

Single Axis Actuators LX45 Standard / Cover Type

Linear excellence

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For Single Axis Actuator LX Series selections, please use our 2D and 3D CAD data and Technical Calculation Software (free of charge).
http://download.misumi.jp/mol/fa_soft.html

Convenient Sensor Sets are also available. P392

Design / Utility Model Registered

Motor Adapter Plates

<Standard Long Block Type>

<Long Blocks with Cover>

<No Motor Bracket Type>

Specifications

LX45

Standard / Cover

Screw Shaft Dia. (mm) 15

Lead (mm) 10, 20

Accuracy High Grade / Precision Grade

Accessory

① Motor Adapter Plates

② Adapter Plate Screw 4 pcs.

③ No accessory is included with No Motor Bracket Type.

④ A5052

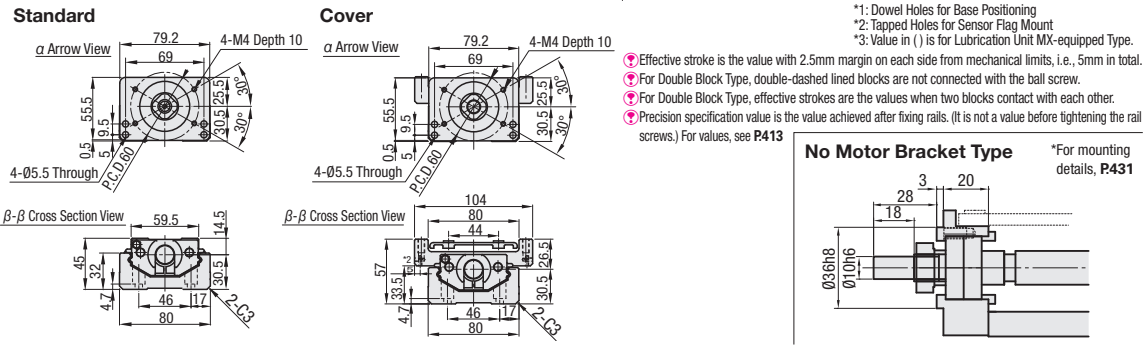
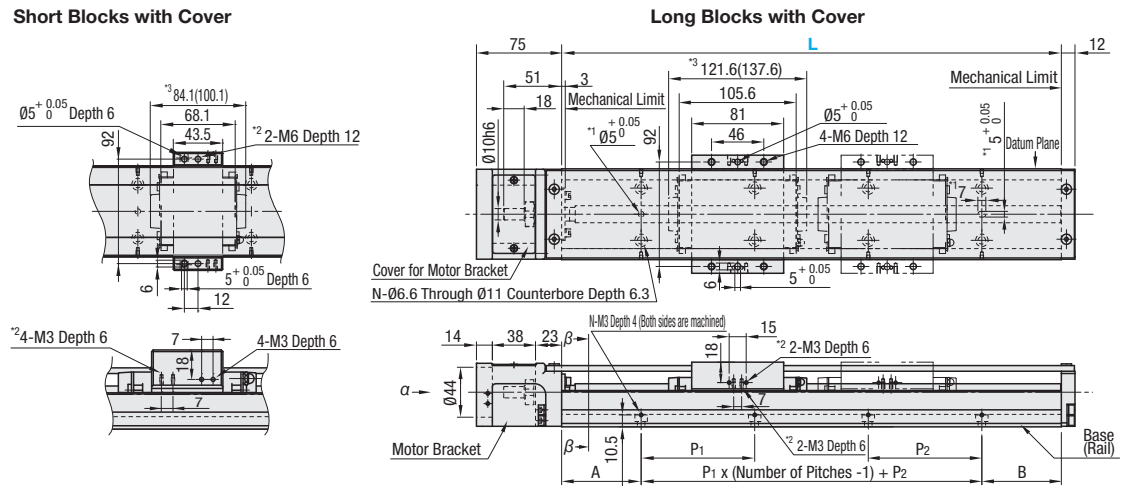
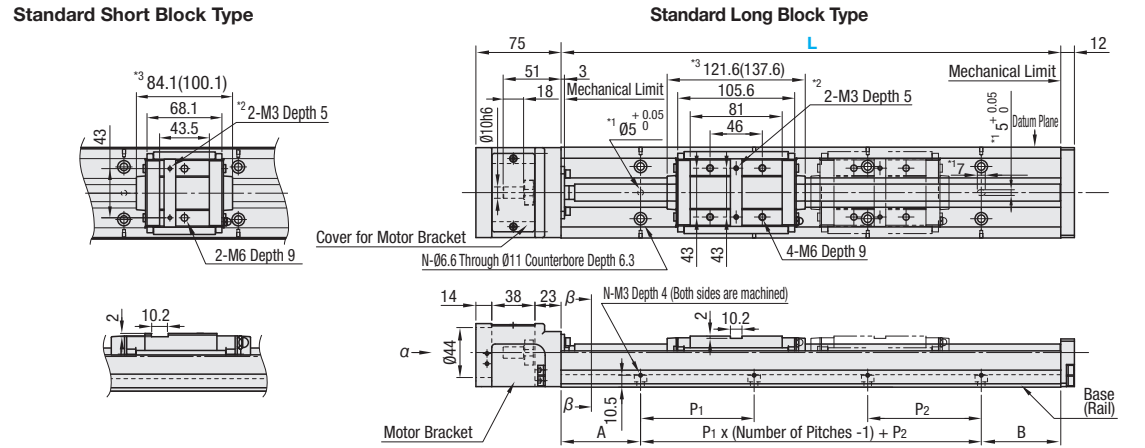
⑤ Black Anodize

⑥ SUSXW7

⑦ For Material table, see P.411

Part Number	Standard Grease		Low Dust Generation Grease		Lubrication Unit MX-equipped (Standard Grease)	
	High Grade	Precision Grade	High Grade	Precision Grade	High Grade	Precision Grade
Lead 10	LX4510 (C)	LX4510 (C) P	LX4510 (C) G	LX4510 (C) PG	LX4510 (C) -MX	LX4510 (C) P-MX
Lead 20	LX4520 (C)	LX4520 (C) P	LX4520 (C) G	LX4520 (C) PG	LX4520 (C) -MX	LX4520 (C) P-MX

① (C) is for Cover Type. ② Low Dust Generation Grease Information P414 ③ Lubrication Unit MX Information P408



■ Accuracy Standards

Accuracy Standards	High Grade	Precision Grade
Positioning (mm)	0.1	0.025
Backlash (mm)	0.02	0.003
Positioning Repeatability (mm)	±0.005	±0.003
Running Parallelism (mm)	0.035	0.015
Starting Torque (N·cm)	10	

① See P413 for Maximum Velocity.
② See P412 for Moment of Inertia.

■ Effective Stroke, Total Mass

Base Overall Length (L)	* Effective Stroke				* Total Mass (kg)									
	MX-unequipped				MX-equipped				Standard					
	B1	B2	S1	S2	B1	S1			B1	B2	S1	S2		
340	210.4	88.8	247.9	163.8	194.4	231.9	5.77	6.69	5.37	5.91	6.59	8.09	5.94	6.78
390	260.4	138.8	297.9	213.8	244.4	281.9	6.37	7.29	5.98	6.51	7.23	8.73	6.57	7.41
440	310.4	188.8	347.9	263.8	294.4	331.9	6.97	7.9	6.58	7.11	7.86	9.36	7.2	8.04
490	360.4	238.8	397.9	313.8	344.4	381.9	7.57	8.5	7.18	7.71	8.49	9.99	7.84	8.68
540	410.4	288.8	447.9	363.8	394.4	431.9	8.18	9.1	7.78	8.31	9.13	10.63	8.47	9.31
590	460.4	338.8	497.9	413.8	444.4	481.9	8.78	9.7	8.39	8.92	9.76	11.26	9.1	9.94

* Effective stroke is indicated in dimensions with a margin of 2.5mm each from the ends.
* MX-equipped types are +0.024kg.

■ Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Wattage
A4538	□38	Panasonic	
A4540	□40	Yasukawa Electric Corporation	50W/100W
		Mitsubishi Electric Corporation	
		Keyence Corporation	
		Omron Corporation	
A4560	□60	Sanyo Denki Co., Ltd.	30W/50W/100W
		Yasukawa Electric Corporation	
		Mitsubishi Electric Corporation	
		Sanyo Denki Co., Ltd.	
MA4560	□60	Omron Corporation	200W/400W
		Keyence Corporation	
MA4560	□60	Panasonic	100W/200W/300W

■ Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Type
T4560	□60	Oriental Motor	5-phase / α -Step
T4556.4	□56.4	NEMA standards	-
T4585	□85		

① NEMA standards are a set of standards stipulated by National Electrical Manufacturers Association of United States.
② For details on supported motor types and detailed diagram of Motor Adapter Plates, see P437
③ Not compatible with geared motors made by Oriental Motor.

Ordering Example

Part Number

Block Qty.

Motor Adapter Plates

Base Length (L)

LX4510C

B1

A4540

540

LX4520-MX

B1

A4560

390

Lubrication Unit MX-equipped

Patented

Provides long term maintenance-free operation.
For details, see P408

■ Unit price for Precision Grade / Low Particle Generation Grease Option / Lubrication Unit MX-equipped

Specifications	Unit Price
Precision Grade	
Low Dust Generation Grease	
Lubrication Unit MX-equipped	

① Listed Price + Unit Price = Product Price
② Volume Discount Rate is applicable.

High Grade Unit Price

Part Number	L=340	L=390	L=440	L=490	L=540	L=590	Motor Adapter Plates	Block Qty.	Screw Shaft Dia.	Lead
LX45□□-B1/S1-□							Servo Stepping No Adapter Plate	1	15	10
LX45□□-B2/S2-□								2		
LX45□□-B1/S1-F							No Bracket	1	15	20
LX45□□-B2/S2-F								2		
LX45□□-C-B1/S1-□							Servo Stepping No Adapter Plate	1	15	10
LX45□□-C-B2/S2-□								2		
LX45□□-C-B1/S1-F							No Bracket	1	15	20
LX45□□-C-B2/S2-F								2		

① LX45□□(C) Series sensor set can be specified as an alteration. For Detailed alteration diagram, see P432