

Variations by Type LE□ Series

Series	
Slider	High rigidity and high precision LEKFS Series
	High performance LEFS□F Series
	LEF Series
	High rigidity LEJ Series
	Guide rod LEL Series
	Low profile LEM Series
Rod	LEY Series
	With guide LEYG Series
Slide Table	High precision LESYH Series
	Compact/High rigidity LES/LESH Series
Miniature	LEP Series
Rotary Table	LER Series
Gripper	LEH Series

Drive method								
Screw		Ball screw	Belt	6	8	10	16	20
Ball	Slide							
		Stroke Up to 600 mm						
		Stroke Up to 1200 mm						
		Stroke Up to 1200 mm	Stroke Up to 3000 mm					
		Stroke LEJS Up to 1500 mm LEJS-M Up to 1790 mm	Stroke Up to 3000 mm					
			Stroke Up to 1000 mm					
			Stroke Up to 2000 mm					
		Stroke Up to 800 mm						
		Stroke Up to 300 mm						
		Stroke Up to 150 mm						
		Stroke Up to 150 mm						
		Stroke Up to 75 mm						
		Worm gear						

Size							Compatible motor					Environmental resistance			Page
25	30	32	40	50	63	100	Battery-less absolute (Step motor 24 VDC)	Step motor (Servo 24 VDC)	Servo motor (24 VDC)	AC servo	Motorless	Secondary battery p. 880	Clean p. 880	Dust-tight/Water-jet-proof p. 880	
															40
															72
														(Air purge) ★	94
														(Air purge) ★	282
															338
														IP65 equivalent/ IP67 equivalent: -X7, -X8 (Size 25, 32, 40 only)	358
														IP65 equivalent: -X5, LEY63-P (Size 25, 32, 63 only)	412
															412
															580
															634
															736
														(Air purge) ★	766
														LEHZ/ IP50 equivalent	804

* Excludes sizes 63 and 100

* Size 25 only

* LER50 only

* LEHF32 and 40 only

★...Available as a special product. Please contact SMC. ●...Available with intermediate supports (LEJS63 only)





Variations by Motor

Battery-less Absolute (Step Motor 24 VDC)

Type		High rigidity and high precision slider	Slider		Rod		Slide Table		
Series		LEKFS	LEFS	LEFB	LEY	LEYG	High precision type LESYH	Compact type LES	High rigidity type LESH
Drive method		Ball screw	Ball screw	Belt	Ball screw + Belt (In-line: Ball screw)	Ball screw + Belt (In-line: Ball screw)	Ball screw/ LESYH□D Ball screw + Belt/ LESYH□ (R, L)	—	—
Max. speed*1 [mm/s]		1200	1200	1500	500	500	400	400	400
Positioning repeatability [mm]		±0.01	±0.015	±0.08	±0.02	±0.02	±0.01	±0.05	±0.05
Drive motor	Step motor	●	●	●	●	●	●	●	●
Size	8						●		
	16		●	●	●	●	●		
	25	●	●	●	●	●	●	●	●
	32	●	●	●	●	●			
	40	●	●		●	●			
Max. work load [kg] The values in parentheses are for when mounted vertically.	8						2 (6)		
	16		15 (4)	1	35 (8)	35 (7.5)	8 (12)		
	25	30 (15)	30 (15)	10	70 (30)	70 (29)	12 (20)	5 (5)	12 (4)
	32	50 (20)	50 (20)	19	80 (43)	80 (41)			
	40	65 (23)	65 (23)		90 (53)	90 (51)			
Max. pushing force [N]	8						138		
	16				141	141	348		
	25				452	452	420	180	180
	32				707	707			
	40				1058	1058			
Max. stroke [mm]		600	1200	2000	500	300	150	150	150
Auto switch mounting		●	●	●	●	●	●		
Compatible controller	JXC51/61	Parallel I/O	●	●	●	●	●	●	●
	JXCE□	EtherCAT	●	●	●	●	●	●	●
	JXC91	EtherNet/IP	●	●	●	●	●	●	●
	JXCP1	PROFINET	●	●	●	●	●	●	●
	JXCD1	DeviceNet	●	●	●	●	●	●	●
	JXCL□	IO-Link	●	●	●	●	●	●	●
	JXCM1	CC-Link	●	●	●	●	●	●	●
Page		53	139	217	447	533	603	659	705

*1 The numerical values vary depending on the controller/driver type, work load, speed, and specifications.
For details, refer to the "Speed-work load graph (Guide)," "Dynamic allowable moment," and "Specifications" of each actuator.

Type			Rotary Table	Gripper
Series			LER 	LEHF 
Max. speed*1			420 [°/s]	100 [mm/s]
Positioning repeatability			±0.05 [°] (±0.03 [°]) *3	±0.1 (One side) [mm]
Drive motor	Step motor		●	●
Size	32			●
	40			●
	50		●	
Max. moment of inertia [kg·m ²]	Size	50	0.13	
Max. rotating torque [N·m]	Size	50	10	
Rotation angle [°]			320	
Max. gripping force [N]	Size	32		120
		40		180
Max. gripping stroke [mm]	Size	32		32 (64) *2
		40		40 (80) *2
Auto switch mounting			●	●
Compatible controller	JXC51/61	Parallel I/O	●	●
	JXCE□	EtherCAT [®]	●	●
	JXC91	EtherNet/IP	●	●
	JXCP1	PROFI NET [®]	●	●
	JXCD1	DeviceNet	●	●
	JXCL□	IO-Link	●	●
	JXCM1	CC-Link	●	●
Page			779	849

*1 The numerical values vary depending on the controller/driver type, work load, speed, and specifications. For details, refer to the “Speed-work load graph (Guide),” “Dynamic allowable moment,” and “Specifications” of each actuator.

*2 The values in parentheses are for the long stroke type.

*3 The values in parentheses are for the table accuracy of the high-precision type.

Variations by Motor

Incremental (Step Motor 24 VDC)

Incremental (Servo Motor 24 VDC)

Type		Slider							
Series	Image	LEFS		LEFB		LEL		Image	
		High performance LEFS□F				Sliding (M)	Ball bushing (L)		
Drive method		Ball screw	Ball screw	Ball screw	Belt	Belt	Belt	Belt	
Max. speed*1 [mm/s]		1500	1200	1200	2000	2000	500	1000	
Positioning repeatability [mm]		±0.015	±0.015	±0.015	±0.08	±0.08	±0.08	±0.08	
Drive motor	Step motor	●	●	●	●	●	●	●	●
	DC servo motor			●		●			
Size	16	●	●	●	●	●			
	25	●	●	●	●	●	●	●	
	32	●	●		●				
	40	●	●						
	63								
Max. work load [kg] The values in parentheses are for when mounted vertically.	16	20 (6)	15 (4)	10 (4)	1	1			
	25	40 (15)	30 (15)	18 (5)	10	2	3	5	
	32	68 (18)	50 (20)		19				
	40	75 (25)	65 (23)						
	63								
Max. pushing force [N]	16								
	25								
	32								
	40								
	63								
Max. stroke [mm]		1200	1200	1200	2000	2000	1000	1000	
Auto switch mounting		●	●	●	●	●	●	●	
Compatible controller	JXC51/61		●		●		●	●	
	JXC5H/6H	●							
	JXCE1/91/P1/D1/L1/M1 JXCEF/JXCLF		●		●		●	●	
	JXCEH/9H/PH	●							
	LECA6			●		●			
	LECP1		●		●		●	●	
	LECP2								
	LECPA		●		●				
	JXC73/83		●		●				
	JXC92		●		●				
JXC93		●		●					
Page		83	161	161	227	227	347	347	





*1 The numerical values vary depending on the controller/driver type, work load, speed, and specifications. For details, refer to the "Speed-work load graph (Guide)," "Dynamic allowable moment," and "Specifications" of each actuator.

					Rod				Type		
LEM					LEY		LEYG		Series		
Basic (B)	Cam follower guide (C)	Linear guide single axis (H)	Linear guide double axis (HT)	Step/DC servo motor		Step/DC servo motor					
					Secondary Battery Compatible		IP65 Equivalent/IP67 Equivalent				
Belt					Ball screw + Belt (In-line: Ball screw)		Ball screw + Belt (In-line: Ball screw)		Drive method		
1000		2000			500		500		Max. speed*1 [mm/s]		
±0.08					±0.02		±0.02		Positioning repeatability [mm]		
●	●	●	●	●	●	●	●	●	Step motor	Drive motor	
					●		●	●	DC servo motor		
●	●	●	●	●	●	●	●	●	16	Size	
●	●	●	●	●	●	●	●	●	25		
●	●	●	●	●	●	●	●	●	32		
					●	●	●	●	40		
							●	●	63		
					35 (8)	12 (8)	35 (7.5)	12 (7.5)	16	Size	Max. work load [kg] The values in parentheses are for when mounted vertically.
6	10	10	10	70 (30)	30 (12)	70 (29)	30 (11)	25			
11	20	20	20	80 (43)		80 (41)		32			
				90 (53)		90 (51)		40			
									63		
					141	111	141	141	16	Size	Max. pushing force [N]
					452	130	452	452	25		
					707		707		32		
					1058		1058		40		
									63		
2000		1500			500		300		Max. stroke [mm]		
●	●	●	●	●	●	●	●	●	Auto switch mounting		
●	●	●	●	●	●	●	●	●	JXC51/61		
									JXC5H/6H		
●	●	●	●	●	●	●	●	●	JXCE1/91/P1/D1/L1/M1		
									JXCEF/JXCCLF		
									JXCEH/9H/PH		
●	●	●	●	●	●	●	●	●	LECA6		
●	●	●	●	●	●	●	●	●	LECP1		
●	●	●	●	●	●	●	●	●	LECP2		
					●	●	●	●	LECPA		
					●	●	●	●	JXC73/83		
					●	●	●	●	JXC92		
					●	●	●	●	JXC93		
371	381	391			459		545		Page		






Variations by Motor

Incremental (Step Motor 24 VDC)

Incremental (Servo Motor 24 VDC)

Type		Slide Table				Miniature		
Series	Compact type LES		High rigidity type LESH		Rod type LEPY	Table type LEPS		
								
Max. speed*1 [mm/s]		400		400		350	350	
Positioning repeatability [mm]		±0.05		±0.05		±0.05	±0.05	
Drive motor	Step motor	●		●		●	●	
	DC servo motor		●		●			
Size	6					●	●	
	8	●	●	●	●			
	10					●	●	
	16	●	●	●	●			
	25	●	●	●	●			
Max. work load [kg] The values in parentheses are for when mounted vertically.	Size	6				2 (0.5)	1 (0.5)	
		8	1 (0.5)	1 (1)	2 (0.5)	2 (0.5)		
		10					6 (1.5)	2 (1.5)
		16	3 (3)	3 (3)	8 (2)	5 (2)		
		25	5 (5)	5 (4)	12 (4)	6 (2.5)		
Max. pushing force [N]	Size	6				20	20	
		8	15	11	15	11		
		10					50	50
		16	55	35	55	35		
		25	180	62	180	62		
Max. stroke [mm]		150		150		75	50	
Auto switch mounting								
Compatible controller	JXC51/61	●		●		●	●	
	JXCE1/91/P1/D1/L1 JXCEF/JXCLF	●		●		●	●	
	JXC73/83	●		●		●	●	
	JXC92	●		●		●	●	
	JXC93	●		●		●	●	
	LECA6		●		●			
	LECP1	●		●		●	●	
	LECPA	●		●		●	●	
Page		669		715		745	757	

*1 The numerical values vary depending on the controller/driver type, work load, speed, and specifications. For details, refer to the "Speed-work load graph (Guide)," "Dynamic allowable moment," and "Specifications" of each actuator.

Type		Rotary Table	Gripper				
Series		LER 	LEHZ (2 fingers) 	With dust cover LEHZJ (2 fingers)  <small>IP50 equivalent</small>	LEHF (2 fingers) 	LEHS (3 fingers) 	
	Max. speed*1 [mm/s]	420 [°/s]	120 [mm/s]	100 [mm/s]	100 [mm/s]	120 [mm/s]	
Positioning repeatability		±0.05 [°] (±0.03 [°])*3	±0.05 (One side) [mm]	±0.05 (One side) [mm]	±0.1 (One side) [mm]	±0.05 (Radius) [mm]	
Drive motor	Step motor	●	●	●	●	●	
	DC servo motor						
Size	10	●	●	●	●	●	
	16		●	●			
	20		●	●	●	●	
	25		●	●			
	30	●					
	32		●		●	●	
	40		●		●	●	
	50	●					
Max. moment of inertia [kg·m ²]	Size	10	0.004				
	30	0.035					
	50	0.13					
Max. rotating torque [N·m]	Size	10	0.32				
	30	1.2					
	50	10					
Rotation angle [°]		310/320/360 (Continuous rotation)					
Max. gripping force [N]	Size	10		14	14	7	5.5
		16		14	14		
		20		40	40	28	22
		25		40	40		
		32		130		120	90
		40		210		180	130
Max. gripping stroke [mm]	Size	10		4	4	16 (32)*2	4
		16		6	6		
		20		10	10	24 (48)*2	6
		25		14	14		
		32		22		32 (64)*2	8
		40		30		40 (80)*2	12
Compatible controller	JXC51/61	●	●	●	●	●	
	JXCE1/91/P1/D1/L1 JXCEF/JXCLF	●	●	●	●	●	
	JXC73/83	●	●	●	●	●	
	JXC92	●	●	●	●	●	
	JXC93	●	●	●	●	●	
	LECP1	●	●	●	●	●	
	LECPA	●	●	●	●	●	
Auto switch mounting							
Page		785	817	833	855	867	

*1 The numerical values vary depending on the controller/driver type, work load, speed, and specifications.

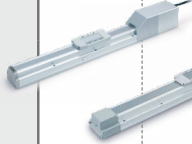
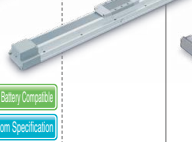
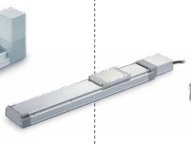



For details, refer to the "Characteristics graph" and "Specifications" of each actuator.

*2 The values in parentheses are for the long stroke type.

*3 The values in parentheses are for the table accuracy of the high-precision type.

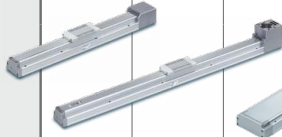




Variations by Motor

AC Servo Motor

Type		Slider						Rod				Slide Table
Series	LEFS	LEFB	LEJS	LEJS-M	LEJS-X400	LEJB	LEY		LEYG		High precision LESYH	
							Parallel motor	In-line motor	Parallel motor	In-line motor		
Drive method		Ball screw	Belt	Ball screw		Belt	Ball screw + Belt	Ball screw	Ball screw + Belt	Ball screw		
Max. speed [mm/s]		1500	2000	1800		2300	3000	1200	1000	1200	1000	400
Positioning repeatability [mm]		±0.01	±0.06	±0.01			±0.04	±0.02		±0.02		±0.01
Drive motor		AC servo motor	●	●	●	●	●	●	●	●	●	●
Size	16											●
	25	●	●					●	●	●	●	●
	32	●	●					●	●	●	●	
	40	●	●	●			●					
	63			●	●		●	●	●			
	100					●			●			
Max. work load [kg] The values in parentheses are for when mounted vertically.	16											8 (12)
	25	20 (15)	5					50 (30)	50 (30)	50 (29)	50 (29)	20 (385)
	32	45 (20)	15					60 (37)	60 (46)	60 (35)	60 (44)	
	40	60 (30)	25	55 (10)			20					
	63			85 (20)	85 (20)		30	200 (115)	80 (72)			
	100					400 (80)			1200 (200)			
Max. pushing force [N]	16											255
	25							485	485	485	485	385
	32							588	736	588	736	
	40											
	63							3343	1910			
	100								12000			
Max. stroke [mm]		1200	3000	1500	1790	1500	3000	800	1000	300		
Auto switch mounting		●	●	●	●	●	●	●	●	●	●	●
Compatible controller	LECSA	●	●	●	●		●	●	●	●	●	●
	LECSB-T	●	●	●	●	●	●	●	●	●	●	●
	LECSA-T	●	●	●	●		●	●	●	●	●	●
	LECSB-T	●	●	●	●	●	●	●	●	●	●	●
	LECSA-T	●	●	●	●		●	●	●	●	●	●
	LECSB-T	●	●	●	●	●	●	●	●	●	●	●
Page		182, 198	238, 254	305, 318	310, 322	313	323, 328	473, 489		559, 567		611, 619










Variations by Motor

Motorless

Type		Slider					Rod				Slide Table		
		LEFS	LEFB	LEJS	LEJS-M	LEJS-X400	LEY		LEYG		LESYH		
Series													
		Drive method	Ball screw	Belt	Ball screw	Ball screw	Ball screw	Ball screw + Belt	Ball screw		Ball screw + Belt	Ball screw	Ball screw + Belt
Max. speed [mm/s]		1500	2000	1800	1800	2300	1200	1000	500	1200	1000	400	
Positioning repeatability [mm]		±0.01	±0.06	±0.01	±0.01	±0.01	±0.02		±0.02		±0.01		
Size	16												●
	25	●	●				●	●		●	●		●
	32	●	●				●	●		●	●		
	40	●	●	●									
	63			●	●		●	●					
	100					●			●				
Max. work load [kg] The values in parentheses are for when mounted vertically.	16												8 (12)
	25	20 (15)	5				50 (30)	50 (30)		50 (29)	50 (29)		12 (20)
	32	45 (20)	15				60 (37)	60 (46)		60 (35)	60 (44)		
	40	60 (30)	25	55 (10)									
	63			85 (20)	85 (20)		200 (115)	80 (72)					
	100					400 (80)			1200 (200)				
Max. pushing force [N]	16												255
	25						485	485		485	485		385
	32						588	736		588	736		
	40												
	63						3343	1910	12000				
Max. stroke [mm]		1200	3000	1500	1790	1500	500	800	1000	300	300	150	
Reference motor specifications	Motor shape [mm]	□40/□60	□40/□60	□40/□60	□40/□60	□80	□40/□60		□80	□40/□60		□40/□60	
	Rated output capacity [W]	100 to 400	100 to 400	100 to 200	100 to 200	750	100 to 400		750	100 to 200		100 to 200	
Auto switch mounting		●	●	●	●	●	●	●	●	●	●	●	●
Compatible motor manufacturer	Mitsubishi Electric Corporation	●	●	●	●	●	●	●	●	●	●	●	●
	YASKAWA Electric Corporation	●	●	●	●	●	●	●	●	●	●	●	●
	SANYO DENKI CO., LTD.	●	●	●	●	●	●	●	●	●	●	●	●
	OMRON Corporation	●	●	●	●	●	●	●	●	●	●	●	●
	Panasonic Corporation	●	●	●	●	●	●	●	●	●	●	●	●
	FANUC CORPORATION	●	●	●	●	●	●	●	●	●	●	●	●
	NIDEC SANKYO CORPORATION	●	●	●	●	●	●	●	●	●	●	●	●
	KEYENCE CORPORATION	●	●	●	●	●	●	●	●	●	●	●	●
	FUJI ELECTRIC CO., LTD.	●	●	●	●	●	●	●	●	●	●	●	●
	MinebeaMitsumi Inc.	●	●	●	●	●	●	●	●	●	●	●	●
	Shinano Kenshi Co., Ltd.	●	●	●	●	●	●	●	●	●	●	●	●
	ORIENTAL MOTOR Co., Ltd.	●	●	●	●	●	●	●	●	●	●	●	●
	FASTECH Co., Ltd.	●	●	●	●	●	●	●	●	●	●	●	●
	Rockwell Automation, Inc.	●	●	●	●	●	●	●	●	●	●	●	●
	Beckhoff Automation GmbH	●	●	●	●	●	●	●	●	●	●	●	●
	Siemens AG	●	●	●	●	●	●	●	●	●	●	●	●
Delta Electronics, Inc.	●	●	●	●	●	●	●	●	●	●	●	●	
ANCA Motion	●	●	●	●	●	●	●	●	●	●	●	●	
Page		1153	1177	1213	1217	1219	1239		1259		1289		

Series		JXC51/61	JXC5H/6H	JXC□1 JXCEF/JXCLF	JXC□H	LECA6	LECP1	LECP2	LECPA
Drive motor	Battery-less absolute (Step motor 24 VDC)	●		●					
	Step motor (Servo 24 VDC)	●	●	●	●		●	●	●
	Servo motor (24 VDC)					●			
	AC servo motor								
Encoder	Incremental	●	●	●	●	●	●	●	●
	Absolute		●						
Control method	Parallel I/O	64 points	64 points			64 points	14 points	14 points	
	Pulse								●
	Numeric parameter (Serial communication)			●					
Function	Multi-axis control								
	Applicable network			EtherCAT*1 EtherNet/IP™ PROFINET DeviceNet® IO-Link*1 CC-Link	EtherCAT EtherNet/IP™ PROFINET				
	PC setting, graph/monitor	●	●	●	●	●			●
	Stroke study							●	
Compatible actuator	LEKFS		●		●				
	LEFS□F		●		●				
	LEFS	●	●	●	●	●	●		●
	LEFB	●	●	●	●	●	●		●
	LEJS								
	LEJB								
	LEL25M/L	●		●			●		
	LEMB/C/H/HT	●		●			●	●	
	LEY	●	●	●	●	●	●		●
	LEYG	●	●	●	●	●	●		●
	LESYH		●		●				
	LES	●	●	●	●	●	●		●
	LESH	●	●	●	●	●	●		●
	LEPY	●		●			●		●
	LEPS	●		●			●		●
	LER	●	●	●	●		●		●
	LEHZ	●		●			●		●
LEHZJ	●		●			●		●	
LEHF	●	●	●	●		●		●	
LEHS	●		●			●		●	
Page	1017	1024	1063	1071	1031	1042	1051	1057	

*1 The JXCEF with STO sub-function only supports EtherCAT, and the JXCLF with STO sub-function only supports IO-Link.

JXC92	JXC73/83	JXC93	LECSA	LECSB-T	LECSC-T	LECSS-T	LECYM	LECYU	Series
									
									Battery-less absolute (Step motor 24 VDC)
●	●	●							Step motor (Servo 24 VDC)
									Servo motor (24 VDC)
			●	●	●	●	●	●	AC servo motor
●	●	●	●						Incremental
				●	●	●	●	●	Absolute
	2048 points		7 points	255 points	255 points				Parallel I/O
			●	●					Pulse
●		●			●	●	●	●	Numeric parameter (Serial communication)
3 axes	4 axes	4 axes							Multi-axis control
EtherNet/IP™		EtherNet/IP™			CC-Link Ver. 1.10	SSCNET III/H	MECHATRO LINK-II	MECHATRO LINK-III	Applicable network
●	●	●	●	●	●	●	●	●	PC setting, graph/monitor
									Stroke study
									LEKFS
									LEFS□F
●	●	●	●	●	●	●	●	●	LEFS
●	●	●	●	●	●	●	●	●	LEFB
			●	●	●	●	●	●	LEJS
			●	●	●	●	●	●	LEJB
									LEL25M/L
									LEMB/C/H/HT
●	●	●	●	●	●	●	●	●	LEY
●	●	●	●	●	●	●	●	●	LEYG
			●	●	●	●	●	●	LESYH
●	●	●							LES
●	●	●							LESH
●	●	●							LEPY
●	●	●							LEPS
●	●	●							LER
●	●	●							LEHZ
●	●	●							LEHZJ
●	●	●							LEHF
●	●	●							LEHS
1079	1081				1109			1128	Page

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