

Card Motor

Card Motor LAT3



- The transportation, pushing, and length measurement systems have been miniaturized through the use of a linear motor.
- Thickness 9 mm, Weight 130 g (At a stroke of 10 mm)
- Linear motor type: Moving magnet type linear motor
- Max. pushing force: 6 N
- Positioning repeatability: $\pm 5 \mu\text{m}$
- Pushing measurement accuracy: $\pm 10 \mu\text{m}$
- Max. operating frequency: 500 cpm

Model	Stroke [mm]	Sensor (Optical linear encoder) Resolution	Pushing Max. instantaneous thrust	Positioning repeatability	Pushing measurement accuracy	Max. speed
LAT3F	10, 20, 30, 50	1.25 μm	Up to 6 N	$\pm 5 \mu\text{m}$	$\pm 10 \mu\text{m}$	400 mm/s
LAT3M	50	5 μm	Up to 6 N	$\pm 20 \mu\text{m}$	$\pm 40 \mu\text{m}$	400 mm/s
LAT3	10, 20, 30	30 μm	Up to 6 N	$\pm 90 \mu\text{m}$	$\pm 100 \mu\text{m}$	400 mm/s

Card Motor Controller LATCA



- Easy programming (Cycle time entry)
Just input 3 parameters: Positioning time, Target position, Load mass

Type	Series	Power supply voltage	Parallel I/O	
			Input	Output
Step data input type/ Pulse input type	LATCA	24 VDC $\pm 10\%$	6 inputs (Optically isolated)	4 outputs (Optically isolated, open collector output)

Slider Type

Electric Actuator/Slider Type, Ball Screw Drive LEFS

Motorless Type

Clean Room Specification



LEFS Series Step Motor (Servo/24 VDC), Servo Motor (24 VDC)

- Max. work load: 65 kg
- Positioning repeatability: $\pm 0.015 \text{ mm}$ (High precision type)
- Clean specification: Complies with ISO Class 4 (ISO14644-1) (11-LEFS)
- Compatible controllers/drivers: LECP6, LECA6, LECP1, LECPA, LECPM1, JXC91, JXC73/83/93

LEFS Series AC Servo Motor

- High output motor (100/200/400 W)
- Improved high speed transfer ability
- High acceleration/deceleration (20,000 mm/s^2)
- Pulse input type
- With internal absolute encoder
- Positioning repeatability: $\pm 0.01 \text{ mm}$ (High precision type)
- Clean specification: Complies with ISO Class 4 (ISO14644-1) (11-LEFS)
- Compatible drivers: LECSA, LECSB, LECS, LECS, LECS-T, LECS□
- Motorless specification is available.

Specification	Model	Stroke [mm]	Work load [kg] Horizontal	Speed [mm/s]	Screw lead [mm]
Step motor (Servo/24 VDC)	LEFS16	50 to 500	Max. 15	Max. 700	5, 10
	LEFS25	50 to 800	Max. 30	Max. 1100	6, 12, 20
	LEFS32	50 to 1000	Max. 50	Max. 1200	8, 16, 24
	LEFS40	150 to 1200	Max. 65	Max. 1200	10, 20, 30
Servo motor (24 VDC)	LEFS16A	50 to 500	Max. 10	Max. 500	5, 10
	LEFS25A	50 to 800	Max. 18	Max. 800	6, 12, 20
AC servo motor (100/200/400 W)	LEFS25S	50 to 800	Max. 20	Max. 1500	6, 12, 20
	LEFS32S	50 to 1000	Max. 45	Max. 1500	8, 16, 24
	LEFS40S	150 to 1200	Max. 60	Max. 1500	10, 20, 30

Specification	Model	Stroke [mm]	Work load [kg] Horizontal	Speed [mm/s]	Equivalent lead [mm]
Step motor (Servo/24 VDC)	LEFB16	300 to 1000	1	48 to 1100	48
	LEFB25	300 to 2000	10	48 to 1400	48
	LEFB32	300 to 2000	19	48 to 1500	48
Servo motor (24 VDC)	LEFB16A	300 to 1000	1	5 to 2000	48
	LEFB25A	300 to 2000	2	5 to 2000	48
AC servo motor	LEFB25S	300 to 2000	5	Max. 2000	54
	LEFB32S	300 to 2500	15	Max. 2000	54
	LEFB40S	300 to 3000	25	Max. 2000	54

Drive method	Model	Stroke [mm]
Ball screw drive/S	LEFG16-S	50 to 500
Ball screw drive/S	LEFG25-S	50 to 800
Ball screw drive/S	LEFG32-S	50 to 1000
Ball screw drive/S	LEFG40-S	150 to 1200
Belt drive/BT	LEFG16-BT	300 to 1000
Belt drive/BT	LEFG25-BT	300 to 2000
Belt drive/BT	LEFG32-BT	300 to 2000
Belt drive/BS	LEFG25-BS	300 to 2000
Belt drive/BS	LEFG32-BS	300 to 2500
Belt drive/BS	LEFG40-BS	300 to 3000

Specification	Model	Stroke [mm]	Work load [kg] Horizontal	Speed [mm/s]	Screw lead [mm]
AC servo motor	LEJS40	200 to 1200	Max. 55	Max. 1800	8, 16, 24
	LEJS63	300 to 1500	Max. 85	Max. 1800	10, 20, 30

Slider Type

Electric Actuator/High Rigidity Slider Type, Belt Drive **LEJB**



- Max. stroke: 3000 mm
- Max. speed: 3000 mm/s
- Max. acceleration/deceleration: 20000 mm/s²
- Compatible drivers: LECSA, LECSB, LECSA, LECSA
- Motorless specification is available.

Specification	Model	Stroke [mm]	Work load [kg] Horizontal	Speed [mm/s]	Screw lead [mm]
AC servo motor	LEJB40	200 to 2000	Max. 20	Max. 2000	27
	LEJB63	300 to 3000	Max. 30	Max. 3000	42

Electric Actuator/Compact Slider Type **LEM**



- Low-profile, Low center of gravity
Table height: 28 mm
(In the case of LEMC/H/HT, size 25)
- Can be combined with various guides
- High maintainability
- Motor mounting position: Select from above or below, right or left
- Solid state auto switches can be mounted for limit confirmation and intermediate signal confirmation.
- Selectable controllability (Controller)
Complete control like an air cylinder (Allows for a 12 point intermediate stop)
Easy position setting by value input
- Compatible controllers: LECP2, LECP6, LECP1, LECPMJ, JXC91

Guide type	Model	Stroke [mm]	Work load [kg]	Speed [mm/s]	Equivalent lead [mm]
Basic	LEMB	50 to 2000	6, 11	Max. 1000	48
Cam follower guide	LEMC	50 to 2000	10, 20	Max. 1000	48
Linear guide (Single axis)	LEMH	50 to 1500	10, 20	Max. 2000	48
Linear guide (Double axis)	LEMHT	100 to 1500	10, 20	Max. 2000	48

Electric Actuator/Guide Rod Slider, Belt Drive **LEL**



- Low profile/Flat: Height 48 mm
- Profile reduced by the side mounting of the motor.
No interference with the motor, even with large workpieces.
- Auto switch mountable (Made to order)
- Max. stroke: 1000 mm
- Transfer speed: 1000 mm/s
- Positioning repeatability: ±0.1 mm
- Compatible controllers: LECP6, LECP1, LECPMJ, JXC91

Specification	Model	Bearing	Stroke [mm]	Work load [kg]	Speed [mm/s]
Step motor (Servo/24 VDC)	LEL25M	Sliding bearing	100 to 1000	3	Max. 500
	LEL25L	Ball bushing bearing	100 to 1000	5	Max. 1000