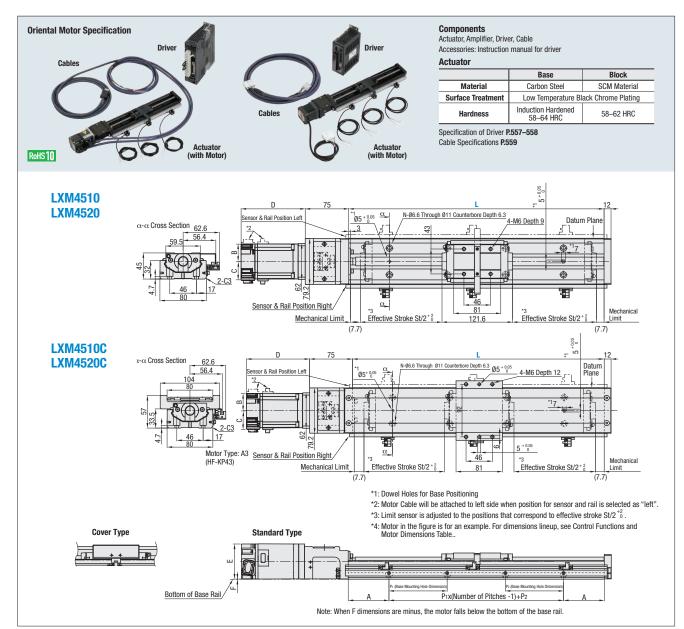
Single Axis Actuator LX45

With Motor, Standard Type



O For hole dimension details, P.538. Avoid interference with Sensor Flag.

Standard Specifications

Part Number	Lead Ball Screw		Positioning	Donitioning	Parallelism	Backlash	Allowable Static Moment (N · m)		
Part Number	(mm)	Diameter (mm)	Repeatability (mm)	Positioning	(mm)	(mm) (mm)	Ma	Mb	Mc
LXM4510C	10	Ø15	±0.003	0.025	0.015	0.003	291	291	972
LXM4520C	20	(Ground)	±0.003						
LXM4510	10	Ø15	0.000	0.005	0.045	0.000	001	004	070
LXM4520	20	(Ground)	±0.003	0.025	0.015	0.003	291	291	972

^{*}For description of allowable static moment, see P.520.

Control Functions

Manufacturer	Motor						Motor Driver Set			
wanulacturer	Selection	Motor	Manufacturer Part Number	Output / Type	Brake (Note 1)	Mass (kg)	Selection	Power Supply	Manufacturer Part Number	Part Number
	T3E		ARM66AC	α-Step	None -	0.9	D3E	Single-Phase AC100V	ARD-A	AR66AA
	T5E		PKE566AC	5-Phase		0.9	D5E		RKSD507-A	RKS566AA
Oriental Motors	T3BE	Stepping	ARM66MC	α-Step		1.2	D3E		ARD-A	AR66MA
	T5BE		PKE566MC	5-Phase		1.2	D7E		RKSD507M-A	RKS566MA

Single Axis Actuator LX45

With Motor, Standard Type, continued

Load Capacity / Max. Velocity Correlation Table

	Part	Manufacturer	Motor Type	Load Cap	acity (kg)	Maximum Speed (mm/sec)	
	Number	wanuracturer	wotor type	Horizontal	Vertical	Horizontal	Vertical
	LXM4510 LXM4510C	Oriental	T3(B)E	40	16	200	175
		Motors	T5(B)E		10	165	25
	LXM4520	Oriental	T3(B)E	24	16	300	200
LXIV	LXM4520C	Motors	T5(B)E	24	10	255	10

- * Load capacity and max. speed are reference values and may vary depending on operating conditions.
- * Horizontal load capacity is for motor without brake and vertical load is for motor with brake.

* Distance for Acceleration/Deceleration: 25 mm for LXM4510, 50 mm for LXM4520

Cable Configuration List

LXM4510C

LXM45200

Cables come with terminal plug that directly connects to motor amplifier and driver.

function table.

	Manufacturer Name	Motor Type	Motor Power Cable	Brake Cable	Encode Cable	
		T3E	1 pc. CC030VAR	_		
	Oriental Motors	T5E	1 pc. CC030VPF —			
		T3BE	1 pc. CC030VARB (Cable Set for Motor With Electromagnetic Brake)			
		T5BE	1 pc. CC030VPFB (Cable Set for Motor With Electromagnetic Brake)			

Motor Dimensions Table

Manufacturer Name	Motor Type	Width B (mm)	Width C (mm)	Length D (mm)	Height E (mm)	Bottom Height F (mm)
Oriental Motors	T3E	30	30	73.6	60.5	0.5
	T3BE	30	30	109.5	60.5	0.5
	T5E	30	30	69.5	60.5	0.5
	T5BE	30	30	104.5	60.5	0.5

Dimension / Actuator Body Weight

Part Number	Item	Base Length L (mm)						
rait Nullipei	Itelli	340	390	440	490	540	590	
	Effective Stroke (St)	200	250	300	350	400	450	
LXM4510	Α	70	70	70	70	70	70	
LXM4510 LXM4520	P ₁	100	100	100	100	100	100	
LXM4510C	P ₂	100	50	100	50	100	50	
LXM4520C	Number of Pitches	2	3	3	4	4	5	
	Number of Holes N	6	8	8	10	10	12	
Standard Type Body Mass (kg)		6.06	6.68	7.29	7.91	8.54	9.17	

* Mass shown includes actuator, coupling, sensor rail, 3 sensors and sensor flag. For motor mass, see the control function table

(Note 1) Choose motor with brake when unit is used in vertical position.

(Note 2) When ordering "Without Driver" Type, driver is not included.

(Note 3-1) When ordering "with cables" type, cables indicated in cable configuration list will be included with unit. Specifications, **P.559**.

(Note 3-2) To use cables with length other than 3 m, choose "without cable" type and order cable separately from the selection on **P.559**.

(Note 4-1) Sensor rail comes with the unit even when no. of sensor is specified as "none";

sensor flag will not be included.

(Note 4-2) Terminals for sensor cables is not provided.

None: N

(Note 4-3) The sensor provided with LXM series actuators went through a model change. FPML24 was discontinued and replaced by the next-generation FPML25 in April 2017.

Left: L

Part Number	Selection									
Part Number	Motor	Driver Type	Cable (Note 3)	Number of Sensors (Note 4)	Sensor & Rail Location	Base Length L (mm)				
LXM4510 LXM4520 LXM4510C	Control Functions Select from control	Control Functions Select from control	Included (3 m): 3	2 Units: 2 3 Units: 3	Right: R	340–590 (50 Pitch)				

None: N



function table.

