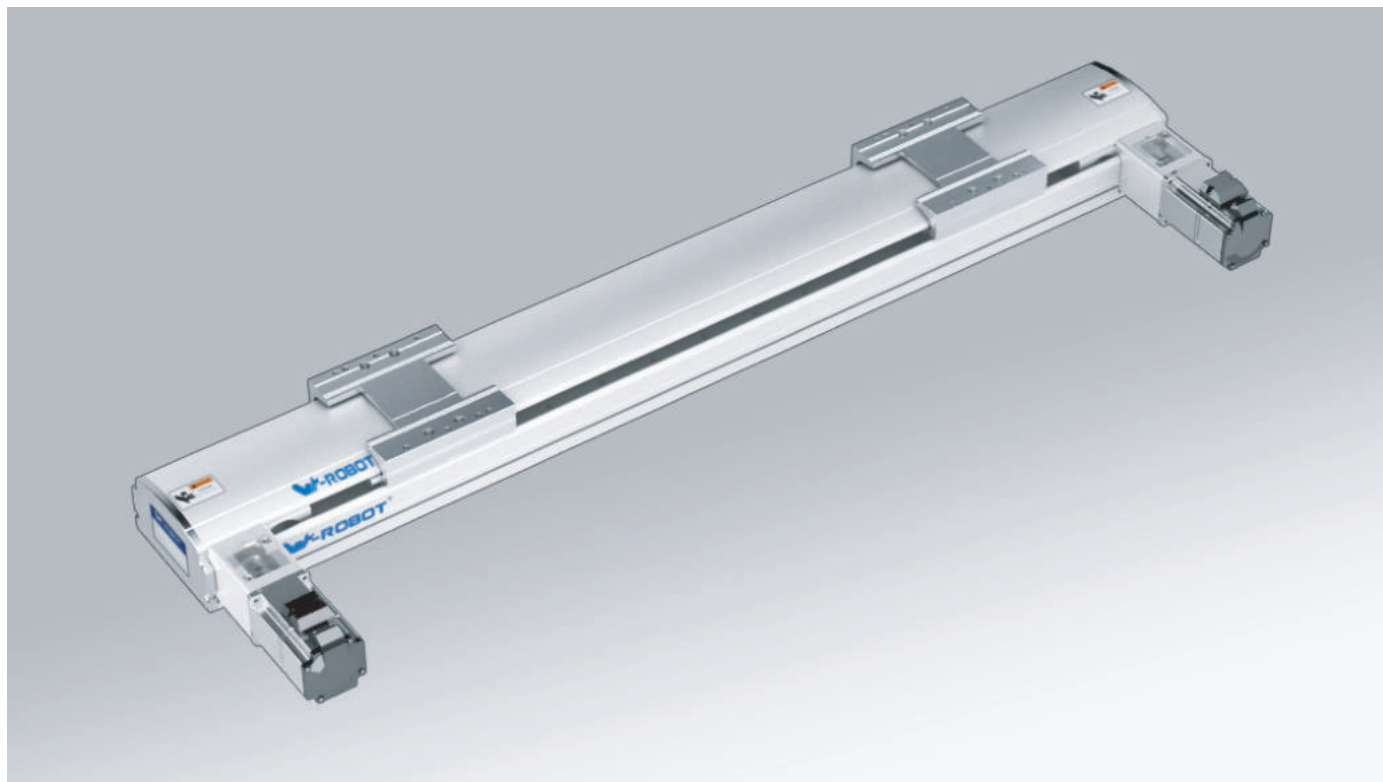
Unit (mm)



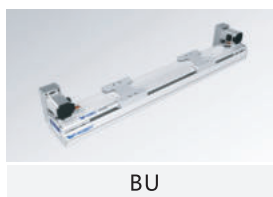
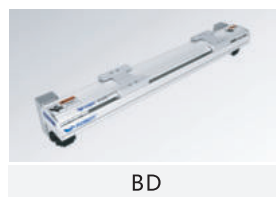
Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540
M	0	0	0	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
N	20	20	20	24	24	24	24	28	28	28	28	32	32	32	32	36	36	36	36	40	40	40	40	44	44	44	44	48	48
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
Weight KG	22.0	23.4	24.8	26.2	27.6	29.0	30.4	31.8	33.2	34.6	36.0	37.4	38.8	40.2	41.6	43.0	44.4	45.8	47.2	48.6	50.0	51.4	52.8	54.2	55.6	57.0	58.4	59.8	61.2

*Products with color  are available stock and short lead time.



Motor direction



Guide for Model Selection

VBF14S2 — L50 — S100 — BLR — ZP40B — C6 —

Base Style	
V	V series
BF	Semiclosed with Frame Belt Type
14	Body width 140

Leather belt Type	
L	Clean belt
X	Rubber belt
Lead	
50	50mm
100	100mm

Stroke(mm)	
100-3000	
Motor with the synchronous wheel connecting	
Motor with coupling connecting	

Motor way	
BLR	Right/Left Side
BU	Upper Side
BD	Down Side

Motor Type		Motor power	
P	Panasonic	20	200W
M	Mitsubishi	40	400W
Y	Yaskawa	75	750W
T	Delta	Brakes	
* For Z: Motor is from clients		No	No brake
		B	With brake

Original Sensor position		Sensor switch	
External		External	
C	Motor side	2	2pcs
D	Opposite motor side	6	6pcs
E	No	No sensor	

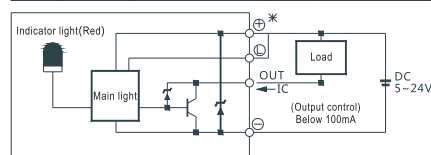
Sensor type	
No	NPN
P	PNP

Non-standard, d.c.	
No	Standard type
BL1	Detailed information please see page 032
B2	
D01	
U01	
UD01	
H01	
HU01	
HD01	
HUD01	
M01	
S01	

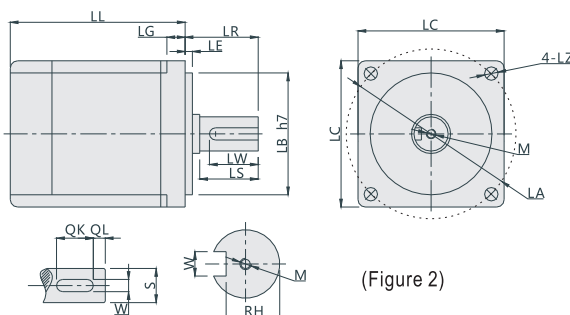
■ Specification

Motor power AC (W)		400W	
Drive Type		Timing belt driving	
Repeatability		±0.04	
Lead(mm)		50	100
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)		2500	5000
Maximum Payload(kg)	Horizontal	*20	*10
	Vertical		
RatedThrust(N)		150	75
Linear Guide (mm)		20x15.5-2	
Home Sensor		Outside	EE-SX672(NPN) EE-SX672P(PNP)
		Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

*Horizontal payload 20KG just one sliding rack required(Lead 50MM)/10KG(Lead100MM)

*Within horizontal ACC 5m/sec² (Properly increased ACC while payload is reducing)

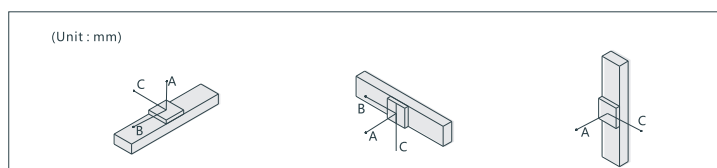
■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

□ Stand for empty

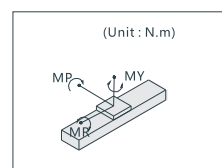
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	2800	1800	1250
20kg	2200	950	750
30kg	1800	650	550

Wall installation	A	B	C
10kg	1170	1300	2200
20kg	700	630	1600
30kg	450	380	1250

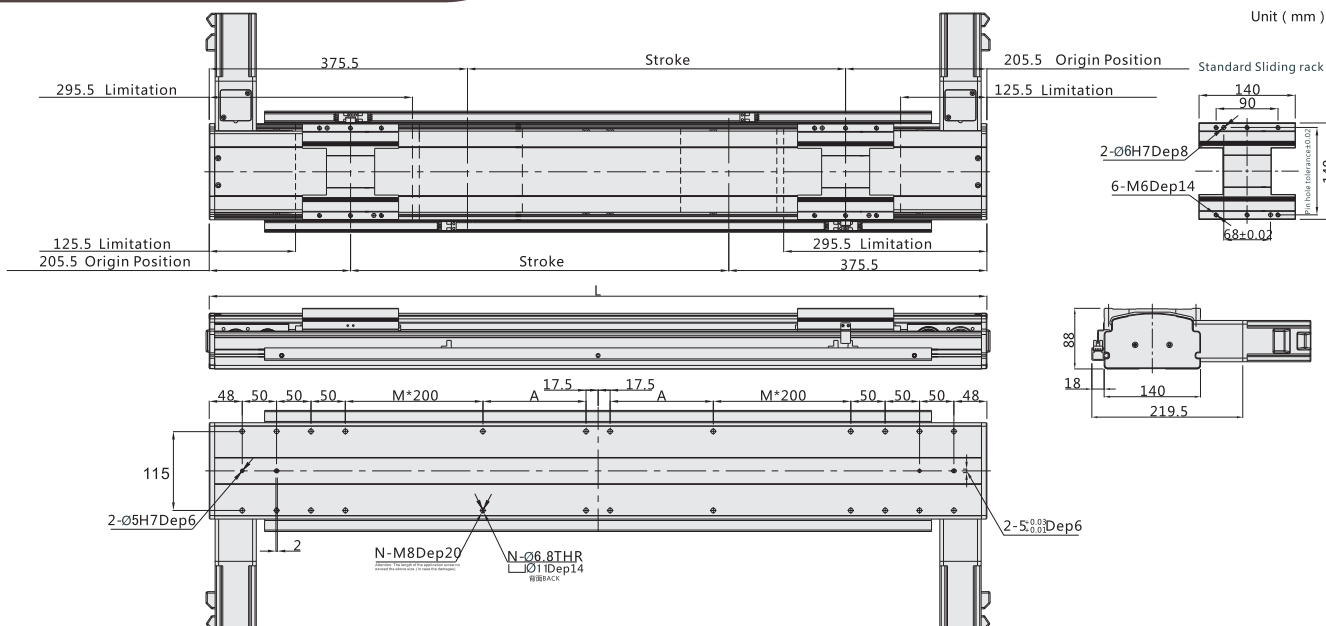
■ Max. Static Torque Table



Maximum static torque	
MY	392
MP	394
MR	345

BLR: Right Side — Motor with coupling connecting

Unit (mm)



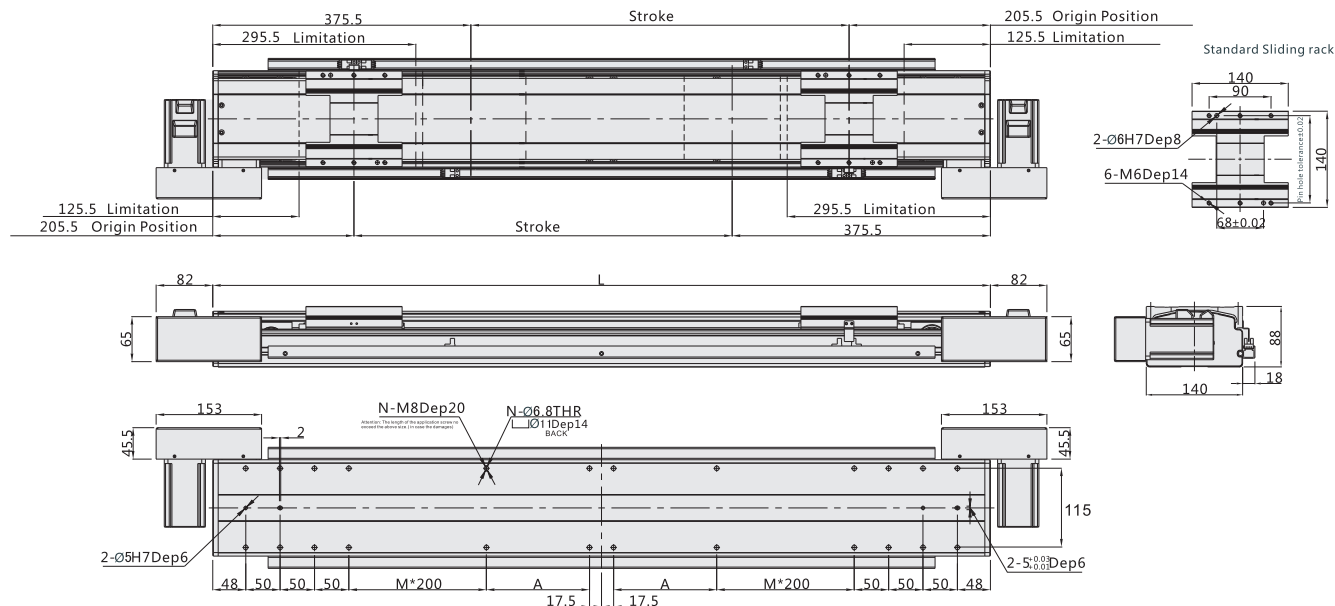
Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	28.1	29.1	30.1	31.1	32.1	33.1	34.1	35.1	36.1	37.1	38.1	39.1	40.1	41.1	42.1	43.1	44.1	45.1	46.1	47.1	48.1	49.1	50.1	51.1	52.1	53.1	54.1	55.1	56.1

*In case special stroke please contact technical services.

BLR: Right Side

Unit (mm)



Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4	57.4

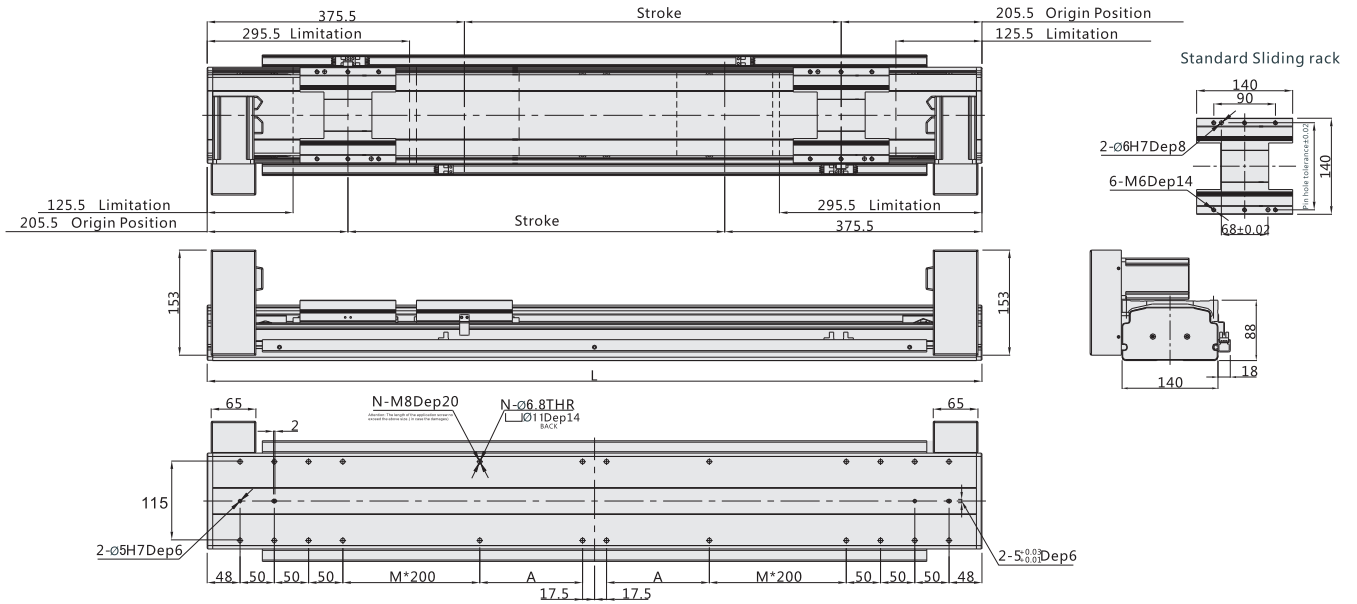
*In case special stroke please contact technical services.

VBF14S2

W-ROBOT®
Linear Drives

BU: Upper Side

Unit (mm)



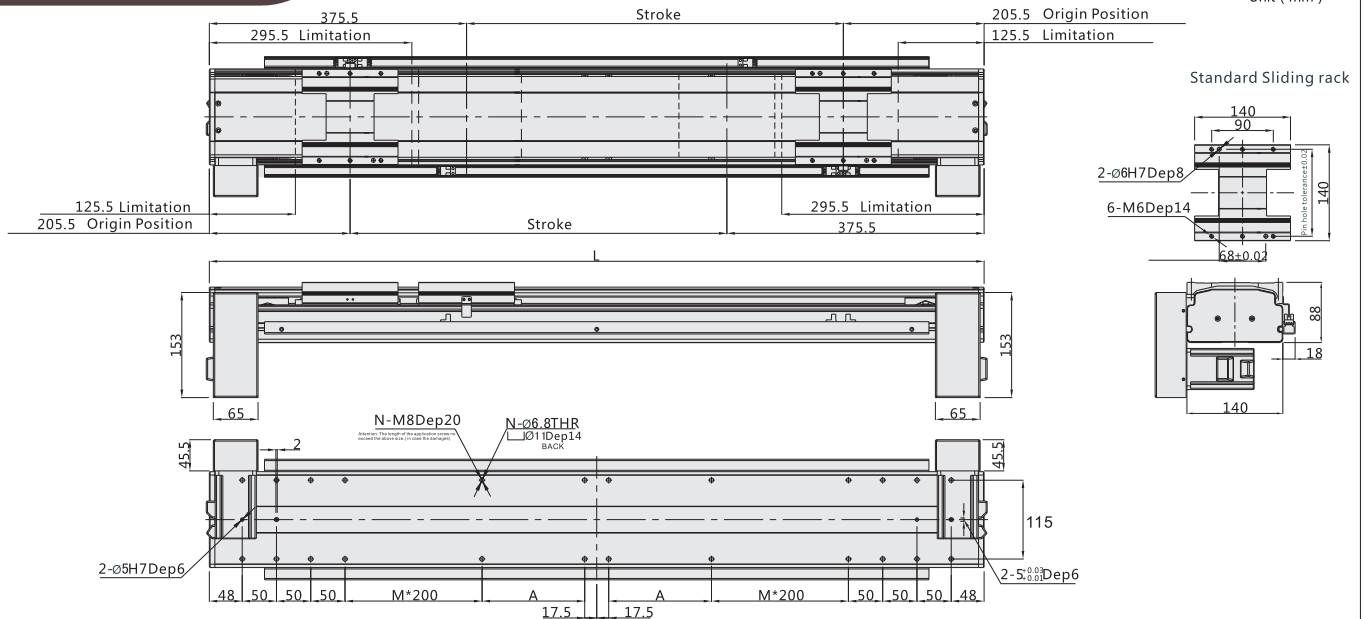
Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4	57.4

*In case special stroke please contact technical services.

BD: Down Side

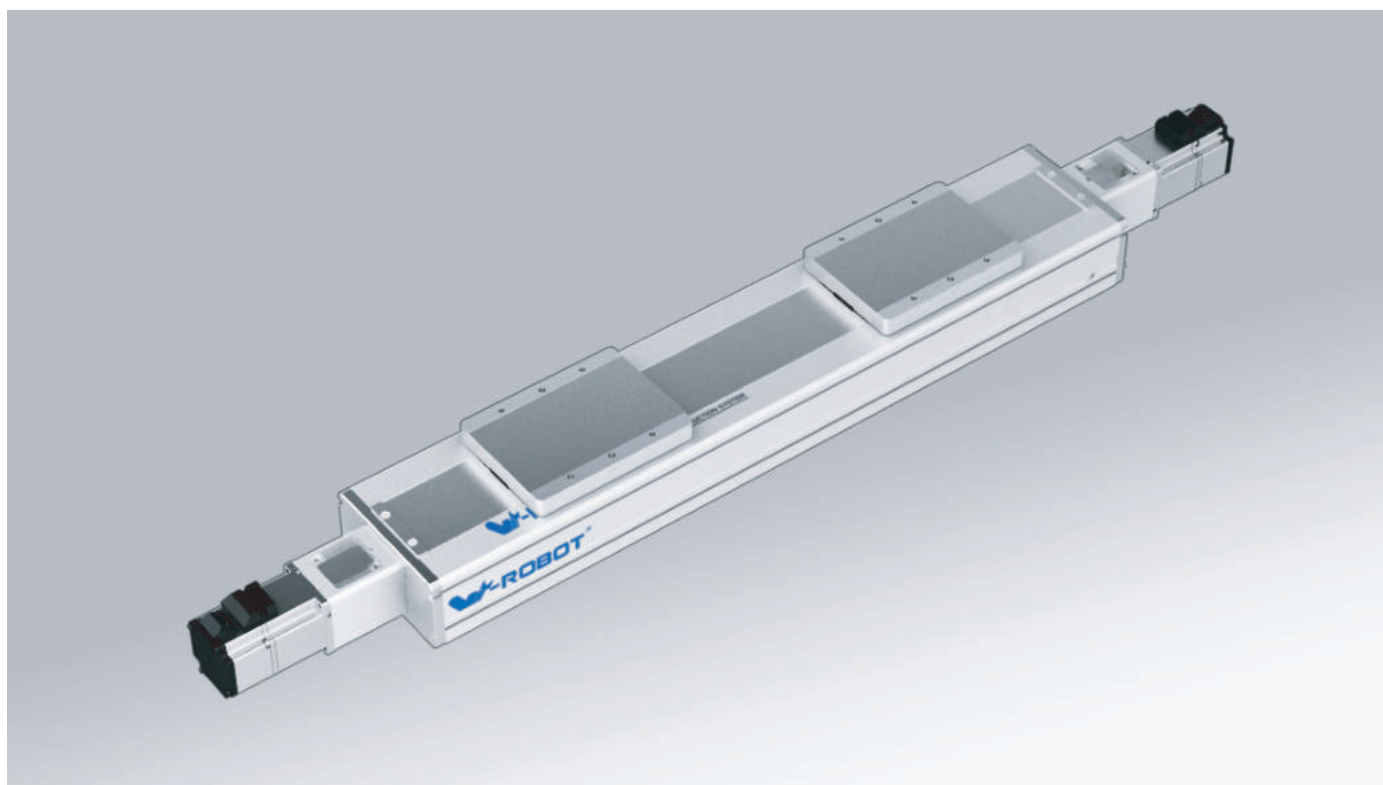
Unit (mm)



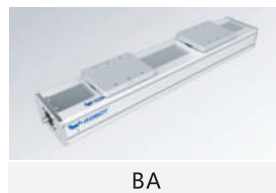
Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4	57.4

*In case special stroke please contact technical services.



Motor direction



BA



BC



BLR

Guide for Model Selection

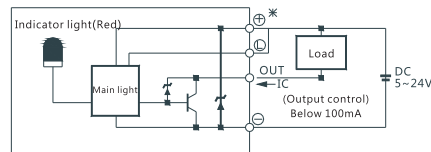
VC14D2 — L20 — P — S100 — BC — ZP40B — C6 —

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.	
V	Vseries	L5	5mm	P	High precision	100-1500	BA	Basis	P	Panasonic	40	400W	External		External		No	Standard type
C	Cleanse Fully-enclosed	L10	10mm	C	Common precision		BC	External	M	Mitsubishi	75	750W	C	Motor side	2	2pcs	BL1	Detailed information please see page 32
14	Body width140	L20	20mm				BLR	Right/Left Side	Y	Yaskawa	Brakes		D	Oppsite motor side	6	6pcs	B2	
Motor Qty		L40	40mm						T	Delta	No	No brake	E	No	No sensor		D01	
									W	W-Robot	B	With brake					U01	
									* For Z: Motor is from clients								H01	
																	UD01	
																	HD01	
																	HUD01	
																	M01	
																	S01	

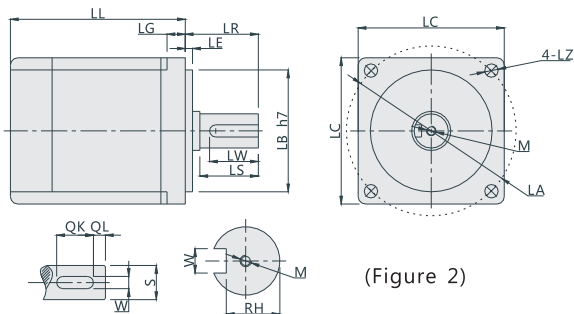
Specification

Motor power AC (W)	400W/750W			
BallScrewØ(mm)	(C7)	20		
	(C5)	20		
Repeatability (mm)	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	10	20	40
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	500	1000	2000
Maximum Payload(kg)	Horizontal	110/115	100/105	75/80
	Vertical	40/45	29/35	14/20
RatedThrust(N)	1388/2565	694/1281	347/640	347/640
Linear Guide (mm)	20x15.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	14x12	19x12		
	400W	750W		
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if logner travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

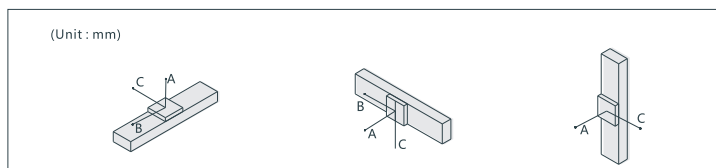
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

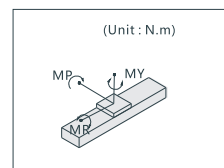
□ Stand for empty

Max. Payload Diameters Table



Horizontal installation				Wall installation				Vertical installation			
		A	B	C		A	B	C		A	C
Lead 5	55kg	2235	327	433	Lead 5	55kg	378	263	Lead 5	15kg	1133
	95kg	1500	156	249		95kg	208	124		25kg	908
	115kg	1385	152	202		115kg	163	89		45kg	745
Lead 10	55kg	1830	321	428	Lead 10	55kg	400	265	Lead 10	10kg	1334
	70kg	1508	190	252		70kg	220	135		20kg	788
	90kg	1389	156	206		90kg	173	100		35kg	563
Lead 20	25kg	1989	675	746	Lead 20	25kg	737	612	Lead 20	1kg	1265
	45kg	1332	395	445		45kg	427	332		5kg	1114
	78kg	1047	238	201		78kg	253	174		20kg	489

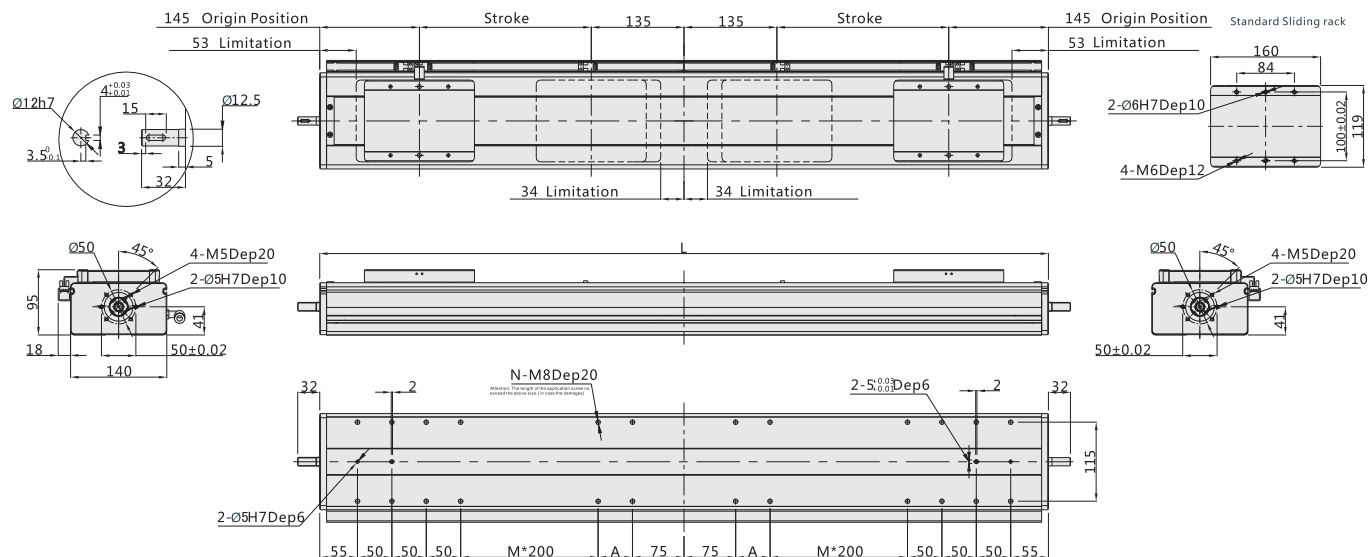
Max. Static Torque Table



Maximum static torque	
MY	784
MP	788
MR	691

BA: Basis

Unit (mm)



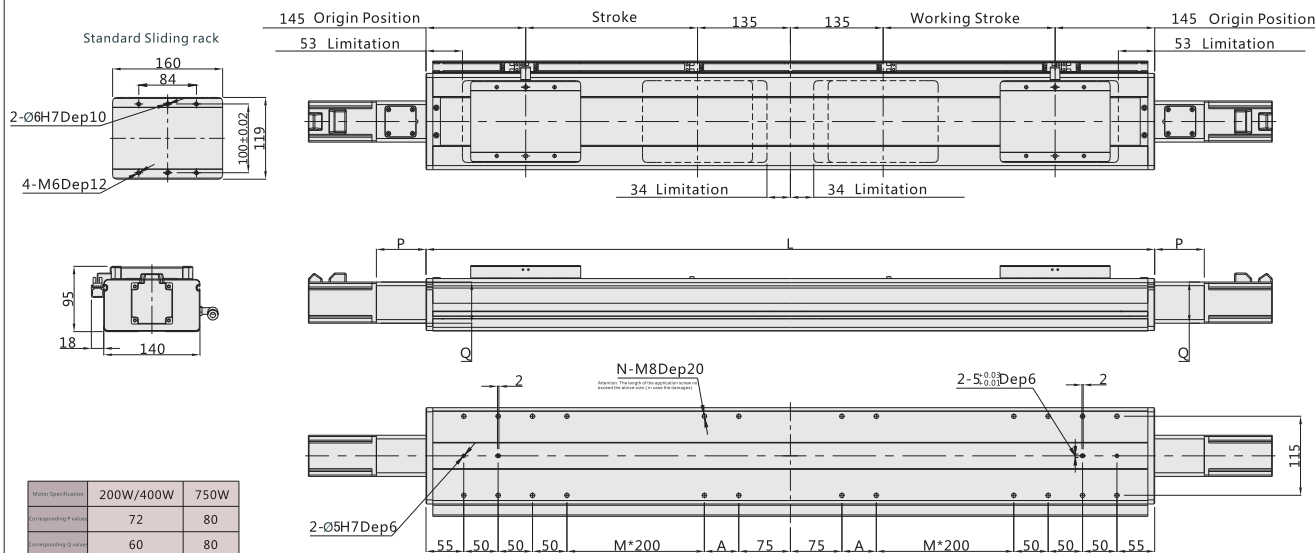
Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560
M	0	0	0	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
N	20	20	20	24	24	24	24	28	28	28	28	32	32	32	32	36	36	36	36	40	40	40	40	44	44	44	48	48	48
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
Weight KG	18.8	20.2	21.6	23.0	24.4	25.8	27.2	28.6	30.0	31.4	32.8	34.2	35.6	37.0	38.4	39.8	41.2	42.6	44.0	45.4	46.8	48.2	49.6	51.0	52.4	53.8	55.2	56.6	58.0

*Products with color are available stock and short lead time.

BC: External

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560
M	0	0	0	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
N	20	20	20	24	24	24	24	28	28	28	28	32	32	32	32	36	36	36	36	40	40	40	40	44	44	44	48	48	48
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
Weight KG	20.2	21.6	23.0	24.4	25.8	27.2	28.6	30.0	31.4	32.8	34.2	35.8	37.0	38.4	39.8	41.2	42.6	44.0	45.4	46.8	48.2	49.6	51.0	52.4	53.8	55.2	56.6	58.0	59.4

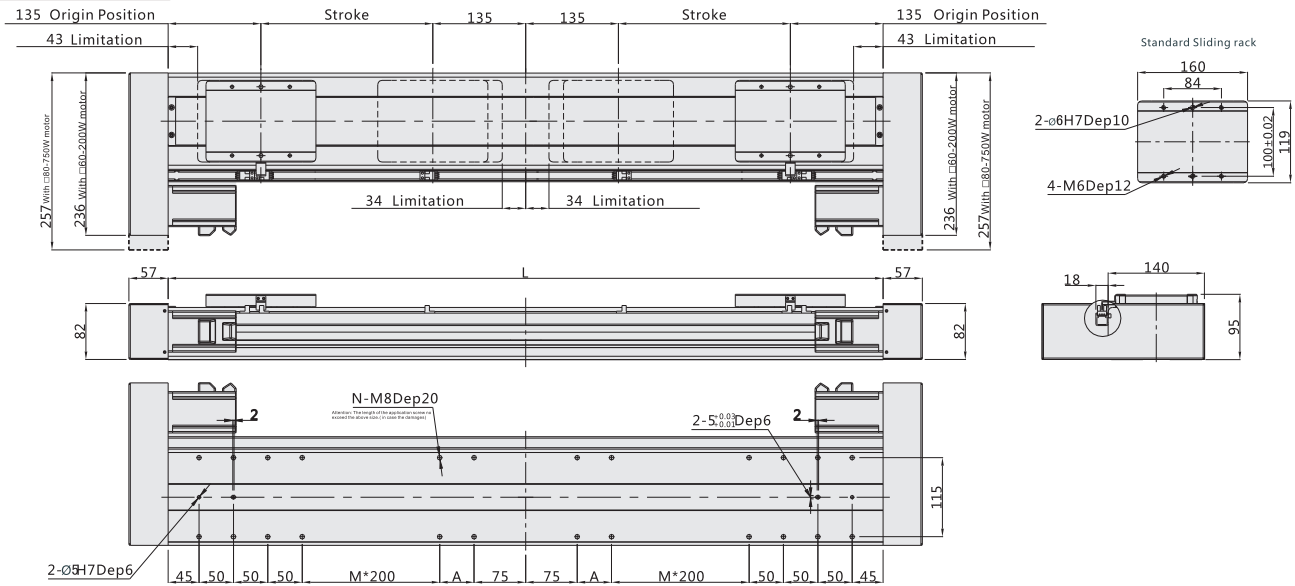
*Products with color are available stock and short lead time.

VC14D2

W-ROBOT®
Linear Drives

BLR: Left/Right Side

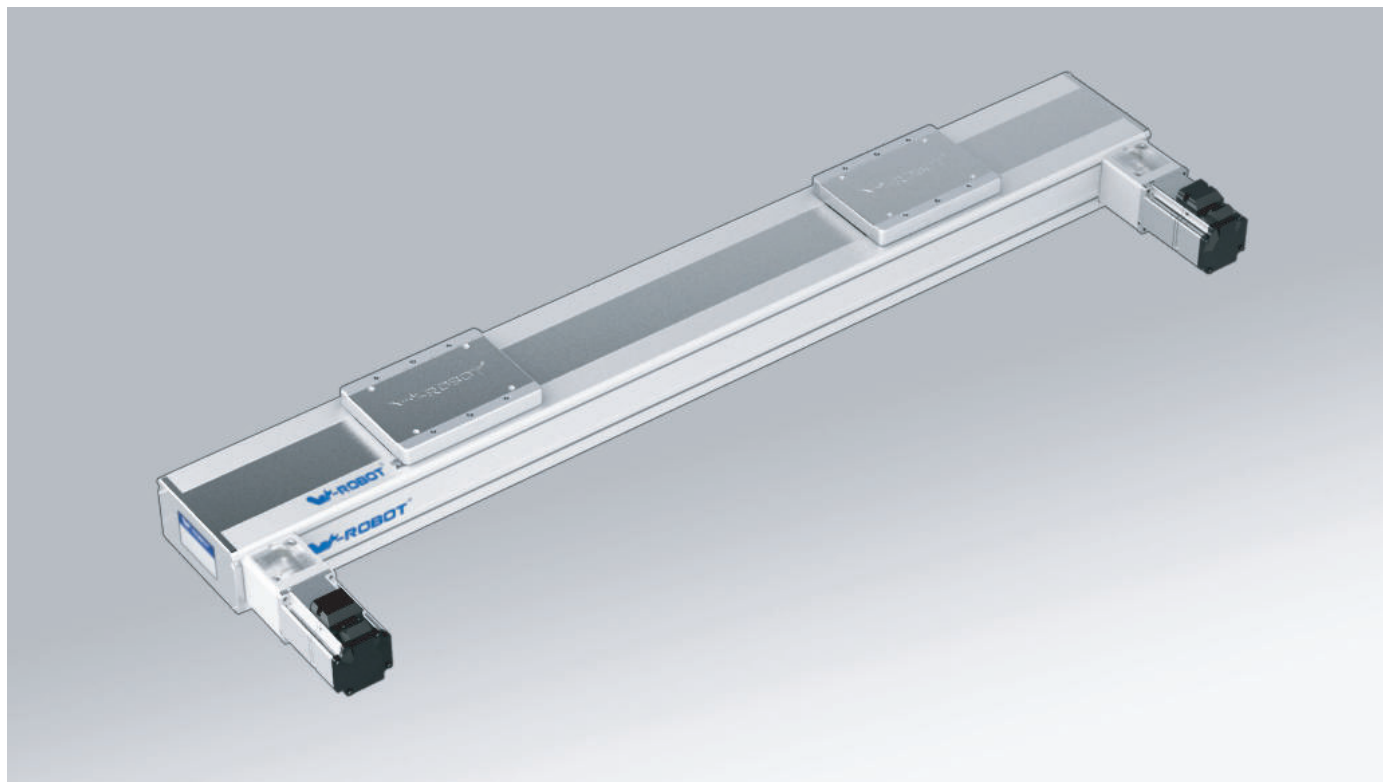
Unit (mm)



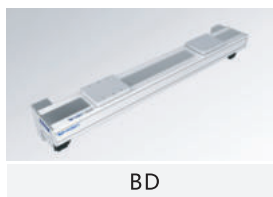
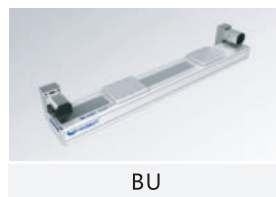
Note: Not including motor weight. *In case special stroke please contact technical services.

Working 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	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540
M	0	0	0	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
N	20	20	20	24	24	24	24	28	28	28	28	32	32	32	32	36	36	36	36	40	40	40	40	44	44	44	44	48	48
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
Weight KG	22.0	23.4	24.8	26.2	27.6	29.0	30.4	31.8	33.2	34.6	36.0	37.4	38.8	40.2	41.6	43.0	44.4	45.8	47.2	48.6	50.0	51.4	52.8	54.2	55.6	57.0	58.4	59.8	61.2

*Products with color are available stock and short lead time.



Motor direction



Guide for Model Selection

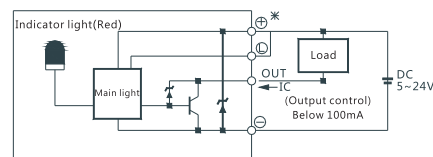
VBC14S2 — L50 — S100 — BLR — ZP40B — C6 —

Base Style		Leather belt Type		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor position		Sensor switch		Non-standard, d.c.,	
V	V series	L	Clean belt	100-3000	BLR	Right/Left Side	P	Panasonic	20	200W	External		External		No	Standard type
BC	Cleanse Belt Type	X	Rubber belt		BU	Upper Side	M	Mitsubishi	40	400W	C	Motor side	2	2pcs	BL1	Detailed information please see page 032
14	Body width140	Lead			BD	Down Side	Y	Yaskawa	75	750W	D	Opposite motor side	6	6pcs	B2	
		50	50mm				T	Delta	Brakes		E	No	No sensor		D01	
		100	100mm				* For Z: Motor is from clients		No	No brake	Sensor type				U01	
									B	With brake					UD01	
											No	NPN			H01	
											P	PNP			HU01	
															HD01	
															HUD01	
															M01	
															S01	

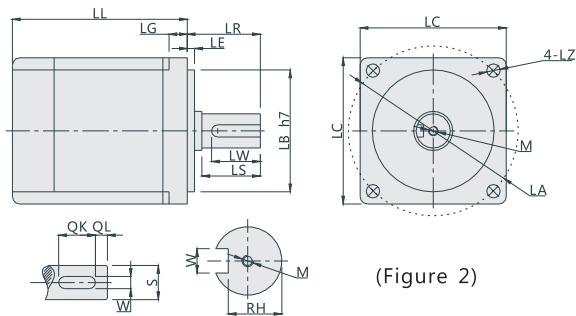
■ Specification

Motor power AC (W)	400W	
Drive Type	Timing belt driving	
Repeatability	±0.04	
Lead(mm)	50	100
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	2500	5000
Maximum Payload(kg)	Horizontal	*20
	Vertical	*10
RatedThrust(N)	150	75
Linear Guide (mm)	20x15.5-2	
Home Sensor	Outside	EE-SX672(NPN) EE-SX672P(PNP)
	Outside Guide	EE-SX674(NPN) EE-SX674P(PNP)

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

*Horizontal payload 20KG just one sliding rack required(Lead 50MM)/10KG(Lead100MM)

*Within horizontal ACC 5m/sec² (Properly increased ACC while payload is reducing)

■ Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MHMJ022G1□	V:With brake U:No brake	99	135.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MHMJ042G1□	V:With brake U:No brake	118.5	155.5	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MHMJ082G1□	V:With brake U:No brake	127.2	164.2	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

□ Stand for empty

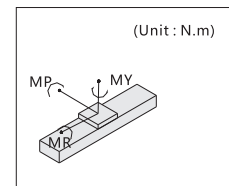
■ Max. Payload Diameters Table



Horizontal installation	A	B	C
10kg	2800	1800	1250
20kg	2200	950	750
30kg	1800	650	550

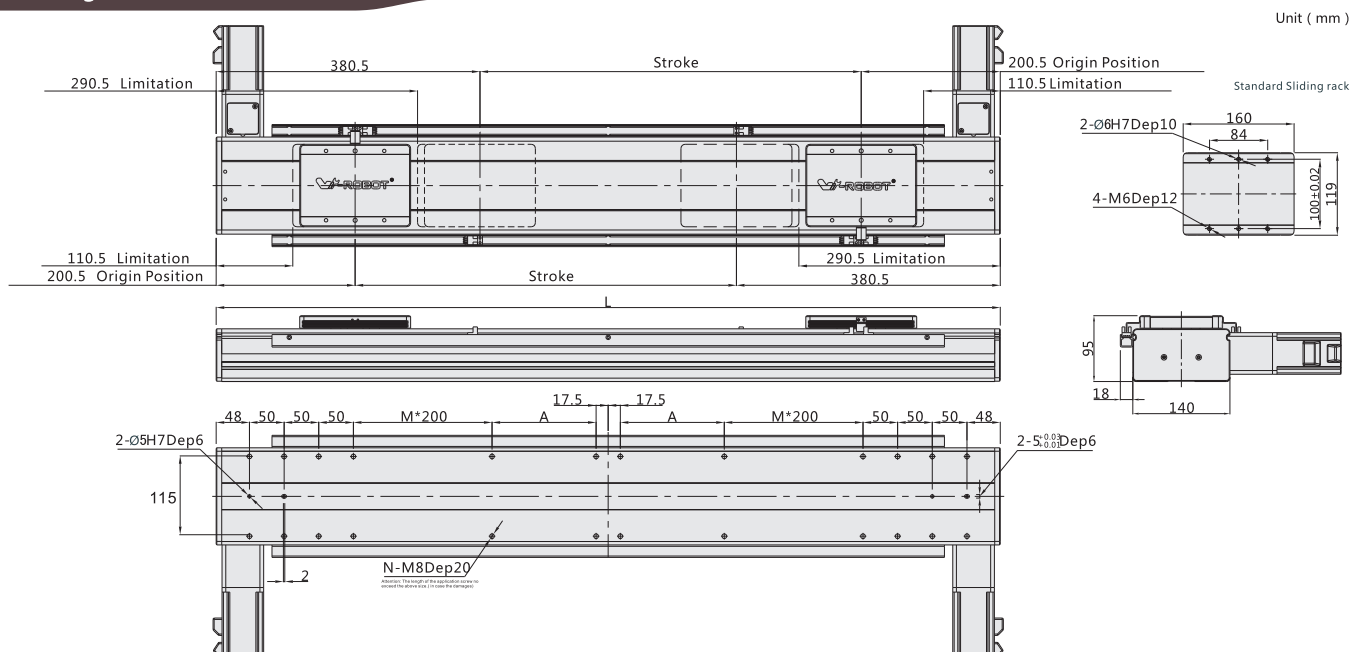
Wall installation	A	B	C
10kg	1170	1300	2200
20kg	700	630	1600
30kg	450	380	1250

■ Max. Static Torque Table



Maximum static torque	
MY	392
MP	394
MR	345

BLR: Right Side — Motor with coupling connecting

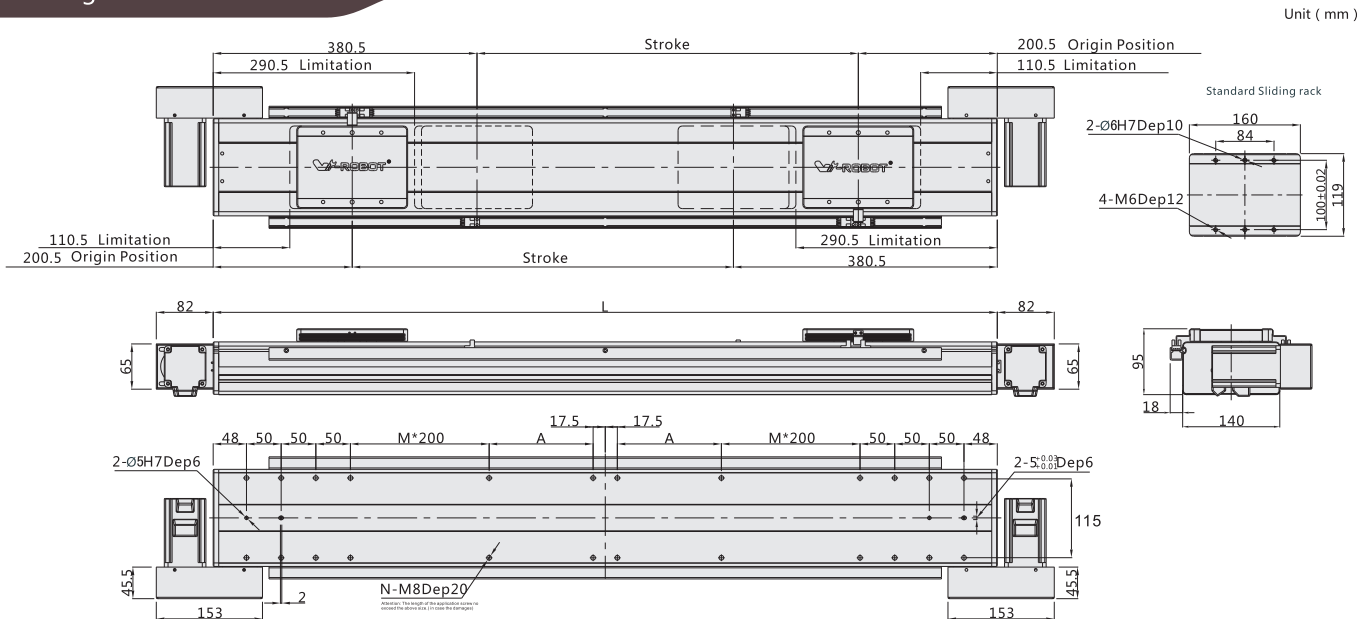


Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	28.4	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4

*In case special stroke please contact technical services.

BLR: Right Side



Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4	57.4

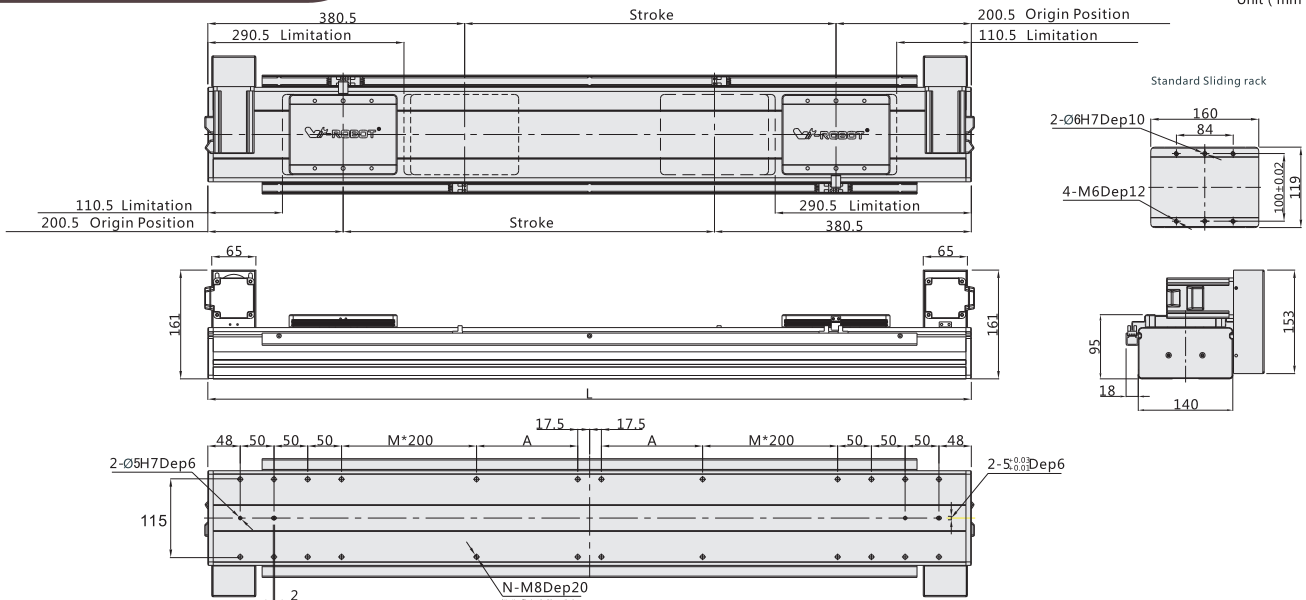
*In case special stroke please contact technical services.

VBC14S2

W-ROBOT®
Linear Drives

BU: Upper Side

Unit (mm)



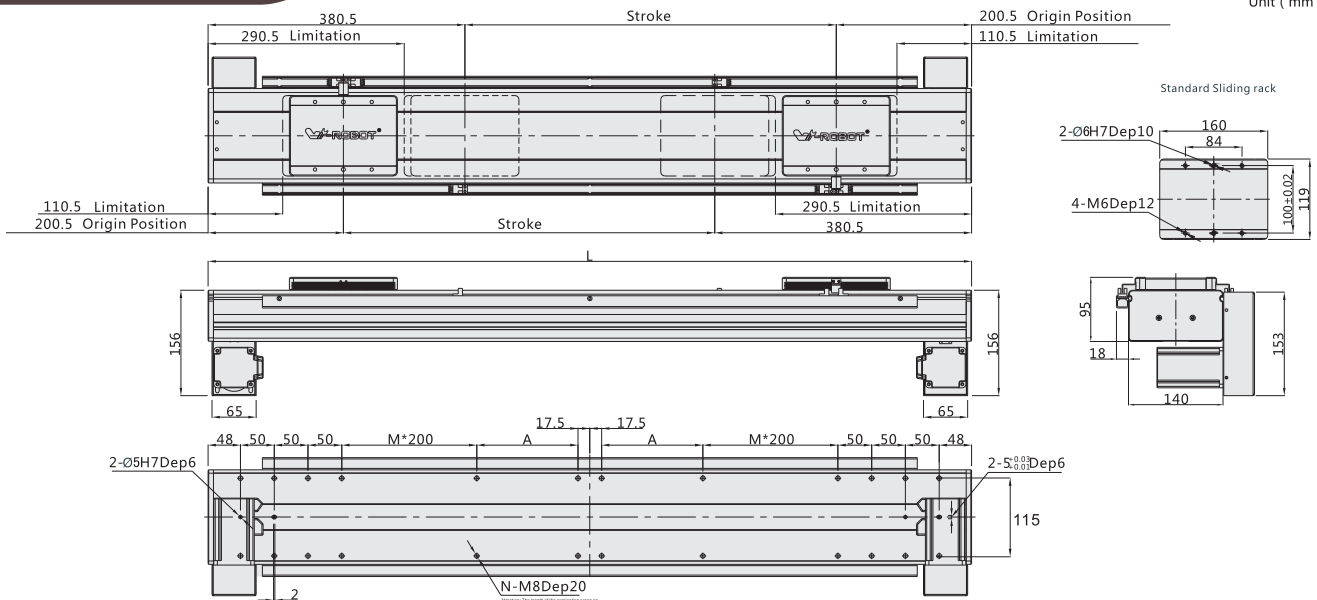
Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4	57.4

*In case special stroke please contact technical services.

BD: Down Side

Unit (mm)



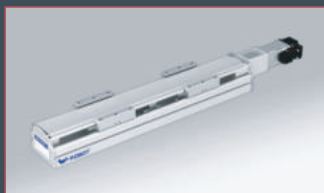
Note: Not including motor weight.

Working 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	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981	2031	2081
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4
N	20	20	20	20	24	24	24	24	24	24	24	24	28	28	28	28	28	28	28	28	32	32	32	32	32	32	32	32	36
A	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25	50	75	100	125	150	175	200	25
Weight KG	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4	57.4

*In case special stroke please contact technical services.

Gripping Type Single Axis Robot

VF8D1



Maximum Stroke	1500mm
Maximum Payload	25KG 207
Body Width	80mm

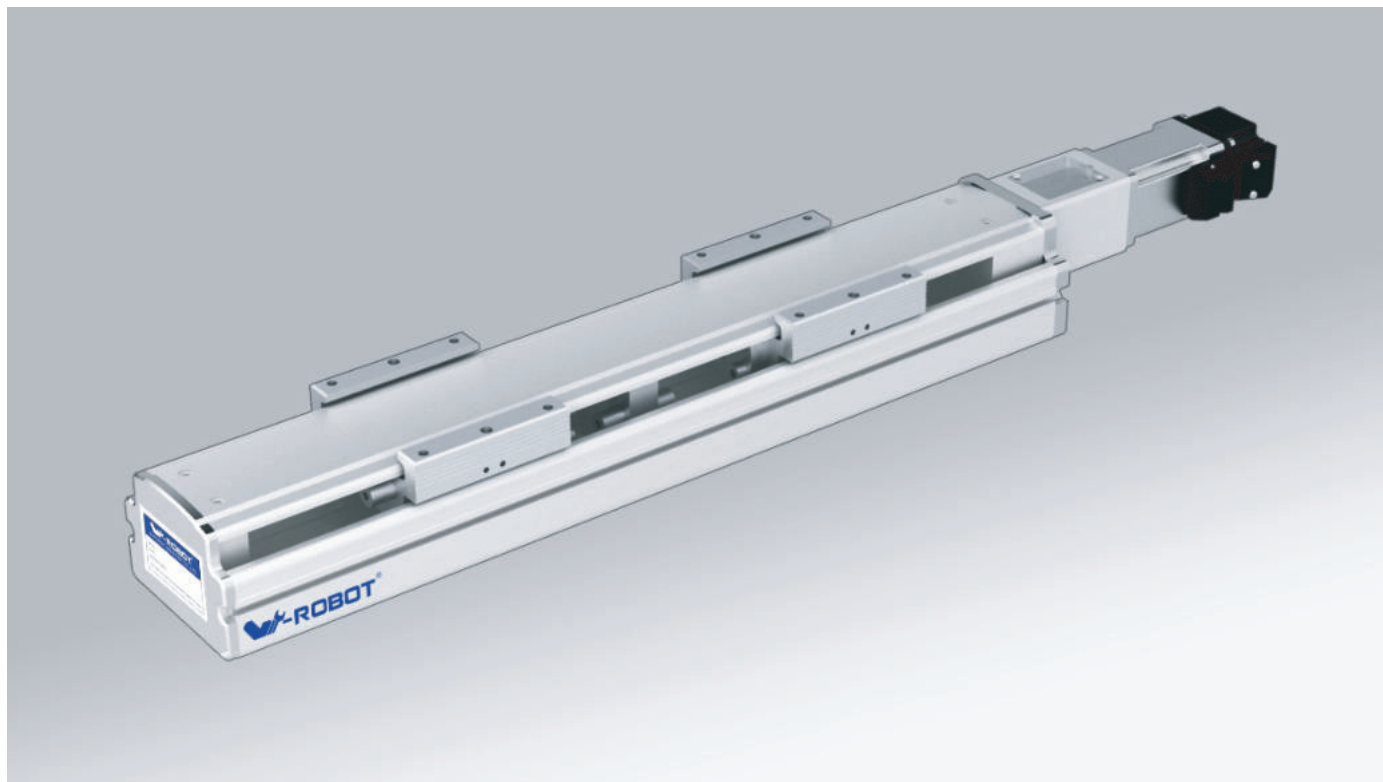
VF12D1



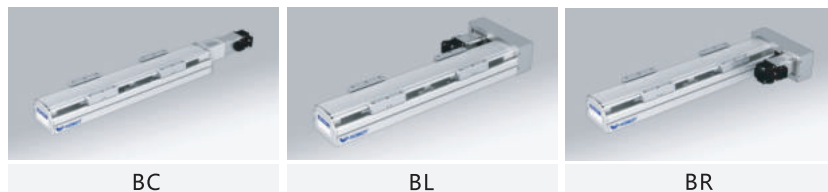
Maximum Stroke	1500mm
Maximum Payload	84KG 211
Body Width	120mm

VF8D1

Gripping Type Single Axis Robot



Motor direction



Guide for Model Selection

VF8D1 — L5 — C — S100 — BC — ZP40B

Base Style		Ball Screw Lead		Accuracy class		Stroke(mm)	Motor way		Motor Type		Motor power	
V	Vseries	L5	5mm	P	High precision	100-1500	BA	Basis	P	Panasonic	10	100W
F	Semiclosed With Frame Ball Screw Drive			C	Common precision		BC	External	M	Mitsubishi	40	400W
8	Body width80						BR	Right Side	Y	Yaskawa	Brakes	
							BL	Left Side	T	Delta	No	No brake
									W	W-Robot	B	With brake

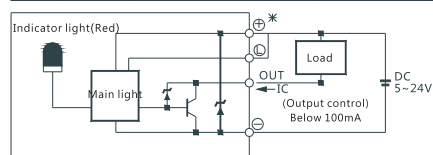
*For Z: Motor is from clients

Motor Qty	
D1	Single motor run from opposite directions

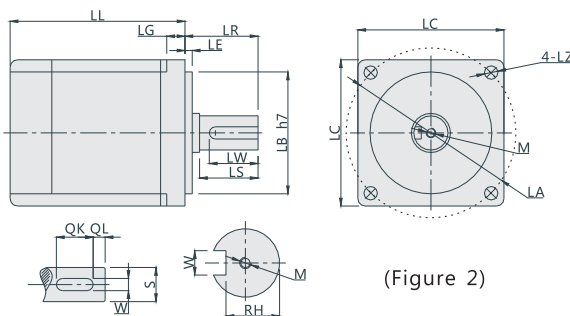
Specification

Motor power AC (W)	100W/200W/400W			
BallScrewØ	(C7)	16		
	(C5)	16		
Repeatability	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	/	/	/
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	/	/	/
Maximum Payload(kg)	Horizontal	18/20/25	/	/
	Vertical	8/9/10	/	/
RatedThrust(N)	330/683/1388	/	/	/
Linear Guide (mm)	24x8.5 -1			
Coupling (mm) (Motor side) x (Ball Screw Side)	8x10	11x10	14x10	14x10
Motor Output	100W	200W	400W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if longer travel needed, it will be lower. In case stroke over 650 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

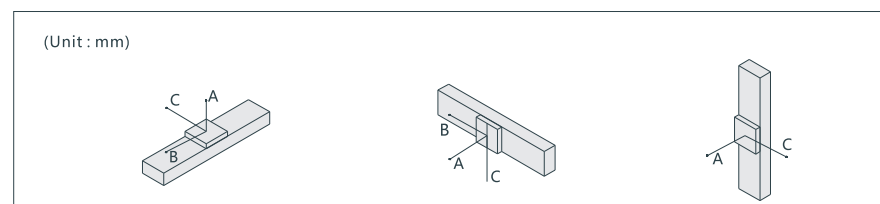
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-

□ Stand for empty

Max. Payload Diameters Table

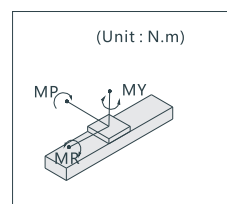


Horizontal installation		A	B	C
Lead 5	10kg	374	33	109
	18kg	159	0	25
	-	-	-	-
Lead 10	3kg	642	125	335
	8kg	273	41	121
	14kg	216	24	77

Wall installation		A	B	C
Lead 5	5kg	204	45	530
	10kg	72	0	245
	18kg	0	0	0
Lead 10	3kg	293	96	510
	8kg	89	14	210
	14kg	43	0	130

Vertical installation		A	C
Lead 5	2kg	171	172
	4kg	73	74
	8kg	23	26
Lead 10	1kg	335	352
	2kg	165	165
	5kg	70	72

Max. Static Torque Table



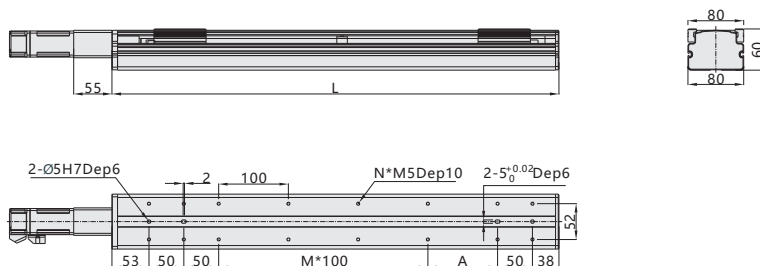
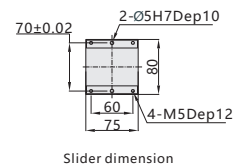
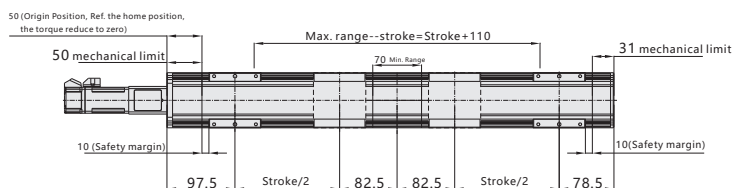
Maximum static torque	
MY	70
MP	80
MR	75

VF8D1 Gripping Type Single Axis Robot



BC: External

Unit (mm)



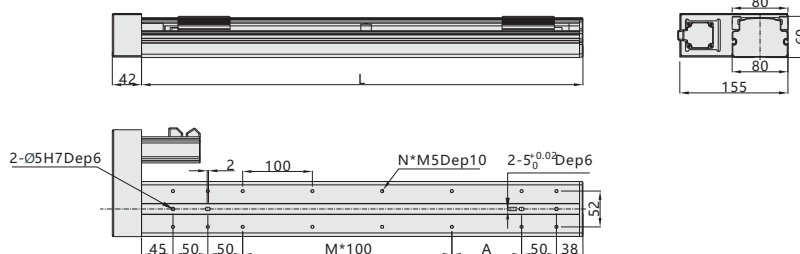
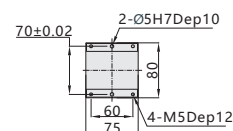
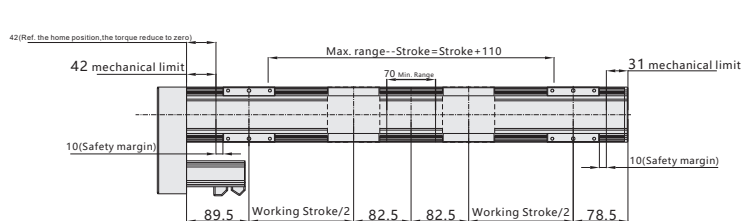
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341
M	1	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	10
N	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4.5	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.3	11.7

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



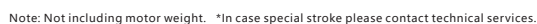
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333
M	1	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	10
N	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Weight KG	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.8

*Products with color are available stock and short lead time.

*Products with color are available stock and short lead time.

(mm)

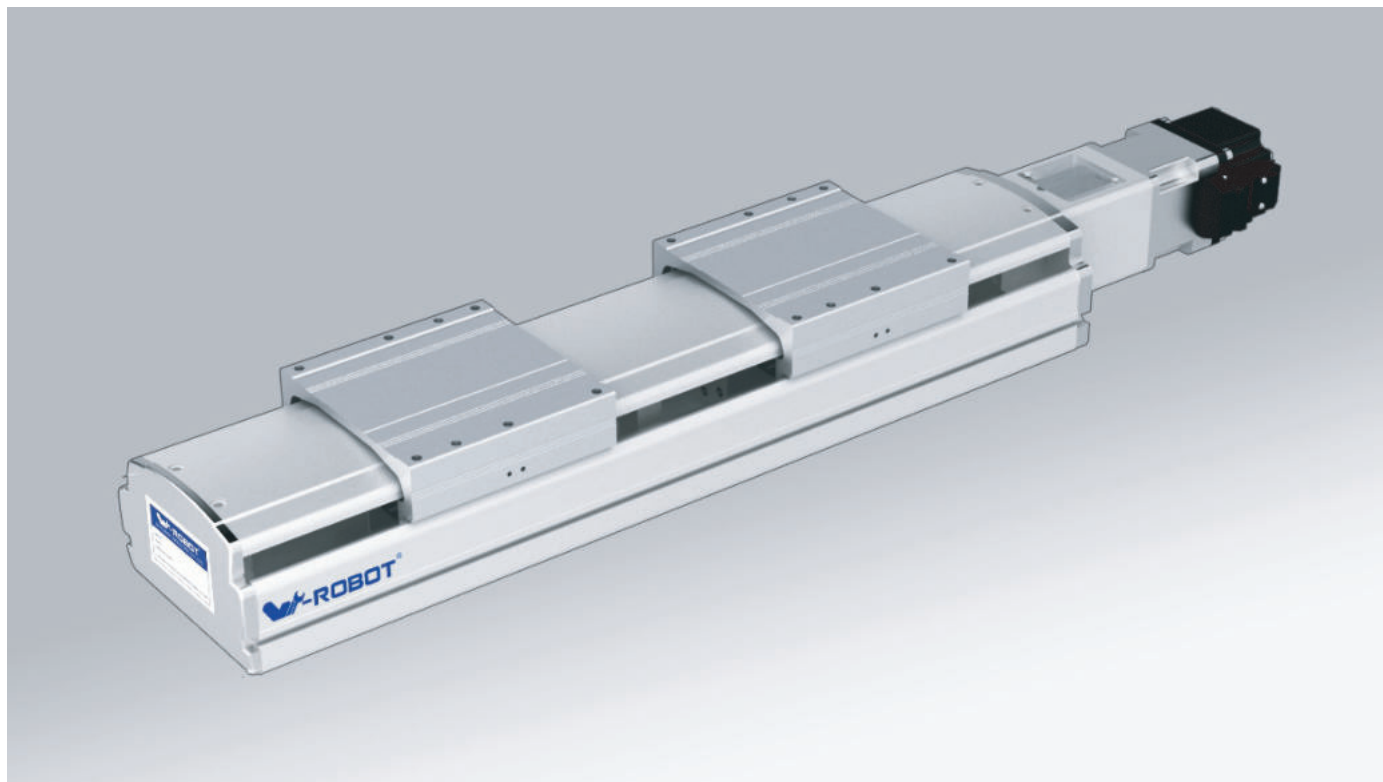


*Products with color are available stock and short lead time.

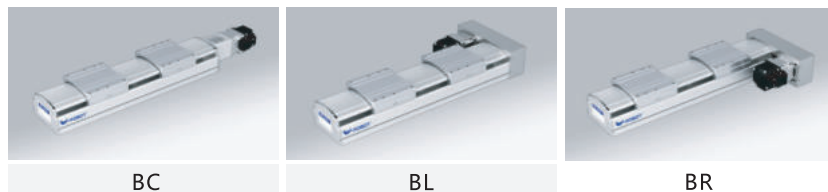
*Products with color are available stock and short lead time.

VF12D1

Gripping Type Single Axis Robot



Motor direction



BC

BL

BR

Guide for Model Selection

VF12 D1 — L5 — C — S100 — BC — ZP40

Base Style	
V	Vseries
F	Semiclosed with Frame Ball Screw Drive
12	Body width120

Ball Screw Lead	
L5	5mm

Accuracy class	
P	High precision
C	Common precision

Stroke(mm)	
100-1500	

Motor way	
BA	Basis
BC	External
BR	Right Side
BL	Left Side

Motor Type		Motor power	
P	Panasonic	10	100W
M	Mitsubishi	40	400W
Y	Yaskawa	Brakes	
T	Delta	No	No brake
W	W-Robot	B	With brake

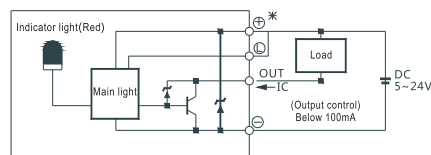
*For Z: Motor is from clients

Motor Qty	
D1	Single motor run from opposite directions

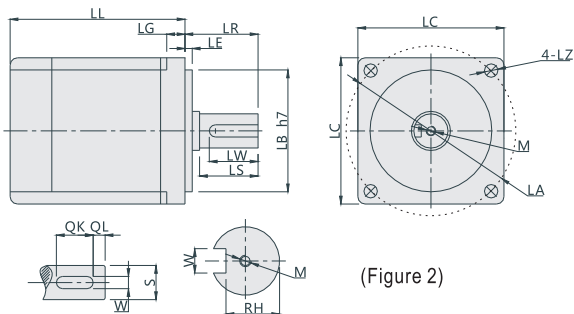
Specification

Motor power AC (W)	200W/400W			
BallScrewØ (mm)	(C7)	16		
	(C5)	16		
Repeatability(mm)	(C7)	±0.01		
	(C5)	±0.006		
BallScrew Lead(mm)	5	/	/	/
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250	/	/	/
Maximum Payload(kg)	Horizontal	70/84	/	/
	Vertical	17/20	/	/
RatedThrust(N)	683/1388	/	/	/
Linear Guide (mm)	15x12.5 -2			
Coupling (mm) (Motor side) x (Ball Screw Side)	11x10	14x10	14x10	
Motor Output	200W		400W	
Home Sensor	Outside	EE-SX672(NPN)	EE-SX672P(PNP)	
	Outside Guide	EE-SX674(NPN)	EE-SX674P(PNP)	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)



(Figure 2)

* Above repeatability is within stroke 300mm, if longer travel needed, it will be lower. In case stroke over 600 will lead to swing of ball screw, please slow down the speed 15%. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.)

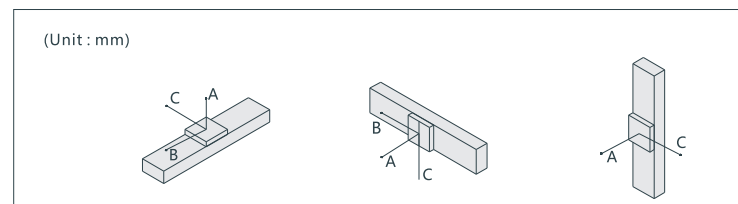
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL	
200W	Panasonic	MSMJ022G1□	V:With brake U:No brake	79.5	115.5	70	3	4.5	60	6.5	20	8.5	4h9	30	11h6	50h7	M4x8L	-	-
	Delta	ECMA-C20602□S	S:With brake R:No brake	105.5	141.5	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
	Mitsubishi	HC-KFS23□K	B:With brake □:No brake	99.5	131.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
750W	Panasonic	MSMJ082G1□	V:With brake U:No brake	122	149	90	3	6	80	8	25	15.5	6h9	35	19h6	70h7	M5x10L	-	-
	Delta	ECMA-C20807□S	S:With brake R:No brake	138.3	178	90	3	6.6	80	8	25	15.5	6	35	19h6	70h7	M6x20L	-	-
		ECMA-C20907□S	S:With brake R:No brake	130.2	161.3	100	3	6.6	86	8	20	13	5	35	16h6	80h7	M5x15L	-	-
	Mitsubishi	HC-KFS73□K	B:With brake □:No brake	142	177.5	90	3	6.6	82	8	-	-	-	40	19h6	70h7	-	-	-

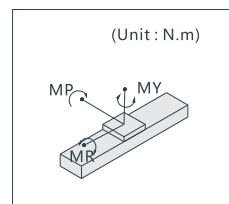
□ Stand for empty

Max. Payload Diameters Table



Horizontal installation					Wall installation					Vertical installation				
		A	B	C			A	B	C			A	C	
Lead 5	40kg	2448	316	322	Lead 5	40kg	204	112	1394	Lead 5	5kg	762	614	
	55kg	2197	247	257		55kg	130	57	1115		10kg	607	489	
	70kg	2005	207	219		70kg	85	24	895		12kg	498	493	
Lead 10	25kg	1958	370	490	Lead 10	25kg	414	333	1277	Lead 10	4kg	1365	1101	
	35kg	1660	370	330		35kg	235	157	929		6kg	901	727	
	47kg	1725	247	243		47kg	129	57	751		8kg	674	543	
Lead 16	10kg	1800	1400	311	Lead 16	10kg	461	372	1410	Lead 16	1kg	1087	1217	
	20kg	1100	1100	139		20kg	264	178	1027		2kg	997	805	
	30kg	1047	445	324		30kg	148	69	832		6kg	747	603	

Max. Static Torque Table



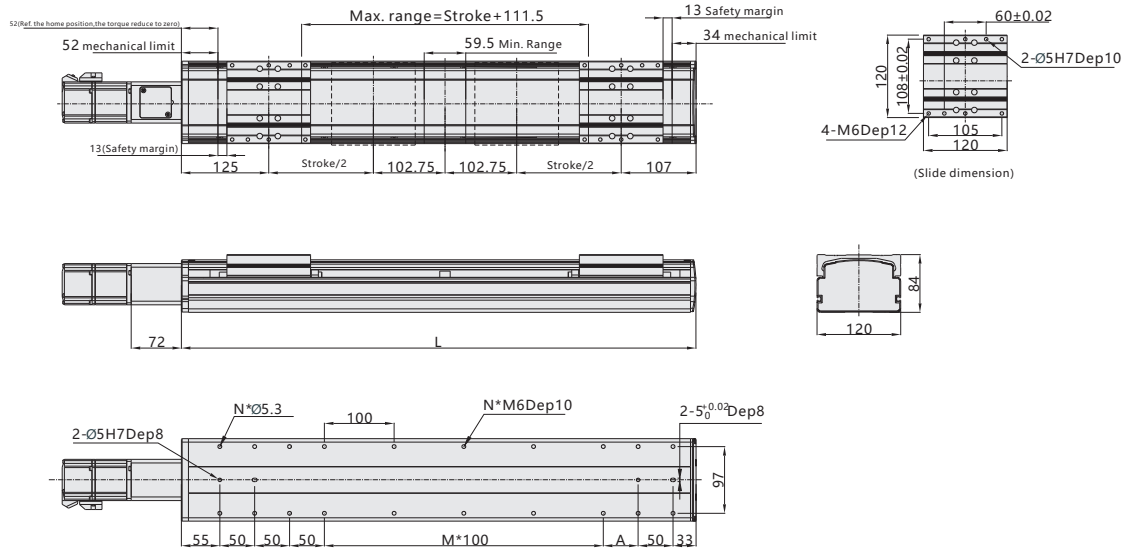
Maximum static torque	
MY	174
MP	175
MR	153

VF12D1 Gripping Type Single Axis Robot

W-ROBOT®
Linear Drives

BC: External

Unit (mm)



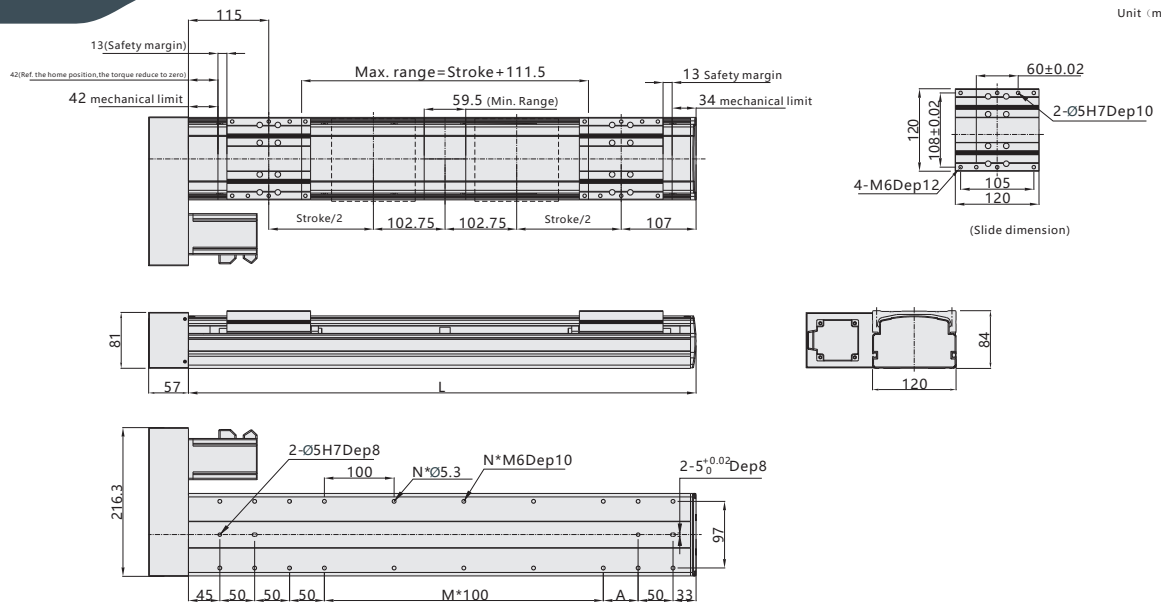
Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6

*Products with color are available stock and short lead time.

BL: Left Side

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

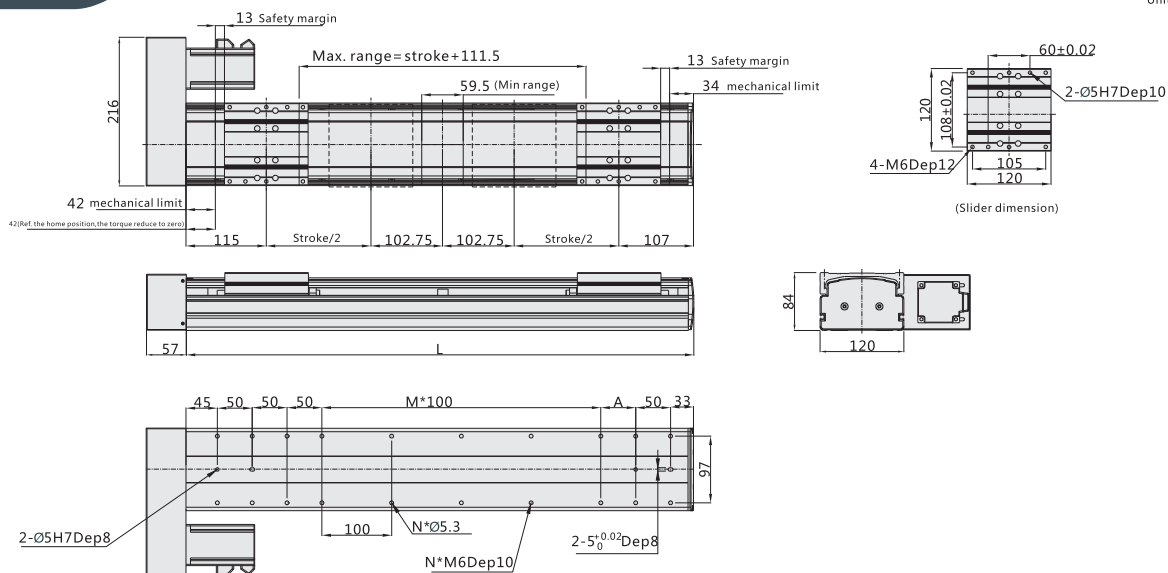
Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0

*Products with color are available stock and short lead time.

*Products with color are available stock and short lead time.

BR: Right Side

Unit (mm)



Note: Not including motor weight. *In case special stroke please contact technical services.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight KG	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0

*Products with color are available stock and short lead time.

*Products with color are available stock and short lead time.

Electric Cylinder

Standard Type



VZ5

Maximum Stroke 300mm
Maximum Payload 30KG216
Body Width 52mm

Standard Type



VZ5D

Maximum Stroke 300mm
Maximum Payload 30KG 219
Body Width 52mm

Standard Type



VZ6

Maximum Stroke 500mm
Maximum Payload 100KG222
Body Width 65mm

Standard Type



VZ6D

Maximum Stroke 500mm
Maximum Payload 90KG 225
Body Width 65mm



BD

VZ5 – L10 – S100 – BC – ZP10B–MS3 –

Six Axes Robot	Scara Robot	Cartesian 4 Axes Robot	Multi-axis Actuator	Linear Motor	Miniature	Electric Gripper	Rotation Axis	Electric cylinder
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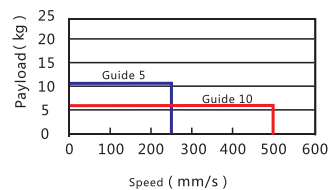
Specification

Motor power AC (W)		100W/57 Closed loop stepper	
BallScrewØ		(C7)	12
Repeatability		(C7)	±0.01
BallScrew Lead(mm)		5	10
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/min)		250/50	500/100
Maximum Payload(kg)	Horizontal	30/30	15/30
	Vertical	11/17	6/14
Recommended acceleration		1.5/0.5	3/1
RatedThrust(N)		330/_	170/_
No rotating repeatability of the Electric cylinder		±1°	
Coupling (mm) (Motor side) x (Ball Screw Side)		8x8 (Length40mm)	
		100W /57 Closed loop stepper	
Motor Output		50~300 (50 interval)	
Home Sensor	Outside	DS1-HN-020	

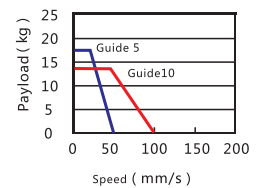
1. Above repeatability is within strok 300mm,if logner travel needed,it will be lower.
2. Please cooperate with external guide rail or guide rod and others guide device asured the Straight movements.
3. Keep the electric cylinder sharftrt running without the radial loading , cooperated with external guide rail or guide rod and others guide device.
4. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.

Speed - Payload

Vertical - 100W Servo motor

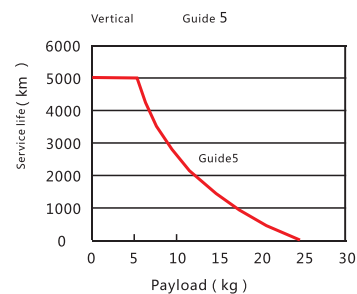


Vertical - 57 Closed loop stepper



Service life

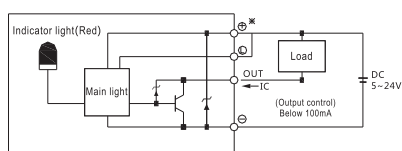
The lifetime of the below specifications are 5000km.



Servo Motor Matches List

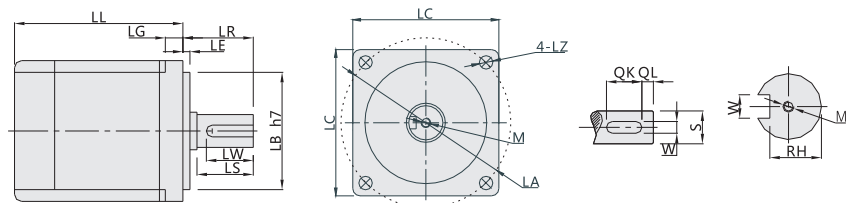
Servo motor size																				
Power(W)	Brand	Type	LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL		
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-	
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-	
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-	
57stepper	W-ROBOT	W57S□	B:With brake □:No brake	81	97	66.67	1.6	4.5	56.4	4.8	15	7.2	-	21	8h6	38.1h7	-	-	-	

Wiring drawing of inductor(original point and endpoint)



(Figure 1)

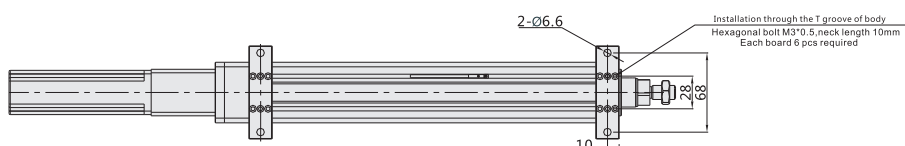
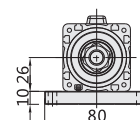
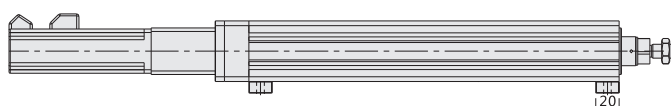
Motor size



(Figure 2)

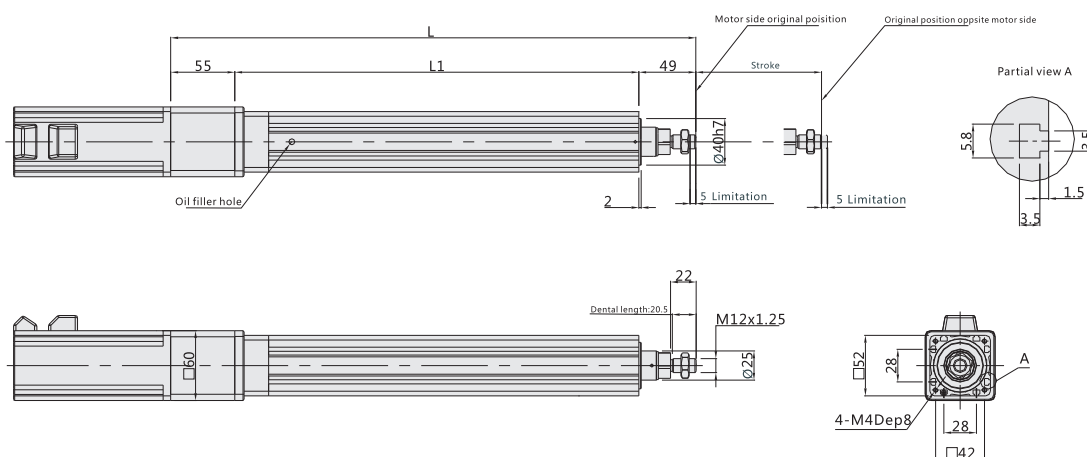
Optional accessories<Pedestal>

*optional parts: Two unit pedestals



BC: External

Unit (mm)

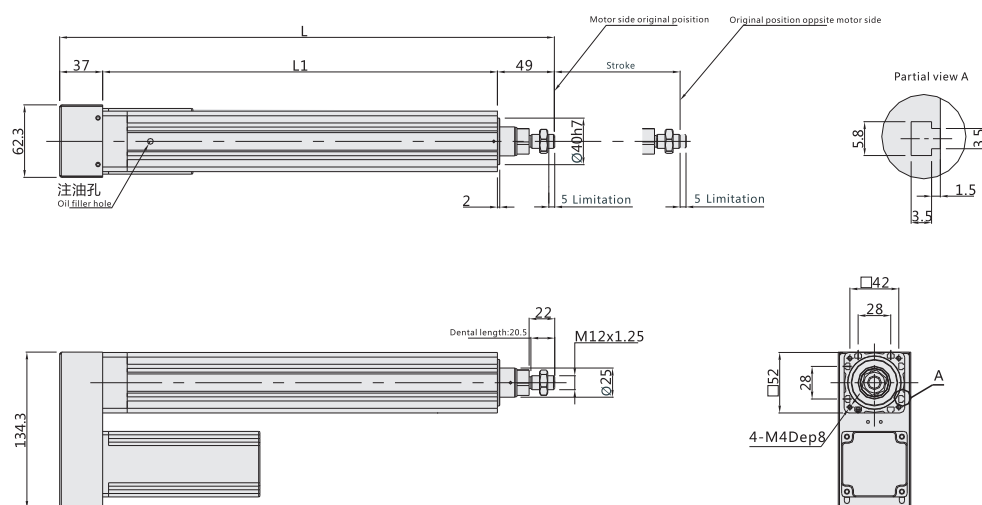


Working Stroke	50	100	150	200	250	300
L1	197	247	297	347	397	447
L	301	351	401	451	501	551
Weight KG	2.1	2.4	2.7	3.0	3.3	3.6

Note: Not including motor weight. *In case special stroke please contact technical services.

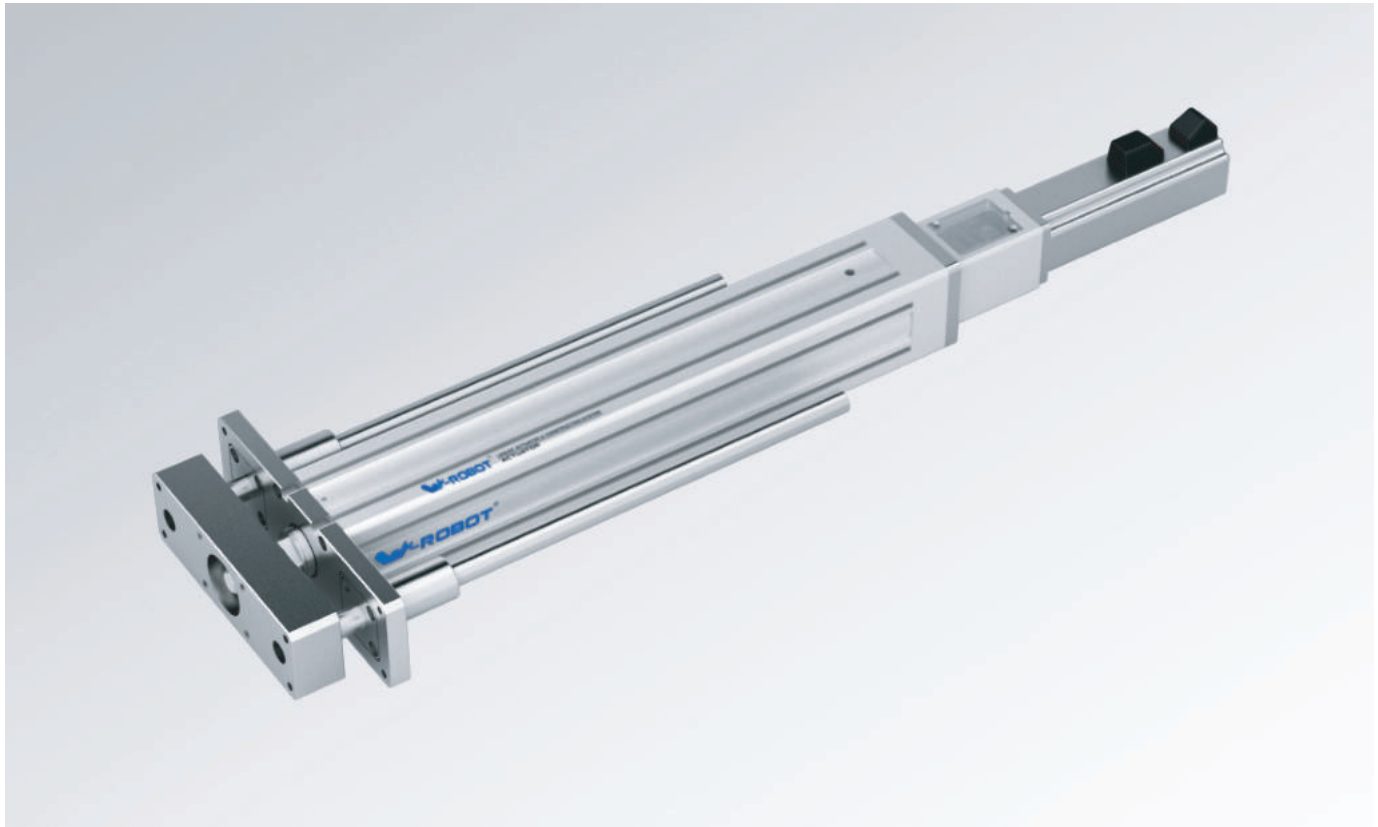
BD: Down Side

Unit (mm)



Working Stroke	50	100	150	200	250	300
L1	189	239	289	339	389	439
L	275	325	375	425	475	525
Weight KG	2.5	2.8	3.1	3.4	3.7	4

Note: Not including motor weight. *In case special stroke please contact technical services.



■ Motor direction



BC



BD

■ Guide for Model Selection

VZ5D — L10 — S100 — BC — ZP10B — MS3 —

Base Style		Ball Screw Lead		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor External		Sensor switch		Sensor type		Parts/Non-standard, d.c.,					
VZ	VZ series	L5	5mm	50-300	BC	External	P	Panasonic	10	100W	MS	Magnetic sensor	1	1pcs	No	NPN	No	Standard type				
5	Body width52	L10	10mm		BD	Down Side	M	Mitsubishi	57	57-Ø8			2	2pcs	P	PNP	A02	With 2 pcs pedestals				
D	With ball screw			Y			Yaskawa	Brakes		3			3pcs	D01			Installation hole customization					
							T	Delta	No	No brake	E		No sensor					M01	Motor installation hole customization			
							W	W-Robot	B	With brake								S01	Stroke customization			
*For Z: Motor is from clients																						

*For Z: Motor is from clients

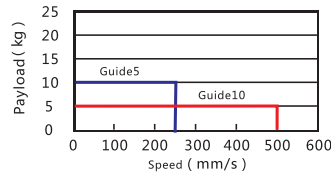
Specification

Motor power AC (W)	100W/57 Closed loop stepper	
BallScrewØ	(C7)	12
Repeatability	(C7)	±0.01
BallScrew Lead(mm)	5	10
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)	250/50	500/100
Maximum Payload(kg)	Horizontal	30/30
	Vertical	10/16
Recommended acceleration	1.5/0.5	3/1
RatedThrust(N)	320/_	160/_
No rotating repeatability of the Electric cylinder	±1°	
Coupling (mm) (Motor side) x (Ball Screw Side)	8x8 (Length40mm) 100W /57 Closed loop stepper	
Motor Output	50~300 (50 interval)	
Home Sensor	Outside	DS1-HN-020

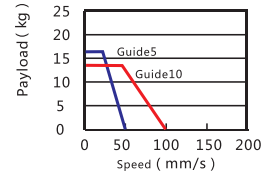
1. Above repeatability is within strok 300mm,if logner travel needed,it willbe lower.
2. Please cooperate with external guide rail or guide rod and others guide device asured the Straight movements.
3. Keep the electric cylinder sharft running without the radial loading , cooperated with external guide rail or guide rod and others guide device.
4. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.

Speed - Payload

Vertical - 100W Servo motor

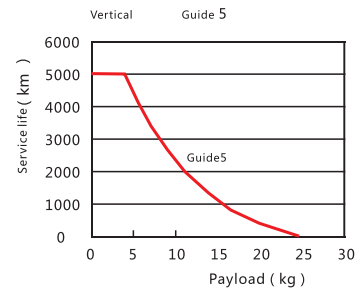


Vertical - 57 Closed-loop step by step



Service life

The lifetime of the below specifications are 5000km.

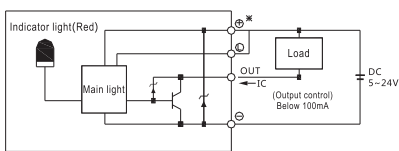


Servo Motor Matches List

(Table 1)

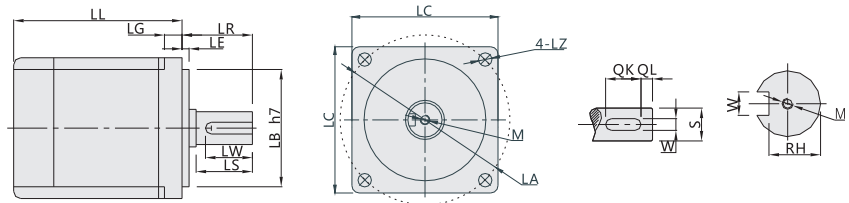
Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
100W	Panasonic	MSMD012G1□	V:With brake U:No brake	92	122	45	3	3.4	38	6	14	6.2	3h9	25	8h6	30h7	M3x6L	-	-
	Delta	ECMA-C20401□S	S:With brake R:No brake	100.6	136.6	46	2.5	4.5	40	5	16	6.2	3	25	8h6	30h7	M3x8L	-	-
	Mitsubishi	HC-KFS12□K	B:With brake □:No brake	86.5	124.5	46	2.5	4.5	42	5	-	-	-	25	8h6	30h7	-	-	-
57stepper	W-ROBOT	W57S□	B:With brake □:No brake	81	97	66.67	1.6	4.5	56.4	4.8	15	7.2	-	21	8h6	38.1h7	-	-	-

Wiring drawing of inductor(original point and endpoint)



(Figure 1)

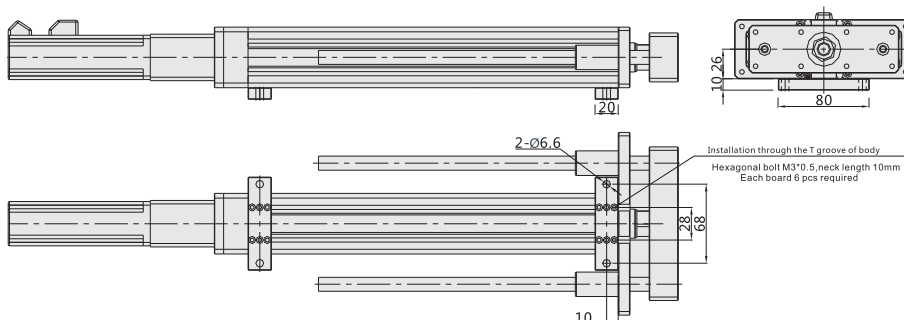
Motor size



(Figure 2)

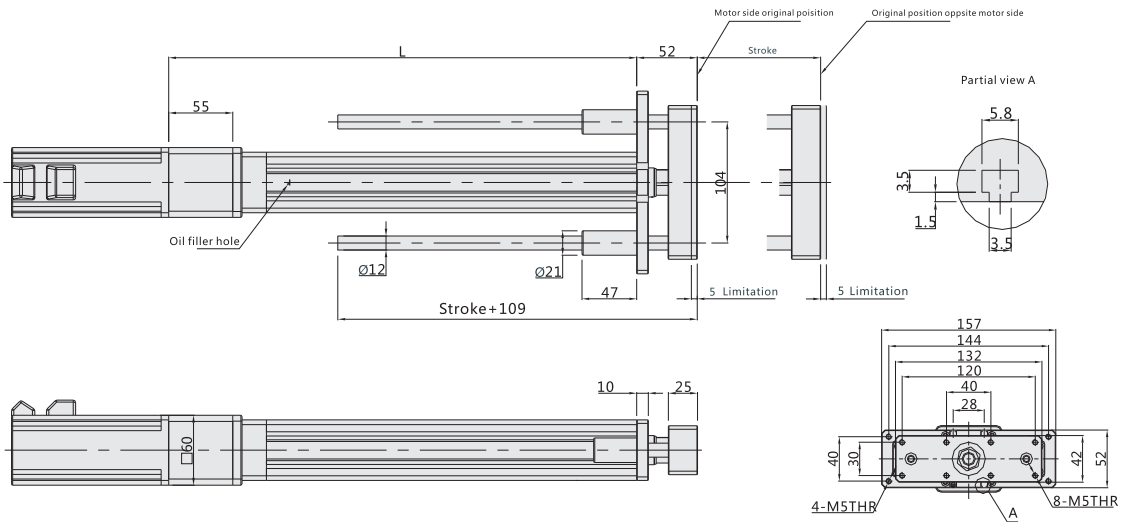
Optional accessories<Pedestal>

*optional parts: Two unit pedestals



BC: External

Unit (mm)

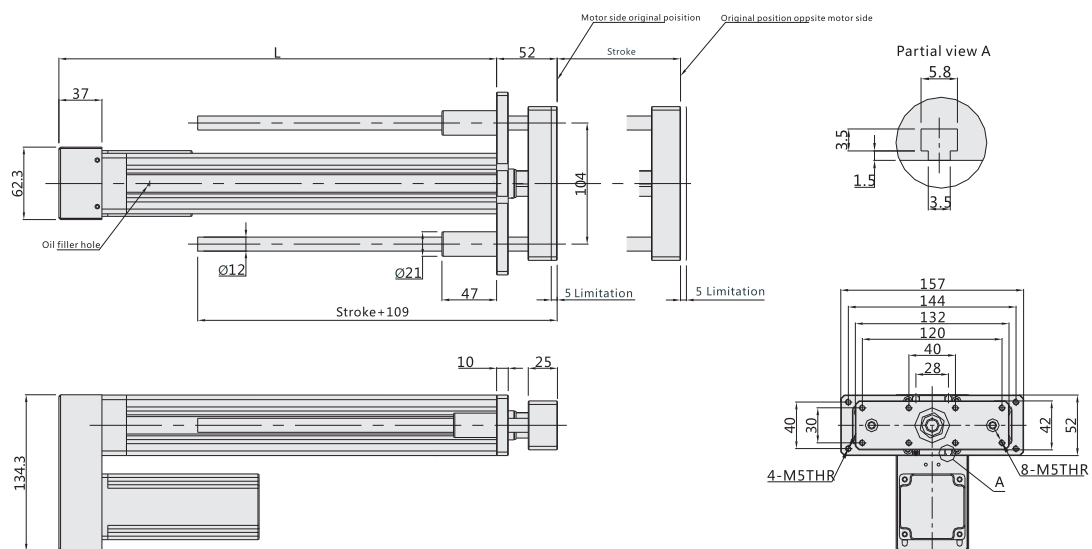


Working Stroke	50	100	150	200	250	300
L	252	302	352	402	452	502
Weight KG	3.0	3.4	3.8	4.2	4.6	5.0

Note: Not including motor weight. *In case special stroke please contact technical services.

BD: Down Side

Unit (mm)



Working Stroke	50	100	150	200	250	300
L	226	276	326	376	426	476
Weight KG	3.3	3.7	4.1	4.5	4.9	5.3

Note: Not including motor weight. *In case special stroke please contact technical services.



BC

BD

VZ6 – L16 – S100 – BC – ZP40B–MS3 –

221

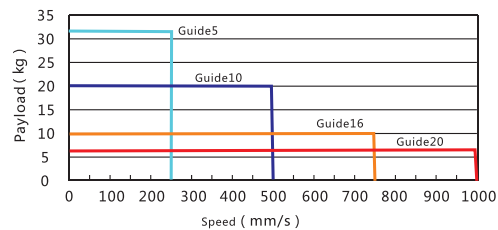
■ Specification

Motor power AC (W)		400W/57 Closed loop stepper			
BallScrewØ		(C7)		16	
Repeatability		(C7)		±0.01	
BallScrew Lead(mm)		5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)		250/50	500/100	800/160	1000/200
Maximum Payload(kg)	Horizontal	100/70	80/48	43/30	35/20
	Vertical	32/25	20/15	10/8	8/6
Recommended acceleration		1.5/0.5	3/1	3/1	3/1
RatedThrust(N)		1380/_	690/_	433/_	345/_
No rotating repeatability of the Electric cylinder			±1°		
Coupling (mm) (Motor side) x (Ball Screw Side)		14x10 (Length40mm)		8x10 (Length29mm)	
		400W		57 Closed loop stepper	
Motor Output		50~500 (50 interval)			
Home Sensor	Outside	DS1-EN-020			

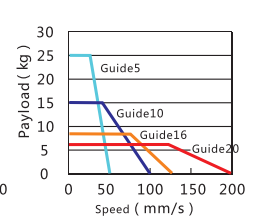
1. Above repeatability is within strok 300mm,if logner travel needed,it will be lower.
2. Please cooperate with external guide rail or guide rod and others guide device assured the Straight movements.
3. Keep the electric cylinder shaft running without the radial loading , cooperated with external guide rail or guide rod and others guide device.
4. Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.

■ Speed - Payload

Vertical - 400W Servo motor

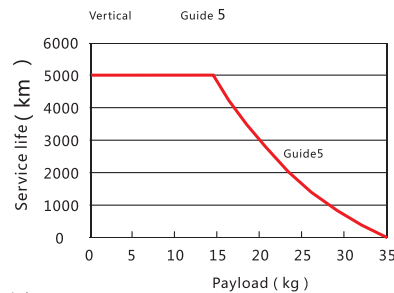


Vertical - 57 Closed loop stepper



■ Service life

The lifetime of the below specifications are 5000km.



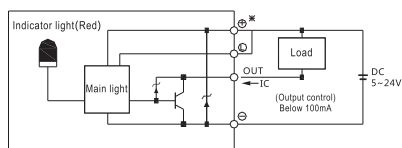
■ Servo Motor Matches List

(Table 1)

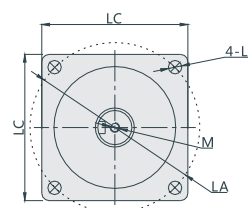
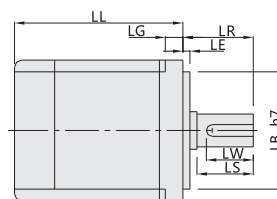
Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
		Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-
57stepper	W-ROBOT	W57S□	B:With brake □:No brake	81	97	66.67	1.6	4.5	56.4	4.8	15	7.2	3h9	21	8h6	38.1h7	-	-	-

□ Stand for empty

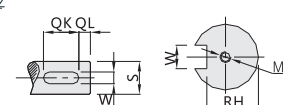
Wiring drawing of inductor(original point and endpoint)



(Figure 1)

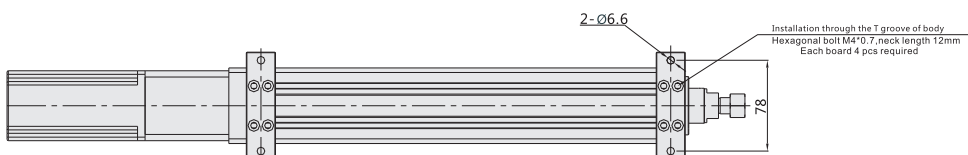
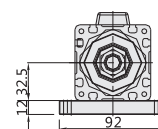
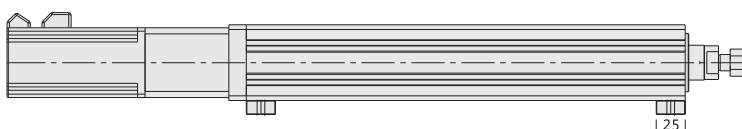


(Figure 2)



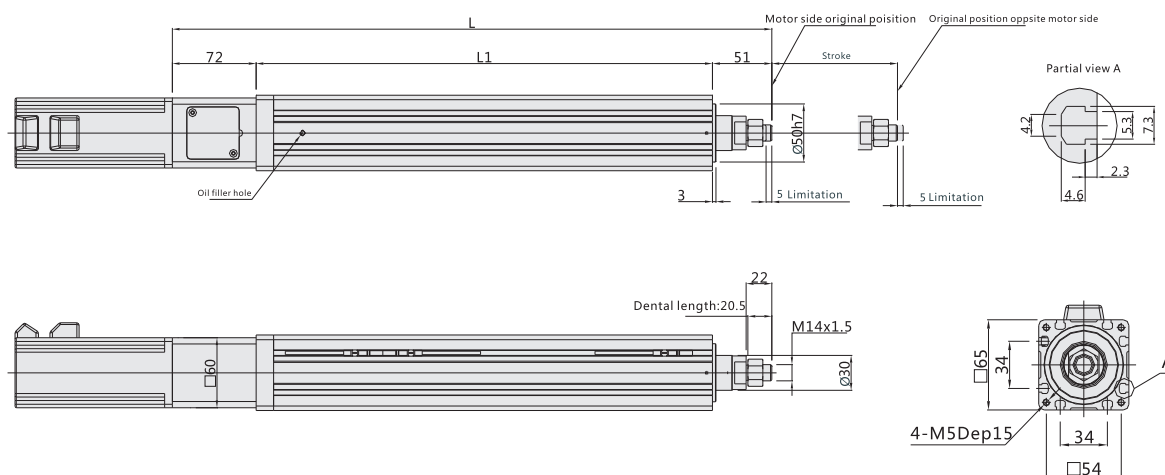
Optional accessories<Pedestal>

*optional parts: Two unit pedestals



BC: External

Unit (mm)

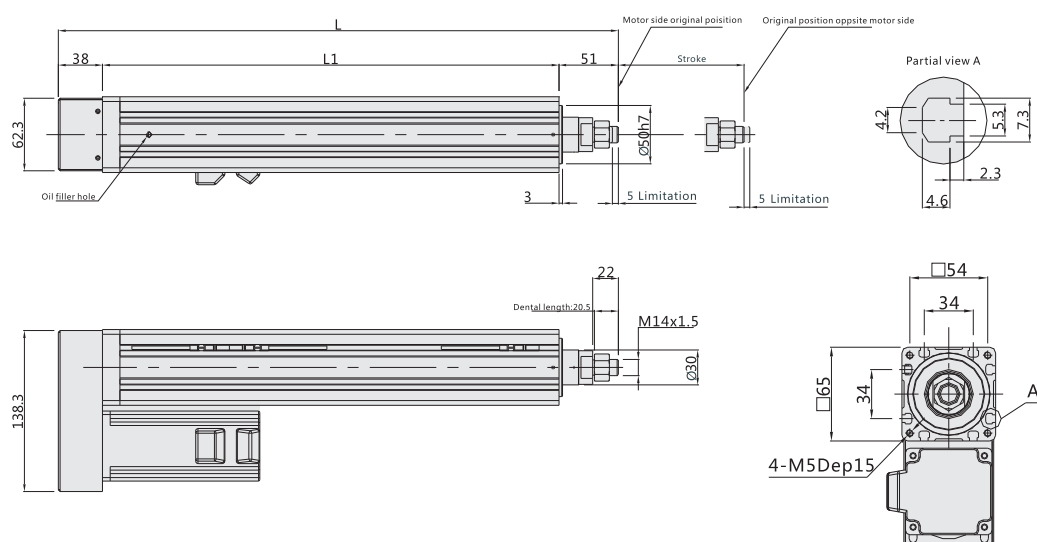


Working Stroke	50	100	150	200	250	300	350	400	450	500
L1	192	242	292	342	392	442	492	542	592	642
L	315	365	415	465	515	565	615	665	715	765
Weight KG	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.4	5.9	6.4

Note: Not including motor weight. *In case special stroke please contact technical services.

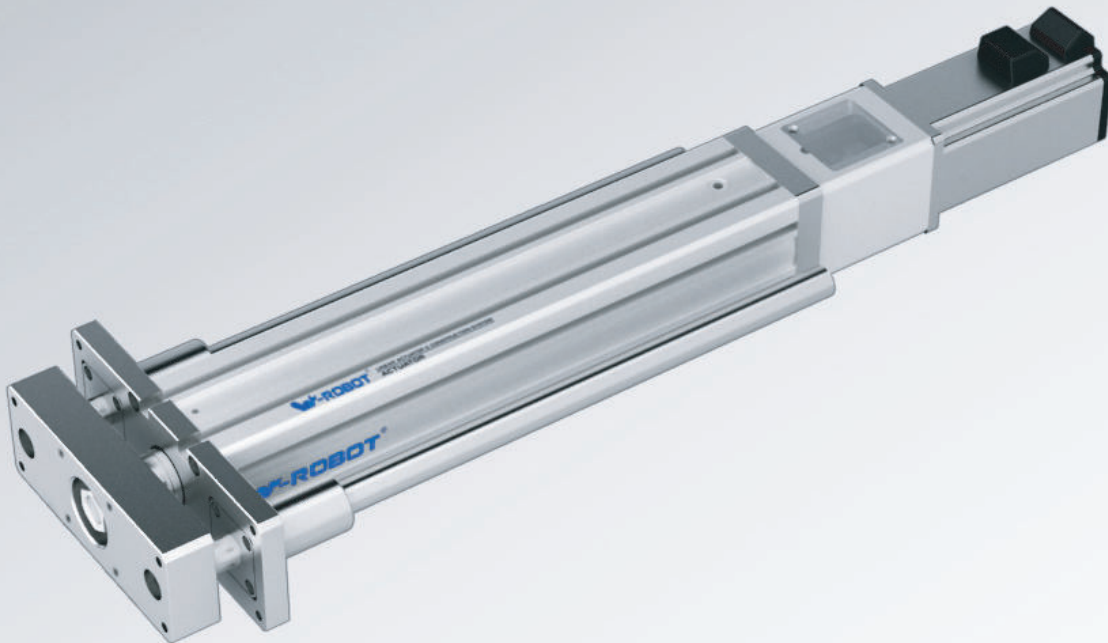
BD: Down Side

Unit (mm)



Working Stroke	50	100	150	200	250	300	350	400	450	500
L1	192	242	292	342	392	442	492	542	592	642
L	281	331	381	431	481	531	581	631	681	731
Weight KG	2.2	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7

Note: Not including motor weight. *In case special stroke please contact technical services.



■ Motor direction



BC



BD

■ Guide for Model Selection

VZ6D — L16 — S100 — BC — ZP40B — MS3

Base Style		Ball Screw Lead		Stroke(mm)	Motor way		Motor Type		Motor power		Original Sensor External		Sensor switch		Sensor type		Parts/Non-standard, d.c.,	
VZ	VZ series	L5	5mm	50-500	BC	External	P	Panasonic	10	100W	MS	Magnetic sensor	1	1pcs	No	NPN	No	Standard type
6	Body width65	L10	10mm		BD	Down Side	M	Mitsubishi	57	57-Ø8			2	2pcs	P	PNP	A02	With 2 pcs pedestals
D	With ball screw	L16	16mm				Y	Yaskawa	Brakes				3	3pcs			D01	Installation hole customization
		L20	20mm				T	Delta	No	No brake	E		No sensor				M01	Motor installation hole customization
							W	W-Robot	B	With brake							S01	Stroke customization
*For Z: Motor is from clients																		

*For Z: Motor is from clients

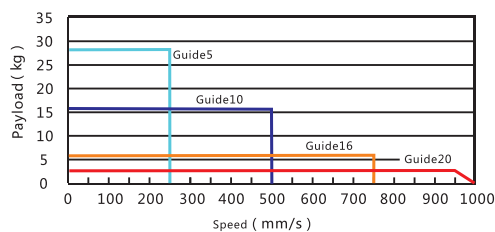
Specification

AC (W) Motor power AC (W)		400W/57 Closed loop stepper			
BallScrewØ		(C7)		16	
Repeatability		(C7)		±0.01	
BallScrew Lead(mm)		5	10	16	20
MaximumSpeed(mm/sec) 3000 Motor Speed(rpm/mim)		250/50	500/100	800/160	1000/200
Maximum Payload(kg)	Horizontal	90/60	70/38	33/20	23/15
	Vertical	28/21	16/11	6/5	3/2
Recommended acceleration		1.5/0.5	3/1	3/1	3/1
RatedThrust(N)		1380/_	690/_	433/_	345/_
No rotating repeatability of the Electric cylinder		±1°			
Coupling (mm) (Motor side) x (Ball Screw Side)		14x10 (Length40mm)		8x10 (Length29mm)	
		400W		57 Closed loop stepper	
Motor Output		50~500 (50 interval)			
Home Sensor	Outside	DS1-EN-020			

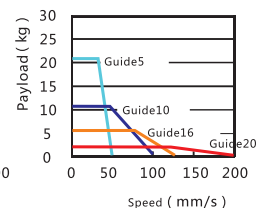
- Above repeatability is within strok 300mm,if logner travel needed,it will be lower.
- Please cooperate with external guide rail or guide rod and others guide device assured the Straight movements.
- Keep the electric cylinder sharft running without the radial loading , cooperated with external guide rail or guide rod and others guide device.
- Please note figure 2 motor size is same with table 1, or needed to replace coupler and motor holder.

Speed - Payload

Vertical - 400W Servo motor

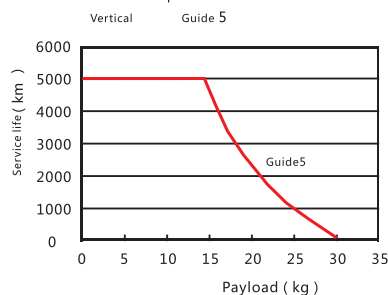


Vertical - 57 Closed loop stepper



Service life

The lifetime of the below specifications are 5000km.



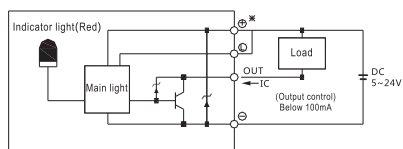
Servo Motor Matches List

(Table 1)

Servo motor size																			
Power(W)	Brand	Type		LL	LL(Brakes)	LA	LE	LZ	LC	LG	LW	RH	W	LR	S	LB	M	QK	QL
400W	Panasonic	MSMJ042G1□	V:With brake U:No brake	99	135	70	3	4.5	60	6.5	20	11	5h9	30	14h6	50h7	M5x10L	-	-
	Delta	ECMA-C20604□S	S:With brake R:No brake	130.7	166.6	70	3	5.5	60	7.5	20	11	5	30	14h6	50h7	M4x15L	-	-
		ECMA-C20804□S	S:With brake R:No brake	112.3	152.8	90	3	6.6	80	8	20	11	5	35	14h6	70h7	M4x15L	-	-
	Mitsubishi	HC-KFS43□K	B:With brake □:No brake	124.5	165.5	70	3	5.8	62	7	-	-	-	30	14h6	50h7	-	-	-
57stepper	W-ROBOT	W57S□	B:With brake □:No brake	81	97	66.67	1.6	4.5	56.4	4.8	15	7.2	3h9	21	8h6	38.1h7	-	-	-

□ Stand for empty

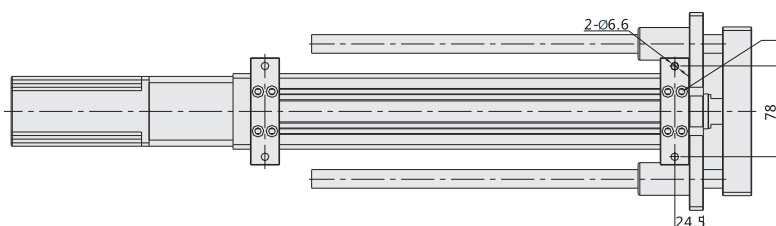
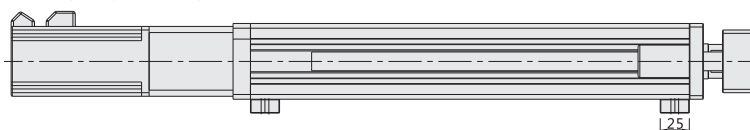
Wiring drawing of inductor(original point and endpoint)



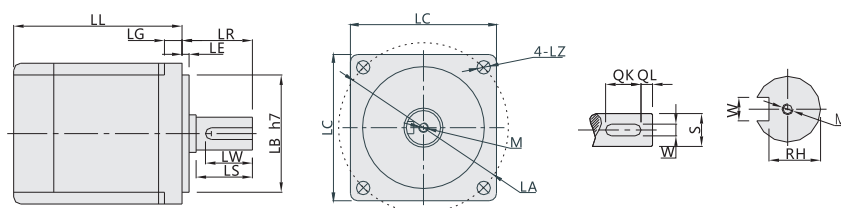
(Figure 1)

Optional accessories<Pedestal>

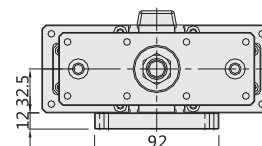
*optional parts: Two unit pedestals



Motor size



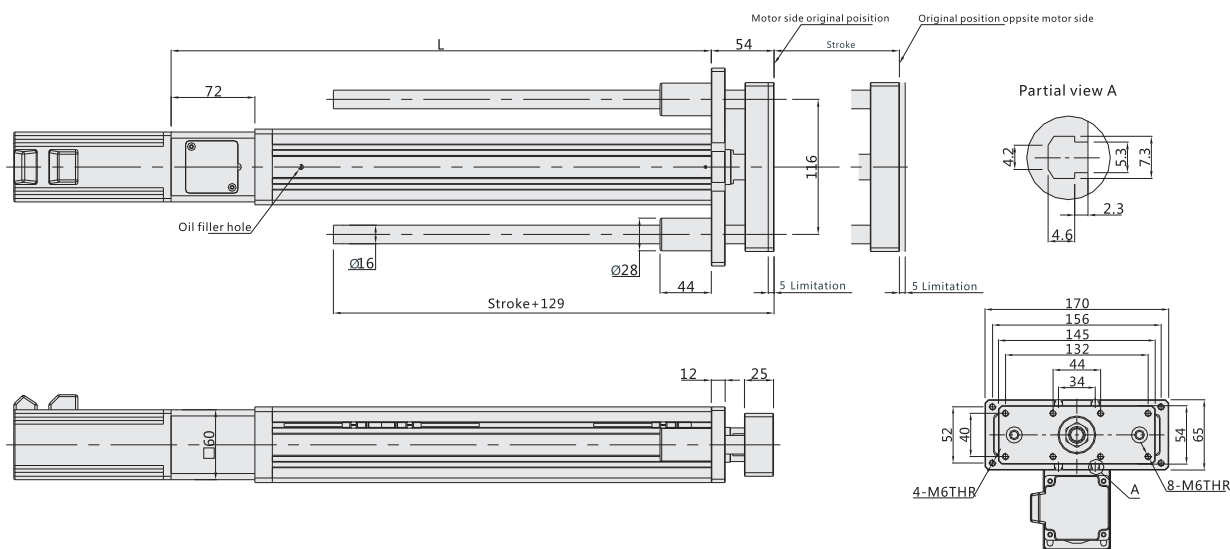
(Figure 2)



Installation through the T groove of body
Hexagonal bolt M4*0.7, neck length 12mm
Each board 4 pcs required

BC: External

Unit (mm)

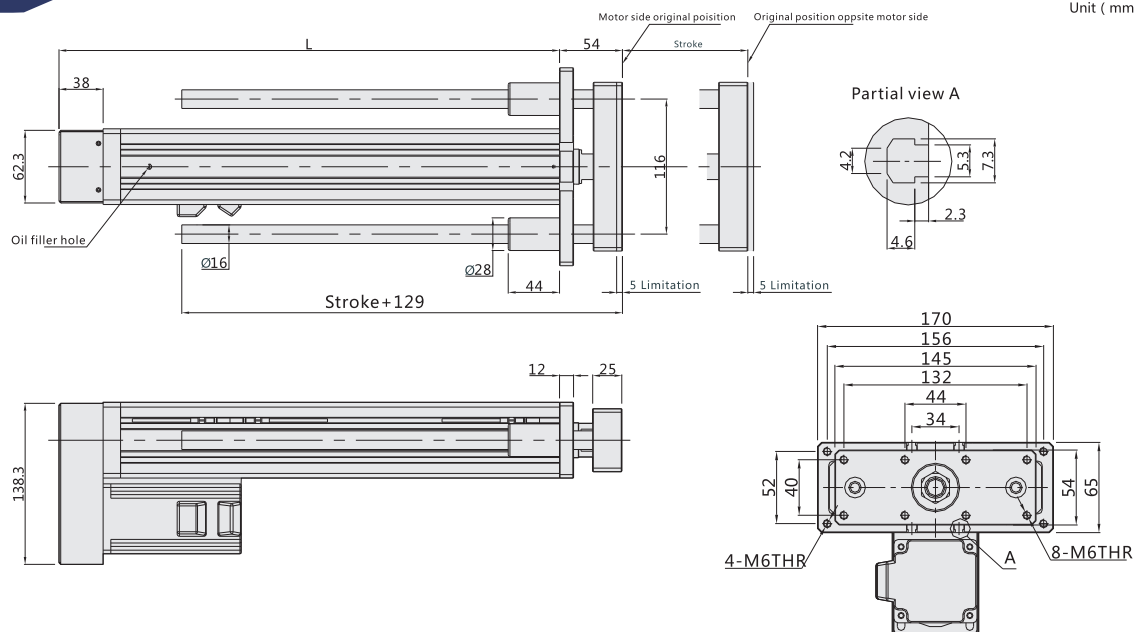


Working Stroke	50	100	150	200	250	300	350	400	450	500
L	264	314	364	414	464	514	564	614	664	714
Weight KG	4.6	5.3	6.0	6.7	7.4	8.1	8.8	9.5	10.2	10.9

Note: Not including motor weight. *In case special stroke please contact technical services.

BD: Down Side

Unit (mm)



Working Stroke	50	100	150	200	250	300	350	400	450	500
L	230	280	330	380	430	480	530	580	630	680
Weight KG	4.9	5.6	6.3	7.0	7.7	8.4	9.1	9.8	10.5	11.2

Note: Not including motor weight. *In case special stroke please contact technical services.

Rotation Axis

R01



Maximum rotation angle 360°
Maximum Payload 1KG····· 228
Body Width 80mm

R05



Maximum rotation angle 360°
Maximum Payload 5KG····· 229
Body Width 90mm

R10



Maximum rotation angle 360°
Maximum Payload 10KG····· 230
Body Width 97mm

ZR03



Maximum rotation angle 360°
Maximum Payload 15KG····· 231
Body Width 97mm

ADT Pneumatic Rotary Indexing Table



Max. radial force 8000N
Max. tangential moment 500Nm····· 232
Max. torque(6 bar) 58.9Nm

LNR10 Electric Rotary Indexing Table



Repeatability ±0.05
Max. torque 0.32Nm····· 235
Maximum rotation angle Without the mechanical limit:360°
With the mechanical limit : 310°

LNR30 Electric Rotary Indexing Table



Repeatability ±0.05
Max. torque 1.2Nm ····· 238
Maximum rotation angle Without the mechanical limit:360°
With the mechanical limit : 320°

LNR50 Electric Rotary Indexing Table



Repeatability ±0.05
Max. torque 10Nm ····· 241
Maximum rotation angle Without the mechanical limit:360°
With the mechanical limit : 320°

R01

Rotation axis

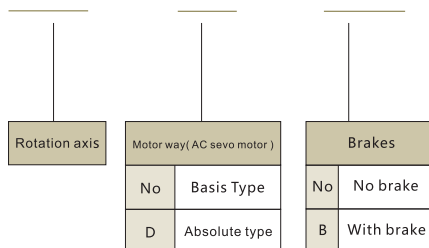
W-ROBOT®
Linear Drives



Guide for Model Selection

Technical parameters

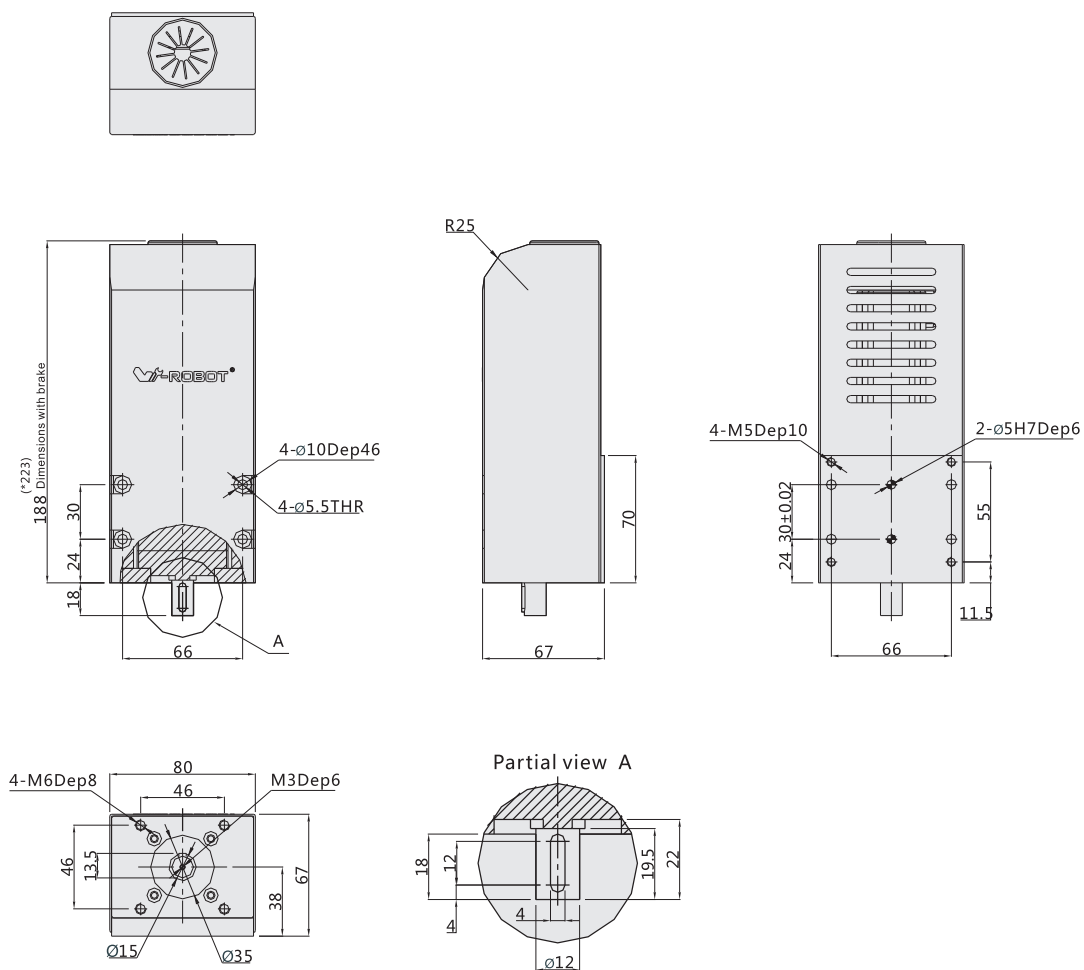
R01



ServoMotorOutput(W)	100W
Rate voltage(V)	220
Repeatability(°)	±0.05
MaximumSpeed(°/sec)	1800
Allow maximum inertia torque	7.65×10^{-3}
Rate rotate torque /Maximum rotate torque	2.7/8.1
Reduction ratio	1/10
Rotation range(°)	360
Reduction gears	Planetary gear drive
Payload(Kg)	1Kg
Environment	0-40°C, 85%RH Below

R01

Unit (mm)





Technical parameters

AC ServoMotorOutput(W)	200W
Rate voltage(V)	220
Repeatability(°)	±0.05
MaximumSpeed(°/sec)	1800
Allow maximum inertia torque	6.3×10^{-2}
Rate rotate torque /Maximum rotate torque	5.3/15.9
Reduction ratio	1/10
Rotation range(°)	360
Reduction gears	Planetary gear drive
Payload(Kg)	5Kg
Environment	0-40°C,85%RH Below

Guide for Model Selection

R05

Rotation axis

Motor way (AC servo motor)

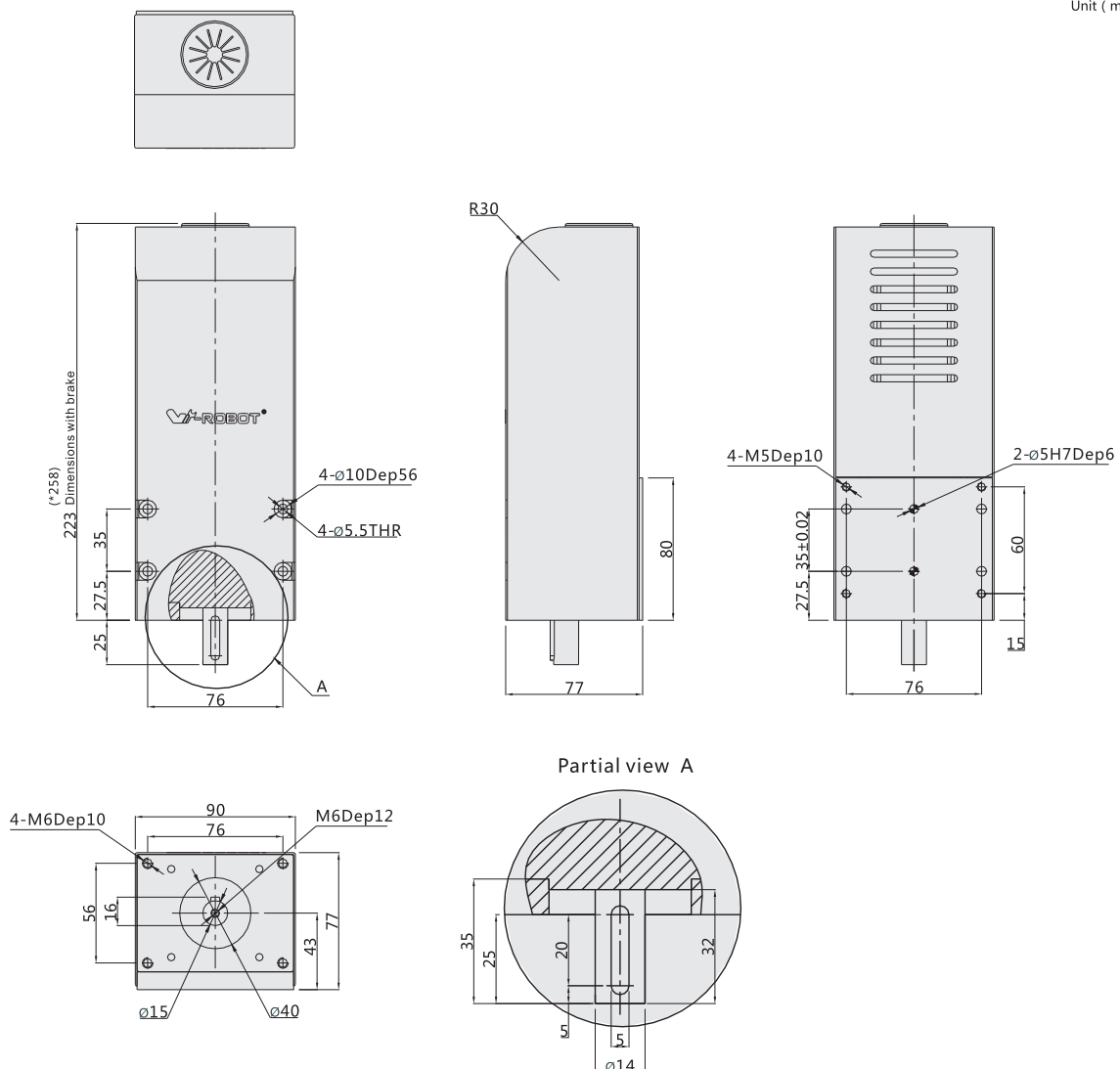
No	Basis Type
D	Absolute type

Brakes

No	No brake
B	With brake

R05

Unit (mm)



R10 Rotation axis

W-ROBOT®
Linear Drives



Guide for Model Selection

Technical parameters

R10

Rotation axis

Motor way(AC servo motor)

No	Basis Type
D	Absolute type

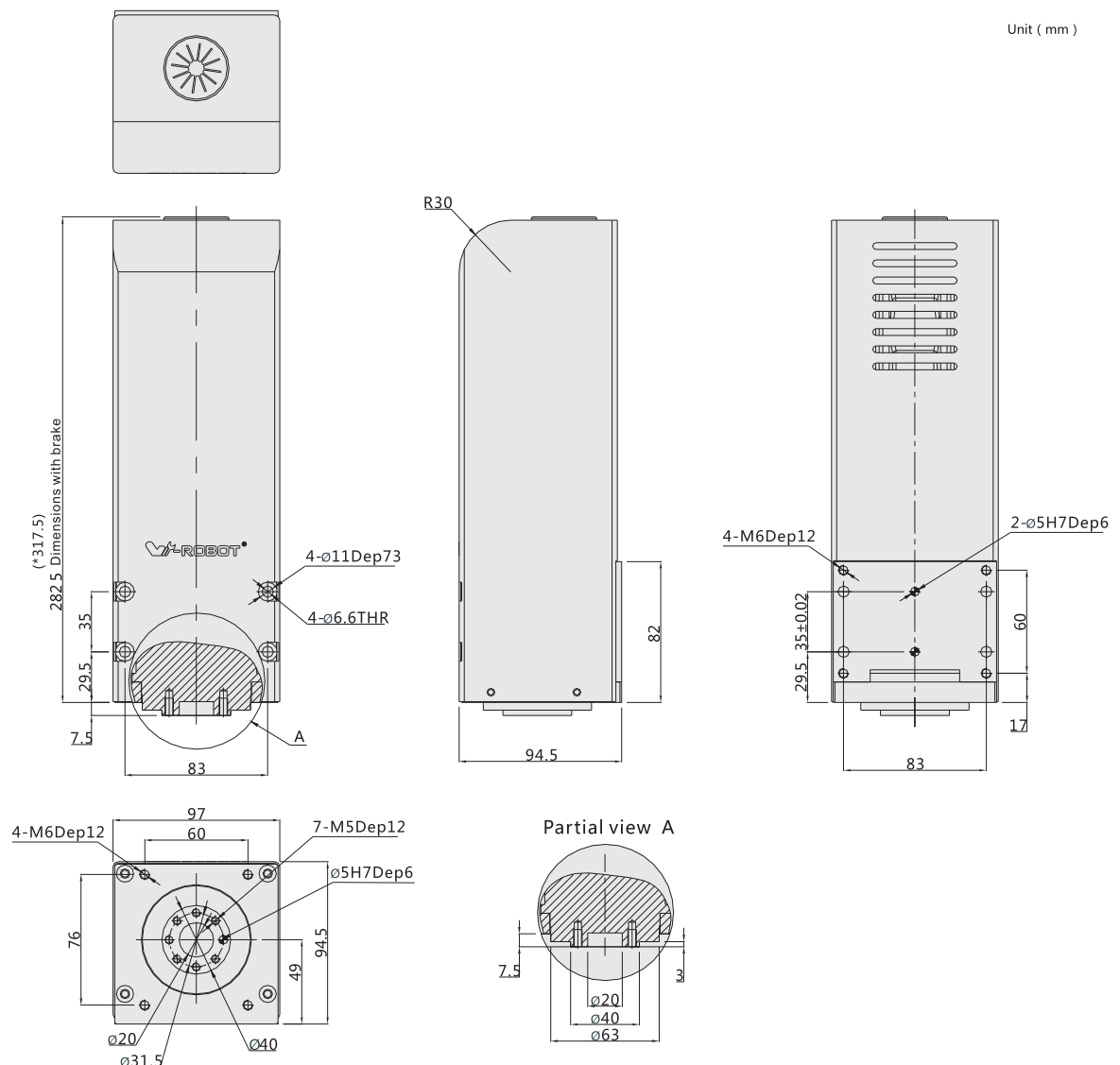
Brakes

No	No brake
B	With brake

AC ServoMotorOutput(W)	400W
Rate voltage(V)	220
Repeatability(°)	±0.05
MaximumSpeed(°/sec)	1800
Allow maximum inertia torque	0.1
Rate rotate torque /Maximum rotate torque	11/33
Reduction ratio	1/10
Rotation range(°)	360
Reduction gears	Planetary gear drive
Payload(Kg)	10Kg
Environment	0-40°C,85%RH Below

R10

Unit (mm)





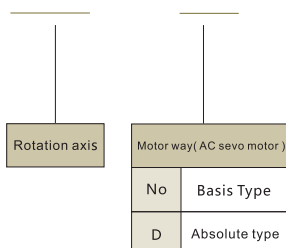
ZR03

■ Technical parameters

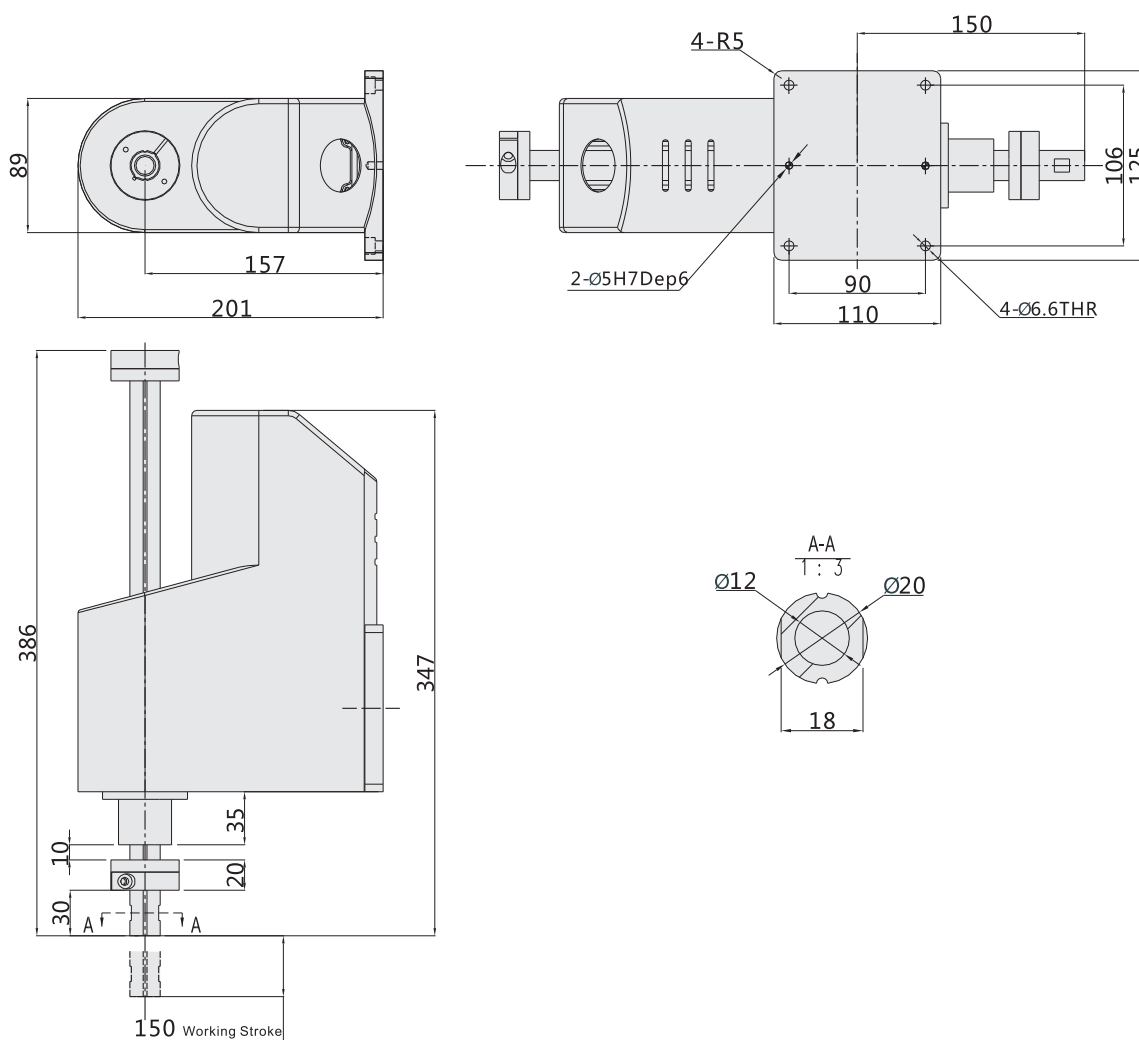
	Z Axis	R Rotation axis
AC ServoMotorOutput(W)	100W	100W
Rate voltage(V)	220	220
Repeatability(°)	±0.05	±0.02
MaximumSpeed Z(mm/s),R(°/s)	500	900
Allow maximum inertia torque of R axis		0.03
Rated thrust of Z axis(N)Rate rotate torque of R axis /Maximum rotate torque(N.M)		180
Z Lead(mm),Reduction ratio of R Axis	10	20
Stroke of Z Axis(mm),Revolve scope of R axi.	150	360
Driving way	BallScrew	Planetary gear drive
Payload(Kg)	3	
Environment	0-40℃,85%RH Below	

■ Guide for Model Selection

ZR03—

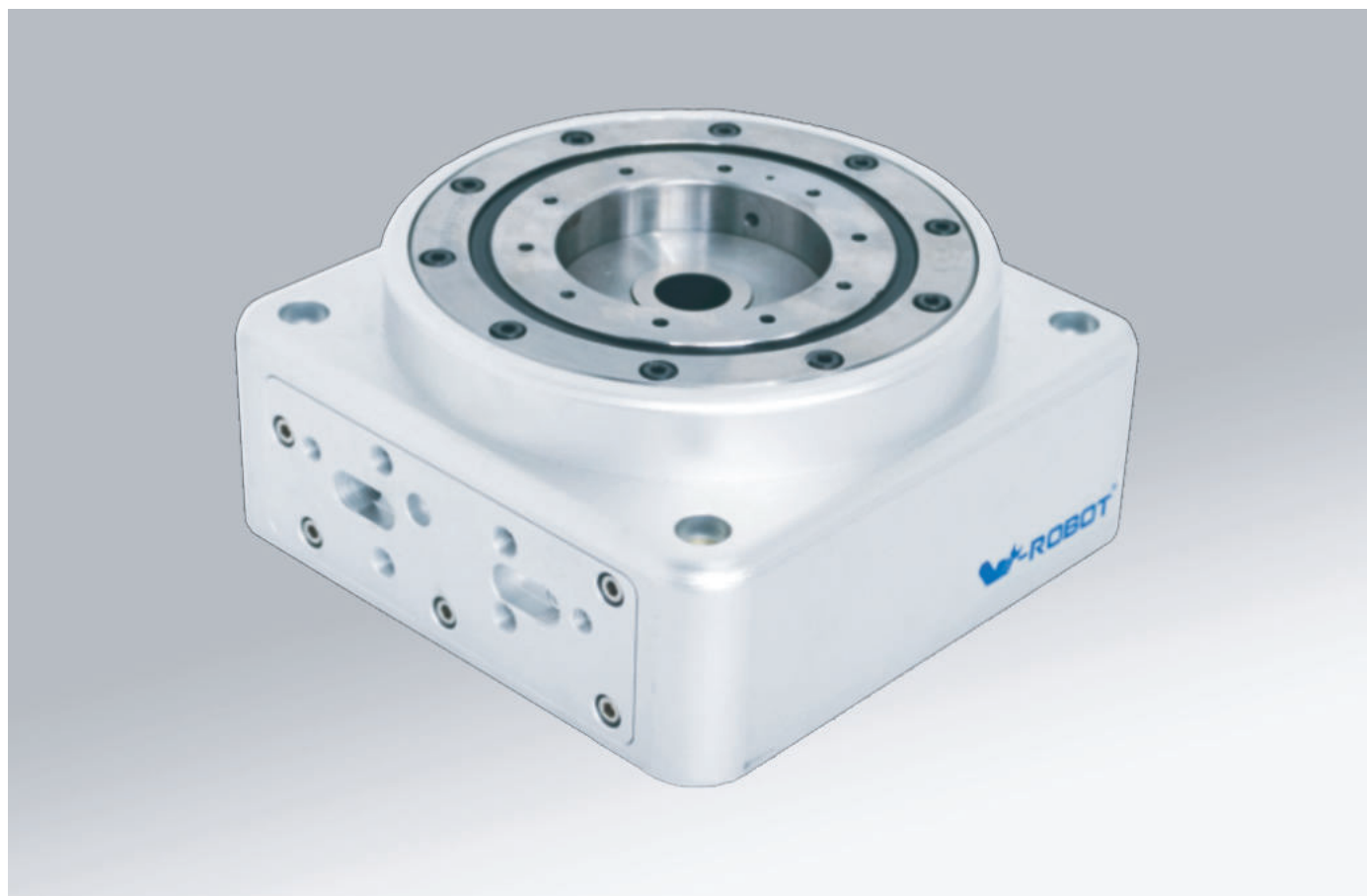


ZR03



ADT

Pneumatic Rotary Indexing Table



■ Guide for Model Selection

ADT

Without BERO

20

Specification

20	20
40	40
50	50

08

Division value

02	2D
03	3D
04	4D
06	6D
08	8D
12	12D
24	24D

CW

Rotation directions

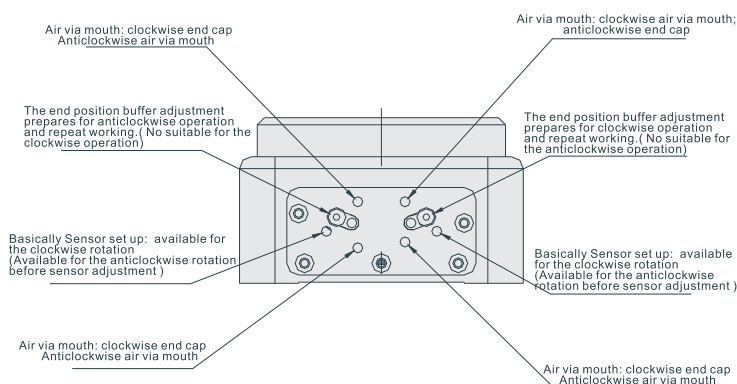
CW	Clockwise
CCW	Anticlockwise

A

A	BERO
B	Without BERO

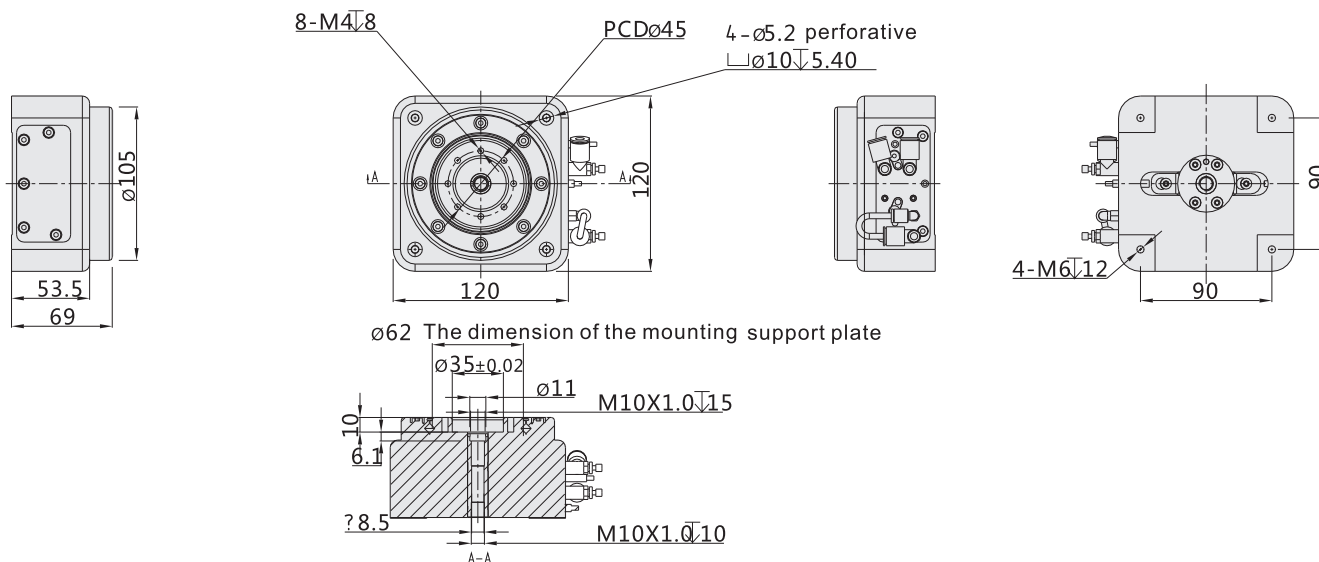
■ Specification

Specification	20	40	50
Rotation table bearings	Precise cross roller bearings		
Accuracy of the position indexing value	±80		
Repeatability	±20		
Max. axial force	1000	4000	5000
Max. radial force	2000	6000	8000
Max. capsizing moment	100	300	500
Max. tangential moment	100	300	500
Max. torque(6 bar)	2.1	18.1	58.9
Max. tangential moment	100	300	500
Weight	3	12	26
Air via mouth	M5	1/8'	1/8'
Working air press	4-8		



ADT-20

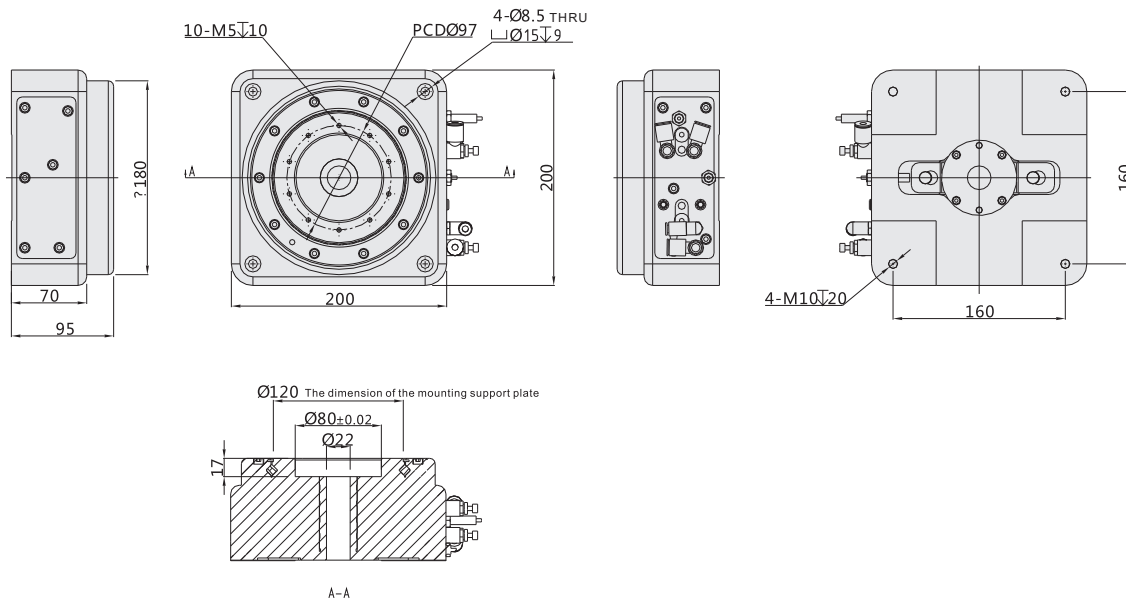
(mm)



ADT-Pneumatic Rotary Table

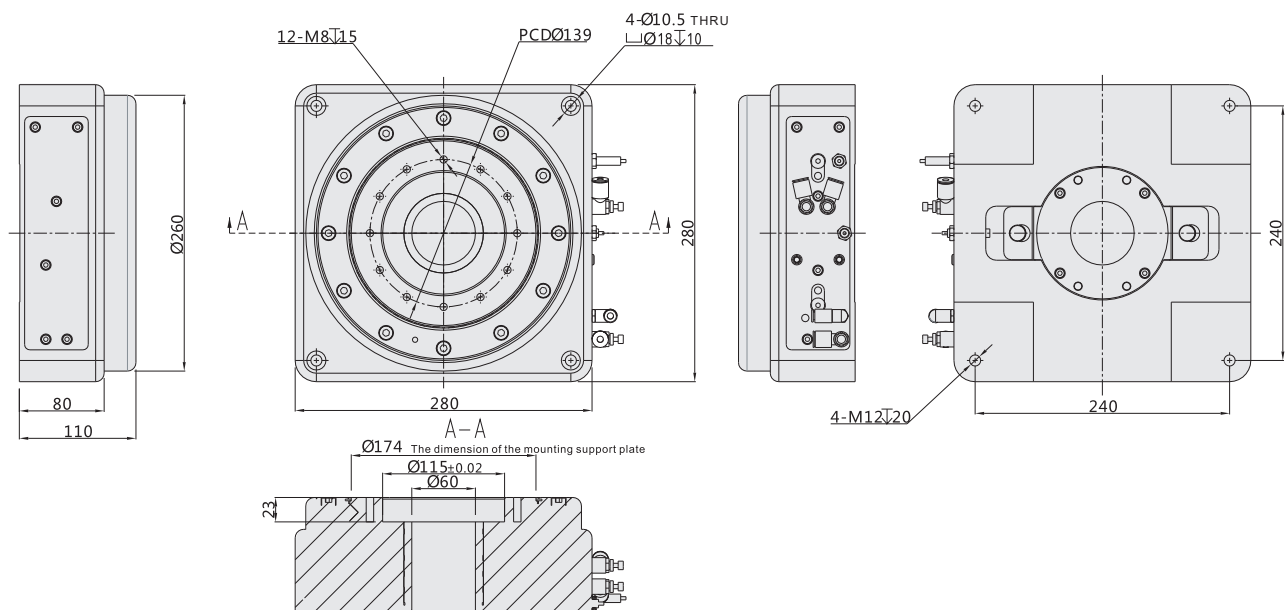
ADT-40

(mm)



ADT-50

(mm)





Standard

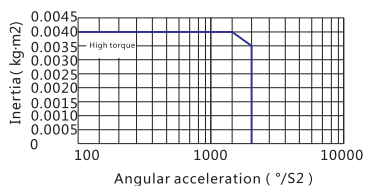


Standard torque

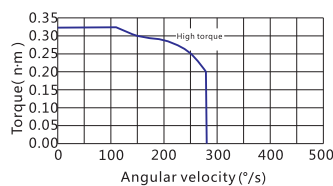
Guide for Model Selection

LNR10	—	—	K	—	S	—	N	—	—	3
Base Style		Rigidity	torque	Tape drive controller	The way back the origin	limitation		Cable length		
Electric rotational shaft	None Standard	K High torque	S Pulse mode (Compatible for the robot with home sensors)	N Home sensors	None (Without the mechanical limit (rotation angle 360°)) L Mechanical limit (workable rotatable angle)	1 1m 3 3m 5 5m				

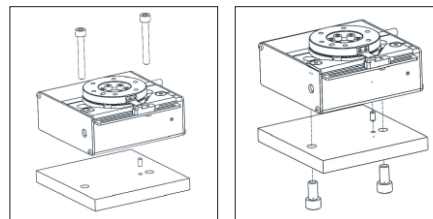
Inertia -Angular acceleration



Torque- Angular velocity



Installation



Specification

Motor	□20 step servo motor
Repeatability	±0.05
Drive way	Special turbine
Classification by torque	High torque
High torque(N-M)	0.32
Max. speed (°/sec)	280
Max inertia (kg-m2)	0.004
Transmission gap(°)	±0.5
Transmission gap	Without the mechanical limit: 360° With the mechanical limit : 310°

Allow torque

		Fa	Fb	
Allow the radial force (N)				
Standard	78			
High rigidity	86			
Allow the axial force				
Standard	Fa	78	Fb	74
High rigidity	Fa	107	Fb	74
The allow torque (N-M)				
Standard		2.4		
High rigidity		2.9		

LNR10

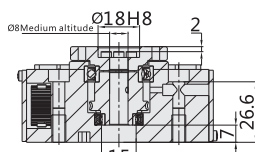
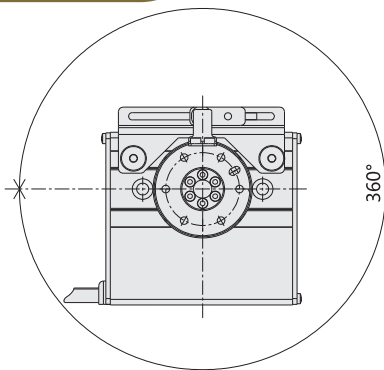
Electric Rotary Indexing Table



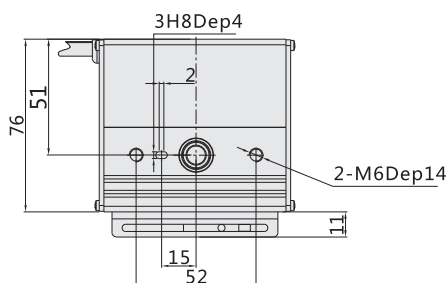
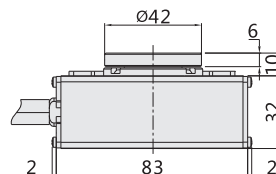
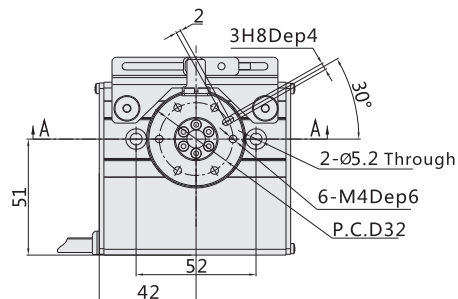
LNR10-N

Standard rigidity-Without limit

Unit (mm)



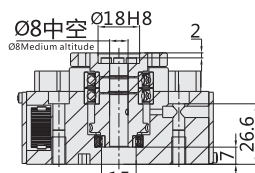
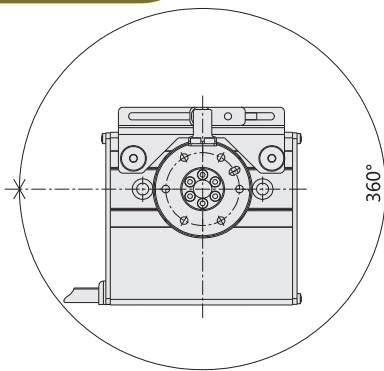
A-A



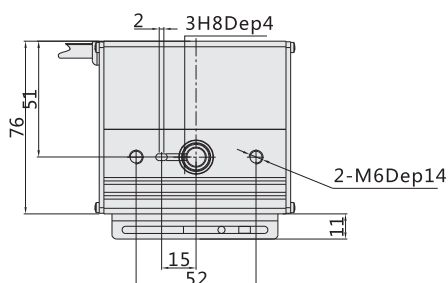
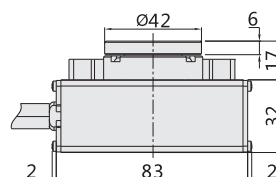
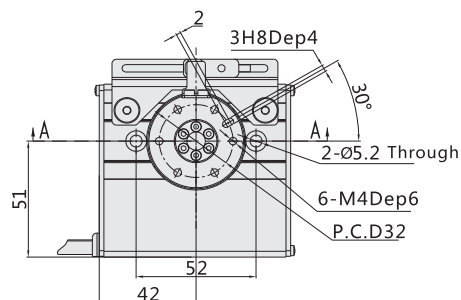
LNR10-H-N

High rigidity - without limit

Unit (mm)

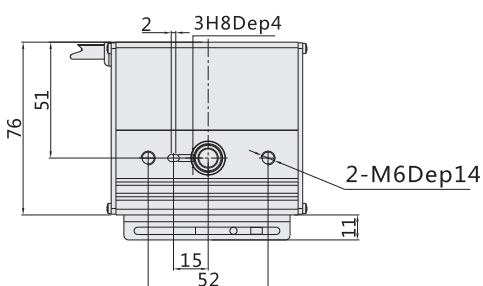
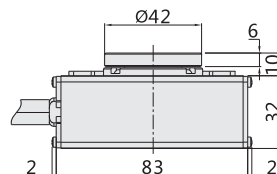
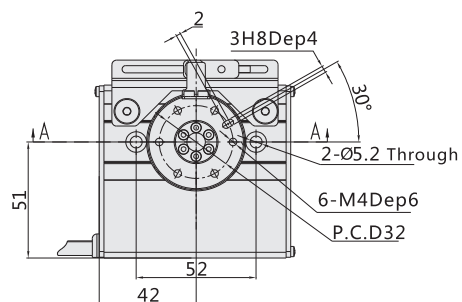
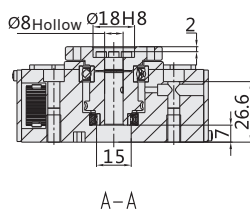
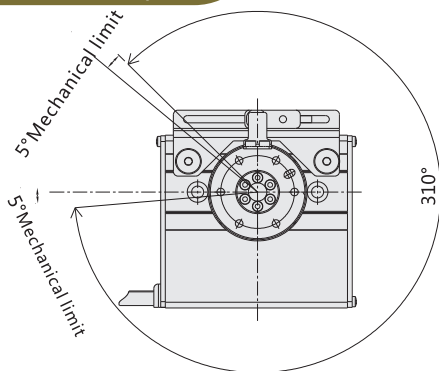


A-A



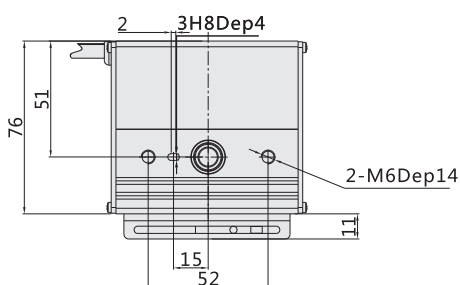
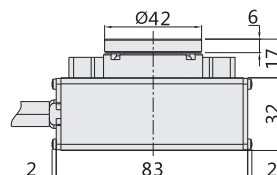
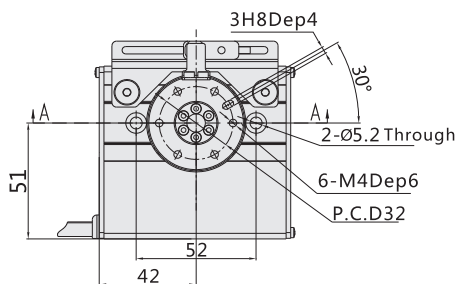
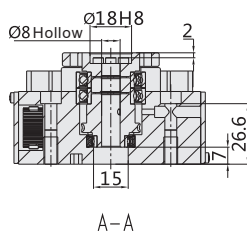
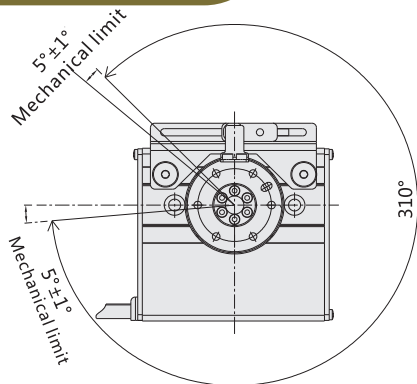
10-N-L Standard rigidity-with mechanical limit

Unit (mm)



NR10-H-N-L High rigidity-with mechanical limit

Unit (mm)

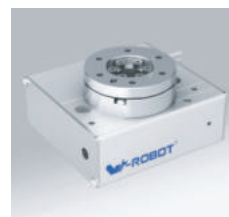


LNR30

Electric Rotary Indexing Table

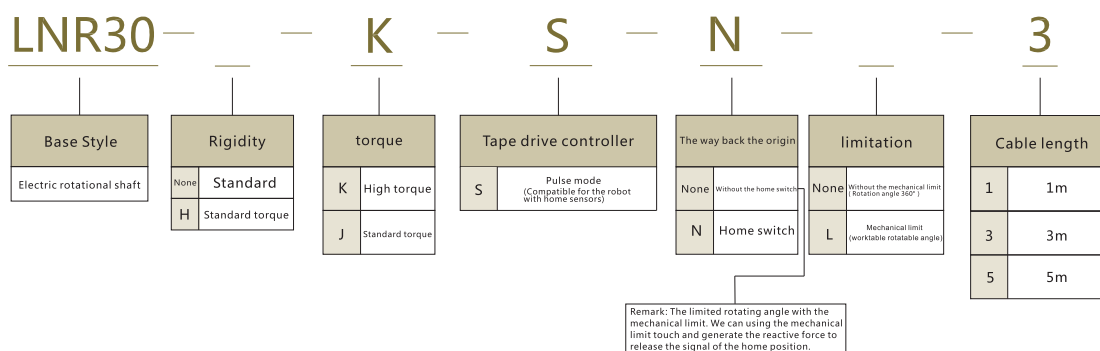


Standard

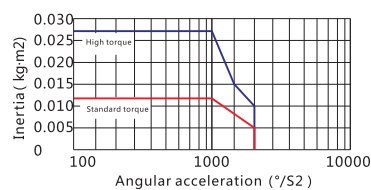


Standard torque

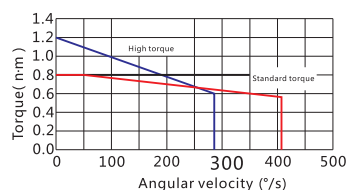
Guide for Model Selection



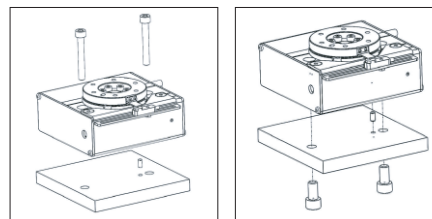
Inertia -Angular acceleration



Torque- Angular velocity



Installation



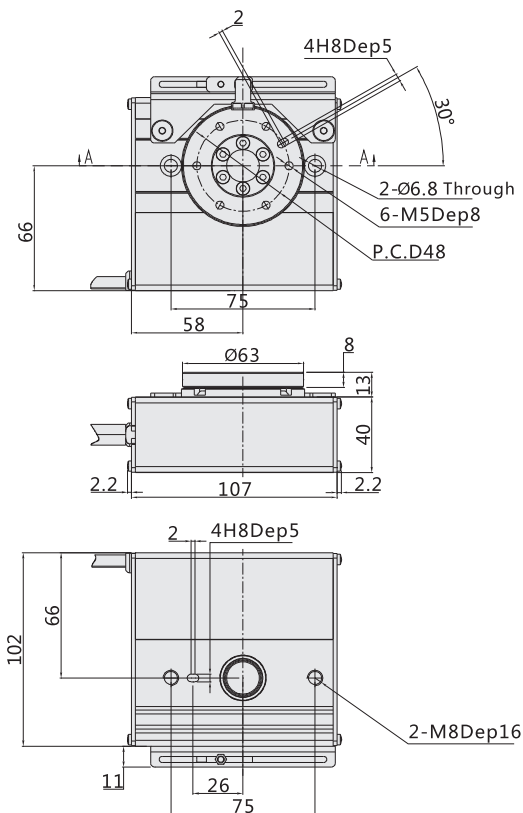
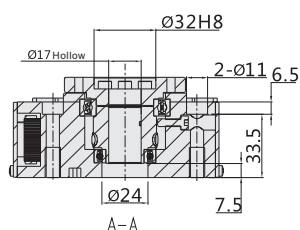
Specification

Motor	□28 step servo motor	
Repeatability(°)	±0.05	
Drive way	Special turbine	
Classification by torque	Standard	High torque
High torque(N·M)	0.8	1.2
Max. speed (°/sec)	420	280
Max inertia (kg·m²)	0.012	0.027
Transmission gap(°)	±0.5	
Transmission gap	Without the mechanical limit: 360° With the mechanical limit : 310°	

Allow torque

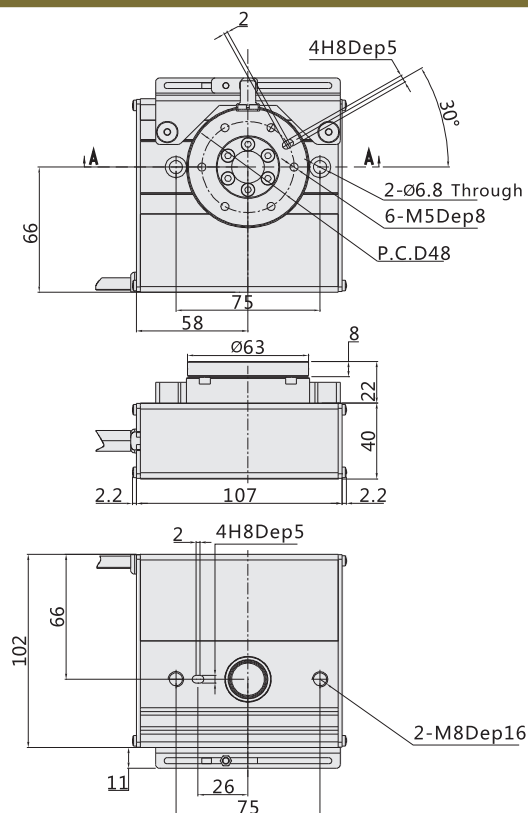
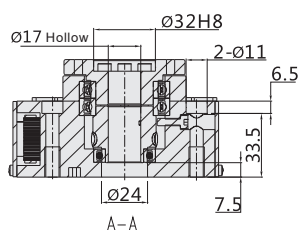
	Allow the radial force		Allow the axial force		The allow torque (N·M)	
	Standard	196	Standard	Fa 363 Fb 197	Standard	5.3
	High rigidity	233	High rigidity	Fa 398 Fb 197	High rigidity	6.4

Standard rigidity-Without limit



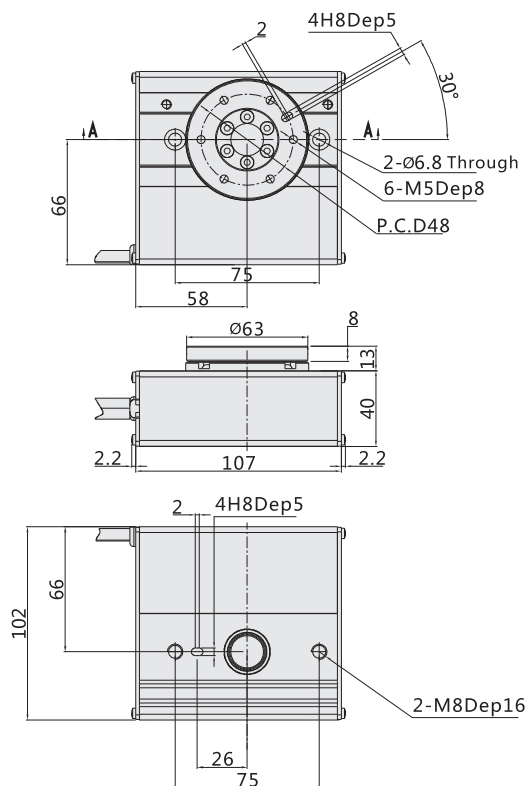
Unit (mm)

High rigidity - without limit

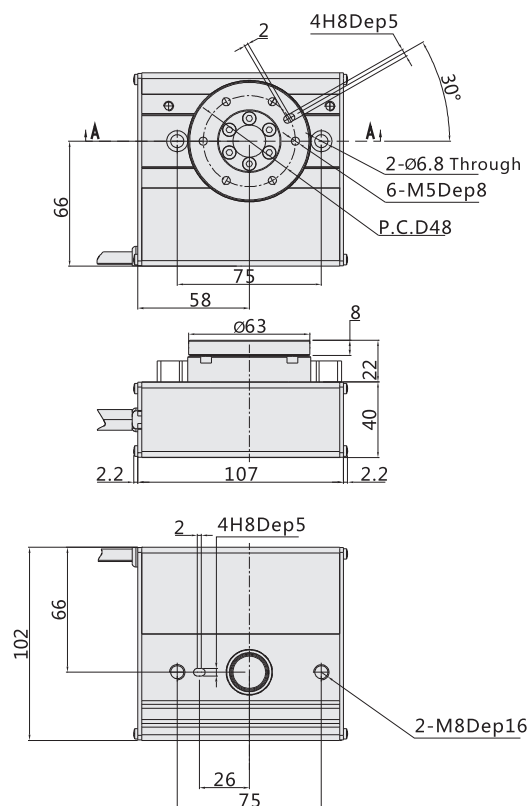


Unit (mm)

Unit (mm)



Unit (mm)



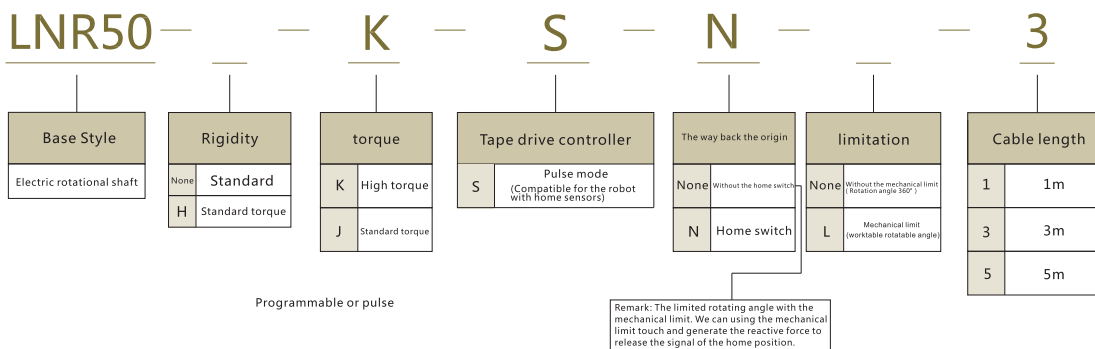


Standard

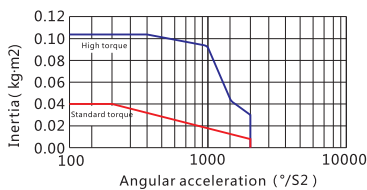


Standard torque

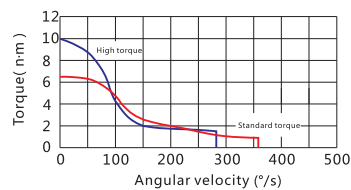
Guide for Model Selection



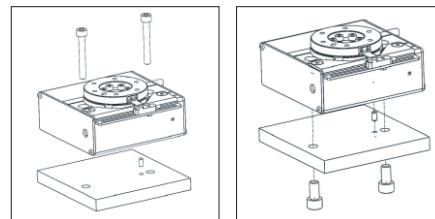
Inertia -Angular acceleration



Torque- Angular velocity



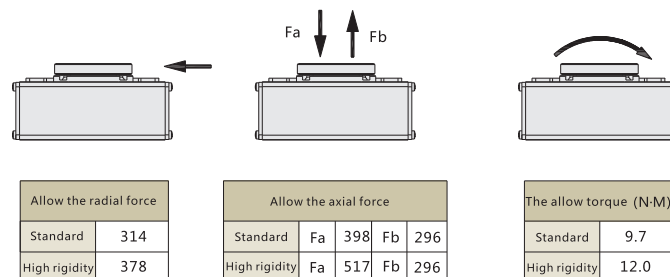
Installation



Specification

Motor	□42 step servo motor	
Repeatability(°)	±0.05	
Drive way	Special turbine	
Classification by torque	Standard	High torque
High torque(N-M)	6.6	10
Max. speed (°/sec)	420	280
Max inertia (kg-m2)	0.04	0.1
Transmission gap(°)	±0.5	
Transmission gap	Without the mechanical limit:360° With the mechanical limit :310°	

Allow torque



LNR50

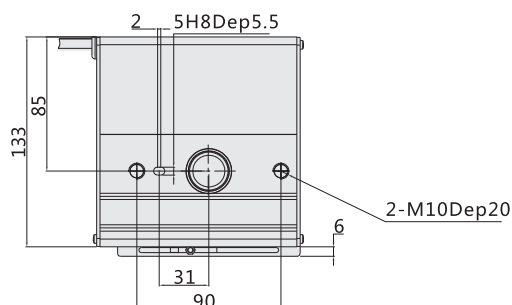
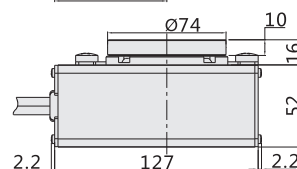
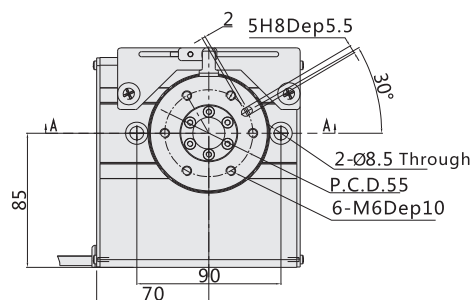
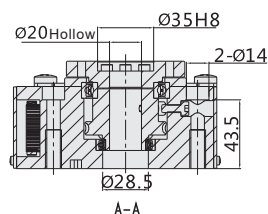
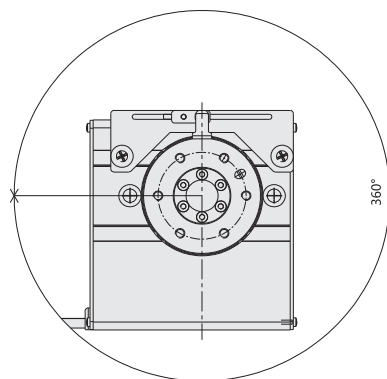
Electric Rotary Indexing Table



LNR50-N

Standard rigidity-Without limit

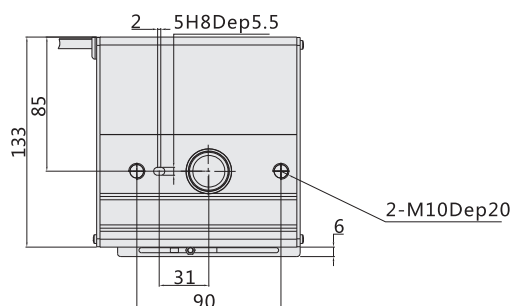
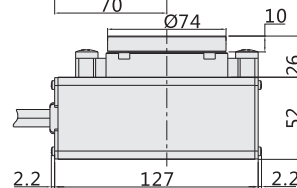
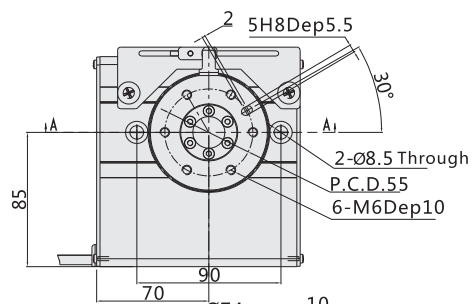
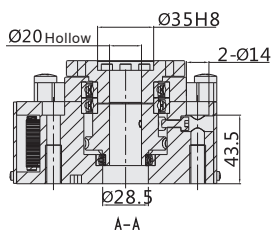
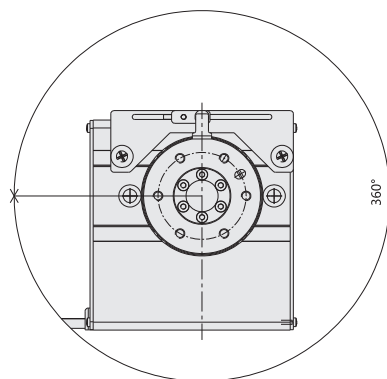
Unit (mm)



LNR50-H-N

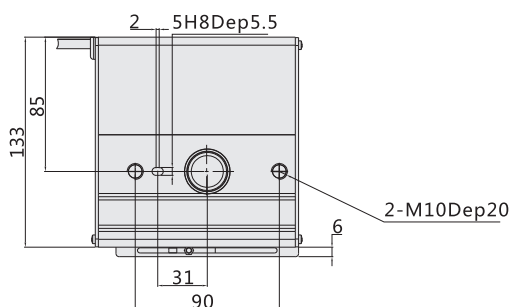
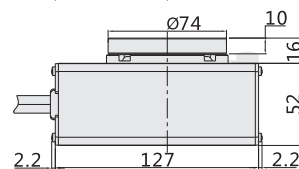
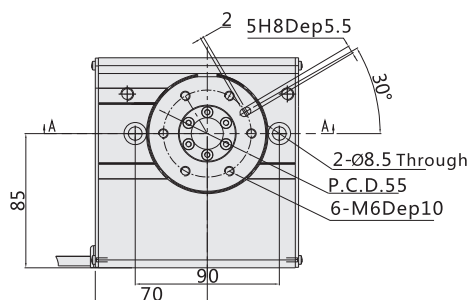
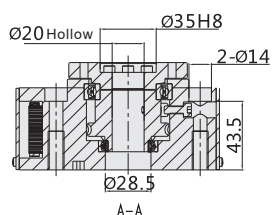
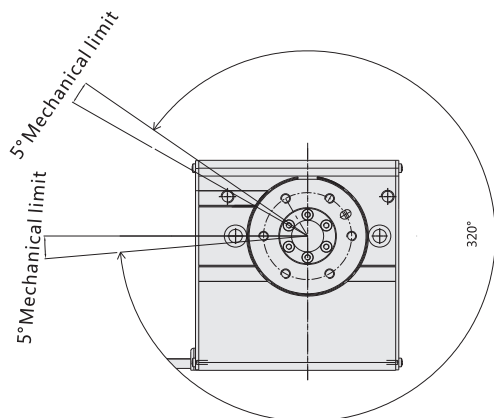
High rigidity - without limit

Unit (mm)



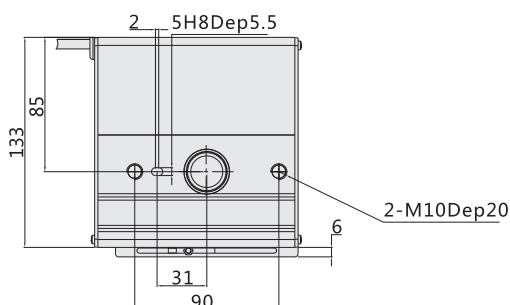
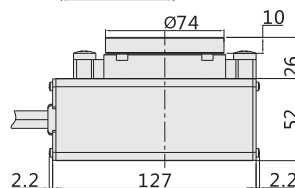
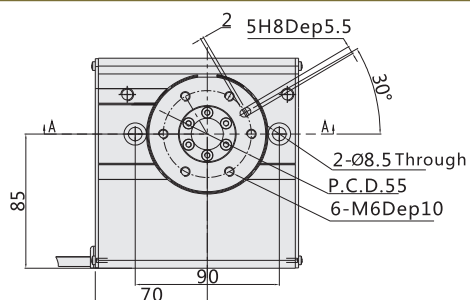
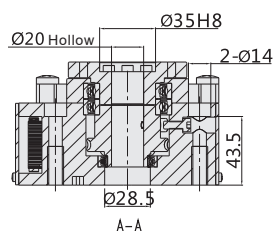
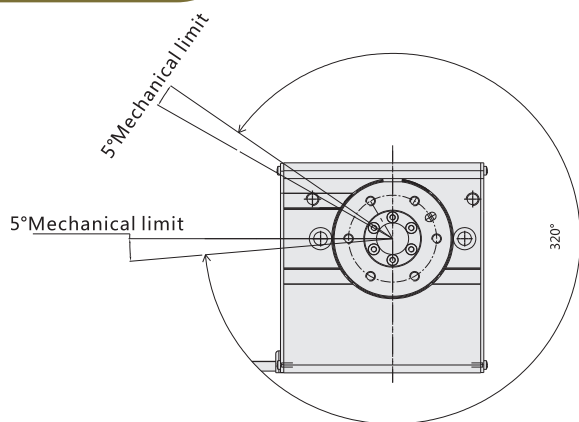
LNR50-N-L Standard rigidity-with mechanical limit

Unit (mm)



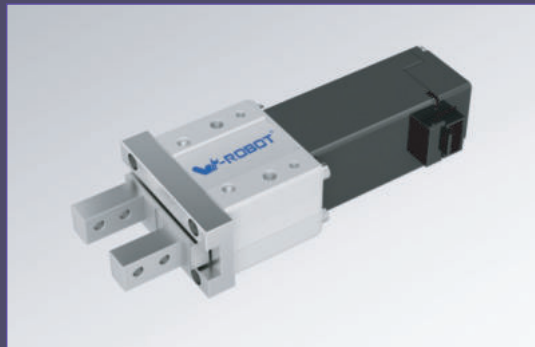
LNR50-H-N-L High rigidity-with mechanical limit

Unit (mm)



Electric Gripper

LEF20



Clamping force	15-45
Clamping speed (mm/s)	5-50 245
Repeatability(mm)	±0.02



Guide for Model Selection

Technical specifications

LEF20 — S10 — 28 — 03

Base Style
Electric gripper

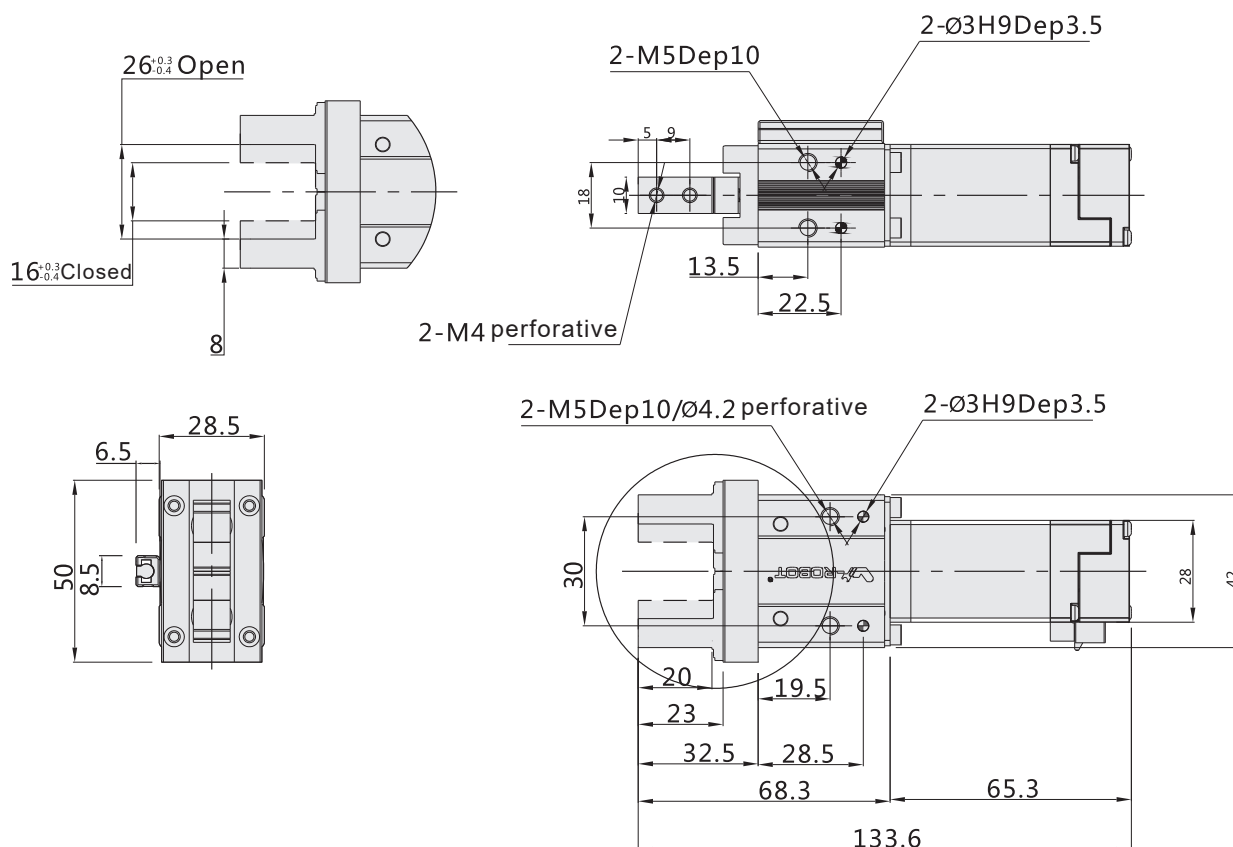
Working clamping stroke
S10 10MM

Controller drive
28 Step motor

Cable length
03 3M (Standard)
05 5M

Working clamping stroke (mm)	10
Clamping force (N)	15-45
Clamping speed (mm/s)	5-50
Repeatability(mm)	±0.02
Driving mode	Screw + Cam
Guidance mode	Linear guide rail
Clamp holder weight (KG)	0.42
The motor type	28 step motor(with encoder)
Environment	0-40°C,85%RH Below

Unit (mm)



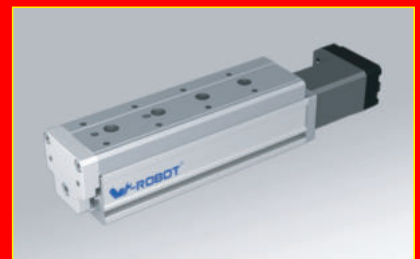
Miniature

LES16



Max Stroke (mm)	100
Max Payload (KG)	6 247
Repeatability (mm)	±0.04

LES25



Max Stroke (mm)	150
Max Payload (KG)	9 250
Repeatability (mm)	±0.04



BC



BL



BR

Guide for Model Selection

LES16 — L5 — S100 — BC — 28 — 3

Base Style	
Mini Module	

Ball Screw Lead	
L5	5mm
L10	10mm

Stroke(mm)	
S50	50
S100	100

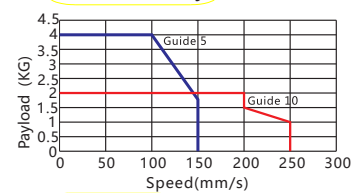
Motor way	
BC	External
BR	Right Side
BL	Left Side

Controller drive	
28 Step motor	

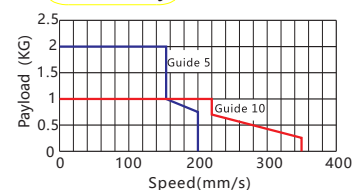
Cable length	
1	1m
3	3m
5	5m

Speed-Payload

Horizontally



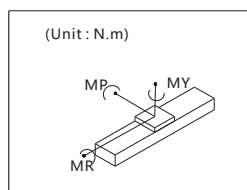
Vertically



Specification

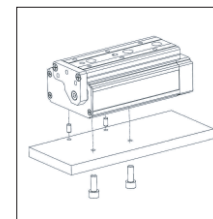
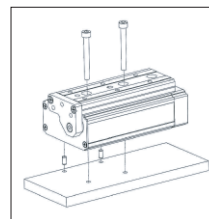
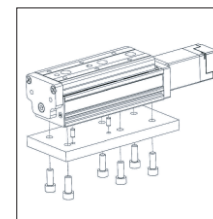
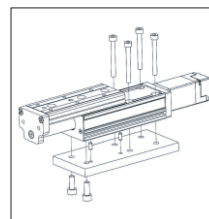
Motor	□28 step servo motor	
Resolution ratio	4096	
Repeatability	±0.04	
Drive	Screw	
BallScrew Lead(mm)	5	10
MaximumSpeed(mm/sec)	200	500
Maximum Payload(kg)	Horizontal	6
	Vertical	2
RatedThrust(N)	30	55
Guidance	Precision guide rail	

Max. static torque



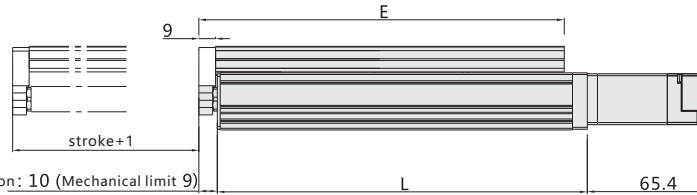
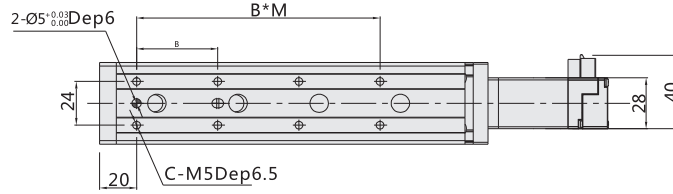
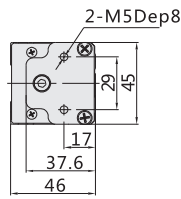
Max. static torque			
Stroke	MY	MP	MR
50	26	26	48
100	43	43	

Installation

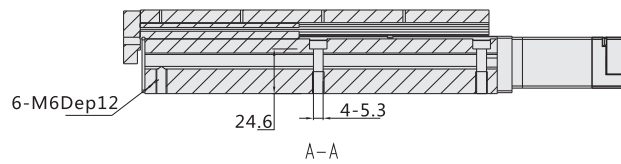
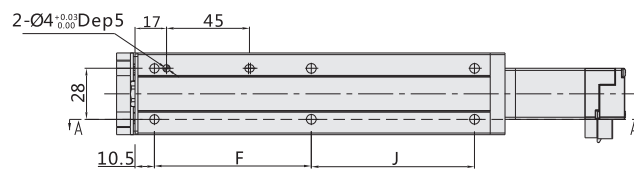


BC: External

Unit (mm)



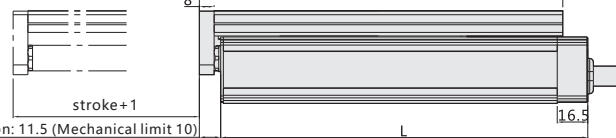
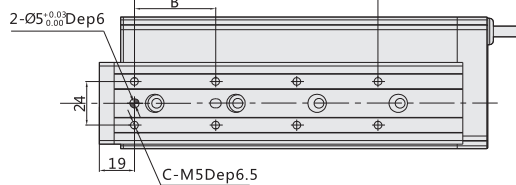
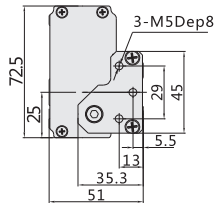
Original location: 10 (Mechanical limit 9)



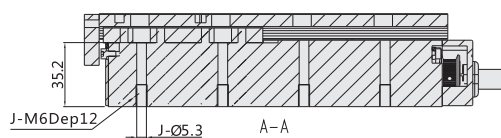
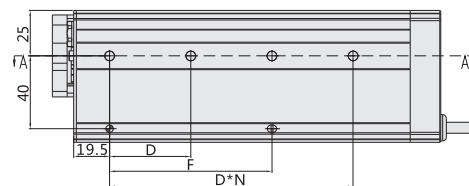
Working Stroke	50	100
L	131.5	200.5
B	40	44
C	6	8
M	2	3
E	123	198
F	65	85
J	39.5	88.5
Weight KG	1.5	2

BL: Left Side

Unit (mm)



Original location: 11.5 (Mechanical limit 10)

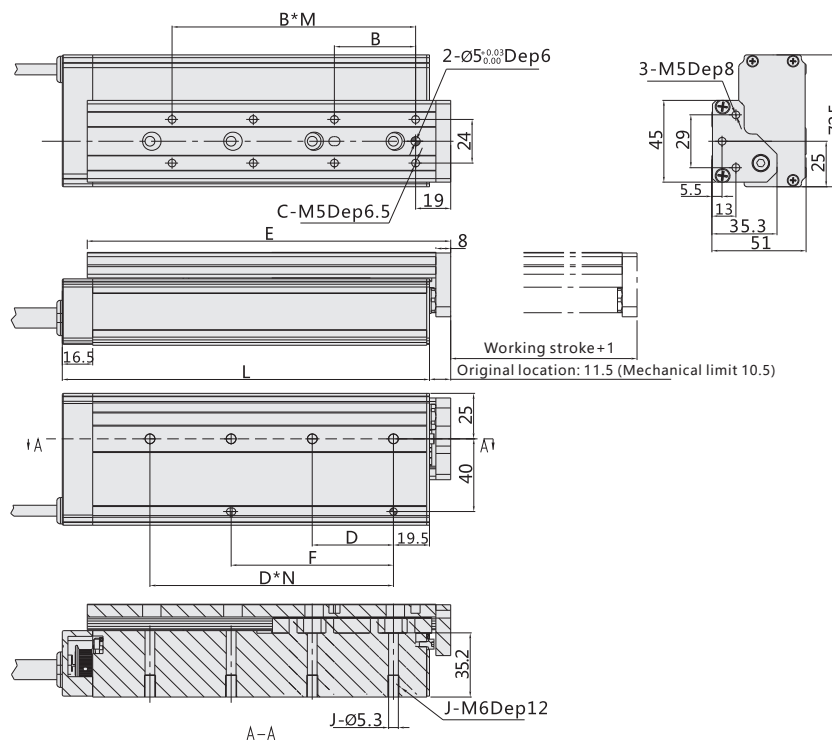


Working Stroke	50	100
L	124	199
B	40	44
C	6	8
D	45	44
M	2	3
N	1	3
E	122	197
F	45	88
J	2	4
Weight KG	1.4	1.9

BR: Right Side

Unit (mm)

Working Stroke	50	100
L	124	199
B	40	44
C	6	8
D	45	44
M	2	3
N	1	3
E	122	197
F	45	88
J	2	4
Weight KG	1.4	1.9



LES25

Mini Module

V-ROBOT®
Linear Drives



BC



BL



BR

■ Guide for Model Selection

LES25 — L8 — S100 — BC — 42 — 3

Base Style	
Mini Module	

Ball Screw Lead	
L8	5mm
L16	10mm

Stroke(mm)	
S50	50
S100	100
S150	150

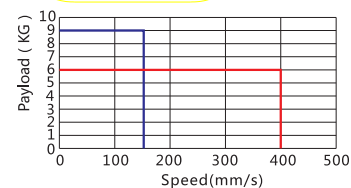
Motor way	
BC	External
BR	Right Side
BL	Left Side

Controller drive	
42 Step motor	

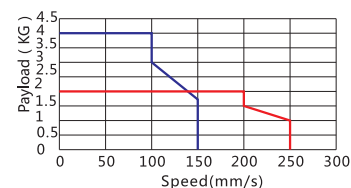
Cable length	
1	1m
3	3m
5	5m

■ Speed-Payload

Horizontally



Vertically

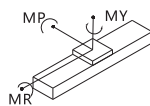


■ Specification

Motor	□42 step servo motor	
Resolution ratio	4096	
Repeatability	±0.04	
Drive	Ball screw	
BallScrew Lead(mm)	8	16
MaximumSpeed(mm/sec)	150	400
Maximum Payload(kg)	Horizontal	9
	Vertical	6
RatedThrust(N)	180	100
Guidance	Precision guide rail	

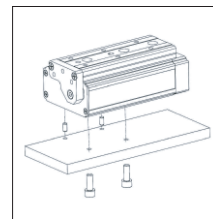
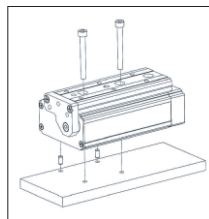
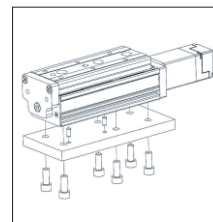
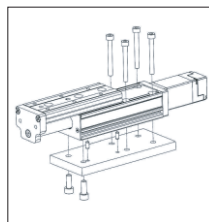
■ Max. static torque

(Unit : N.m)

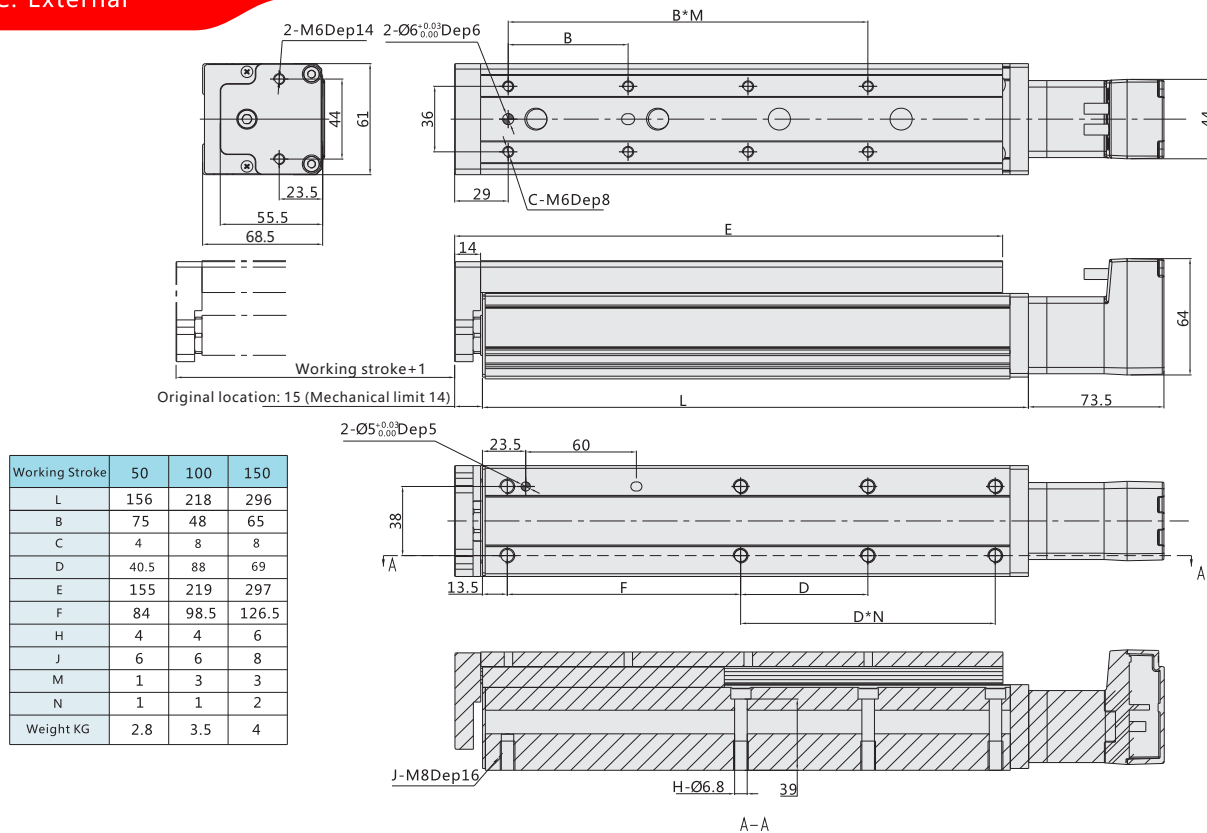


Max. static torque			
Stroke	MY	MP	MR
50	77	77	146
100	112	112	177
150	155	155	152

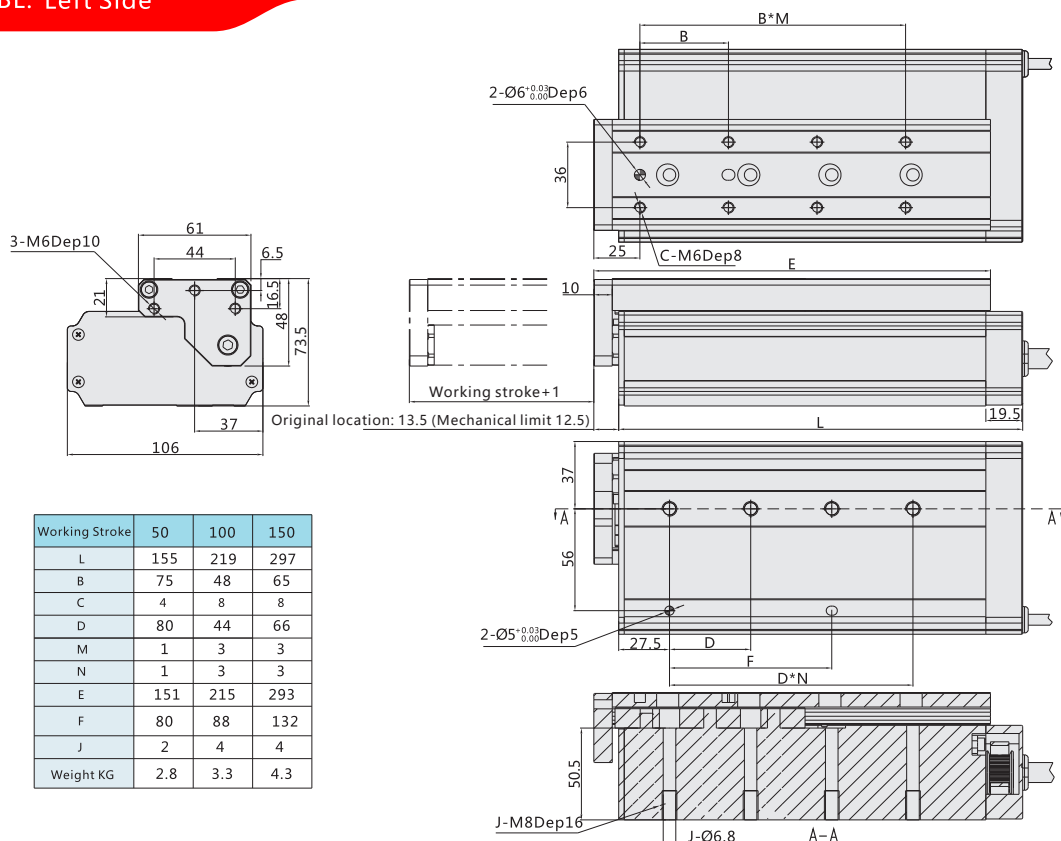
■ Installation



BC: External

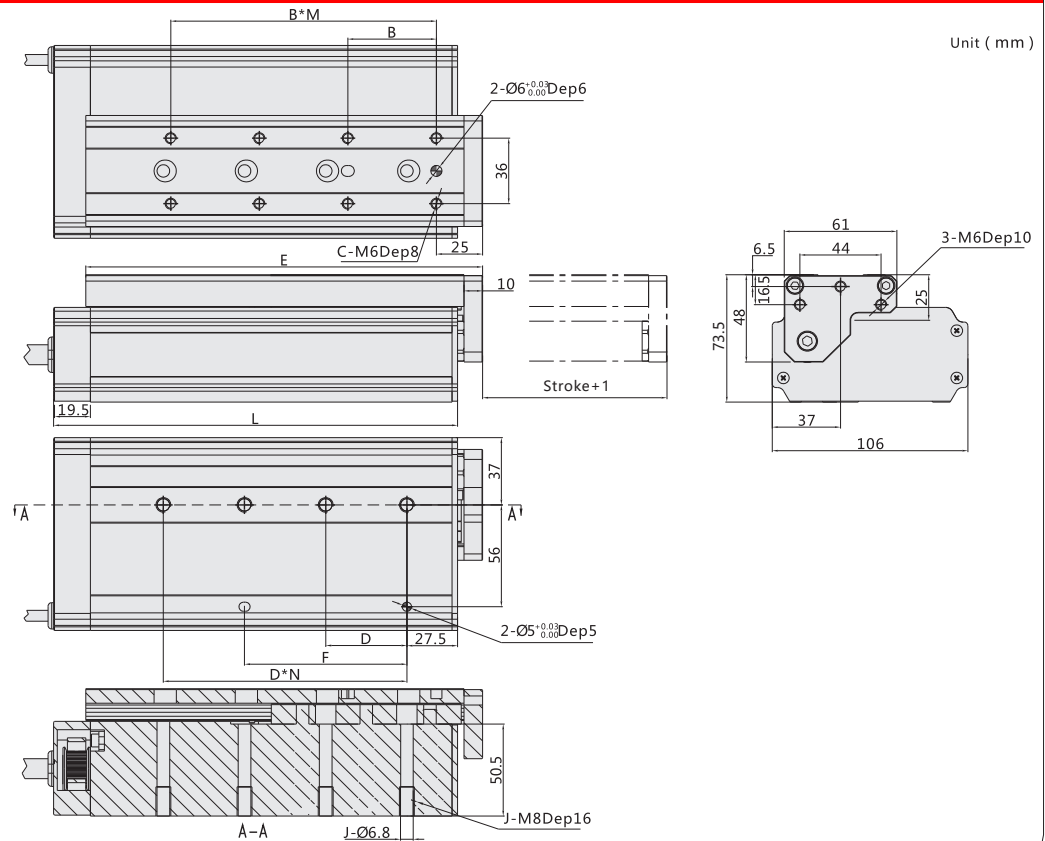


BL: Left Side



BR: Right Side

Unit (mm)



Working Stroke	50	100	150
L	155	219	297
B	75	48	65
C	4	8	8
D	80	44	66
M	1	3	3
N	1	3	3
E	151	215	293
F	80	88	132
J	2	4	4
Weight KG	2.8	3.3	4.3

Linear Motor

LMD-F14-T1



Maximum Stroke 3000mm
Body Width 140mm255
Repeatability ± 0.005

LMD-F17-T1



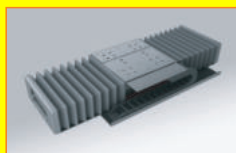
Maximum Stroke 3000mm
Body Width 170mm257
Repeatability ± 0.005

LMD-F22-T1



Maximum Stroke 3150mm
Body Width 220mm259
Repeatability ± 0.005

LMD-T20-T1



Maximum Stroke 1000mm
Body Width 200mm261
Repeatability ± 0.005

LMD-T28-T1



Maximum Stroke 1000mm
Body Width 280mm263
Repeatability ± 0.005

LMD-T35-T1



Maximum Stroke 800mm
Body Width 350mm265
Repeatability ± 0.005

LT8



Maximum Stroke 800mm
Body Width 80mm267
Repeatability ± 0.01 mm

LT14



Maximum Stroke 800mm
Body Width 140mm269
Repeatability ± 0.01 mm

LT17



Maximum Stroke 800mm
Body Width 170mm271
Repeatability ± 0.01 mm

LC14



Maximum Stroke 2000mm
Body Width 140mm273
Repeatability ± 0.01 mm

LC17



Maximum Stroke 2000mm
Body Width 170mm275
Repeatability ± 0.01 mm

LC22



Maximum Stroke 2000mm
Body Width 220mm277
Repeatability ± 0.01 mm

2LC14



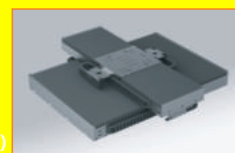
Maximum Stroke 2000mm
Body Width 140mm279
Repeatability ± 0.01 mm

**LT76
linear motor
(Closed Type)**



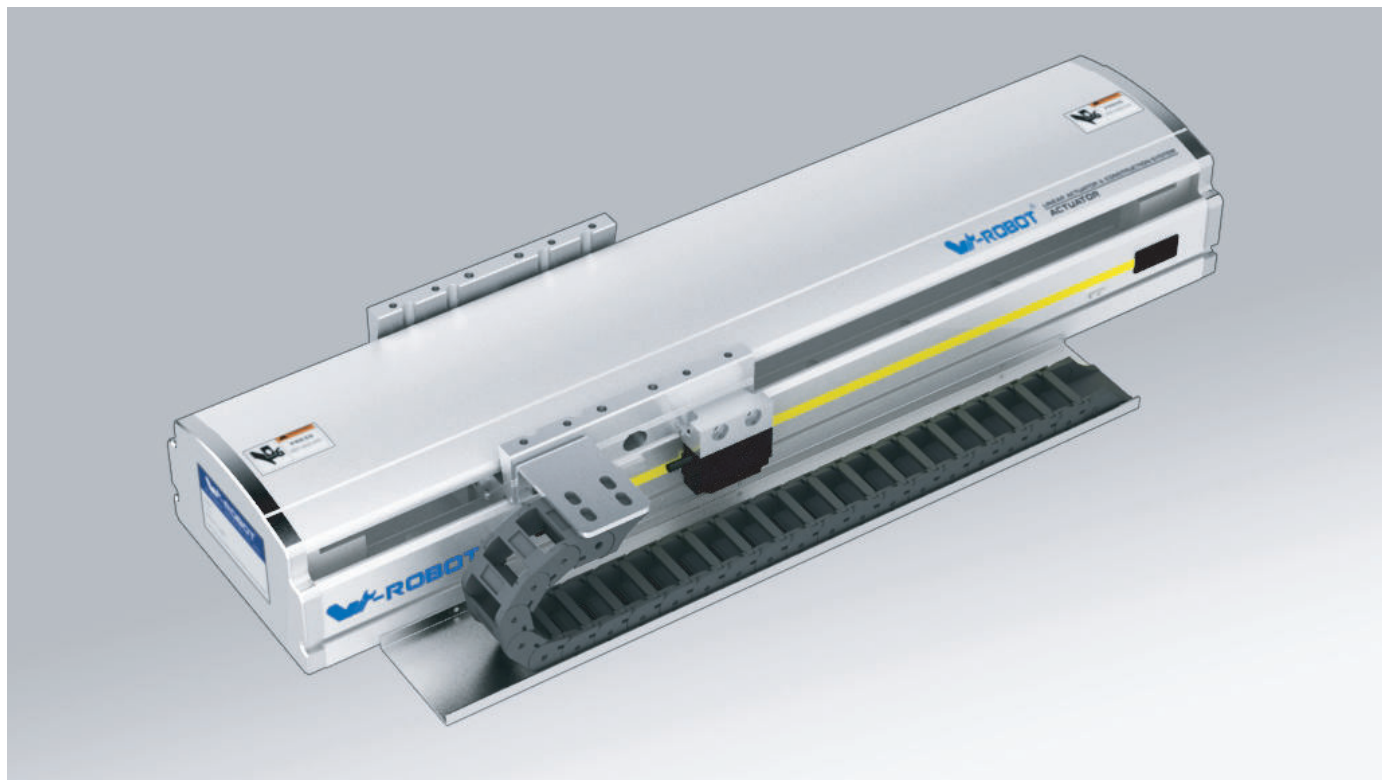
Maximum Stroke Top:300 Bottom:300
Body Width 15KG280
Repeatability ± 0.01 mm

**LMDT
linear motor
(Closed Type)**



Maximum Stroke Top:500 Bottom:500
Rated payload 45KG281
Repeatability ± 0.075 mm

LMD-F14-T1



■ Specification

Motor Type	TM
Repeatability(mm)	±0.005
Grating Resolution (mm)	±0.001
MaximumSpeed(mm/sec)	2500mm/s
Stroke(mm)	100-3000

Product model XXX=X-axes working stroke	Motor Type	Continuous Force(N)	Peak Current(N)	Peak Force(Arms)	Continuous Current(Arms)	Repeatability(mm)
LMD-F14-T1-TM6-XXX-T0-RH	TM6	120	210	6.2	3	±0.005

Note: Repeatability depends on grating resolution.

■ Guide for Model Selection

LMD - F14 - T 1 - TM6 - S300 - T 0 - RH+

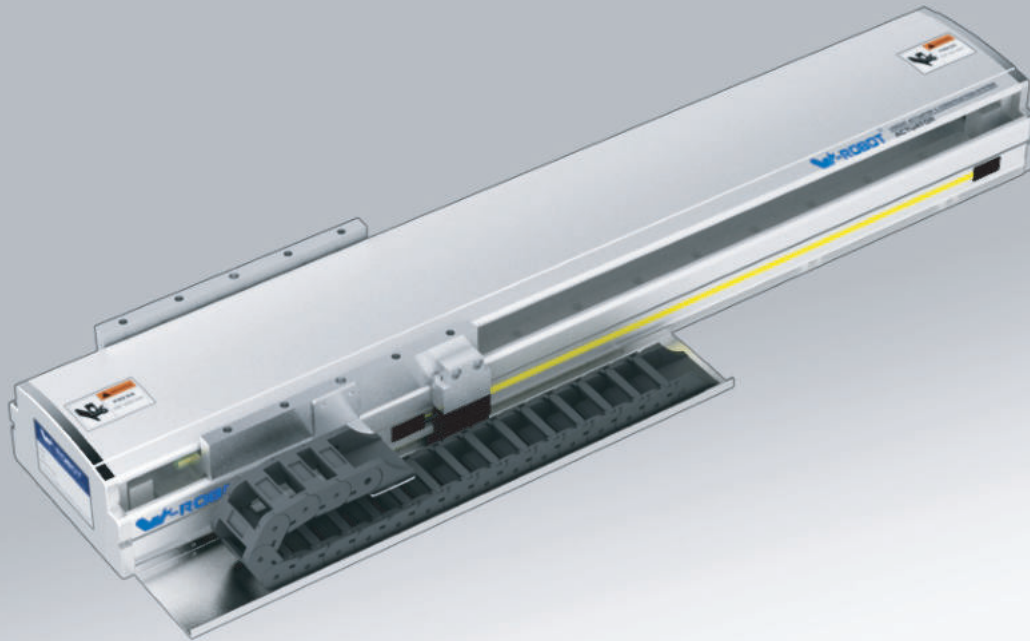
Combination	Base Style	Platform Type	Axes number	Motor Type	Stroke(mm)	Resolution	Limit switch	Cable Chain
LMD Linear Motor Drive	F Semi enclosed T Fully-enclosed 14 Body width140	T Iron Core Motor	1 1-axis 2 2-axes	TM Series	100-3000 (50-Interval) Special stroke customized	T 10um D 5um G 2um X 1um N 0.4um W 0.2um Y 0.1um	0 No 1 Inductive 2 Photoelectric switch	RH+ Horizontal right installation (Standard) RH- Horizontal right installation (Opposite) LH+ Horizontal left installation (Standard) LH- Horizontal left installation (Opposite) RV+ Vertical right installation (Standard) RV- Vertical right installation (Opposite) LV+ Vertical left installation (Standard) LV- Vertical left installation (Opposite)

Note: Not including motor weight.

*In case special stroke please contact technical services.

LMD-F17-T1

W-ROBOT®
Linear Drives



■ Specification

Motor Type	TM
Repeatability(mm)	±0.005
Grating Resolution (mm)	±0.001
MaximumSpeed(mm/sec)	3000mm/s
Stroke(mm)	100-3000

Note: Repeatability depends on grating resolution.

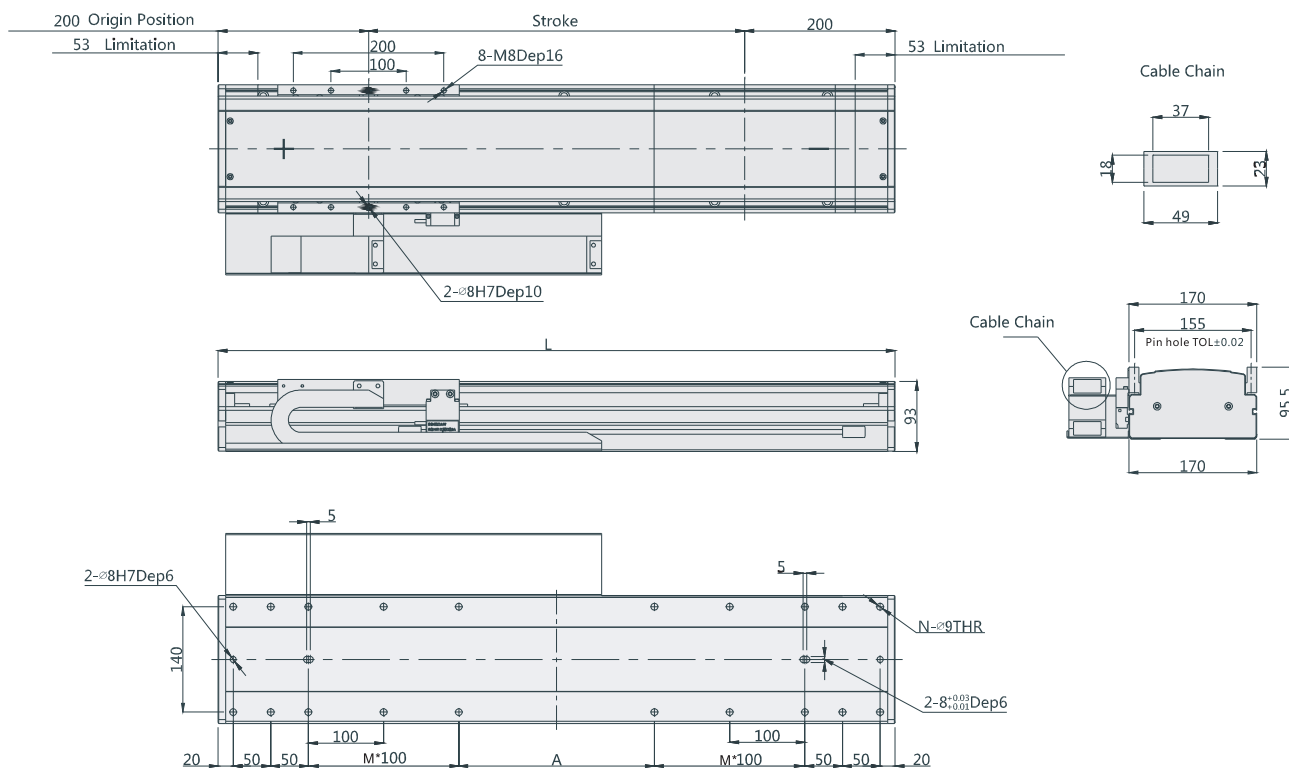
Product model XXX=X-axes working stroke	Motor Type	Continuous Force(N)	Peak Current(N)	Peak Force(Arms)	Continuous Current(Arms)	Repeatability(mm)
LMD-F17-T1-TM12-XXX-T0-RH	TM12	240	420	12.4	6	±0.005

■ Guide for Model Selection

LMD - F17 - T 1 - TM12 - S300 - T0 - RH+

Combination	Base Style	Platform Type	Axes number	Motor Type	Stroke(mm)	Resolution	Limit switch	Cable Chain
LMD Linear Motor Drive	F Semi enclosed T Fully-enclosed 17 Body width170	T Iron Core Motor	1 1-axis 2 2-axes	TM Series	100-3000(100-Interval) Special stroke customized	T 10um D 5um G 2um X 1um N 0.4um W 0.2um Y 0.1um	0 No 1 Inductive 2 Photoelectric switch	RH+ Horizontal right installation (Standard) RH- Horizontal right installation (Opposite) LH+ Horizontal left installation (Standard) LH- Horizontal left installation (Opposite) RV+ Vertical right installation (Standard) RV- Vertical right installation (Opposite) LV+ Vertical left installation (Standard) LV- Vertical left installation (Opposite)

Unit (mm)

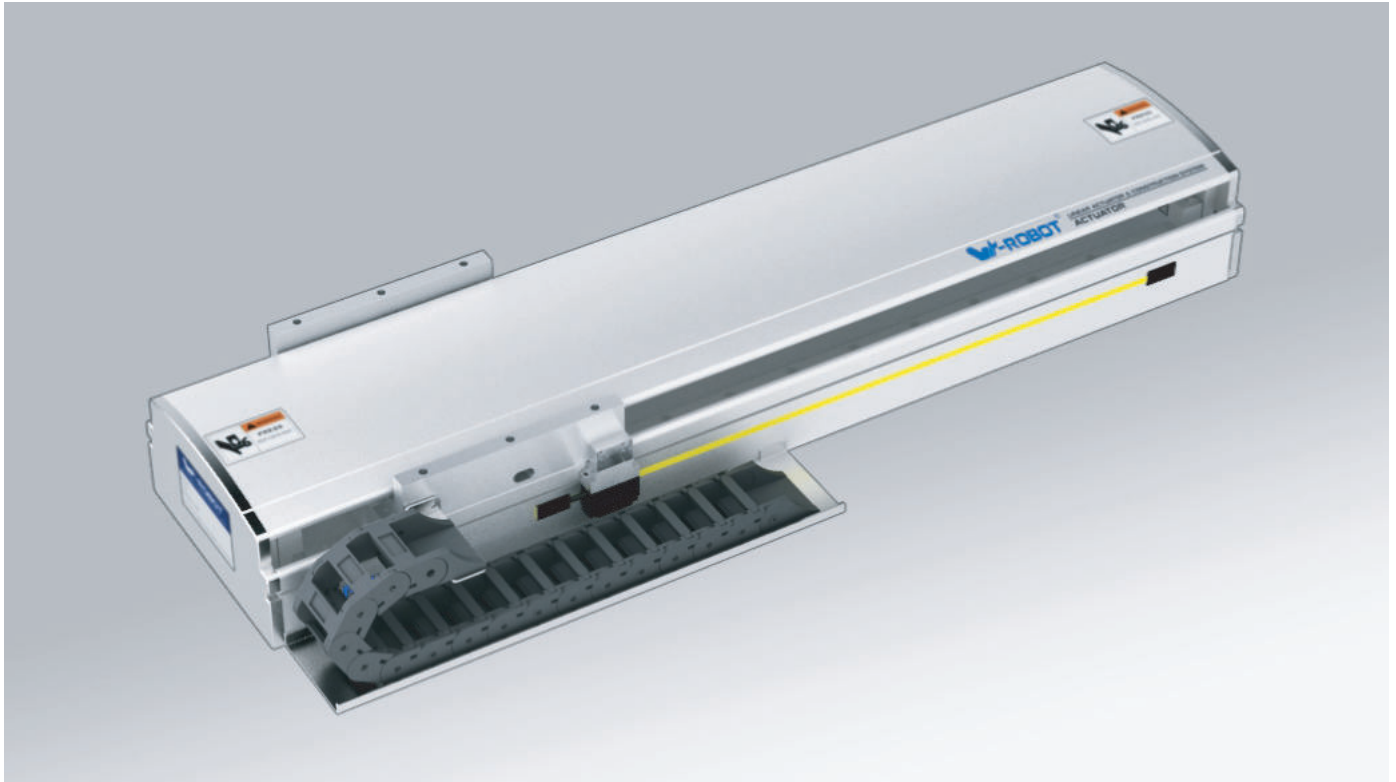


Note: Not including motor weight.

Working Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Rotor Weight
L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	3.8kg
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	
N	12	16	16	20	20	24	24	28	28	32	32	36	36	40	40	44	44	48	48	52	
A	260	160	260	160	260	160	260	160	260	160	260	160	260	160	260	160	260	160	260	160	
Weight KG	14	15.5	17	18.5	20	21.5	23	24.5	26	27.5	29	30.5	32	33.5	35	36.5	38	39.5	41	42.5	

*In case special stroke please contact technical services.

LMD-F22-T1



■ Specification

Motor Type	TL
Repeatability(mm)	±0.005
Grating Resolution (mm)	±0.001
MaximumSpeed(mm/sec)	3000mm/s
Stroke(mm)	150-3150

Note: Repeatability depends on grating resolution.

Product model XXX=X-axes working stroke	Motor Type	Continuous Force(N)	Peak Current(N)	Peak Force(Arms)	Continuous Current(Arms)	Repeatability(mm)
LMD-F22-T1-TL9-XXX-T0-RH	TL9	300	600	5	2.26	±0.005

■ Guide for Model Selection

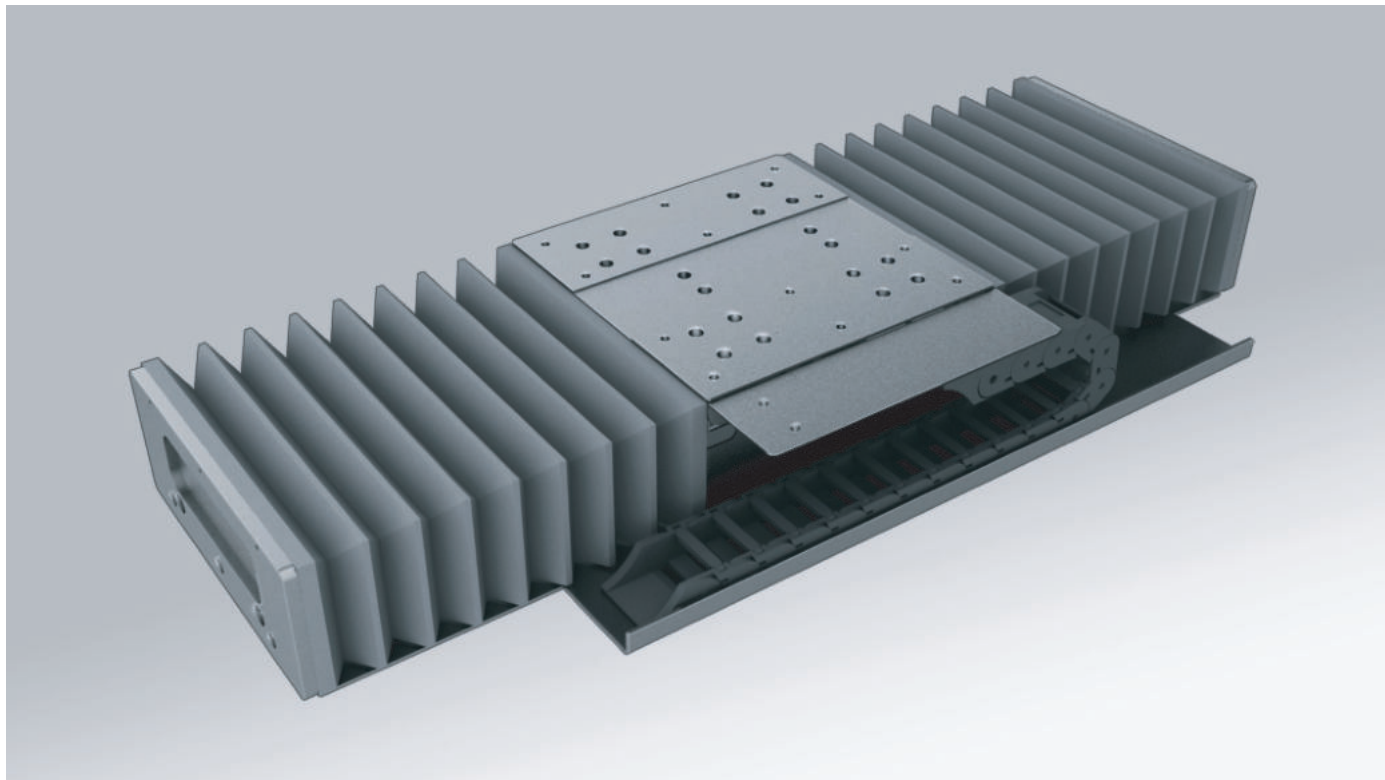
LMD - F22 - T 1 - TL9 - S350 - T 0 - RH+

Combination	Base Style	Platform Type	Axes number	Motor Type	Stroke(mm)	Resolution	Limit switch	Cable Chain
LMD Linear Motor Drive	F Semi-enclosed	T Iron Core Motor	1 1-axis	TL Series	150-3150(100-Interval)	T 10um	0 No	RH+ Horizontal right installation (Standard)
	T Fully-enclosed		2 2-axes		Special stroke customized	D 5um	1 Inductive	RH- Horizontal right installation (Opposite)
	22 Body width220					G 2um	2 Photoelectric switch	LH+ Horizontal left installation (Standard)
						X 1um		LH- Horizontal left installation (Opposite)
						N 0.4um		RV+ Vertical right installation (Standard)
						W 0.2um		RV- Vertical right installation (Opposite)
						Y 0.1um		LV+ Vertical left installation (Standard)
								LV- Vertical left installation (Opposite)

Technical drawing of the cable chain assembly showing dimensions: 230, 215, Pin hole TOL±0.02, 220, and a callout for Cable Chain.

Working Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	Rotor Weight
L	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	5.8kg
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	
N	16	16	20	20	24	24	28	28	32	32	36	36	40	40	44	44	48	48	52	52	
A	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160	
Weight KG	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	

LMD-T20-T1



■ Specification

Motor Type	TM
Repeatability(mm)	±0.005
Grating Resolution (mm)	±0.001
MaximumSpeed(mm/sec)	2500mm/s
Stroke(mm)	100-1000

Product model XXX=X-axes working stroke	Motor Type	Continuous Force(N)	Peak Current(N)	Peak Force(Arms)	Continuous Current(Arms)	Repeatability(mm)
LMD-T20-T1-TM6-XXX-T0-RH	TM6	120	210	6.2	3	±0.005

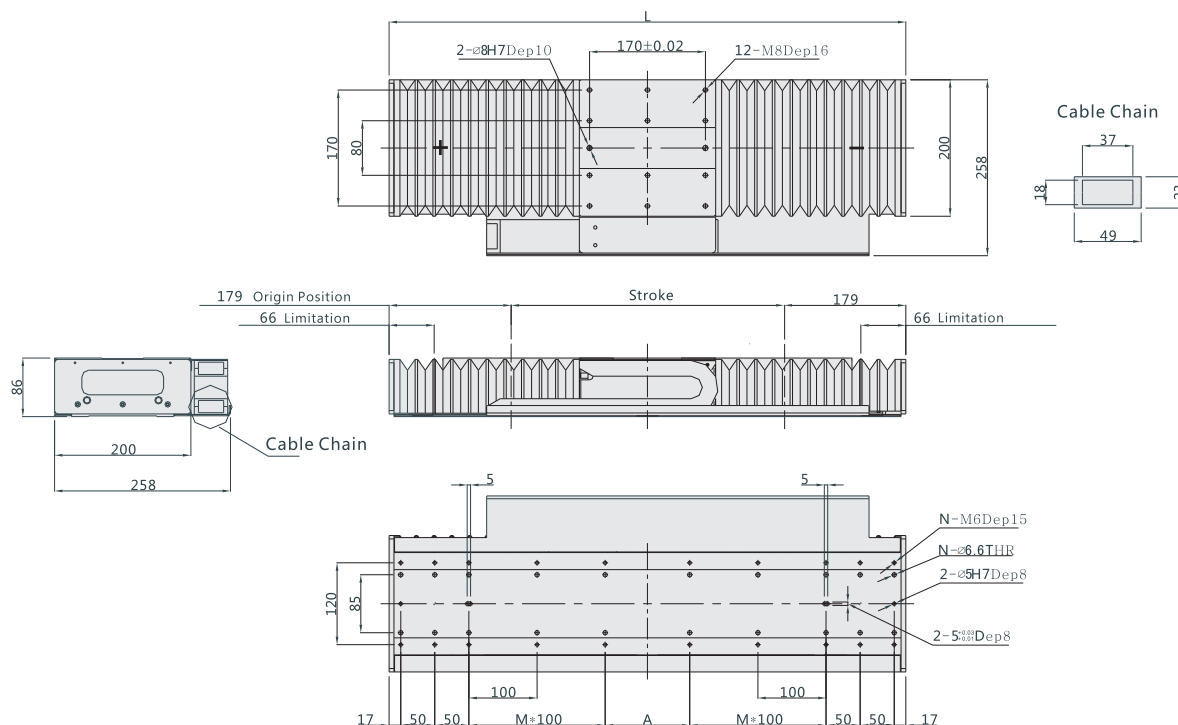
Note: Repeatability depends on grating resolution.

■ Guide for Model Selection

LMD - T20 - T 1 - TM6 - S300 - T0 - RH+

Combination	Base Style	Platform Type	Axes number	Motor Type	Stroke(mm)	Resolution	Limit switch	Cable Chain
LMD Tecnotion	F Semi enclosed T Fully-enclosed 20 Body width200	T Iron Core Motor	1 1-axis 2 2-axes	TM Series	100-1000(100-Interval) Special stroke customized	T 10um D 5um G 2um X 1um N 0.4um W 0.2um Y 0.1um	0 No 1 Inductive 2 Photoelectric switch	RH+ Horizontal right installation (Standard) RH- Horizontal right installation (Opposite) LH+ Horizontal left installation (Standard) LH- Horizontal left installation (Opposite) RV+ Vertical right installation (Standard) RV- Vertical right installation (Opposite) LV+ Vertical left installation (Standard) LV- Vertical left installation (Opposite)

Unit (mm)

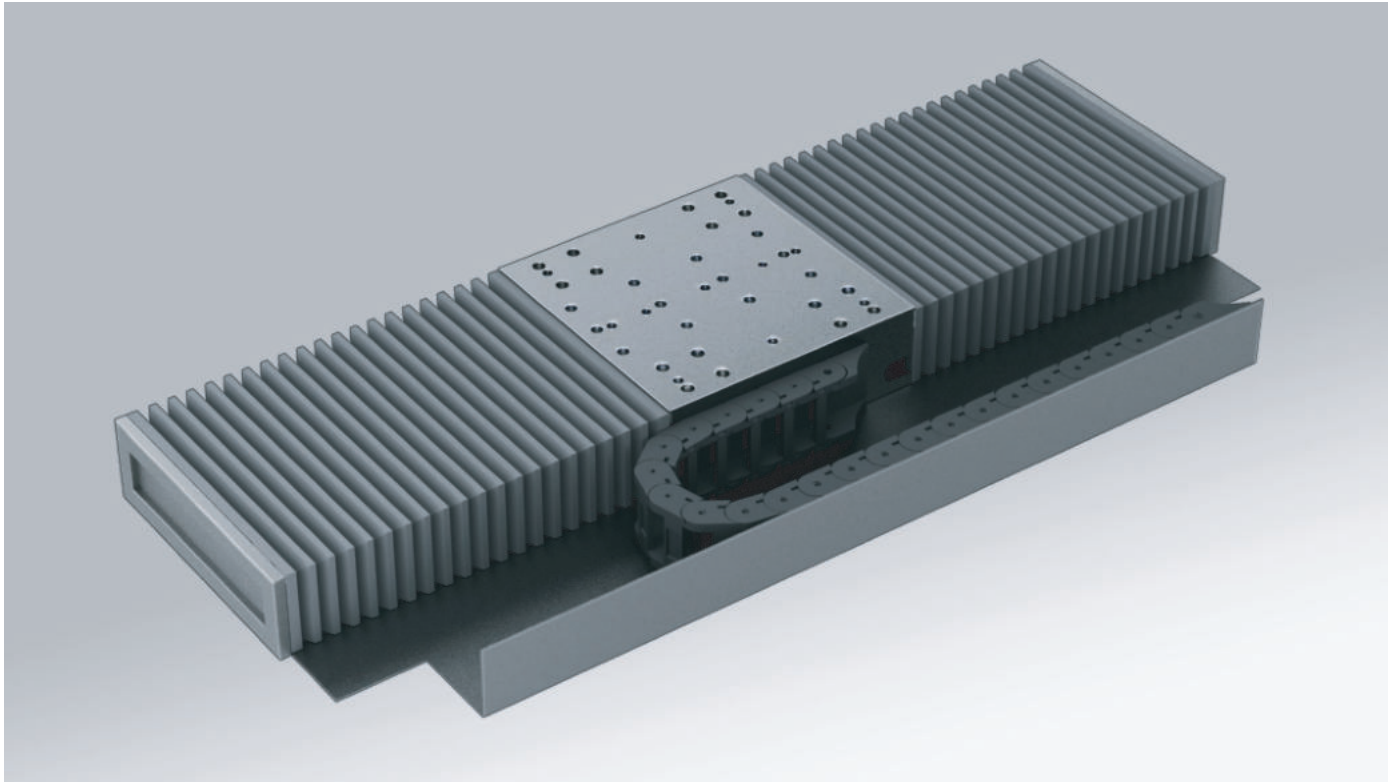


Note: Not including motor weight.

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Rotor Weight
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	3kg
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	
N	12	16	16	16	16	20	20	20	20	24	24	24	24	28	28	28	28	32	32	
A	224	74	124	174	224	74	124	174	224	74	124	174	224	74	124	174	224	74	124	
Weight KG	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	

*In case special stroke please contact technical services.

LMD-T28-T1



■ Specification

Motor Type	TB
Repeatability(mm)	±0.005
Grating Resolution (mm)	±0.001
MaximumSpeed(mm/sec)	3000mm/s
Stroke(mm)	100-1000

Product model XXX=X-axes working stroke	Motor Type	Continuous Force(N)	Peak Current(N)	Peak Force(Arms)	Continuous Current(Arms)	Repeatability(mm)
LMD-T28-T1-TB12-XXX-T0-RH	TB12	760	1600	10	4.1	±0.005

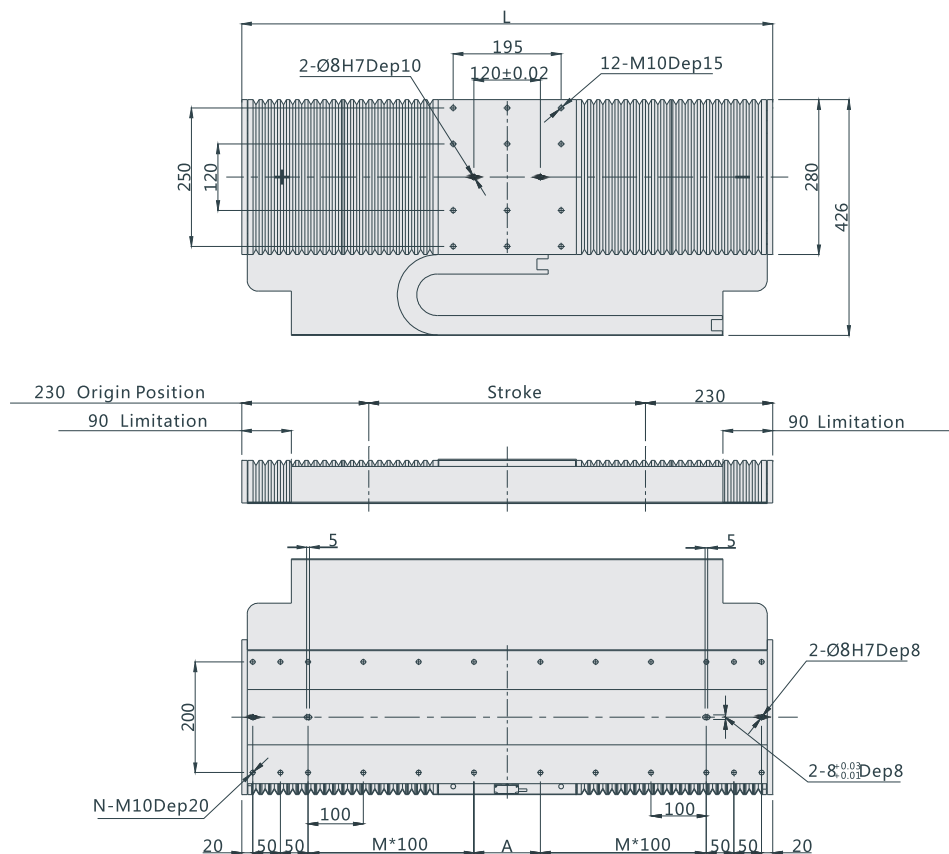
Note: Repeatability depends on grating resolution.

■ Guide for Model Selection

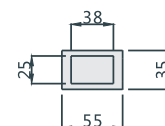
LMD - T28 - T 1 - TB12 - S300 - T 0 - RH+

Combination	Base Style	Platform Type	Axes number	Motor Type	Stroke(mm)	Resolution	Limit switch	Cable Chain
LMD Linear Motor Drive	F Semi enclosed T Fully-enclosed 28 Body width280	T Iron Core Motor	1 1-axis 2 2-axes	TB Series	100-1000(100-Interval) Special stroke customized	T 10um D 5um G 2um X 1um N 0.4um W 0.2um Y 0.1um	0 No 1 Inductive 2 Photoelectric switch	RH+ Horizontal right installation (Standard) RH- Horizontal right installation (Opposite) LH+ Horizontal left installation (Standard) LH- Horizontal left installation (Opposite) RV+ Vertical right installation (Standard) RV- Vertical right installation (Opposite) LV+ Vertical left installation (Standard) LV- Vertical left installation (Opposite)

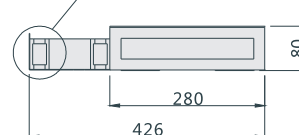
Unit (mm)



Cable Chain



Cable Chain

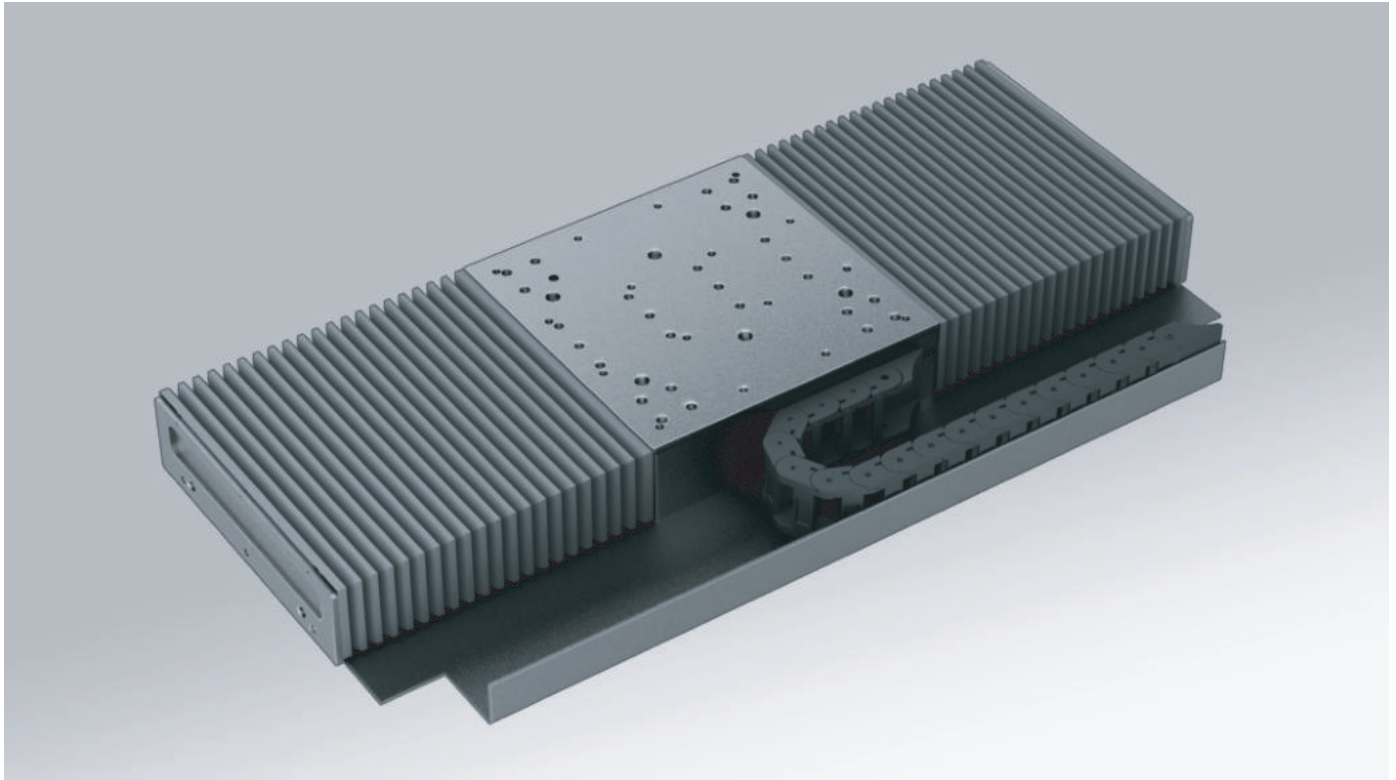


Note: Not including motor weight.

Working Stroke	100	200	300	400	500	600	700	800	900	1000	Rotor Weight
L	560	660	760	860	960	1060	1160	1260	1360	1460	12.2kg
M	1	1	2	2	3	3	4	4	5	5	
N	16	16	20	20	24	24	28	28	32	32	
A	120	220	120	220	120	220	120	220	120	220	
Weight KG	50	55	60	65	70	75	80	85	90	95	

*In case special stroke please contact technical services.

LMD-T35-T1



■ Specification

Motor Type	TBW
Repeatability(mm)	±0.005
Grating Resolution (mm)	±0.001
MaximumSpeed(mm/sec)	3000mm/s
Stroke(mm)	100-800

Product model XXX=X-axes working stroke	Motor Type	Continuous Force(N)	Peak Current(N)	Peak Force(Arms)	Continuous Current(Arms)	Repeatability(mm)
LMD-T35-T1-TBW18-XXX-T0-RH	TBW18	1140	2400	15.0	6.5	±0.005

Note: Repeatability depends on grating resolution.

■ Guide for Model Selection

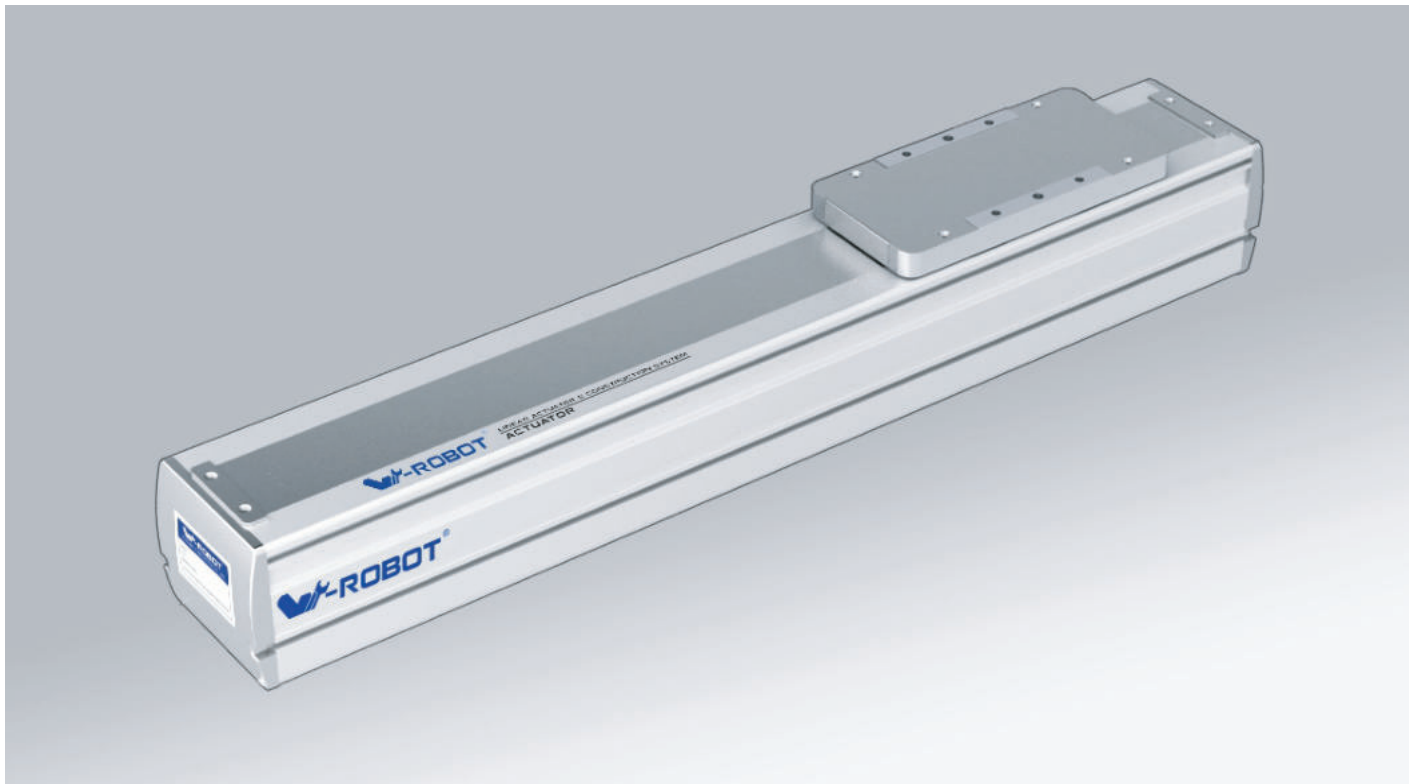
LMD - T35 - T 1 - TBW18 - S300 - T0 - RH+

Combination	Base Style	Platform Type	Axes number	Motor Type	Stroke(mm)	Resolution	Limit switch	Cable Chain
LMD Linear Motor Drive	F Semi enclosed T Fully-enclosed 35 Body width350	T Iron Core Motor	1 1-axis 2 2-axes	TBW Series	100-800(100-Interval) Special stroke customized	T 10um D 5um G 2um X 1um N 0.4um W 0.2um Y 0.1um	0 No 1 Inductive 2 Photoelectric switch	RH+ Horizontal right installation (Standard) RH- Horizontal right installation (Opposite) LH+ Horizontal left installation (Standard) LH- Horizontal left installation (Opposite) RV+ Vertical right installation (Standard) RV- Vertical right installation (Opposite) LV+ Vertical left installation (Standard) LV- Vertical left installation (Opposite)



Working Stroke	100	200	300	400	500	600	700	800	Rotor Weight
L	642	742	842	942	1042	1142	1242	1342	32.3kg
M	1	2	2	3	3	4	4	5	
N	16	20	20	24	24	28	28	32	
A	178	78	178	78	178	78	178	78	
Weight KG	66	72	78	84	90	96	102	108	

*In case special stroke please contact technical services.



■ Cable set installation

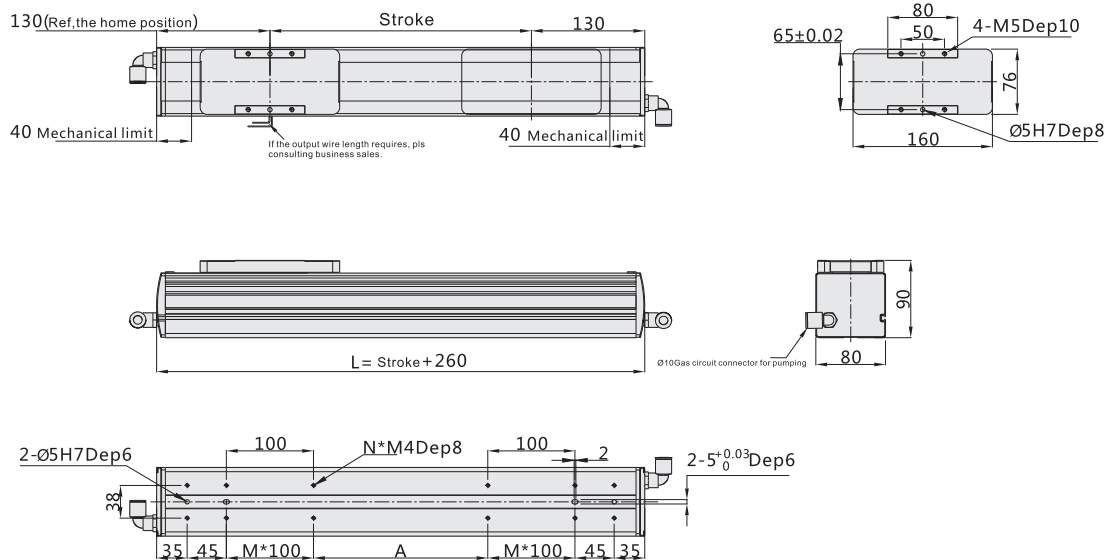


■ Guide for Model Selection

LT 8 - T16 - S500 - R1 1 -

Qty. of the active cell		Motor Type		Body Width		Model of active cell		Stroke		Resolution of the magnetic read head		Limit Sensor		Cable Chain	
None	Single active cell	LT	Tubular and iron core linear motion	8	Body Width 80mm	T16	Tubular and iron core motor model	100-800		R1	1um	0	None	LV+	Vertical left installation (Standard)
2	Double active cells									R2	2um	1	Photoelectric switch	LV-	Vertical left installation (Opposite)
										R5	5um			LH+	Horizontal left installation (Standard)
										R10	10um			LH-	Horizontal left installation (Opposite)
														None	Without

Unit (mm)

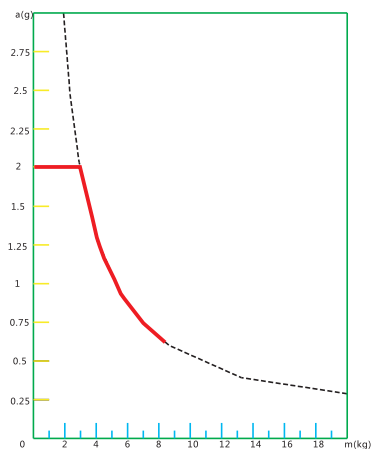


Note: Not including motor weight.

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
M	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	10	12	12	12	12	16	16	16	16	20	20	20	20	24	24
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100
Weight KG	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2

*In case special stroke please contact technical services.

Standard configuration	Specifications
Continuous Force	26
Peak Current	78
Continuous Current	1.4
Peak Force (A)	4.2
Max. acceleration (m/s/s)	20
Maximum Speed (m/s)	1.5
Dividing rule (um)	Magnetic type: resolution1
Repeatability (mm)	0.01
Position accuracy (mm)	0.03 Exclude error compensation
Linear Guide	42x9.5-1



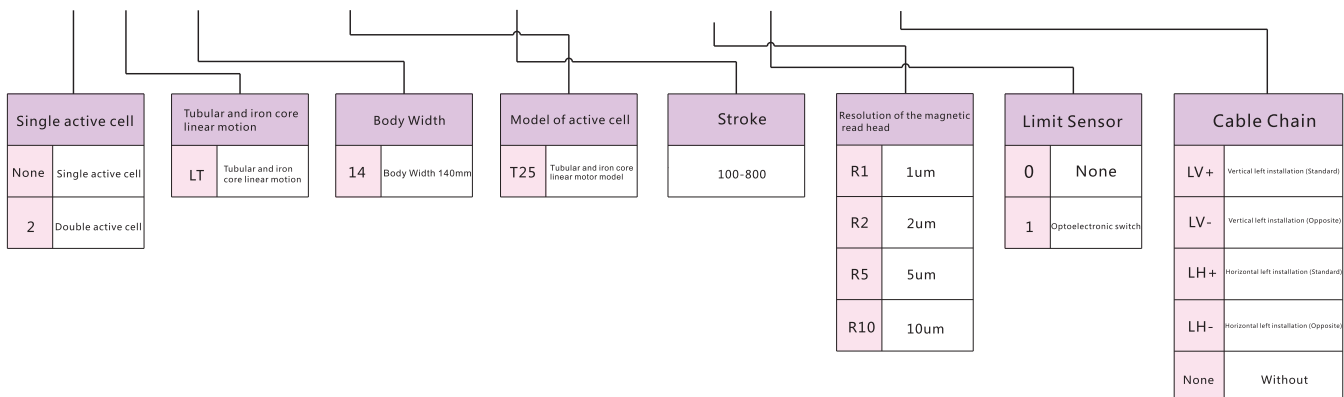


■ Cable sets installation

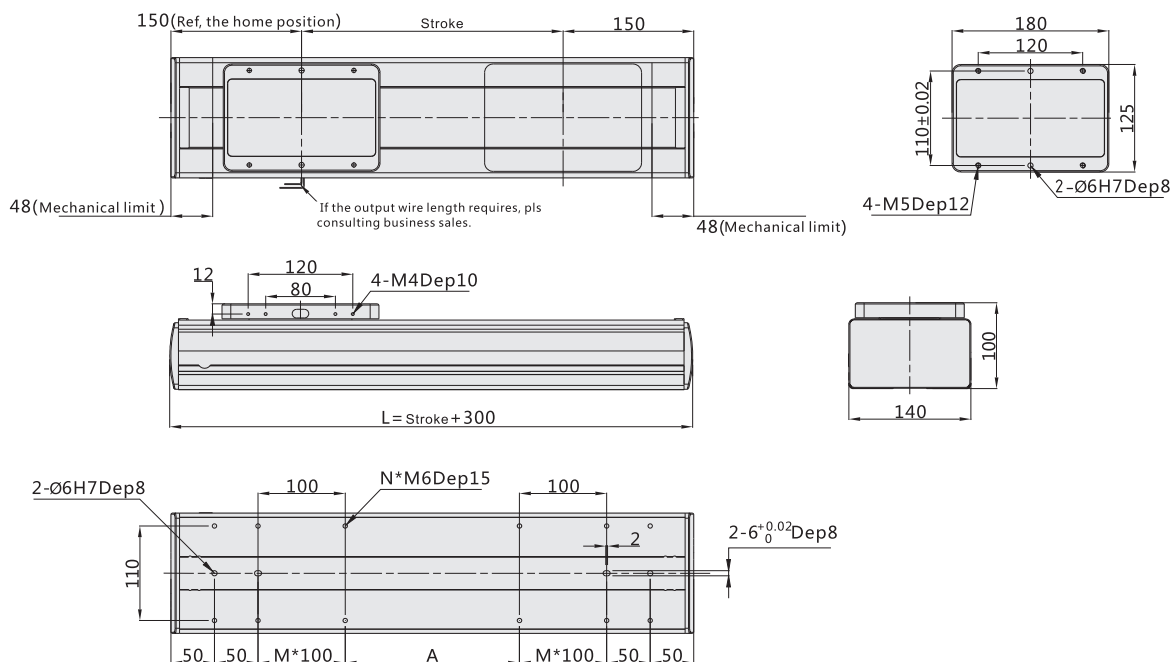


■ Guide for Model Selection

LT 14 - T25 - S500 - R1 1 -



Unit (mm)

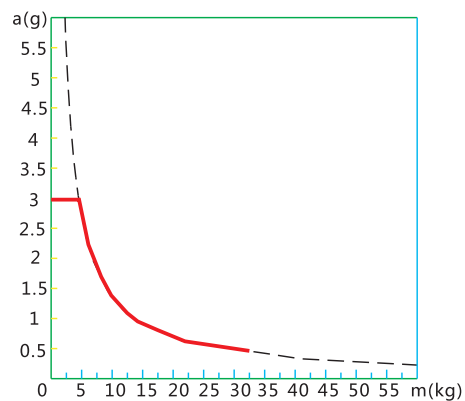


Note: Not including motor weight.

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
M	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	10	12	12	12	12	16	16	16	16	20	20	20	20	24	24	24	24	28	28	28	28
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
Weight KG	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1

*In case special stroke please contact technical services.

Standard configuration	Specifications
Continuous Force (N)	67.5
Peak Current (N)	202.5
Continuous Current (A)	2.5
Peak Force (A)	7.5
Max. acceleration (m/s/s)	30
Maximum Speed (m/s)	2
Dividing rule (um)	Magnetic type: resolution1
Repeatability (mm)	0.01
Position accuracy (mm)	0.03(After error compensation)
Linear guide rail	15x12.5-2





■ Cable set installations

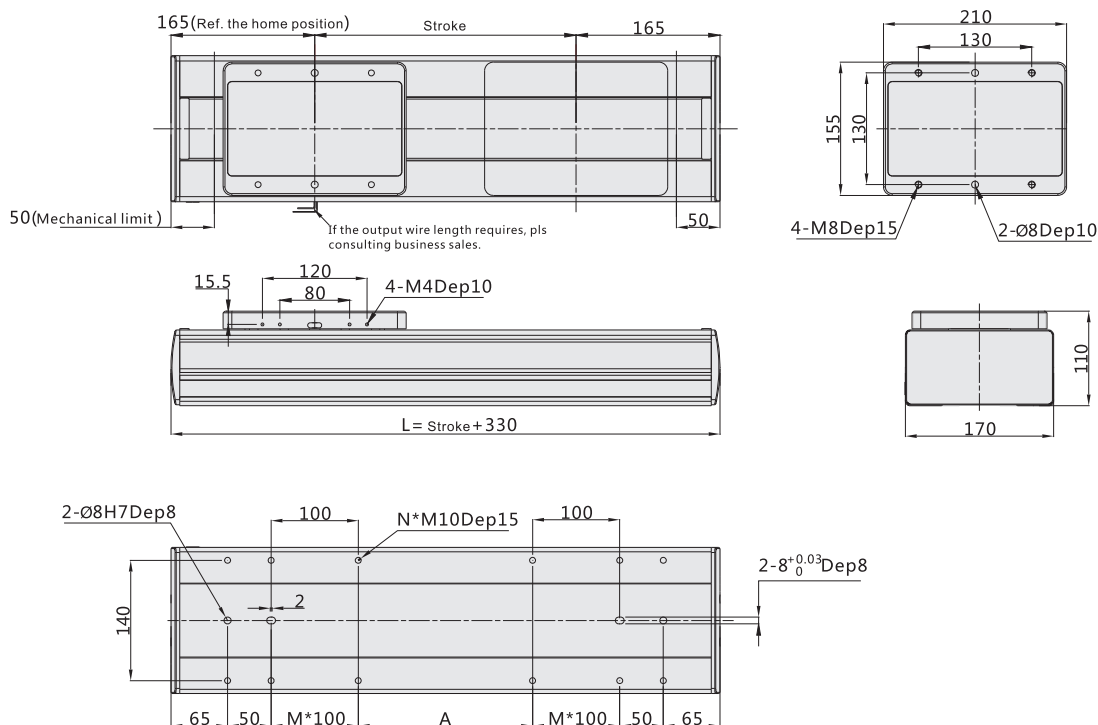


■ Guide for Model Selection

LT 17 - T32 - S500 - R1 1 -

Qty. single active cell		Motor Type		Body Width		Model of active cell		Stroke		Resolution of the magnetic read head		Limit Sensor		Cable Chain	
None	Single active cell	LT	Tubular and iron core linear motion	17	Body Width 170mm	T32	Tubular and iron core motor model	100-800		R1	1um	0	None	LV+	Vertical left installation (Standard)
2	Double active cell									R2	2um	1	Photoelectric switch	LV-	Vertical left installation (Opposite)
										R5	5um			LH+	Horizontal left installation (Standard)
										R10	10um			LH-	Horizontal left installation (Opposite)
														None	Without

Unit (mm)

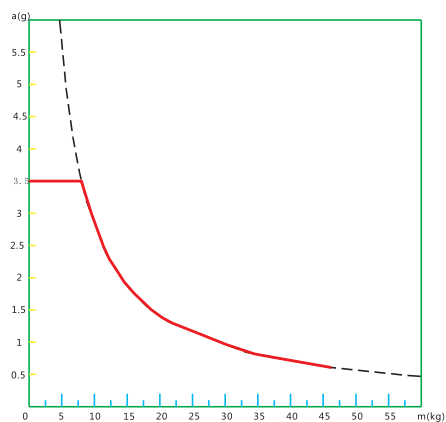


Note: Not including motor weight.

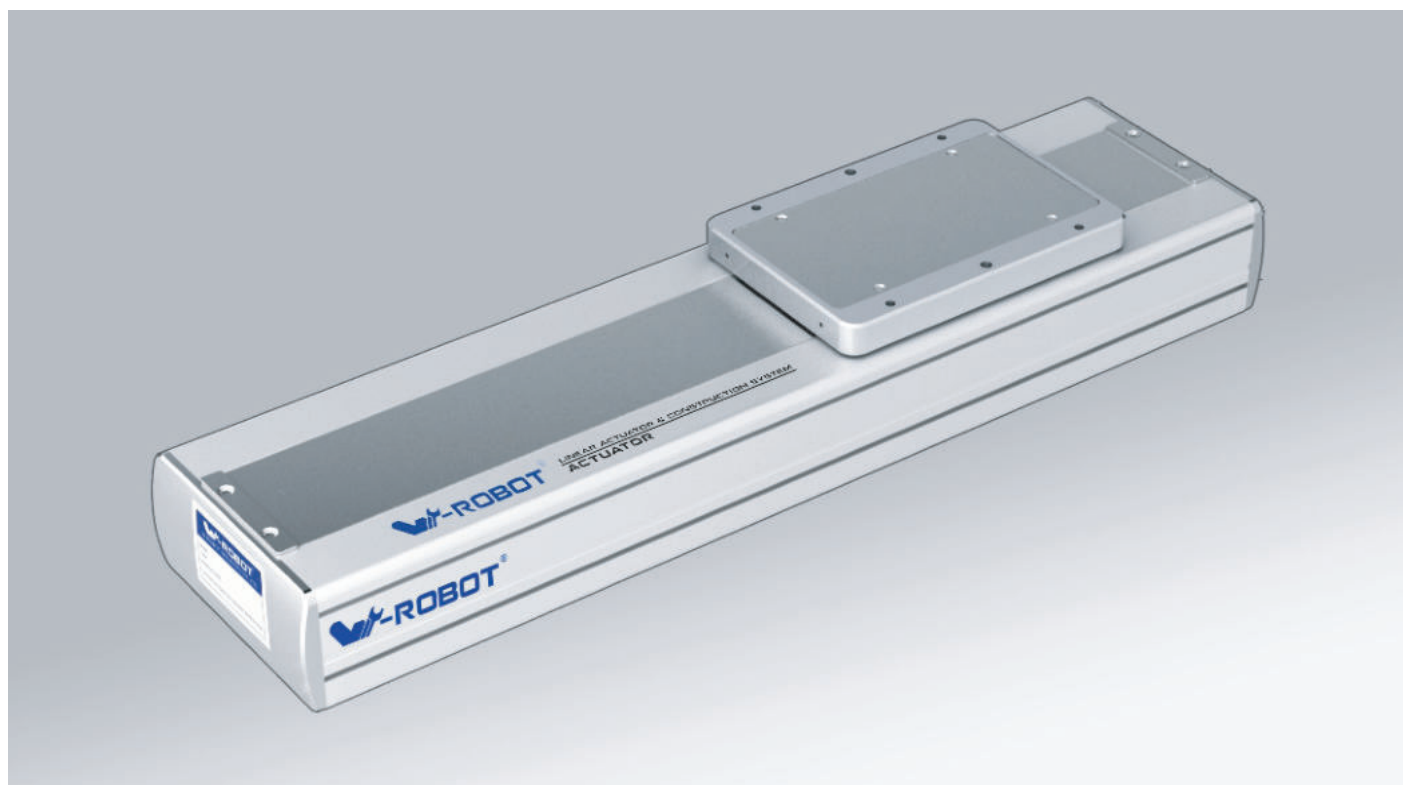
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430
M	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	10	12	12	12	12	16	16	16	16	20	20	20	20	24	24	24	24	28	28	28	28
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
Weight KG	11.9	12.5	13.1	13.7	14.3	14.9	15.5	16.1	16.7	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

*In case special stroke please contact technical services.

Standard configuration	Specifications
Continuous Force (N)	420
Peak Current (N)	140
Continuous Current (A)	2.5
Peak Force (A)	7.5
Max. acceleration (m/s/s)	30
Maximum Speed (m/s)	2
Dividing rule (um)	Magnetic type: resolution1
Repeatability (mm)	0.01
Position accuracy (mm)	0.03(After error compensation)
Linear guide rail	15x12.5-2



LC14



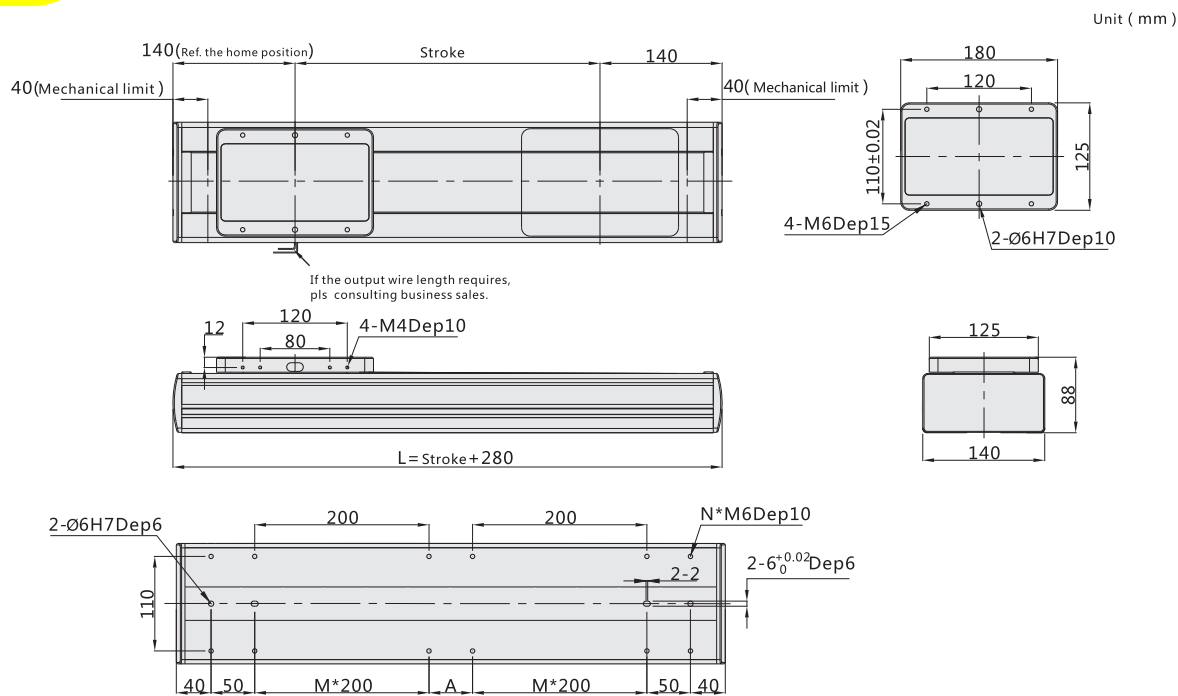
■ Cable set installation



■ Guide for Model Selection

LC 14 - W6 - S500 - R1 1 -

Qty. single active cell		Motor Type		Body Width		Model of the active cell		Stroke		Resolution of the magnetic read head		Limit Sensor		Cable Chain	
None	Single active cell	LC	Tubular and iron core linear motion	14	Body Width 140	W6	Tubular and iron core motor model	100-2000		R1	1um	0	None	LV+	Vertical left installation (Standard)
2	Double active cell									R2	2um	1	Photoelectric switch	LV-	Vertical left installation (Opposite)
										R5	5um			LH+	Horizontal left installation (Standard)
										R10	10um			LH-	Horizontal left installation (Opposite)
														None	Without

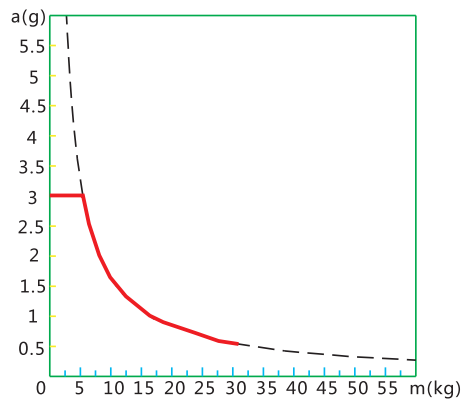


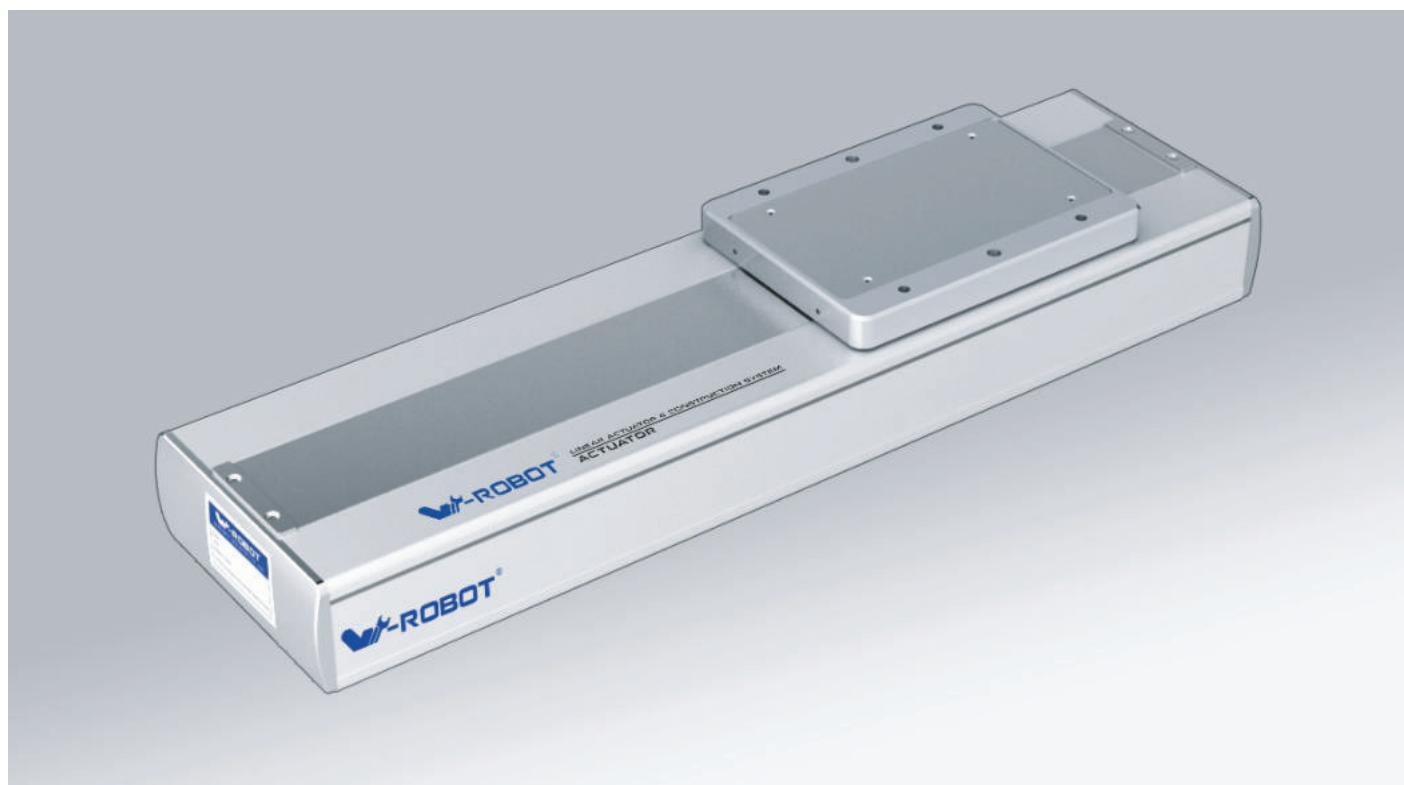
Note: Not including motor weight.

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	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	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	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230	2280
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5
N	8	8	8	8	10	12	12	12	12	12	12	12	14	16	16	16	16	16	16	16	18	20	20	20	20	20	20	20	22	24	24	24	24	24	24	24	26	28	28
A	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100
Weight KG	10.1	10.5	10.9	11.3	11.7	12.1	12.5	12.9	13.3	13.7	14.1	14.5	14.9	15.3	15.7	16.1	16.5	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.7	20.1	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5	24.9	25.3

*In case special stroke please contact technical services.

Standard configuration	Specifications
Continuous Force (N)	120
Peak Current (N)	240
Continuous Current (A)	8.2
Peak Force (A)	3
Max. acceleration (m/s/s)	30
Maximum Speed (m/s)	2
Dividing rule (um)	Magnetic type: resolution 1
Repeatability (mm)	0.01
Position accuracy (mm)	0.03(After error compensation)
Linear guide rail	15x12.5-2





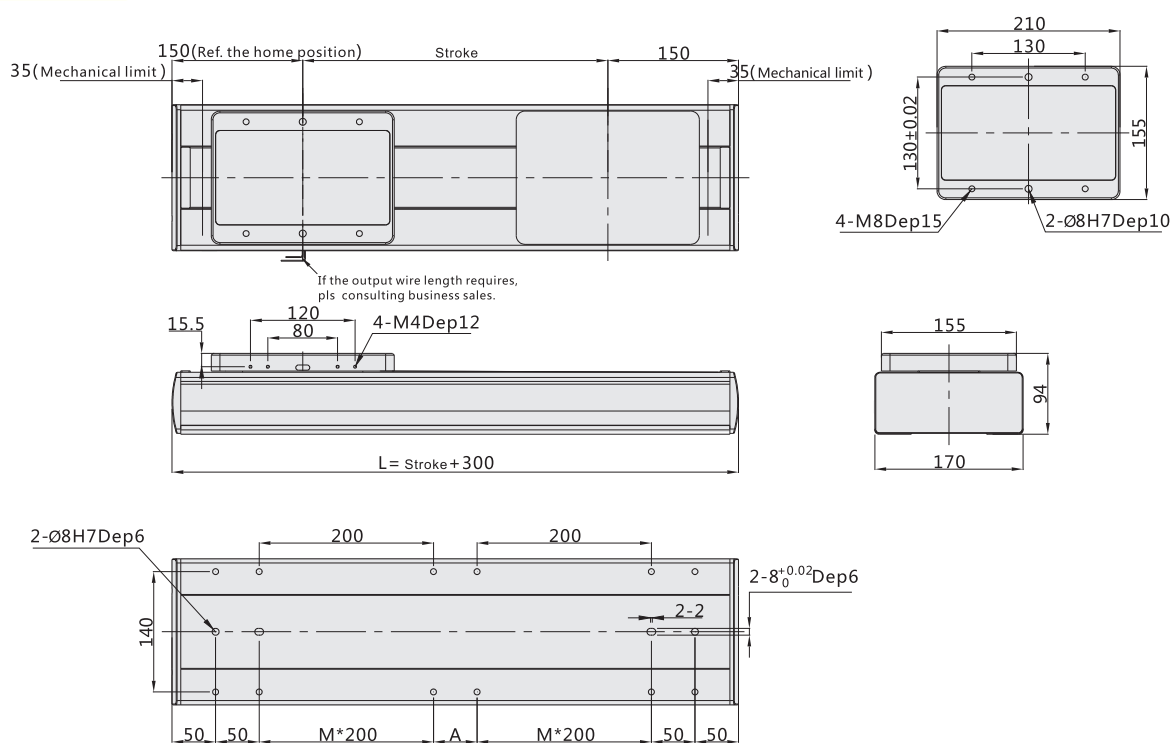
■ Cable set installation



■ Guide for Model Selection

LC 17 - W8 - S500 - R10 -

Qty. single active cell		Motor Type		Body Width		Model of the active cell		Stroke		Resolution of the magnetic read head		Limit Sensor		Cable Chain	
None	Single active cell	LC	Tubular and iron core linear motion	17	Body Width 170	W8	Tubular and iron core motor model	100-2000		R1	1um	0	No	LV+	Vertical left installation (Standard)
2	Double cell									R2	2um	1	Photoelectric switch	LV-	Vertical left installation (Opposite)
										R5	5um			LH+	Horizontal left installation (Standard)
										R10	10um			LH-	Horizontal left installation (Opposite)
														None	Without

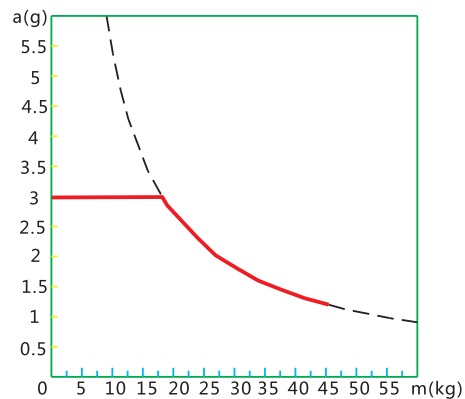


Note: Not including motor weight.

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	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	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	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	
N	8	8	8	8	10	12	12	12	12	12	12	12	14	16	16	16	16	16	16	16	18	20	20	20	20	20	20	20	20	22	24	24	24	24	24	24	24	26	28	28
A	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	
Weight KG	13.6	14	14.4	14.8	15.2	15.6	16	16.4	16.8	17.2	17.6	18	18.4	18.8	19.2	19.6	20	20.4	20.8	21.2	21.6	22	22.4	22.8	23.2	23.6	24	24.4	24.6	25	25.4	25.8	26.2	26.6	27	27.4	27.8	28.2	28.6	

*In case special stroke please contact technical services.

Standard configuration	Specifications
Continuous Force (N)	230
Peak Current (N)	812
Continuous Current (A)	2.7
Peak Force (A)	12
Max. acceleration (m/s/s)	30
Maximum Speed (m/s)	2
Dividing rule (um)	Magnetic type: resolution1
Repeatability (mm)	0.01
Position accuracy (mm)	0.03(After error compensation)
Linear guide rail	15x12.5-2



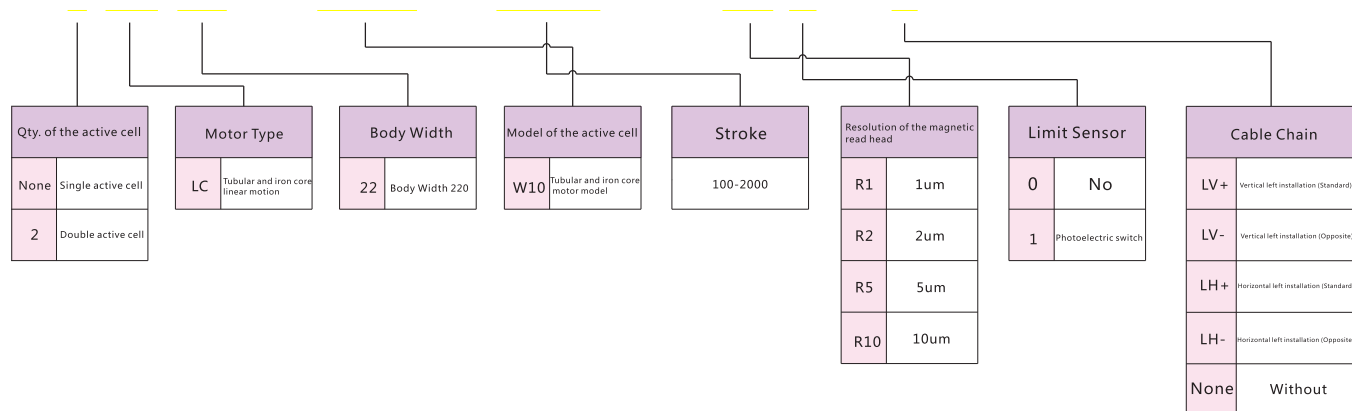


■ Cable set installation

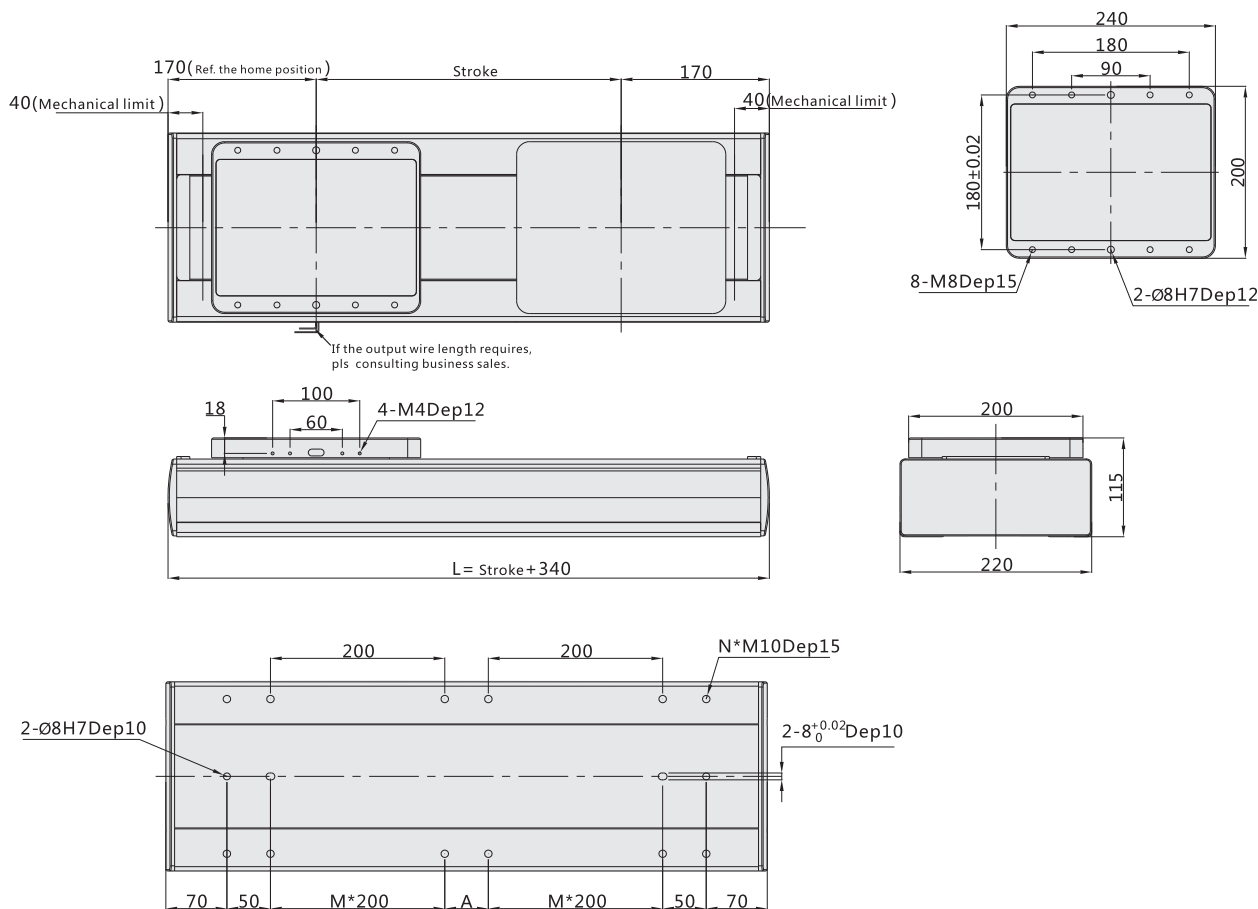


■ Guide for Model Selection

LC 22 - W10 - S500 - R1 0 -



Unit (mm)

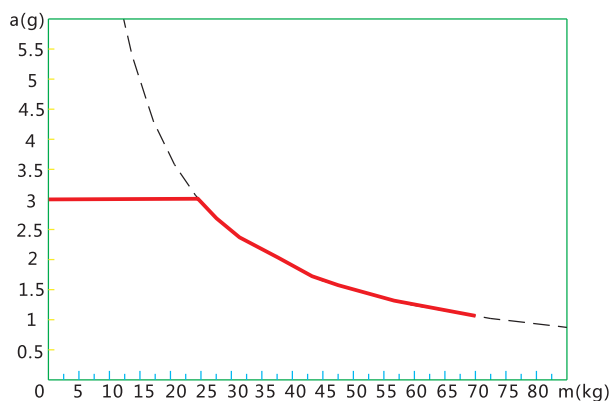


Note: Not including motor weight.

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	1600	1650	1700	1750	1800	1850	1900	1950	2000
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	1940	1990	2040	2090	2140	2190	2240	2290	2340
M	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5
N	8	8	8	8	10	12	12	12	12	12	12	12	14	16	16	16	16	16	16	16	18	20	20	20	20	20	20	20	22	24	24	24	24	24	24	24	26	28	28
A	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100
Weight KG	22.6	23.7	24.8	25.9	27	28.1	29.2	30.3	31.4	32.5	33.6	34.7	35.8	36.9	38	39.1	40.2	41.3	42.4	43.5	44.6	45.7	46.8	47.9	49	50.1	51.2	52.3	53.4	54.5	55.6	56.7	57.8	58.9	61	62.1	63.2	64.3	65.4

*In case special stroke please contact technical services.

Standard configuration	Specifications
Continuous Force (N)	300
Peak Current (N)	1110
Continuous Current (A)	2.6
Peak Force (A)	12
Max. acceleration (m/s/s)	30
Maximum Speed (m/s)	2
Dividing rule (um)	Magnetic type: resolution1
Repeatability (mm)	0.01
Position accuracy (mm)	0.03(After error compensation)
Linear guide rail	20x18-2



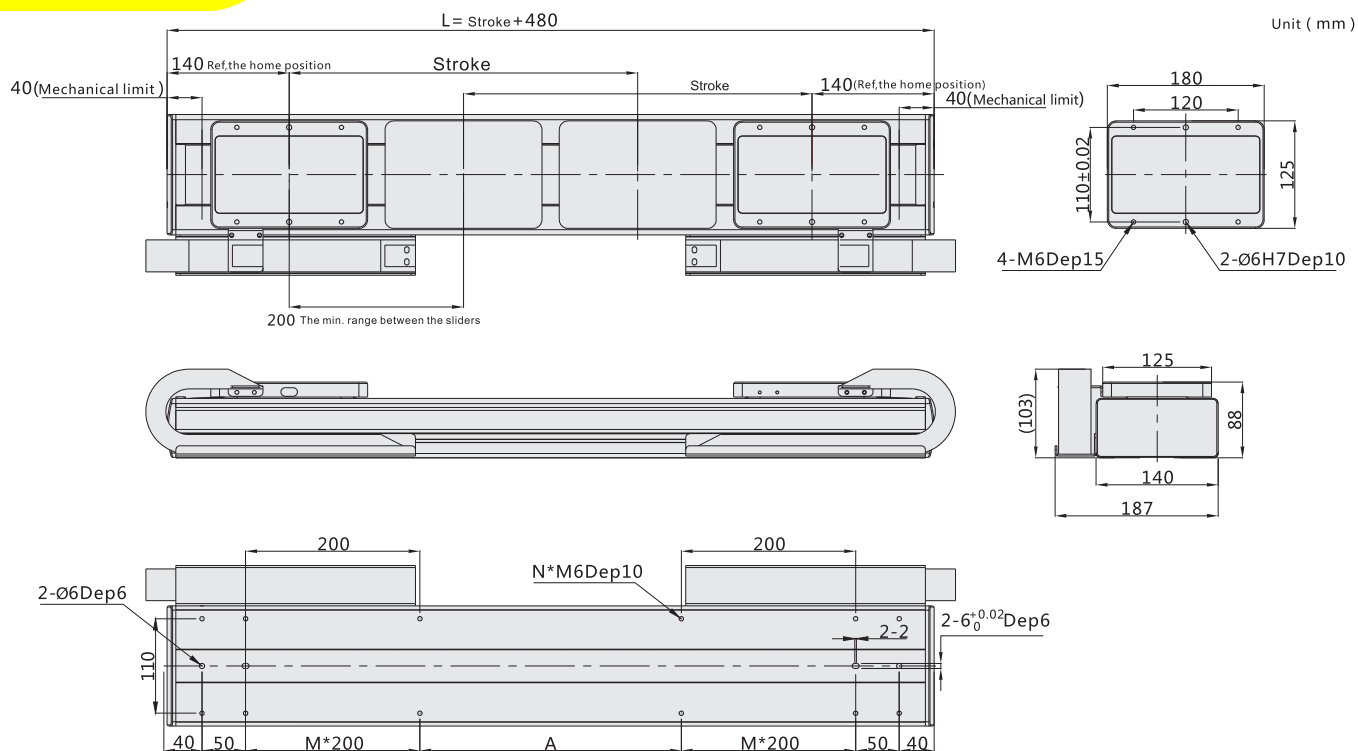
2LC14



■ Guide for Model Selection

2 LC 14 - W6 - S500 - R1 1 -

Qty. of the active cell		Motor Type		Body Width		Model of the active cell		Stroke	Resolution of the magnetic read head		Limit Sensor		Cable Chain	
None	Single active cell	LC	Tubular and iron core linear motion	14	Body Width 140	W6	Tubular and iron core motor model	100-2000	R1	1um	0	No	LV+	Vertical left installation (Standard)
2	Double active cell								R2	2um	1	Photoelectric switch	LV-	Vertical left installation (Opposite)
									R5	5um			LH+	Horizontal left installation (Standard)
									R10	10um			LH-	Horizontal left installation (Opposite)
													None	Without

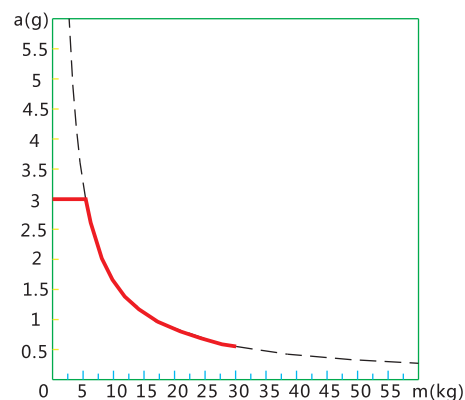


Note: Not including motor weight.

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	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	580	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	1980	2030	2080	2130	2180	2230	2280	2330	2380	2430	2480
M	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
N	10	12	12	12	12	12	12	12	14	16	16	16	16	16	16	16	18	20	20	20	20	20	20	20	22	24	24	24	24	24	24	24	26	28	28	28	28	28	28
A	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300	350	0	50	100	150	200	250	300
Weight KG	13.4	13.8	14.2	14.6	15	15.4	15.8	16.2	16.6	17	17.4	17.8	18.2	18.6	19	19.4	19.8	20.2	20.6	21	21.4	21.8	22.2	22.6	23	23.4	23.8	24.2	24.6	25	25.4	25.8	26.2	26.6	30	30.4	30.8	31.2	31.6

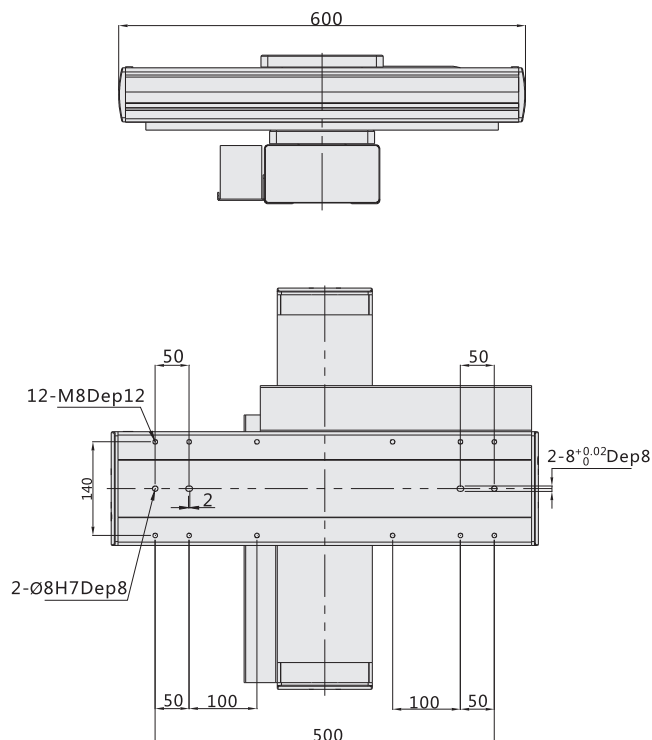
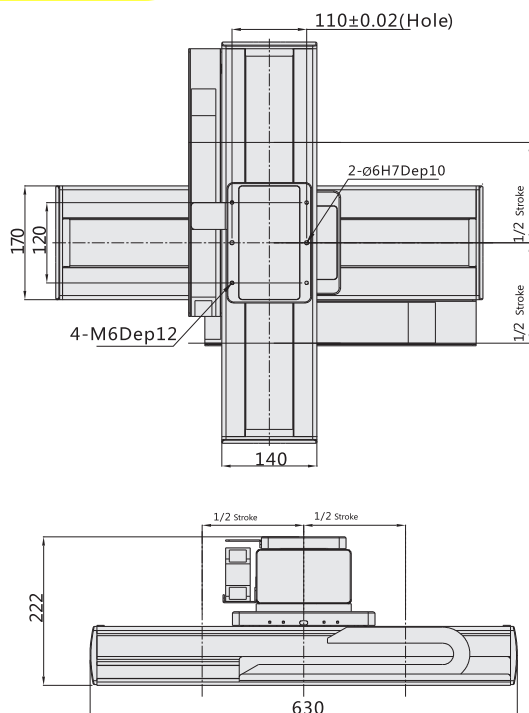
*In case special stroke please contact technical services.

Standard configuration	Specifications
Continuous Force (N)	120
Peak Current (N)	240
Continuous Current (A)	8.2
Peak Force (A)	3
Max. acceleration (m/s/s)	30
Maximum Speed (m/s)	2
Dividing rule (um)	Magnetic type: resolution1
Repeatability (mm)	0.01
Position accuracy (mm)	0.03(After error compensation)
Linear guide rail	15x12.5-2



LT76

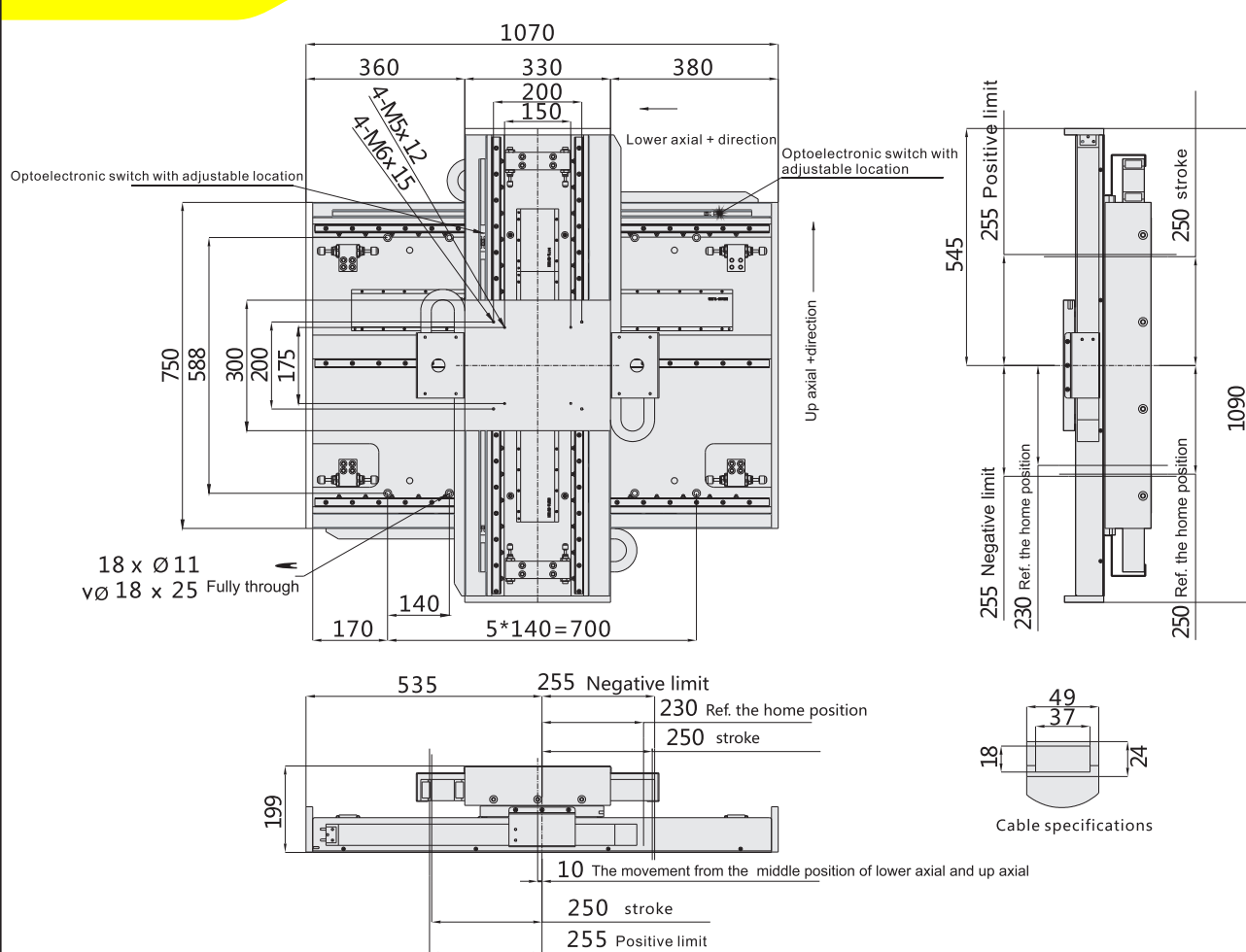
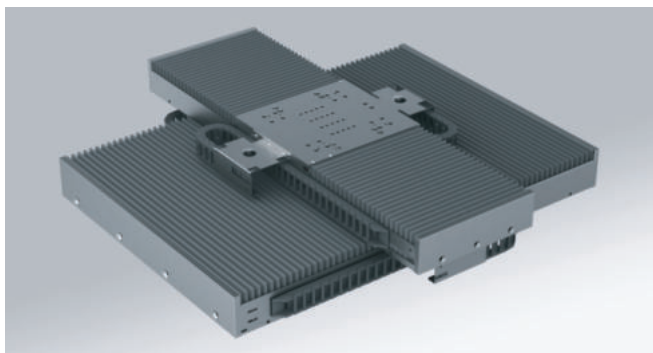
linear motor (desktop type)



Technical specifications

Table model :	LT76XY-T3225-300x300		
Peak Current(N)	Up axial : 202 lower shaft : 420	Repeatability (mm)	±0.01
Continuous Force(N)	Up axial : 67 lower shaft : 140	Position accuracy (mm)	±0.03(After error compensation)
Stroke	Up axial : 300 lower shaft : 300	Limit switch	Photoelectric switch
Max. acceleration (m/s/s)	8	Facade	Ecru oxidation electrophoresis and glaze
Maximum Speed (m/s)	0.8	Base seat material	Alufer
Rated Payload (kg)	15	Installation Way	Horizontal
Encoder (um)	Magnetic type: resolution1	Table weight (kg)	40kg

Remark: if customization requires,pls contact us directly.



Technical specifications

Model of the table :	LMDTXY-IGE186-IGE268-S500-S500-Y20		
Peak Current(N)	Up axial:1110 lower shaft:1700	Repeatability(mm)	±0.075
Continuous Force(N)	Up axial:300 lower shaft:435	Position accuracy(mm)	±0.03After error compensation
Stroke(mm)	Up axial:500 lower shaft:500	Limit switch	Photoelectric switch
Max. acceleration (m/s/s)	12	Facade	Black anode
Maximum Speed (m/s)	0.8	Base seat material	Alufer
Rated Payload (kg)	45	Installation Way	Horizontal
Encoder (um)	grating ruler:0.1	Table weight(kg)	(160)

Remark: if customization requires,pls contact us directly.

Appendix A : Technical terms

- 1、 Peak Thrust F_p (N)
The max. force that motor can generate within one second , generally used for acceleration or deceleration.
- 2、 Continuous Thrust F_c (N)
The force that motor can generate with continuous current by which 100% load factor is charged to motor coil.
- 3、 Peak Current I_p (A)
The maximum current that can be input to motor coil within one second.
- 4、 Continuous Current I_c (A)
The current that can generate continuous thrust, it can be continuously supplied to motor coil, generally, the temperature won't exceed 80°C when this current go through motor coil.
- 5、 Motor Force Constant K_f (N/A)
The thrust that unitary current can generate. This parameter multiplying current goes to thrust: $F=I \times K_f$; it reflects electromagnetic design result of motor
- 6、 Motor Constant K_m (N/ $\sqrt{W}$)
The ratio of motor thrust to the square root of power consumption, it synthetically reflects the electromagnetic design and thermal design level, stands for motor efficiency.
- 7、 Time Constant (ms)
which motor current reaches to 63% of target value , it's inductance to resistance ratio.
- 8、 Inductance (mH)
Inductance of motor three phase line to line, the lower inductance, the faster response motor can have
- 9、 Resistance (Ω)
Resistance of motor three phase line to line. Parallel coil can reduce resistance, inductance and back electromotive force, however, it will take two times of current to reach the same thrust. As far as copper line is concerned, coil temperature rises 1°C , resistance will increase by 0.393%.
- 10、 Thermal Resistance ($^{\circ}\text{C}/\text{W}$)
The raised temperature with moving coil consuming 1 watt energy, In general , lower thermal resistance means better radiating structure
- 11、 Magnetic Pitch (mm)
Distance between two identical polarities in a stator . E.g. S-S or N-N, driver need it together with resolution of feedback system to calculate motor electrical angle for vector control.
- 12、 Back Electromotive Force Constant (V/m/s)
The back electromotive force when motor running at 1m/s speed.
It occurs when coil inducing the magnetic field changing and resistance current going through.
- 13、 Resolution
The minimum distance that the position feedback system can measure
- 14、 Motion Resolution
The minimum distance that the position system can repeatably move. Influencing factor including : resolution of position feedback system and resolution of controller driver.

For the model selection of the linear motion motors, we require to ensure the working speed, stroke, payload and ect. to decision the motion rules and others parameters, which helps to count out the peak thrust, continuous thrust, peak current, continuous current. With above details the model can be soon selected.

Application symbol

Fp: peak thrust(N)
M: Mass(kg)
A: Accelerated speed(m/s²)
Ff: Friction torque(N)
Fc: continuous thrust(N)
Fa: Accelerating force(N)
Ta: The acceleration time(s)
Ft: Constant speed thrust(N)
Tc: The constant speed time(s)
Fd: Decelerative force(N)
Td: The slow time(s)
Fw: Reside force(N)
Tw: The resident time(s)
X: Stroke (m)
T: Traveling time(s)
V: Speed(m/s)
g: Acceleration of gravity(m/s²)
u: Friction factor
Ip: Electric current(A)
Ic: Continuous current(A)
Ie: Equivalent current(A)
Kf: Motor thrust constant (N/A)
Fe: The equivalent thrust(A)

Linear motion models selections cases:

If the movements parts total mass 8kg, stroke:500mm, motion time 0.5s, stay time 0.1s, friction factor 0.02, Then the final result can be calculate below:

$$V = 2 * X / T = 2 * 0.5 / 0.5 = 2 \text{ (m/s)}$$

$$A = 4 * X / T^2 = 4 * 0.5 / 0.5^2 = 8 \text{ (m/s}^2\text{)}$$

$$Fp = M * A + (M * g + Fa) * u = 8 * 8 + (8 * 10) * 0.02 = 64 + 1.6 = 65.6 \text{ (N)}$$

$$Fe = \sqrt{\frac{(64 + 1.6)^2 * 0.25 + (64 - 1.6)^2 * 0.25}{0.5 + 0.1}} = 58.44 \text{ (N)}$$

Above all, the elementary selection will be LC14 linear motion motor(The peak thrust 240N, continuous thrust 120N, constant thrust 39N/A, peak current 8.2A, Continuous current 3A), the drive current can be calculate following:

$$Ip = 65.6 / 39 = 1.7A < 8.2(A) \quad Ie = 58.44 / 27 = 1.5A < 3(A)$$

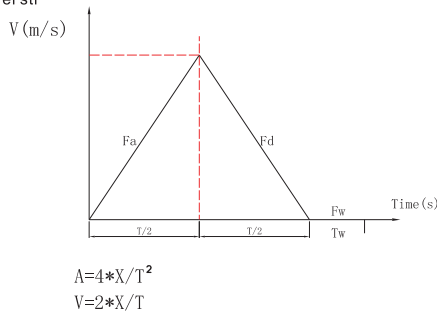
$$Ie / Ic = 1.5 / 3 = 50\% < 70\%$$

Final result calculate by the current, LC14 meet the requirement above.

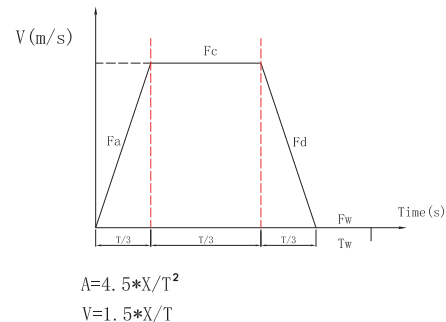
- The accelerated speed can be calculate according to the outline of the motion speed (Same way to calculate the decelerative force)

oke movement, can be using the 1/2-1/2 triangular trajectory.

(1) Short travel str



- Long travel stroke movement can be using the 1/3-1/3-1/3 Trapezoidal trajectory.



The accelerated speed catalucated by the first motion trajectory will less than the second motion trajectory. Usually the second motion trajectory requires larger motor force. The real motion trajectory can be selected by the actually requires.

2、Confirm the peak trust, the equivalent thrust

- The formula mode of the peak trusted :

$$Fp = M * A + (M * g + Fa) * u = Fa + Ff$$

- Formula mode of the equivalent thrust below:

$$Fe = \sqrt{\frac{(Fa + Ff)^2 * Ta + Ff^2 * Tc + (Fa - Ff)^2 * Td}{Ta + Tc + Td + Tw}}$$

The following peak current IP and equivalent thrust can be calculate as below formula mode:

$$Ip = Fp / Kf$$

$$Ie = Fe / Kf$$

When model selection the suitable motors, we require to consideration the specific value between Equivalent current and Continuous current. (you can check the motor specification tables), both specific value (Ie/Ic) are safety range under 0.7.

Multi-axis Actuator

VF2B20-A1



Maximum Stroke	X axis	950mm
	Y axis	350mm
Maximum Payload	5KG	 285
Body Width	VF8	80mm
	VF6	60mm

VF32B2-A1



Maximum Stroke	X axis	950mm
	Y axis	350mm
	Z axis	300mm
Maximum Payload	5KG	 287
Body Width	VF10	100mm
	VF8	80mm
	VF6	60mm

VF432B-A1



Maximum Stroke	X axis	1100mm
	Y axis	500mm
	Z axis	350mm
Maximum Payload	6KG	 289
Body Width	VF12	120mm
	VF10	100mm
	VF8	80mm

VF643-A1



Maximum Stroke	X axis	1200mm
	Y axis	550mm
	Z axis	350mm
Maximum Payload	12KG	 291
Body Width	VF14	140mm
	VF12	120mm
	VF10	100mm

VF746-A1



Maximum Stroke	X axis	1200mm
	Y axis	600mm
	Z axis	350mm
Maximum Payload	16KG	 293
Body Width	VF17	170mm
	VF14	140mm
	VF12	120mm



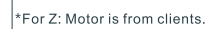
■ Maximum Stroke

X axis	200W
Y axis	100W

Maximum Payload

Y Stroke	100	150	200	250	300	350
Y Stoke Payload	5	4	3.5	3	2.5	2

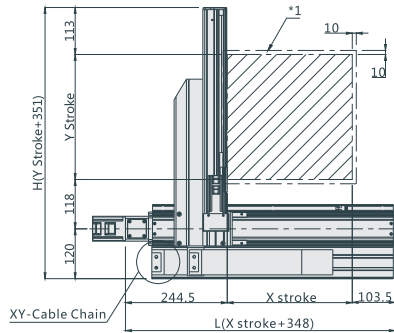
VF2B20 - A 1 - 300 BC - 300 BR - P - C -



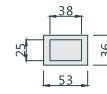
VF2B20-A1

Arm type with 2-axis(A)

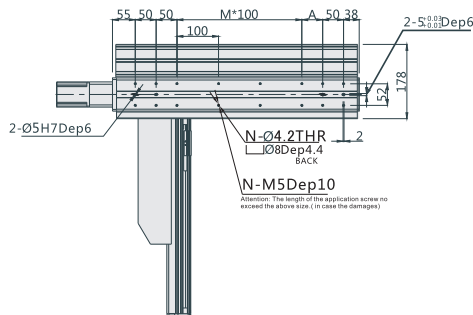
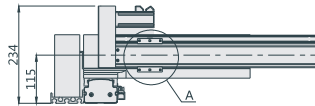
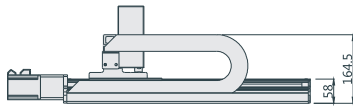
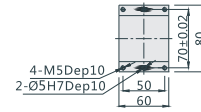
Unit (mm)



XY-Cable Chain



A-Detail View



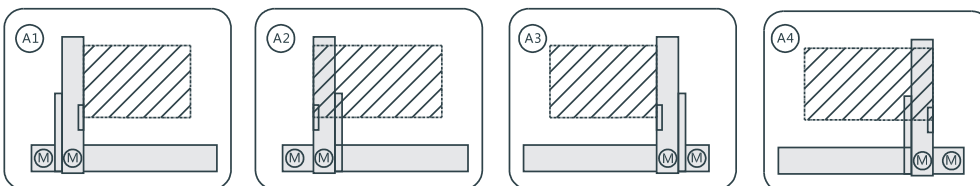
*1: (When the moving range return to origin,the stop position of table's movement range and mechanical limit.)

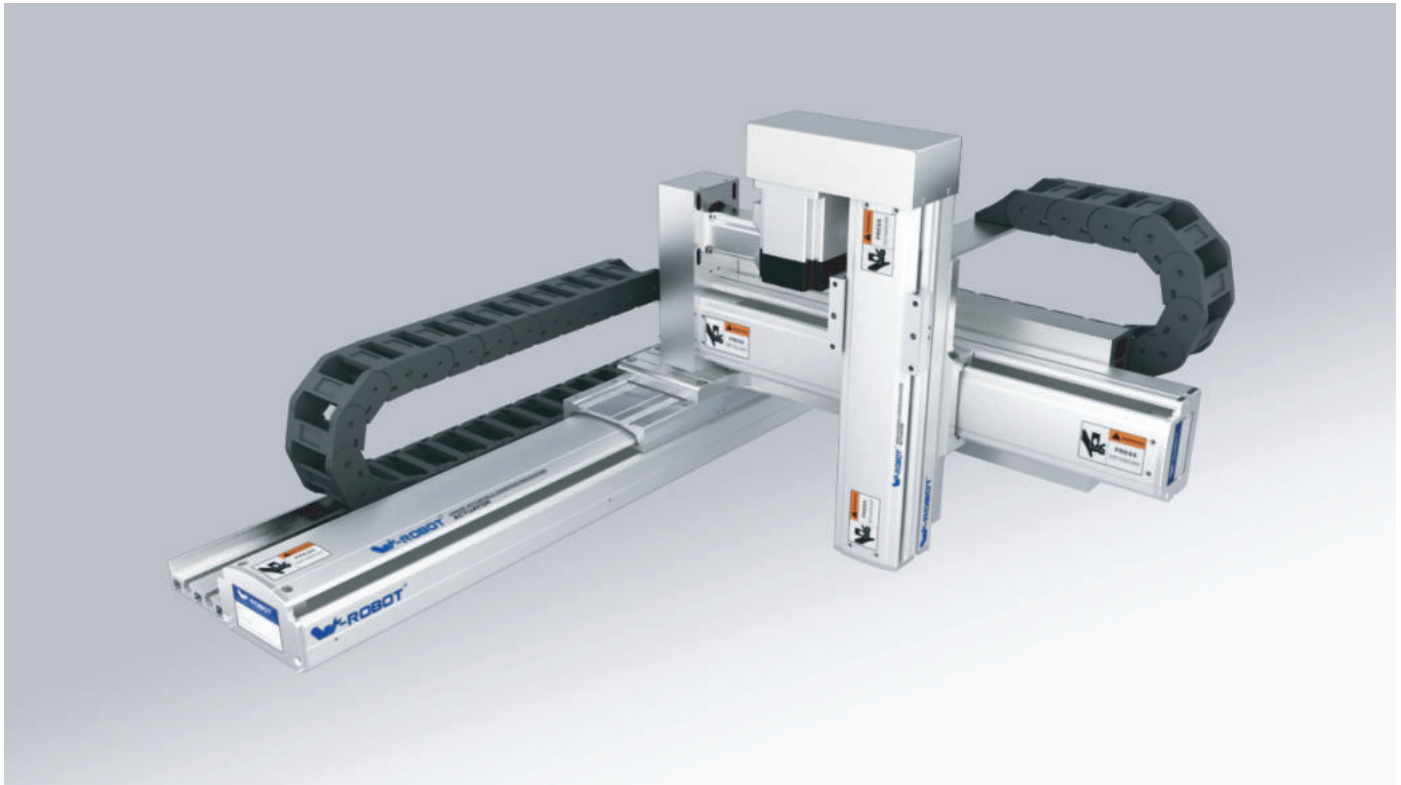
*2: (Maximum speed is refers to the highest safe speed that can be used in stroke,if more than the standard speed,table may produce serious resonance.)

X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
L	448	498	548	598	648	698	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
MaximumSpeed(mm/s)	800														700	600	500	400

Y Stroke(mm)	100	150	200	250	300	350
H	451	501	551	601	651	701
MaximumSpeed(mm/s)	800					

Combination Direction





Maximum Stroke

X axis	950mm
Y axis	350mm
Z axis	300mm

Maximum Speed

X axis	800mm/s
Y axis	800mm/s
Z axis	500mm/s

Maximum Stroke

X axis	400W
Y axis	100W
Z axis	100W+ (Brake)

Specification

Ltem	X axis	Y axis	Z axis
Axis Construction	VF10 (Longer sliding rack)	VF8	VF6
Repeatability(mm)	±0.01(C7)	±0.01(C7)	±0.01(C7)
BallScrewLead(mm)	16	16	10
MaximumSpeed(mm/sec)	800	800	500
Stroke(mm)	100-950	100-350	100-300
ServoMotorOutput(W)	400W	100W	100W+ (Brake)
Environment	0-40°C, 85%RH Below		

Maximum Payload

Y Stroke(mm)					
Z Stroke Payload	100	150	200	250	300
100	5	5	4	3	2
150	5	5	4	3	2
200	5	4	3	3	2
250	5	4	3	3	2
300	5	4	3	2	2

Guide for Model Selection

VF32B2 - A1 - 300 BC - 300 BR - 150 BL - P - C -

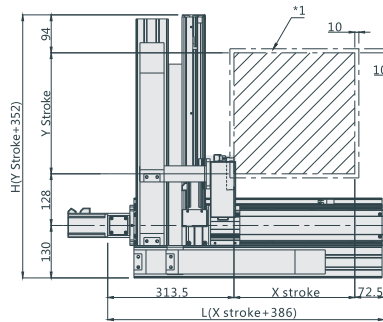
Model	Combination	Combination Direction	X Stroke(mm)	Y Stroke(mm)	Motor way	Z Stroke(mm)	Motor Type	Delivery Methode	Non-standard, d.c.,
A	Arm Type	1 Left X axis base fixed and Y axis forward direction	100-950mm	100-350mm	BC External	100-300mm	P Panasonic	K By Kit	No No.d.c.,
		2 Left X axis base fixed and Y axis reverse direction			BR Right Side		M Mitsubishi	C By Set	A01 Combination of customization
		3 Right X axis base fixed and Y axis forward direction			BL Left Side		Y Yaskawa		
		4 Right X axis base fixed and Y axis reverse direction					T Delta		
							W W-Robot		

*For Z: Motor is from clients.

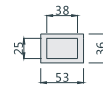
VF32B2-A1

Arm type with 3-axis(A)

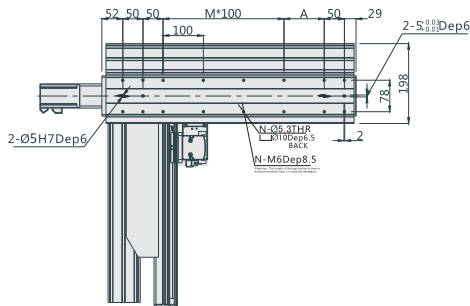
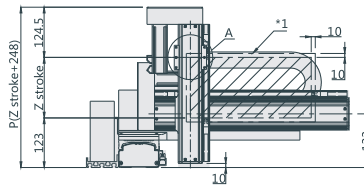
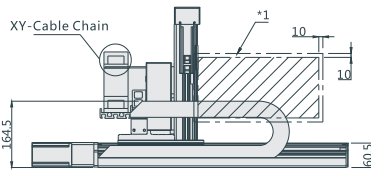
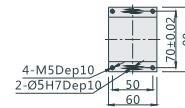
Unit (mm)



XY-Cable Chain



A-Detail View



(When the moving range return to origin,the stop position of table's movement range and mechanical limit.)

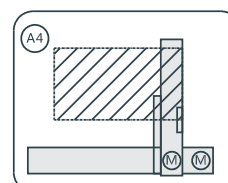
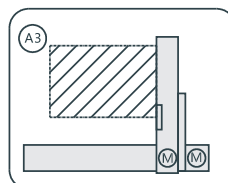
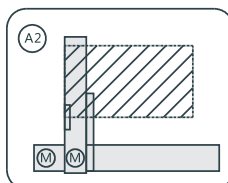
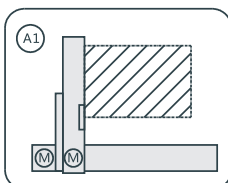
(Maximum speed is refers to the highest safe speed that can be used in stroke,if more than the standard speed,table may produce serious resonance.)

X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
L	486	536	586	636	686	736	786	836	886	936	986	1036	1086	1136	1186	1236	1286	1336
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
N	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
MaximumSpeed(mm/s)	800														700	650	600	550

Y Stroke(mm)	100	150	200	250	300	350
H	452	502	552	602	652	702
MaximumSpeed(mm/s)	800					

Z Stroke(mm)	100	150	200	250	300
P	348	398	448	498	548
MaximumSpeed(mm/s)	500				

Combination Direction





Maximum Stroke

X axis	1100mm
Y axis	500mm
Z axis	350mm

Maximum Speed

X axis	800mm/s
Y axis	800mm/s
Z axis	500mm/s

Maximum Stroke

X axis	400W
Y axis	400W
Z axis	200W+ (Brake)

Specification

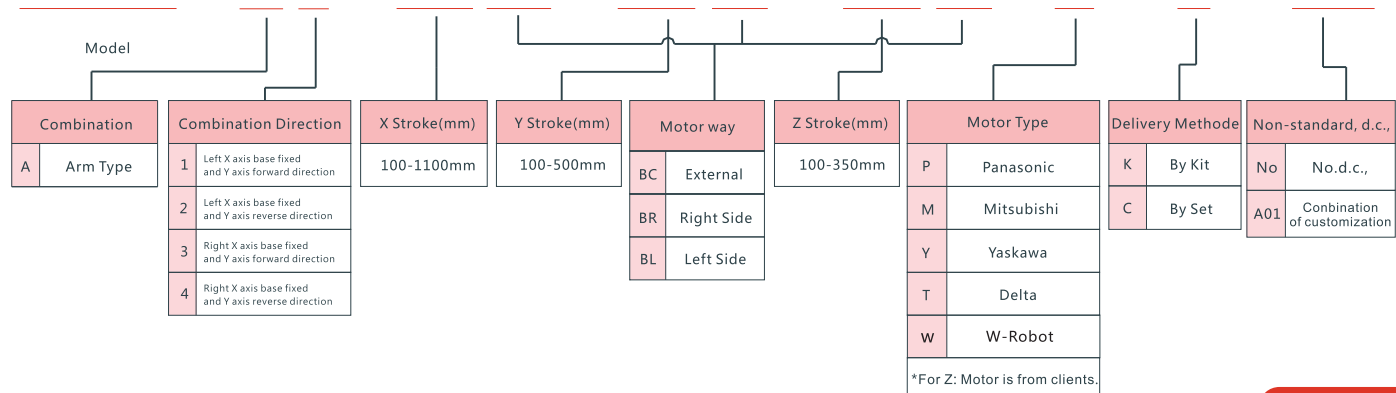
Ltem	X axis	Y axis	Z axis
Axis Construction	VF12 (Longer sliding rack)	VF10	VF8
Repeatability(mm)	±0.01(C7)	±0.01(C7)	±0.01(C7)
BallScrewLead(mm)	16	16	10
MaximumSpeed(mm/sec)	800	800	500
Stroke(mm)	100-1100	100-500	100-350
AC ServoMotorOutput(W)	400W	400W	200W+ (Brake)
Environment	0-40°C, 85%RH Below		

Maximum Payload

	Y Stroke(mm)				
Z Stroke Payload (kg)	100	200	300	400	500
150	6	6	5	4	3
200	6	6	5	4	3
250	6	5	4	3	2
300	6	5	4	3	2
350	5	4	3	2	1

Guide for Model Selection

VF432B - A 1 - 300 BC - 300 BR - 200 BL - P - C -

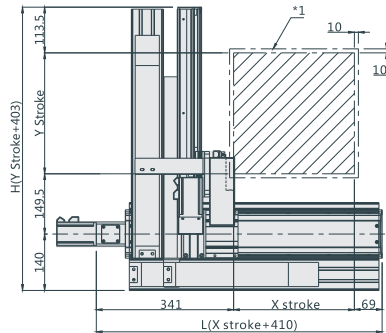


VF432B-A1

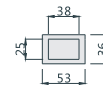
W-ROBOT®
Linear Drives

Arm type with 3-axis(A)

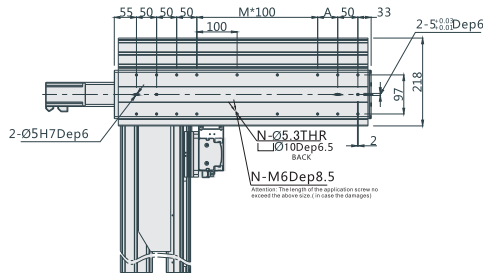
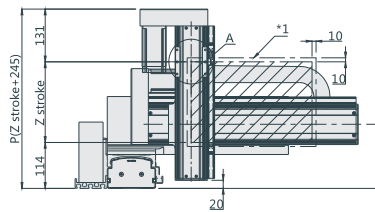
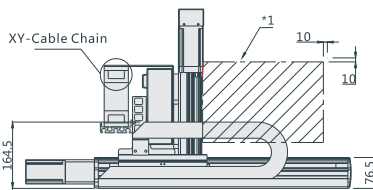
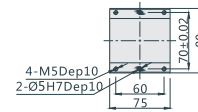
Unit (mm)



XY-Cable Chain



A-Detail View



*1: When the moving range return to origin, the stop position of table's movement range and mechanical limit.

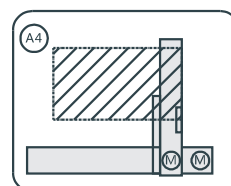
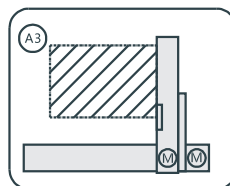
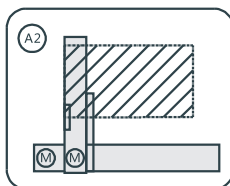
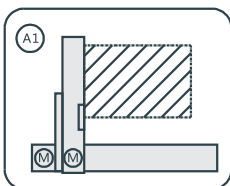
*2: Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, table may produce serious resonance.

X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
MaximumSpeed(mm/s)	800														720	640	560	480	450	320	290

Y Stroke(mm)	100	150	200	250	300	350	400	450	500
H	503	553	603	653	703	753	803	853	903
MaximumSpeed(mm/s)	800								

Z Stroke(mm)	100	150	200	250	300	350
P	345	395	445	495	545	595
MaximumSpeed(mm/s)	500					

Combination Direction





Maximum Stroke

X axis	1200mm
Y axis	550mm
Z axis	350mm

Maximum Speed

X axis	1000mm/s
Y axis	800mm/s
Z axis	500mm/s

Maximum Stroke

X axis	400W
Y axis	400W
Z axis	200W+ Brake

Specification

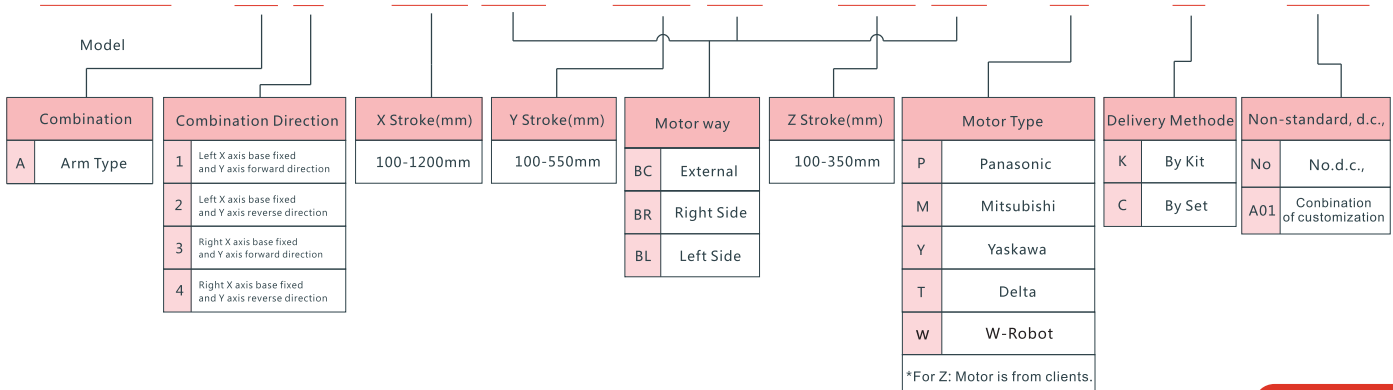
Ltem	X axis	Y axis	Z axis
Axis Construction	VF14 (Longer sliding rack)	VF12	VF10
Repeatability(mm)	±0.01(C7)	±0.01(C7)	±0.01(C7)
BallScrewLead(mm)	20	16	10
MaximumSpeed(mm/sec)	1000	1000	500
Stroke(mm)	100-1200	100-550	100-350
AC ServoMotorOutput(W)	400W	400W	200W+ Brake
Environment	0-40°C, 85%RH Below		

Maximum Payload

Y Stroke(mm)						
Z Stroke Payload	100	200	300	400	500	600
150	12	10	8	7	5	3
200	12	10	8	7	5	3
250	12	9	7	6	4	2
350	12	9	7	6	4	2
350	11	8	6	5	3	1

Guide for Model Selection

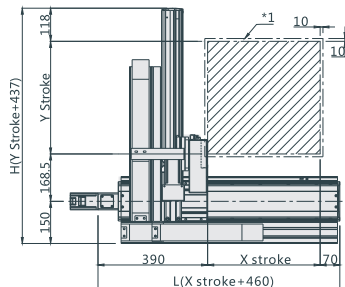
VF643 - A 1 - 400 BC - 400 BR - 250 BL - P - C -



VF643-A1

Arm type with 3-axis(A)

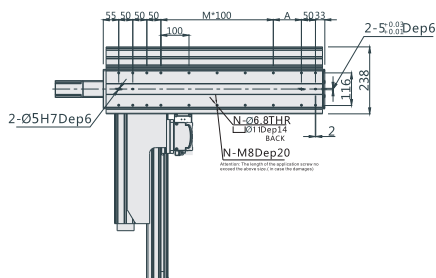
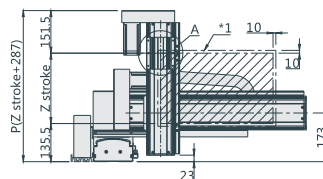
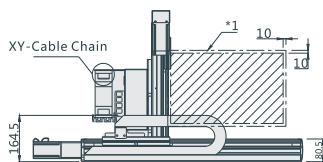
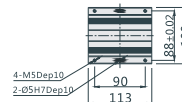
Unit (mm)



XY-Cable Chain



A-Detail View



*1: When the moving range return to origin, the stop position of table's movement range and mechanical limit.

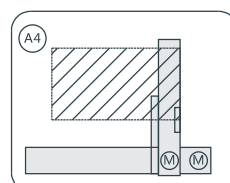
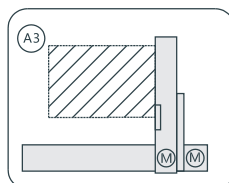
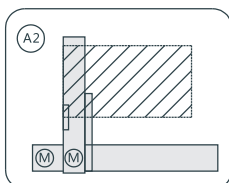
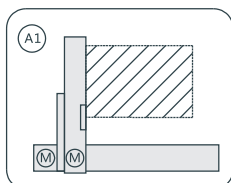
*2: Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, table may produce serious resonance.

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
L	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	10	11	11
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	32	34	34
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
MaximumSpeed(mm/s)	1000										900			800			700			600			500

Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550
H	537	587	637	687	737	787	837	887	937	987
MaximumSpeed(mm/s)	800									

Z Stroke(mm)	100	150	200	250	300	350
P	387	437	487	537	587	637
MaximumSpeed(mm/s)	500					

Combination Direction





Maximum Stroke

X axis	1200mm
Y axis	600mm
Z axis	350mm

Maximum Speed

X axis	1000mm/s
Y axis	1000mm/s
Z axis	500mm/s

Maximum Stroke

X axis	400W
Y axis	400W
Z axis	400W+ (Brake)

Specification

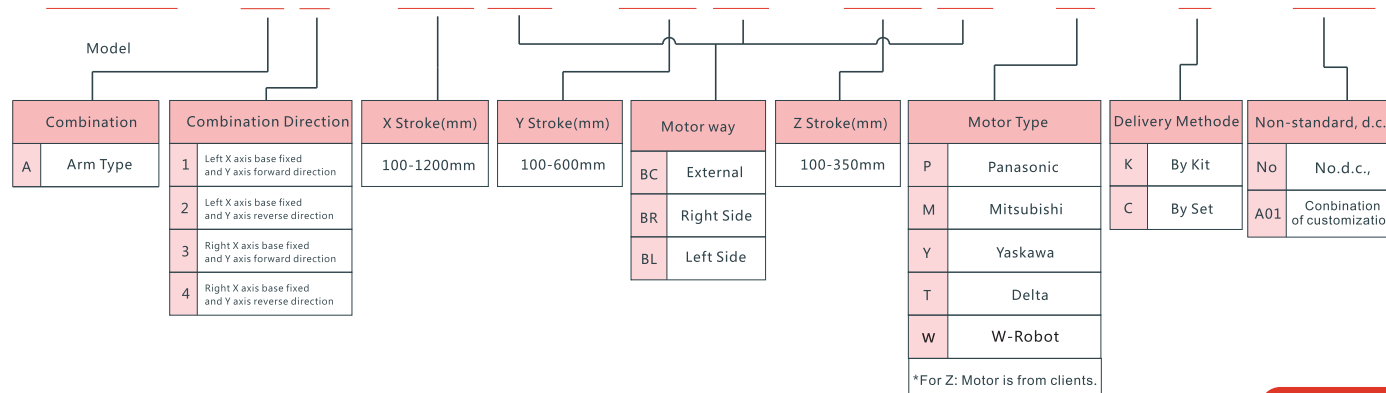
Ltem	X axis	Y axis	Z axis
Axis Construction	VF17 (Longer sliding rack)	VF14	VF12
Repeatability(mm)	±0.01(C7)	±0.01(C7)	±0.01(C7)
BallScrewLead(mm)	20	20	10
MaximumSpeed(mm/sec)	1000	1000	500
Stroke(mm)	100-1200	100-600	100-350
AC ServoMotorOutput(W)	400W	400W	400W+ (Brake)
Environment	0-40°C, 85%RH Below		

Maximum Payload

Y Stroke(mm)						
Z Stroke Payload	100	200	300	400	500	600
150	16	14	12	10	8	6
200	16	14	12	10	8	6
250	15	13	11	9	7	5
300	14	13	11	9	7	5
350	14	12	10	8	6	4

Guide for Model Selection

VF764 - A1 - 500 BC - 500 BR - 300 BL - P - C -



Unit (mm)



Cantilever 4 Axis Robot

VFA01



Maximum Stroke	X axis 300mm Y axis 300mm Z axis 150mm R axis 360°
Maximum Payload	1KG 296
Body Width	VF10 100mm VF8 80mm VF6 60mm R01 80mm

VFA05



Maximum Stroke	X axis 300mm Y axis 300mm Z axis 150mm R axis 360°
Maximum Payload	5KG 297
Body Width	VF12 120mm VF10 100mm VF8 80mm R05 90mm

VFA10



Maximum Stroke	X axis 400mm Y axis 400mm Z axis 150mm R axis 360°
Maximum Payload	10KG 298
Body Width	VF14 140mm VF12 120mm VF10 100mm R15 97mm

VFA15



Maximum Stroke	X axis 500mm Y axis 500mm Z axis 250mm R axis 360°
Maximum Payload	15KG 299
Body Width	VF17 170mm VF14 140mm VF12 120mm R15 97mm

VFA01 4 axes

W-ROBOT®
Linear Drives

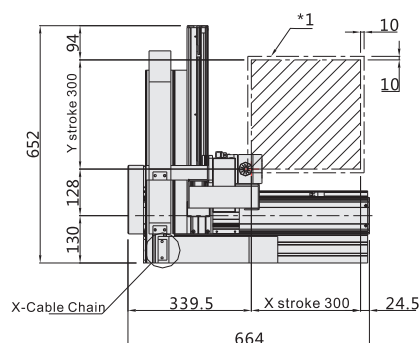


Technical parameters

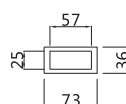
Ltem	X axis	Y axis	Z axis	R axis
Axis Construction	VF10 (Longer sliding rack)	VF8	VF6	R01
Working Stroke(XYZ:mm)(R:°)	300	300	150	360
Repeatability(XYZ:mm)(R:°)	±0.01(C7)	±0.01(C7)	±0.01(C7)	±0.02
Drive Type	BallScrew(C7)	BallScrew(C7)	BallScrew(C7)	Planetary Gear
BallScrewLead(mm)	20	20	10	1/10
MaximumSpeed(mm/sec)(R:°/sec)	1000	1000	500	360
ServoMotorOutput(W)	400W	100W	100W+ (Brake)	100W
Payload(Kg)	1Kg			
Environment	0-40°C,85%RH Below			

VFA01 4axes

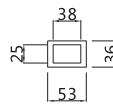
Unit(mm)



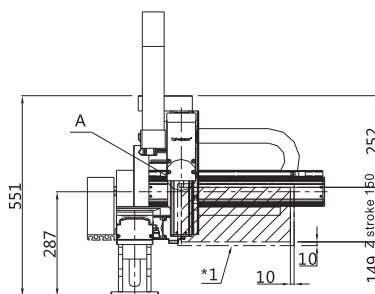
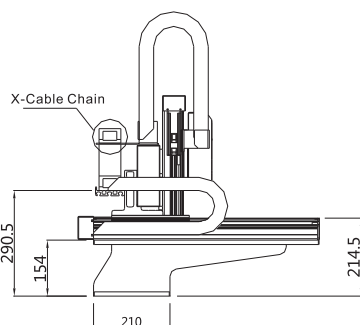
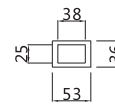
X-Cable Chain



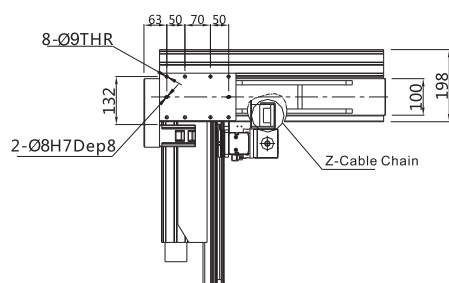
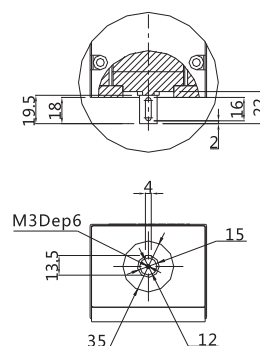
Y-Cable Chain



Z-Cable Chain



Detail View A



*1:When the moving range return to origin,the stop position of table's movement range and mechanical limit.

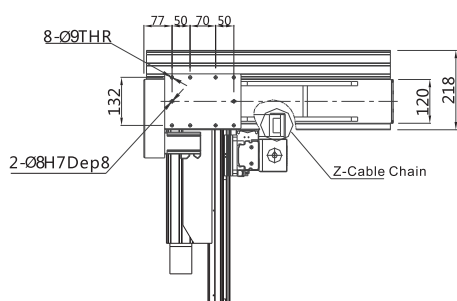
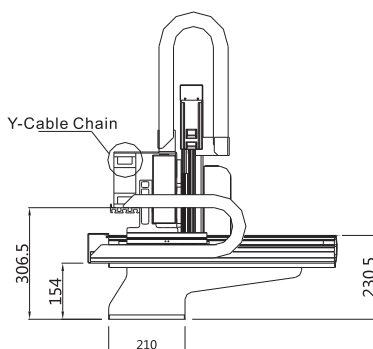
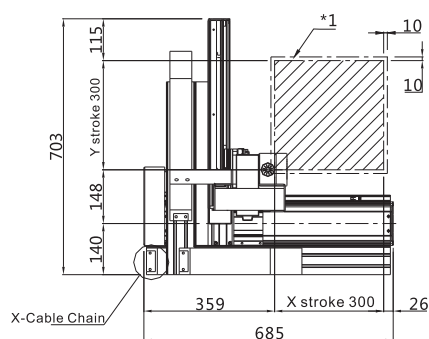


Technical parameters

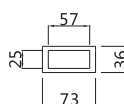
Ltem	X axis	Y axis	Z axis	R axis
Axis Construction	VF12 (Longer sliding rack)	VF10	VF8	R05
Working Stroke(XYZ:mm)(R:°)	300	300	150	360
Repeatability(XYZ:mm)(R:°)	±0.01(C7)	±0.01(C7)	±0.01(C7)	±0.02
Drive Type	BallScrew(C7)	BallScrew(C7)	BallScrew(C7)	Planetary Gear
BallScrewLead(mm)	20	20	10	1/10
MaximumSpeed(mm/sec)(R:°/sec)	1000	1000	500	360
ServoMotorOutput(W)	400W	200W	200W+(Brake)	200W
Payload(Kg)	5Kg			
Environment	0-40°C,85%RH Below			

VFA05 4axes

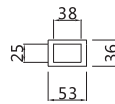
Unit(mm)



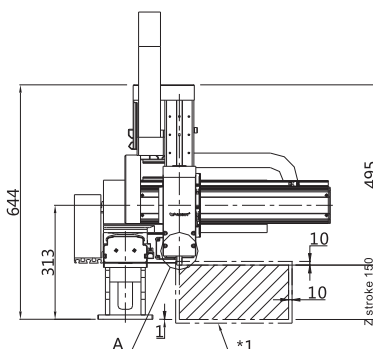
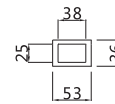
X-Cable Chain



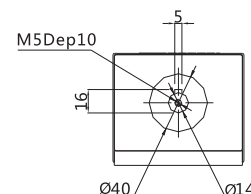
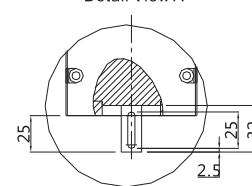
Y-Cable Chain



Z-Cable Chain



Detail View A



*1:When the moving range return to origin,the stop position of table's movement range and mechanical limit.

VFA10 4 axes

W-ROBOT®
Linear Drives

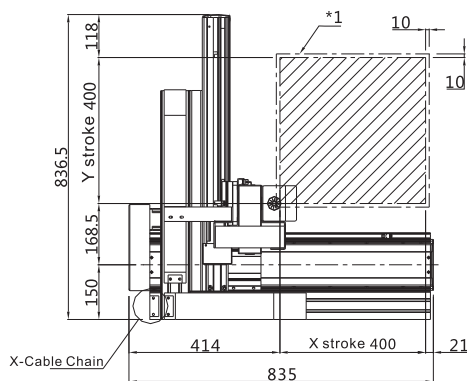


Technical parameters

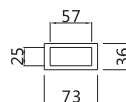
Ltem	X axis	Y axis	Z axis	R axis
Axis Construction	VF14 (Longer sliding rack)	VF12	VF10	R10
Working Stroke(XYZ:mm)(R:°)	400	400	150	360
Repeatability(XYZ:mm)(R:°)	±0.01(C7)	±0.01(C7)	±0.01(C7)	±0.02
Drive Type	BallScrew(C7)	BallScrew(C7)	BallScrew(C7)	Planetary Gear
BallScrewLead(mm)	20	20	10	1/10
MaximumSpeed(mm/sec)(R:°/sec)	1000	1000	500	360
AC ServoMotorOutput(W)	400W	400W	200W+ (Brake)	400W
Payload(Kg)	10Kg			
Environment	0-40°C,85%RH Below			

VFA10 4axes

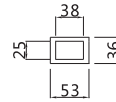
Unit(mm)



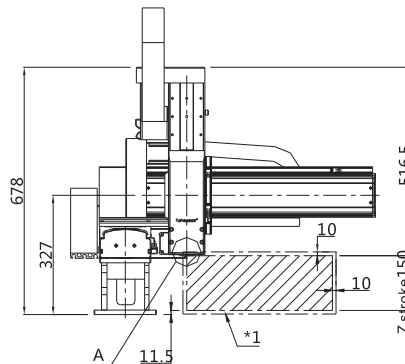
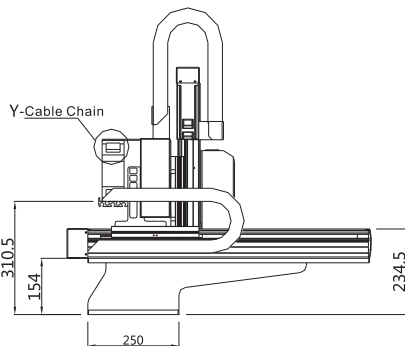
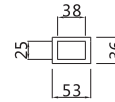
X-Cable Chain



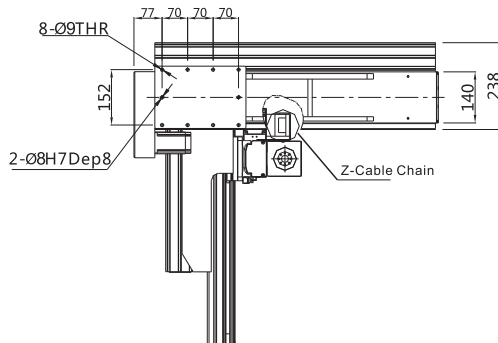
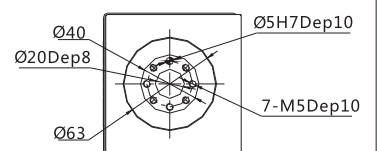
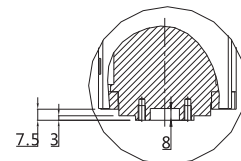
Y-Cable Chain



Z-Cable Chain



Detail View A



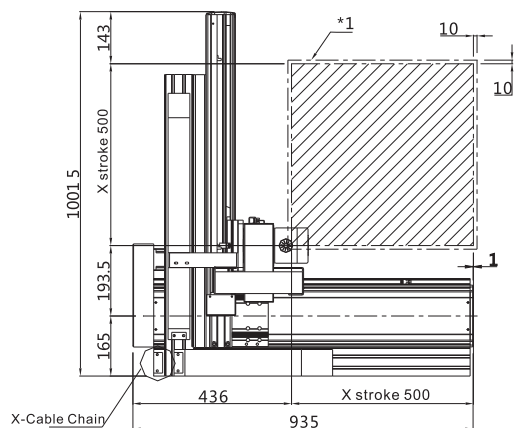
*1:When the moving range return to origin,the stop position of table's movement range and mechanical limit.



Technical parameters

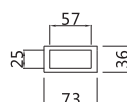
Ltem	X axis	Y axis	Z axis	R axis
Axis Construction	VF17 (Longer sliding rack)	VF14	VF12	R15
Working Stroke(XYZ:mm)(R:°)	500	500	250	360
Repeatability(XYZ:mm)(R:°)	±0.01(C7)	±0.01(C7)	±0.01(C7)	±0.02
Drive Type	BallScrew(C7)	BallScrew(C7)	BallScrew(C7)	Planetary Gear
BallScrewLead(mm)	20	20	10	1/20
MaximumSpeed(mm/sec)(R:°/sec)	1000	1000	500	360
ServoMotorOutput(W)	400W	400W	200W + (Brake)	400W
Payload(Kg)	15Kg			
Environment	0-40°C,85%RH Below			

VFA15 4axes

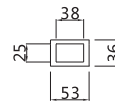


Unit(mm)

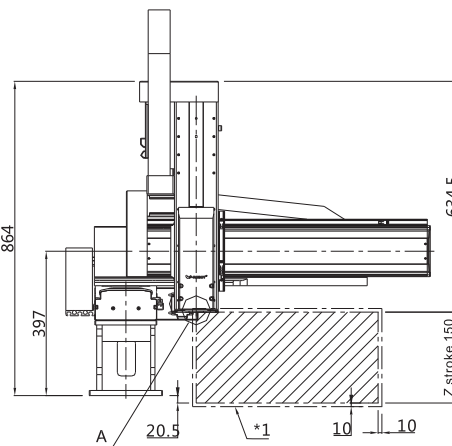
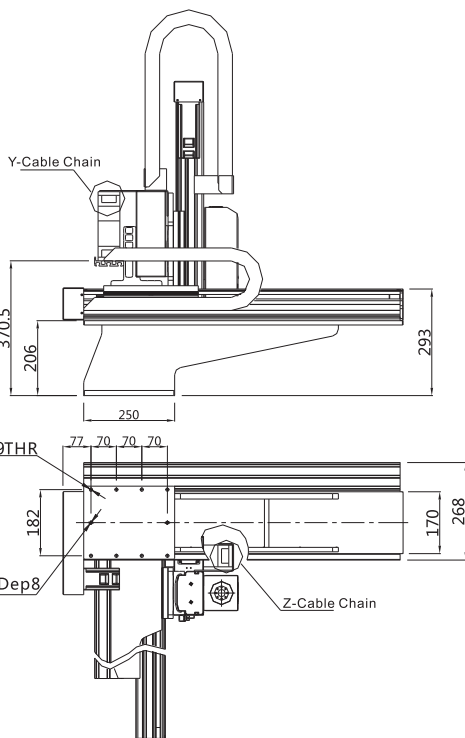
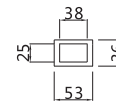
X-Cable Chain



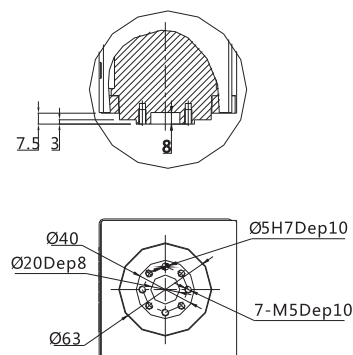
Y-Cable Chain



Z-Cable Chain



Detail View A



*1: When the moving range return to origin, the stop position of table's movement range and mechanical limit.

Scara Robot

W-AR3215



Specifications	X axis Length 100mm Y axis Length 200mm Z axis Stroke 150mm
Rotation angle	X axis $\pm 127^\circ$ Y axis $\pm 142^\circ$ 359 R axis $\pm 360^\circ$
Maximum Payload	5kg

W-AR4215



Specifications	X axis Length 200mm Y axis Length 200mm Z axis Stroke 150mm
Rotation angle	X axis $\pm 127^\circ$ Y axis $\pm 142^\circ$ 360 R axis $\pm 360^\circ$
Maximum Payload	5kg

W-AR5215



Specifications	X axis Length 300mm Y axis Length 200mm Z axis Stroke 150mm
Rotation angle	X axis $\pm 127^\circ$ Y axis $\pm 141^\circ$ 361 R axis $\pm 360^\circ$
Maximum Payload	5kg

W-AR6520



Specifications	X axis Length 300mm Y axis Length 300mm Z axis Stroke 200mm
Rotation angle	X axis $\pm 130^\circ$ Y axis $\pm 140^\circ$ 362 R axis $\pm 360^\circ$
Maximum Payload	10kg

W-AR7520



Specifications	X axis Length 400mm Y axis Length 300mm Z axis Stroke 200mm
Rotation angle	X axis $\pm 130^\circ$ Y axis $\pm 140^\circ$ 363 R axis $\pm 360^\circ$
Maximum Payload	10kg

W-AR8520



Specifications	X axis Length 500mm Y axis Length 300mm Z axis Stroke 200mm
Rotation angle	X axis $\pm 130^\circ$ Y axis $\pm 140^\circ$ 364 R axis $\pm 360^\circ$
Maximum Payload	10kg

W-600P4G



Specifications	X axis Length 350mm Y axis Length 250mm Z axis Stroke 300mm
Rotation angle	X axis $\pm 135^\circ$ Y axis $\pm 145^\circ$ 365 R axis $\pm 360^\circ$
Maximum Payload	5kg



Guide for the functions

- 8 inch tough screen ;
- SCARA ROBOT customized operation concept ;
- Available for the language AR ,G code programming of the Robot ;
- Available for the various of the INC ENCODER and ABS ENCODER international and local brands, like the SANYO ,PANASONIC ,TAMAGAWA ect. The motor selection are in your side.
- Advanced Vibration suppression technique, high stability ;
- The specifications are customized, no troubling for the adjustment of the specifications.
- Three-dimensional spacecircular arc interpolation technology ;
- Continuously movement speed adaptive technique ;
- SPL curve teaching technology ;
- Teach pendant available for the 3D off-line simulation display.
- SCARA flexible cartesian transform, position calculate.
- Available for kinds of communication ways, network, USB, U Disk
- Internally build in soft PLC (IEC61131-3), <Optional pack >
- NURBS Interpolation technology <Optional pack>
- Off - line programming -
- Remote monitoring
- System automatic detection, diagnosis, alarm and operation log, etc

■ Specification

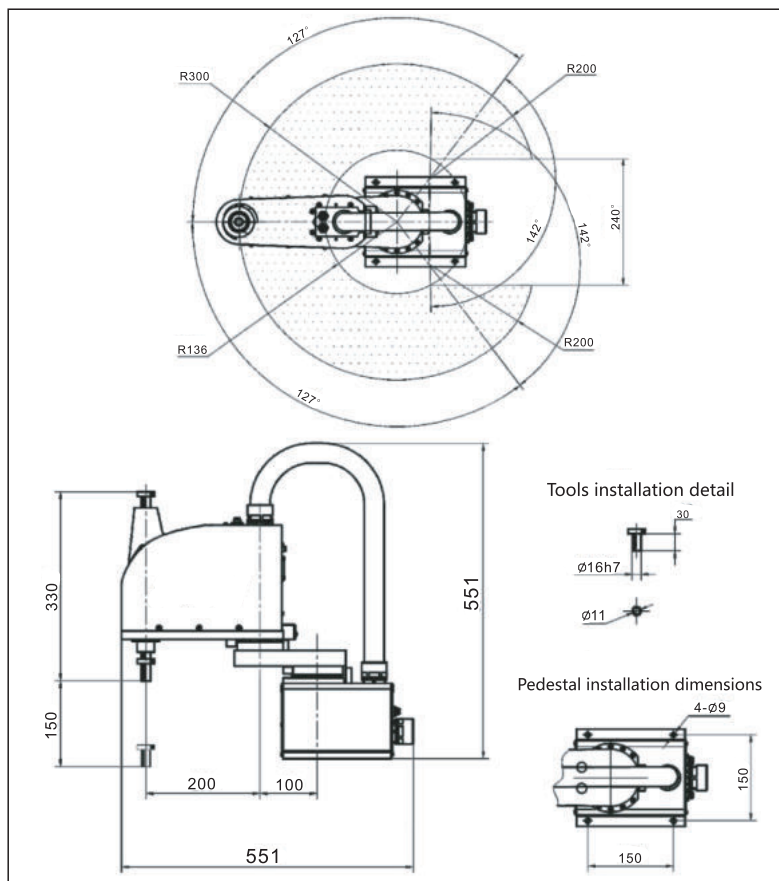
Model			RC400			
teach pendant	Screen		8 inch			
	Teaching		Manual data input(Coordinate values Input) , Rectangular coordinates teaching,off-line teaching (The data logging form the external)			
	Trajectory programming language date logging		AR Language			
	Data cable		5M			
	Dimension/ Weight		355 mm× 248 mm ×70 mm (Teach pendant) / 2Kg			
	Power		24V DC			
	Methods of data exchange		USB			
Integration the drive and control	Shaft control function	Qty. controlled axis		4 axis		
		Drive and Motor		AC Servo motor (Available for SANYO ,PANASONIC ,TAMAGAWA, ADTECH ect servo motor.		
		Encoder		Agreement servo encoder(INC/ ABS),Dual phase encoder		
		Cycle position control		8K/16K		
		Movement/servo controller		Arch movement, linear interpolation ,circular interpolation,continuous trace ,others accelerate and decelerate control		
		Cartesian coordinate system		SCARA System ,Cartesian robot system		
		Setup the position unit		°、 mm		
		Offline movement		Completely ABS. control methods(No need back to the original)		
	Encoder	Encoder environment		AR Language , G Code, IEC61131-3		
		Storage mode		U disk, SD card		
	External input /out put	Standard I/O	IO input		36path	
			IO output		24path	
		External communication	RS-232		3 pcs	
			RS-485		1 pcs	
			Ethernet		1 pcs	
			LVDS mounting		1 pcs	
			USB (2.0)		2 pcs	
	Specification	The sharp dimension		400mm ×260mm × 160mm (Controller)		
		Weight		10 Kg		
		Power cable		1.5M		
		Power usage		220V AC		
		Operating temperature		0~40℃		
		Ambient humidity		Under 90%RH ,no condensation		
		Storage temperature		-10 ~65℃		



■ Specification

Model			W-AR3215
Type			Horizontal multi-joint
Qty.			4
Length			300mm
Specifications	X axis	Length	100mm
		Rotation Range	±127°
	Y axis	Length	200mm
		Rotation Range	±142°
	Z axis	Stroke	150mm
	X axis	Rotation Range	±360°
Max speed		X axis	600°/S
		Y axis	375°/S
		X,Y combinations	4.45m/s
		z axis	1.3m/s
		R axis	1667°/s
Cycle time			0.5s
Repeat accuracy	X、 Y axis		±0.01mm
	z axis		±0.01mm
	R axis		±0.005°
Rated/max payload			2Kg/5kg
Allow load torque of R axi (Rated/ max.)			0.01 kg·m2
			0.04 kg·m2
users signal lines			0.2sq×16line Output 8 path,6 path input
User piping			Φ6×2 pcs
Limit protection			1, Limit protection 2, Mechanical limit(X,Y,Z axis)
Weight			12.5Kg

■ Please reference the W-AR3215 robot movement range, frame installation dimensions.



W-AR4215

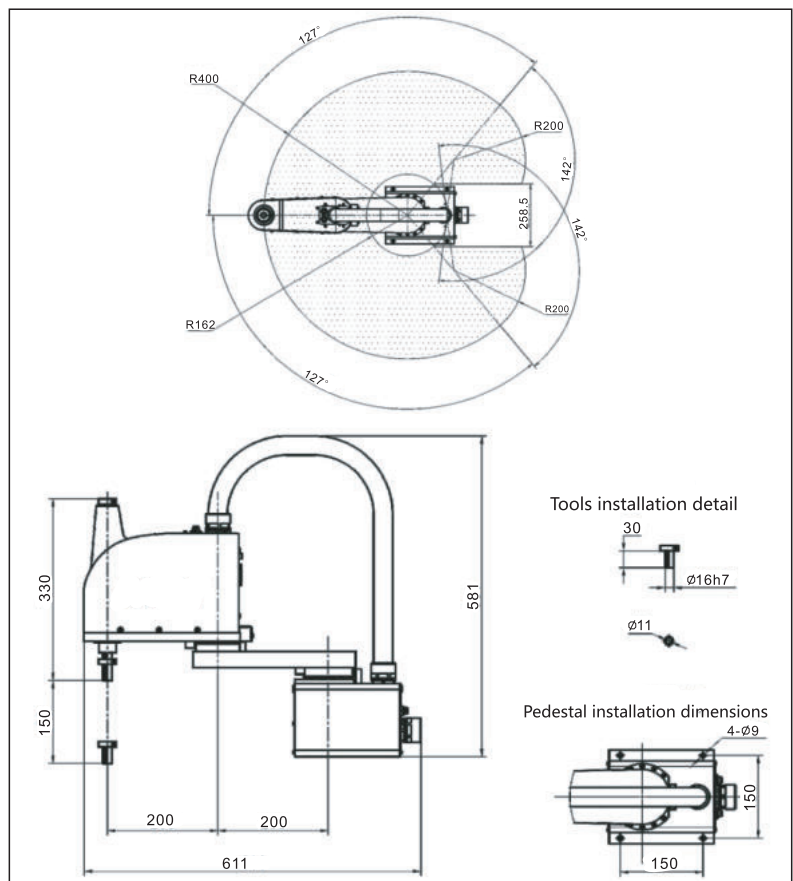
W-ROBOT®
Linear Drives

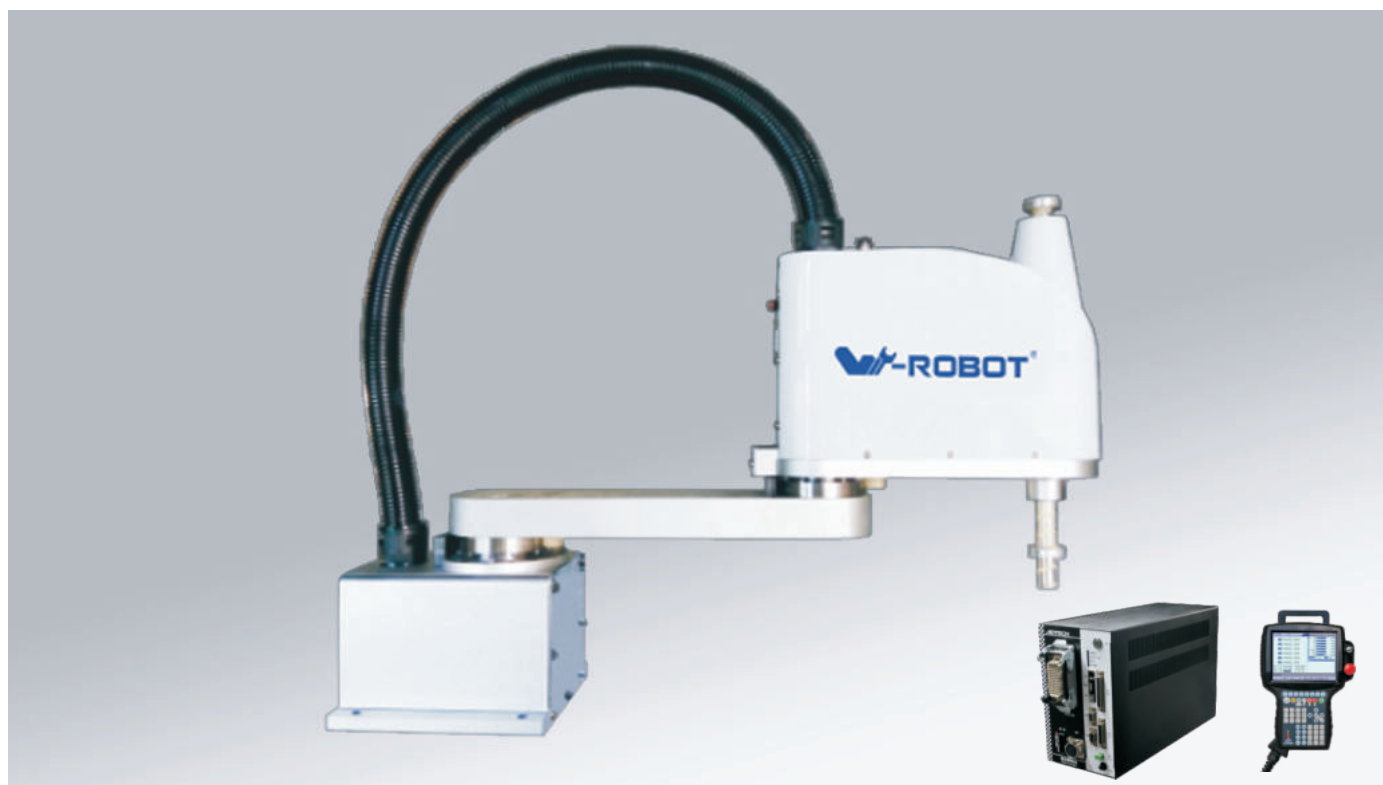


■ Specification

Model			W-AR4215
Type			Horizontal multi-joint
Qty.			4
Length			400mm
Specifications	X axis	Length	200mm
		Rotation Range	±127°
	Y axis	Length	200mm
		Rotation Range	±142°
	Z axis	Stroke	150mm
	X axis	Rotation Range	±360°
Max speed		X axis	600°/S
		Y axis	375°/S
		X,Y combinations	5.5m/s
		z axis	1.3m/s
		R axis	1667°/s
Cycle time			0.45s
Repeat accuracy		X、 Y axis	±0.01mm
		z axis	±0.01mm
		R axis	±0.005°
Rated/max payload			2Kg/5kg
Allow load torque of R axi (Rated/ max.)			0.01 kg·m2
			0.04 kg·m2
users signal lines			0.2sq×16line Output 8 path, 6 path input
User piping			Φ6×2 pcs
Limit protection			1, Limit protection 2, Mechanical limit(X,Y,Z axis)
Weight			13Kg

■ Please refer to the W-AR4215 robot movement range, frame installation dimensions.

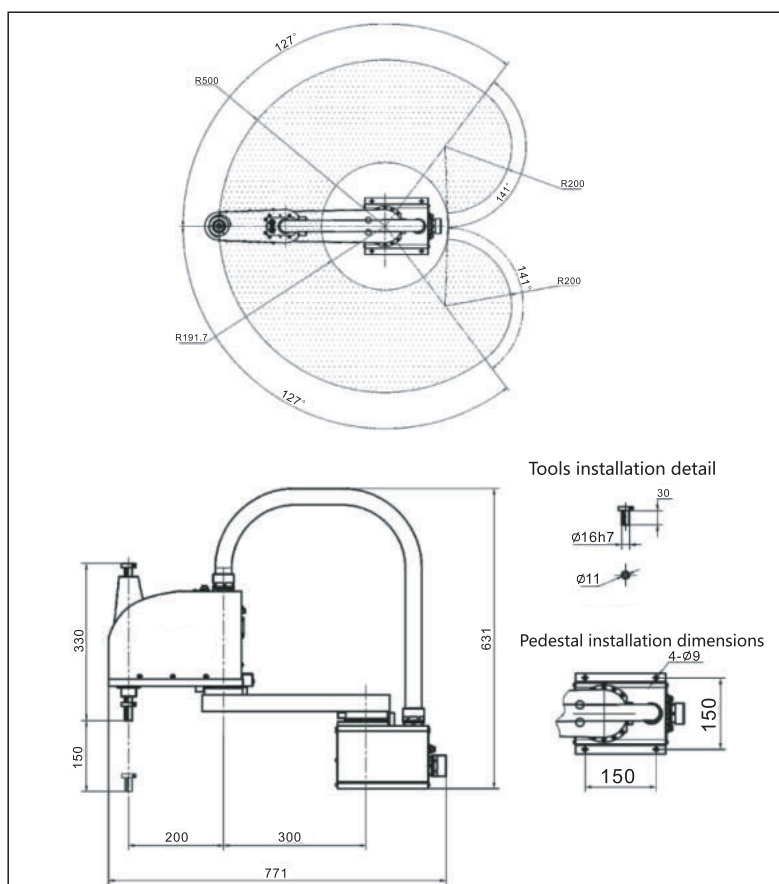




■ Specification

Model			W-AR5215
Type			Horizontal multi-joint
Qty.			4
Length			500mm
Specifications	X axis	Length	300mm
		Rotation Range	±127°
	Y axis	Length	200mm
		Rotation Range	±142°
	Z axis	Stroke	150mm
	X axis	Rotation Range	±360°
Max speed		X axis	600°/S
		Y axis	375°/S
		X,Y combinations	6.5m/s
		z axis	1.3m/s
		R axis	1667°/s
Cycle time			0.4s
Repeat accuracy		X、 Y axis	±0.01mm
		z axis	±0.01mm
		R axis	±0.005°
Rated/max payload			2Kg/5kg
Allow load torque of R axi (Rated/ max.)			0.01 kg·m2
			0.04 kg·m2
users signal lines			0.2sq×16line Output 8 path,6 path input
User piping			Φ6×2 pcs
Limit protection			1, Limit protection 2, Mechanical limit(X,Y,Z axis)
Weight			14Kg

■ Please reference the W-AR5215 robot movement range, frame installation dimensions.



W-AR6520

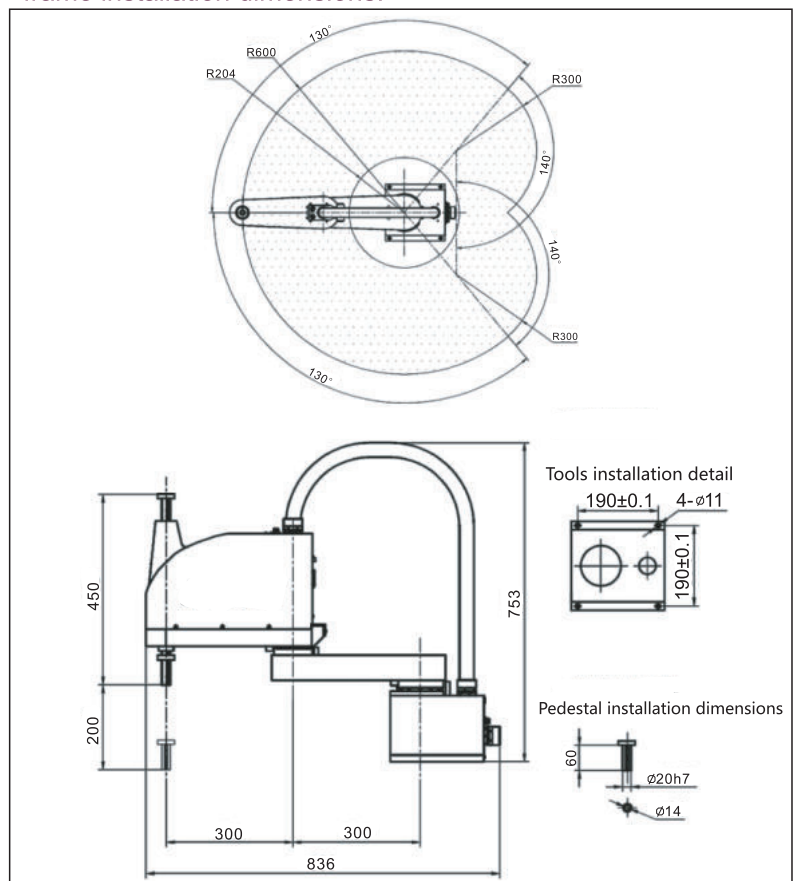
W-ROBOT®
Linear Drives



■ Specification

Model			W-AR6520	
Type			Horizontal multi-joint	
Qty.			4	
Length			600mm	
Specifications	X axis	Length	300mm	
		Rotation Range	±130°	
	Y axis	Length	300mm	
		Rotation Range	±140°	
	Z axis	Stroke	200mm	
	X axis	Rotation Range	±360°	
Max speed			X axis	375°/S
			Y axis	600°/S
			X,Y combinations	7.1m/s
			z axis	1.7m/s
			R axis	1667°/s
Cycle time			0.45s	
Repeat accuracy			X、 Y axis	±0.015mm
			z axis	±0.01mm
			R axis	±0.005°
Rated/max payload			5Kg/10kg	
Allow load torque of R axi (Rated/ max.)			0.05 kg·m2	
			0.2 kg·m2	
users signal lines			0.2sq×16line Output 8 path,6 path input	
User piping			Φ6×2 pcs	
Limit protection			1, Limit protection 2, Mechanical limit(X,Y,Z axis)	
Weight			27Kg	

■ Please reference the W-AR6520 robot movement range, frame installation dimensions.

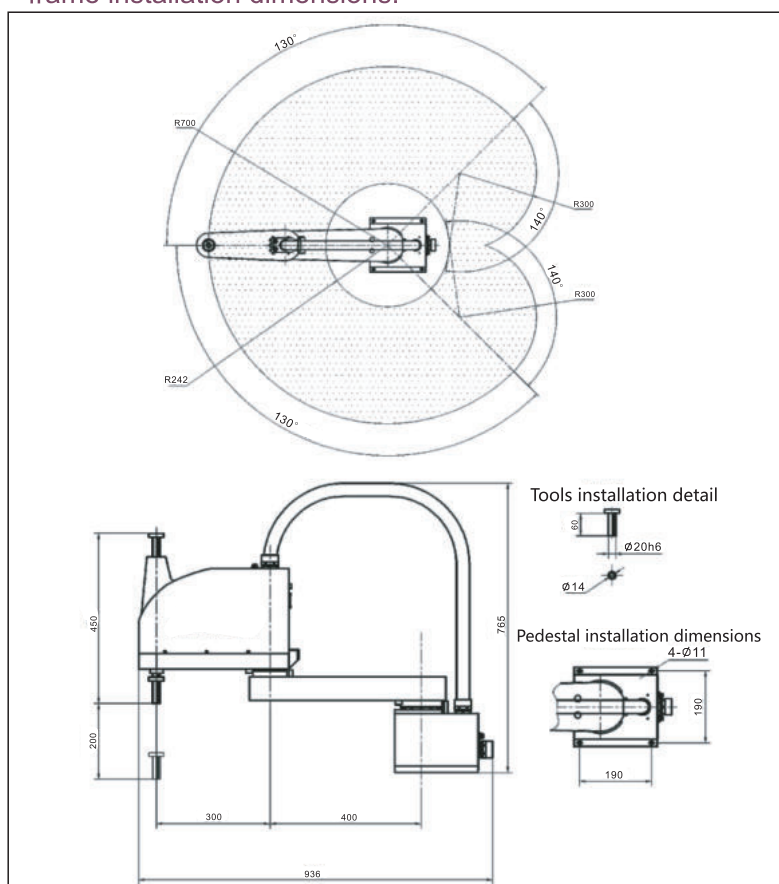




■ Specification

Model			W-AR7520	
Type			Horizontal multi-joint	
Qty.			4	
Length			700mm	
Specifications	X axis	Length	400mm	
		Rotation Range	±130°	
	Y axis	Length	300mm	
		Rotation Range	±140°	
	Z axis	Stroke	200mm	
	X axis	Rotation Range	±360°	
Max speed			X axis	375°/S
			Y axis	600°/S
			X,Y combinations	7.7m/s
			z axis	1.1m/s
			R axis	1500°/s
Cycle time			0.5s	
Repeat accuracy			X、 Y axis	±0.015mm
			z axis	±0.01mm
			R axis	±0.005°
Rated/max payload			5Kg/10kg	
Allow load torque of R axi (Rated/ max.)			0.05 kg·m2	
			0.2 kg·m2	
users signal lines			0.2sq×16line Output 8 path,6 path input	
User piping			Φ6×2 pcs	
Limit protection			1, Limit protection 2, Mechanical limit(X,Y,Z axis)	
Weight			30Kg	

■ Please reference the W-AR7520 robot movement range, frame installation dimensions.



W-AR8520

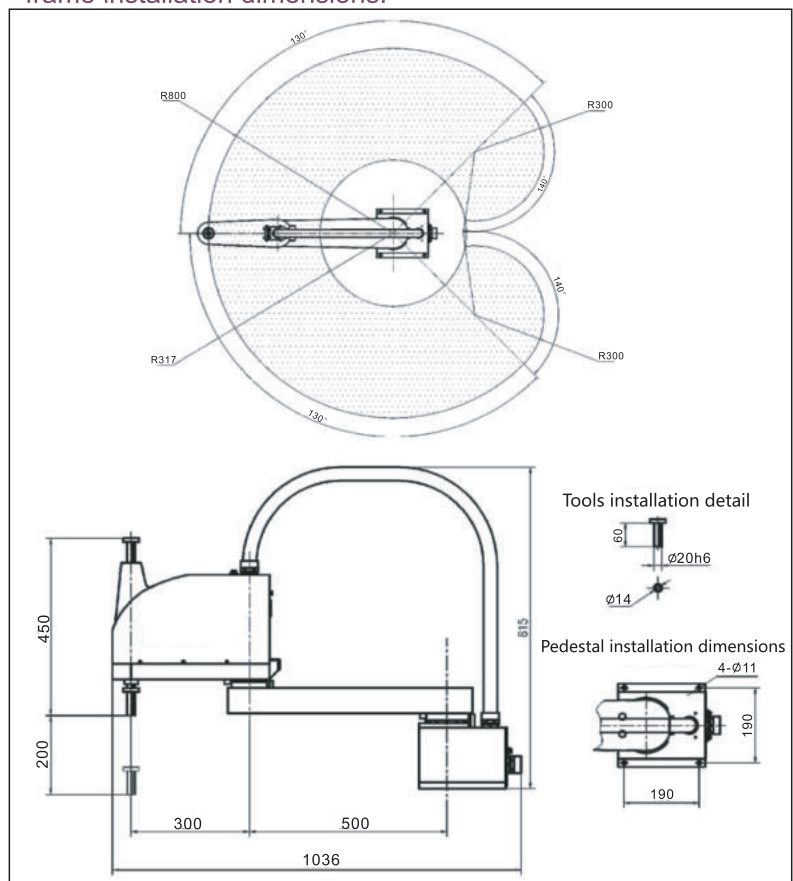
W-ROBOT®
Linear Drives



■ Specification

Model			W-AR8520
Type			Horizontal multi-joint
Qty.			4
Length			800mm
Specifications	X axis	Length	500mm
		Rotation Range	±130°
	Y axis	Length	300mm
		Rotation Range	±140°
	Z axis	Stroke	200mm
	X axis	Rotation Range	±360°
Max speed		X axis	375°/S
		Y axis	600°/S
		X,Y combinations	8.4m/s
		z axis	1.1m/s
		R axis	1500°/s
Cycle time			0.5s
Repeat accuracy	X、 Y axis		±0.015mm
	z axis		±0.01mm
	R axis		±0.005°
Rated/max payload			5Kg/10kg
Allow load torque of R axi (Rated/ max.)			0.05 kg·m2
			0.2 kg·m2
users signal lines			0.2sq×16line Output 8 path,6 path input
User piping			Φ6×2 pcs
Limit protection			1, Limit protection 2, Mechanical limit(X,Y,Z axis)
Weight			32Kg

■ Please reference the W-AR8520 robot movement range, frame installation dimensions.

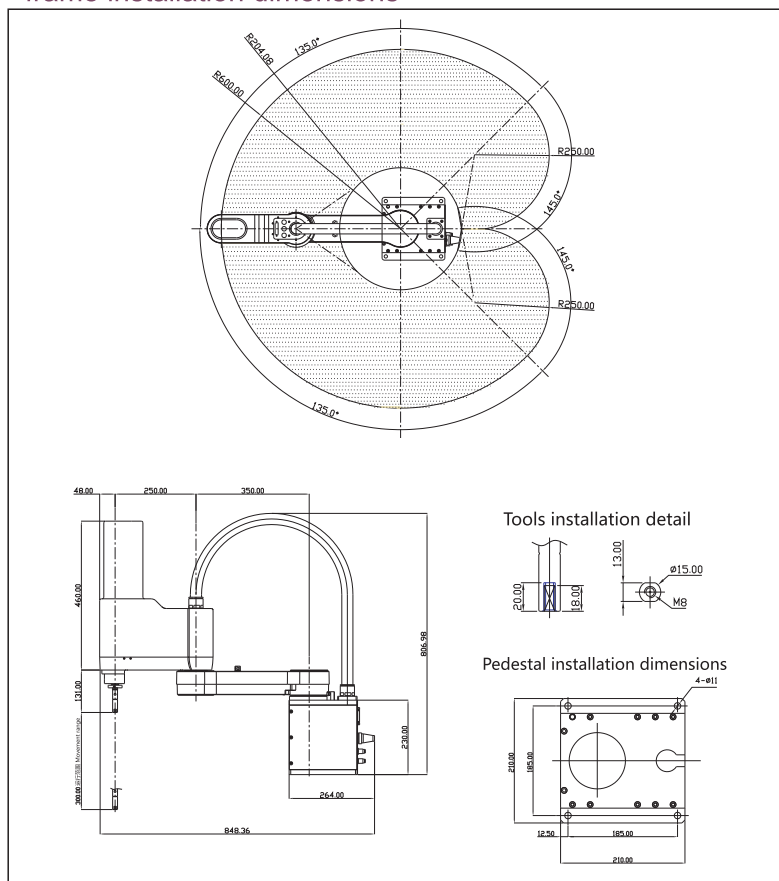




■ Specification

Model			W-600P4G
Type			Horizontal multi-joint
Qty.			4
Length			600mm
Specifications	X axis	Length	350mm
		Rotation Range	±135°
	Y axis	Length	250mm
		Rotation Range	±145°
	Z axis	Stroke	300mm
	X axis	Rotation Range	±360°
Max speed		X axis	257.1°/S
		Y axis	225°/S
		X,Y combinations	3.67m/s
		z axis	0.8m/s
		R axis	360°/s
Cycle time			
Repeat accuracy		X、Y axis	±0.05mm
		z axis	±0.02mm
		R axis	±0.02°
Rated/max payload			5Kg
Allow load torque of R axi (Rated/ max.)			
users signal lines			0.12sq×25line
User piping			Φ6×3 pcs
Limit protection			1, Limit protection 2, Mechanical limit(X,Y,Z axis)
Weight			39Kga

■ Please reference the W-600P4G robot movement range, frame installation dimensions



Six-joint Robot

The more advanced, more precise and safer industrial robots



Specification table

Type		W-AIR6	W-AIR6L	W-AIR10	W-AIR20	W-AIR50	W-AIR165
Axes		6	6	6	6	6	6
Payload		6kg	6kg	10kg	20kg	50kg	165kg
Manipulator	Weight	45kg	50kg	150kg	260kg	550 kg	1200kg
	Reach	710mm	920mm	1420mm	1702mm	2238 mm	2750mm
Positioning accuracy	Position repeatability	± 0.02mm	± 0.02mm	± 0.02 mm	± 0.02 mm	± 0.06 mm	± 0.06mm
Working range	Axis 1 rotation	-170° / + 170°	-170° / + 170°	-170° / + 170°	-170° / + 170°	-170° / + 170°	-170° / + 170°
	Axis 2 arm	-100° / + 135°	-100° / + 135°	-85° / + 150°	-95° / + 155°	-35° / + 145°	-60° / + 85°
	Axis 3 arm	-120° / + 156°	-120° / + 156°	-95° / + 170°	-95° / + 170°	-120° / + 170°	-120° / + 155°
	Axis 4 wrist	-200° / + 200°	-200° / + 200°	-180° / + 180°	-185° / + 185°	-350° / + 350°	-360° / + 360°
	Axis 5 bend	-135° / + 135°	-135° / + 135°	-135° / + 135°	-135° / + 135°	-120° / + 120°	-125° / + 125°
	Axis 6 turn	-360° / + 360°	-360° / + 360°	-360° / + 360°	-400° / + 400°	-360° / + 360°	-360° / + 360°
Rotation rate	Axis 1 rotation	380° /s	380° /s	200° /s	175° /s	180° /s	125° /s
	Axis 2 arm	350° /s	325° /s	200° /s	175° /s	180° /s	113° /s
	Axis 3 arm	460° /s	390° /s	200° /s	170° /s	180° /s	125° /s
	Axis 4 wrist	500° /s	500° /s	370° /s	360° /s	260° /s	180° /s
	Axis 5 bend	550° /s	550° /s	370° /s	360° /s	255° /s	175° /s
	Axis 6 turn	800° /s	800° /s	600° /s	600° /s	370° /s	280° /s
Controllers		ARCCD10	ARCCD10	ARCC10/ ARCCD11	ARCCD12/ ARCC20	ARCC50	ARCC165

* If remove the limitation, the movement range shall be -180°/+180°

Safety Operation Instruction Manual for W-ROBOT ARM

Thank you for choosing W-ROBOT ARM . In order to design and use our linear actuator safely and accurately, please be sure to read the following safety operation instruction manual carefully. If you don't assemble the products according to the specifications, the consequences can result in failure and damage to the machines and also serious personnel injury to employees.

一、The safety warning of working conditions

In view that W-Robot Arm is a precision linear module with high speed and response, only professional people who have rich knowledge and experience about robot can operate them.

- ☞ Robot Arm should never be assembled in environments prone to flooding or where water can come in contact with the machine. Neither should it be used in the vicinity of corrosive/flammable gas, by doing so you risk exposing employees to electrical shocks and fire damage.
- ☞ Prohibited to be used in conditions which can be considered flammable, that are easy to cause fires and explosions, by doing so you risk burning, fire and explosive hazards.
- ☞ Forbidden to be applied in the environment of electromagnetic interference, static electrical discharge and radio interference because they will lead to serious product malfunctions.
- Please make sure that the environment meets the standards of following operating conditions when you install and use our products.
- Place within no direct light
- No influence on the machine itself by its radian heat of pyrotoxin
- Used in the place of 0-40 degrees Celsius
- No condensation in the condition less than 85% degrees Celsius

二、Safety warnings for installation and operation

- When you apply this product with other devices, please make sure to design an individual optical grating within the working stroke of linear actuator . Scram button must be pressed before the operator needs to get into the range of working stroke. The electric motor with brake must be used when it works vertically. You must be aware of the falling of components and parts when taking out the electric motor. Please read carefully the technical parameters in the Model Selection Information of W-ROBOT ARM.
- When you apply this product with other devices, please make sure to design an individual optical grating within the working stroke of linear actuator . Scram button must be pressed before the operator needs to get into the range of working stroke. The electric motor with brake must be used when it works vertically. You must be aware of the falling of components and parts when taking out the electric motor. Please read carefully the technical parameters in the Model Selection Information of W-ROBOT ARM.
- Under no circumstances can this product be transformed and manipulated.
- Before the mechanical and electrical inspection and maintenance, you must confirm the security of the product systems especially its peripheral devices and power connected to machine.

- When you install this robot arm, make sure that every screw is locked in tightly as requested or it will lead to dangerous accidents if running automatically.
- The power supply terminal and Amphenol connector of electric motor and cable ahead of driver are high voltage. Do not use them before installing attaching terminal fender apron and hands off after power on.
- Do not install and disassemble any connectors when the machine is powered on, otherwise it will lead to wrong operation, malfunction, electric shock and other dangers.
- There may still remain high heat in the electric motor parts even after cutting off the electricity. Please do the mechanical maintenance and inspection before confirming the safety situation.
- Please stop using it and contact us immediately when the runtime exception occurs and components are damaged. You should operate the controller and electric motor in strict accordance with reference operating instructions.

三、Safety attention for warning marks of this product

Do not remove the warning marks without permission; this may lead to dangerous accidents by those not able to see the markings. Pay attention to the machines or components nearby which may cover the warning marks . Please make sure that the pictures and words on the warning marks can be seen clearly and obviously from the safety protective grating.

Attention: We can't explain all the safety items in details in this safety operation instruction manual. Users should operate this product in strict accordance with some relative safety regulations to understand what we listed in our safety operation instruction manual for W-ROBOT ARM. You are required to design and use our product accurately according to the technical parameters in model selection information. If there is any question, please contact our professional technicians.

The warranty and statement within the scope of guarantee for W-ROBOT ARM

Clause of Guarantee

The following are some regulations related to the warranty and the scope of guarantee :

1. Warranty

The warranty period for W-Robot Arms lasts one year after we deliver the goods(including the installation time).

2. Warranty Scope

We will repair and maintain immediately and at no extra charge the malfunctioning products caused by our faults during the stated warranty period.

Any malfunction caused by the following situation is not covered under the warranty scope:

- 1、 Breakdown and damage led by the mis-installation and operation beyond the condition that stated in the sample and specification book.
- 2、 Breakdown and damage caused by misuse and non-correct operation and management.
- 3、 Breakdown and damage caused by the factors beyond product itself.
- 4、 Breakdown and damage led by the malfunction beyond the operation way of the product itself.
- 5、 Breakdown and damage caused by later individual and personal transformation about structure, performance and specification as well as the wrong repair.
- 6、 Breakdown and damage led by the installation of components which is not according to the requirement of our company.
- 7、 When you equip our products with your machines and components, breakdown and damage caused by your fault using the machines and components that are not the general function and structure in our robot industry.
- 8、 Breakdown and damage caused by unforeseen factors of practical application technology when buying our products.
- 9、 Breakdown and damage caused by external reasons like fire, earthquake, flooding, thunder, other natural disasters, geographic change, public hazard, salt injury, gas harm, abnormal voltage etc.

In addition, the warranty only applies to the delivered goods itself. Any breakdown and damaged caused during the period of logistic is not in the scope of warranty.

Service Life Calculation

Service life depends on ball screw, linear guide and bearing.
Calculation method as below:

1. Linear guide

$$L = \left(\frac{f_t}{f_w} \cdot \frac{C}{P_n} \right)^3 \times 50 \text{ km}$$

L: Rated life (km)

f_t : Contact coefficient (Ref. table 1)

f_w : Load coefficient (Ref. table 2)

C: Basic dynamic load rating (N)

P_n : Work load

Table 1

Slide-type	f_t Contact coefficient
Single sliding block	1.0
Double sliding block	0.81

Table 2

Work environment		Load coefficient
Load status	Speed (V)	
Non-impact&smoth	$V < 15 \text{ m/min}$	1.0~1.5
Common load power	$15 \text{ m/min} < V < 60 \text{ m/min}$	1.5~2.0
Impact vibration	$V < 60 \text{ m/min}$	2.0~3.5

2. Ball screw & Bearing

$$L = \left(\frac{1}{f_w} \cdot \frac{C_a}{P_{a,n}} \right)^6 \times 10 \text{ rev}$$

L: rate life (Rotation No.)

f_w : Load coefficient (Ref. table2)

C_a : Basic dynamic load rating (N)

$P_{a,n}$: Axial work load (N)

Notes: ① Basic dynamic load rating parameter reference with linear actuator configuration;
② Lubricate linear actuator with grease once every 100km, the components service life may be extended appropriately.

MEMO



Distributor



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