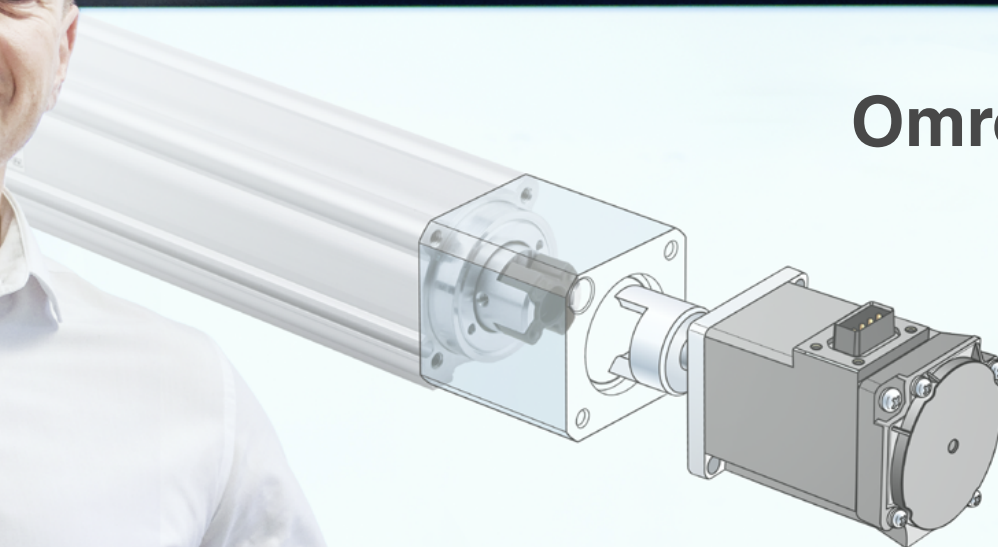




Expertise – Passion – Automation



Omron



Type	Slider					Rod				Slide Table	
Series	LEFS	LEFB	LEJS	LEJS-M	LEJS-X	LEY		LEYG		LESYH	
						Motor top/parallel (→, R, L)	In-line motor (D)	Motor top/parallel (→, R, L)	In-line motor (D)	Motor top/parallel (→, R, L)	In-line motor (D)
Drive method	Ball screw	Belt	Ball screw	Belt	Ball screw	Ball screw + Belt	Ball screw	Ball screw + Belt	Ball screw	Ball screw + Belt	Ball screw
Max. speed * [mm/s]	1500	2000	1800	1800	1800	1200	1000	1200	1000	400	400
Positioning accuracy [mm]	±0.01	±0.06	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01

**Your motor, our actuator**  
SMC solutions for motorless – Omron

## Just imagine you want to buy a new car

Oh man, you really like these comfortable seats, the size and shape with the spacious boot in a manufacturer's model. The luggage during the next family holidays luggage would cease to be a problem. But at the same time, you love the user interface and low fuel consumption of your other car. What a pity, these elements cannot be combined.

Let's transfer this example to industrial automation with electric actuators. You need an axis for a specific workload and cycle time. Your control engineer is an expert for a specific PLC type and has vast experience in setting up a specific motor type. Unfortunately, this motor supplier does not provide a mechanical axis which fits your application.

You could now start to design your own mechanical axis with a lot of external parts, design, test and assembly input. However, this is not really appealing due to resources, procurement, and warranty issues. There is, nevertheless, a manufacturer, offering a perfect axis but with another motor brand which your control engineer has no experience with.



**CLEMENS DOPPLER**  
TEAM LEAD ELECTRICAL TECHNOLOGY

## What a pity, these elements cannot be combined in the new actuator, can they?

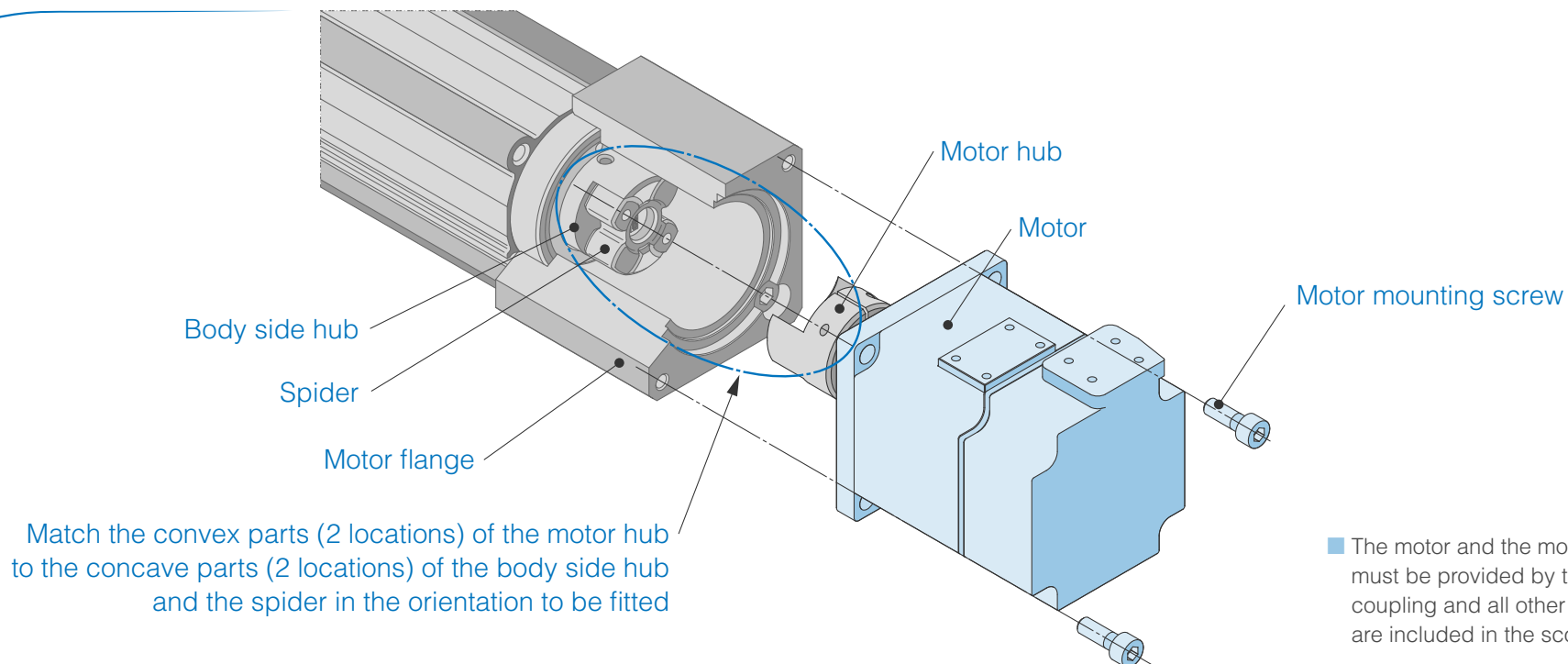
Yes, with motorless actuators you can very easily combine your favourite manufacturers' motors with a large portfolio of ready-to-use mechanical axes. With SMC in particular there is a plug-and-play solution for the most common motor manufacturers worldwide.

I would say that the benefits for machine builders are clear:

- Let your control engineer work with the system he knows best and is able to implement very quickly
- Keep your stock reduced with just one motor type for your machines
- Only one part number for procurement of the mechanical axis including all parts needed for pairing with the motor
- Ready-to-use sizing software for checking maximum workload, speed, acceleration and cycle time
- Different actuator types can be fitted with the same motor. (E.g., rod types or slider types).


*Let SMC help you in your motorless experience*

# What's in the package?



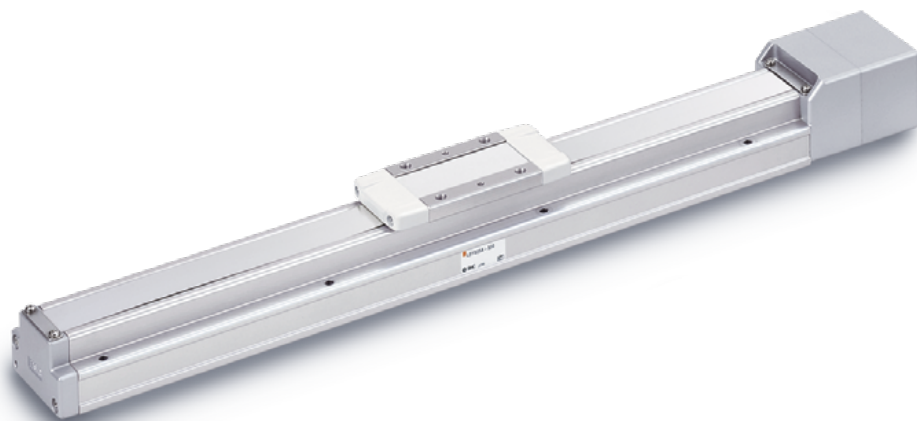
## Your motor, our actuator

SMC solutions for motorless – Omron

	<b>Slider type, ball screw drive</b> – LEFS Series	p4	<b>High precision table</b> – LESYH Series	p8
	<b>Slider type, belt drive</b> – LEFB Series	p5	<b>Rod type, ball screw</b> – LEY Series	p9
	<b>High rigidity slider type</b> – LEJS Series	p6	<b>Guide rod type, ball screw</b> – LEYG Series	p10
	<b>High rigidity and high precision slider type, ball screw</b> – LEKFS Series	p7		

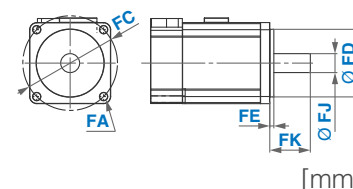
# Slider type, ball screw drive

## LEFS Series



### ⊕ Your everyday transfer solution for high loads

- High loads transfer & positioning, whatever the needs – Ball screw drive, the best for high loads and repeatable accurate positioning
- Ensure perfect precision –  $\pm 0.01$  position repeatability
- Speed up your motion – Up to 1500 mm/s
- Perfect strength-to-speed ratio – Up to 60 kg.



[mm]

Ask our experts

Series	Mounting/ Special	Direction	Motor	Ø bolt pattern pitch <b>FC</b>	Bolt size <b>FA</b>	Ø circle diameter <b>FD</b>	Max surface depth <b>FE</b>	Ø diameter <b>FJ</b>	Length (±1 mm) <b>FK-FE</b>
<b>LEFS32</b>	NY	Inline	R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)	70	M4	50	3.3	11	30
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	
<b>LEFS40</b>	NY		R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)		M4			11	
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	

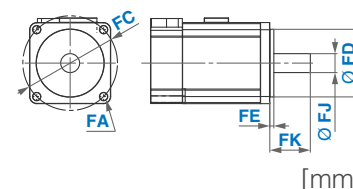
# Slider type, belt drive

## LEFB Series



### ⊕ Your everyday transfer solution at high speed

- High speed transfer & positioning, whatever the needs – Belt drive for smooth motion at higher speeds or longer movements
- Unbeatable for achieving great strokes – Up to 3000 mm
- Enhance high-speed transfer capacity – Up to 2000 mm/s
- Adapt to the needs – Motor mounting type top or bottom.



[mm]

Ask our experts

Series	Mounting/ Special	Direction	Motor	Ø bolt pattern pitch <b>FC</b>	Bolt size <b>FA</b>	Ø circle diameter <b>FD</b>	Max surface depth <b>FE</b>	Ø diameter <b>FJ</b>	Length (±1 mm) <b>FK-FE</b>
<b>LEFB32</b>	NY	Bottom, top	R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)	70	M4	50	3.3	11	30
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	
<b>LEFB40</b>	NY		R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)		M4			11	
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	

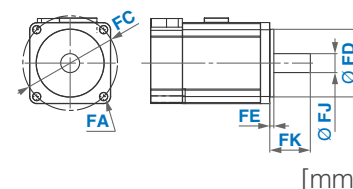
# High rigidity slider type

## LEJS Series



### ⊕ Our most rigid electric actuator

- Ensure robustness in your application – It supports eccentric loads with high accelerations, double-guide system, improving the dynamic allowable moments
- Increase your workload – Up to 85 kg.



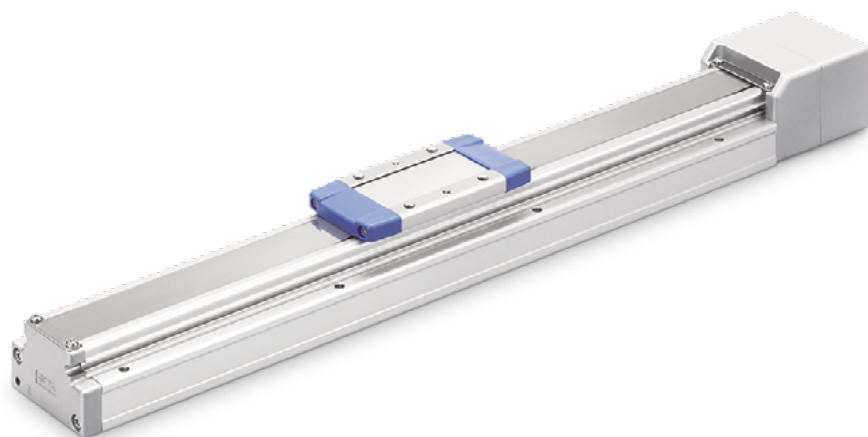
[mm]

Ask our experts

Series	Mounting/ Special	Direction	Motor	Ø bolt pattern pitch <b>FC</b>	Bolt size <b>FA</b>	Ø circle diameter <b>FD</b>	Max surface depth <b>FE</b>	Ø diameter <b>FJ</b>	Length (±1 mm) <b>FK-FE</b>
<b>LEJS40</b>	NY	Inline	R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)	70	M4	50	3.3	11	30
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	
<b>LEJS63</b>	NY		R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)		M4			11	
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5				

# High rigidity and high precision slider type, ball screw

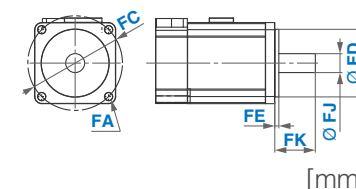
## LEKFS Series



### ⊕ Foolproof precision transfer, no slack

- Get perfect rigidity & precision – Reduced deflection and table displacement
- Boost product life & reduce maintenance time – Dust seal band magnet (all sizes)
- Guarantee impeccable accuracy –  $\pm 0.01$  position repeatability.

Ask our experts



Series	Mounting/ Special	Direction	Motor	Ø bolt pattern pitch <b>FC</b>	Bolt size <b>FA</b>	Ø circle diameter <b>FD</b>	Max surface depth <b>FE</b>	Ø diameter <b>FJ</b>	Length ( $\pm 1$ mm) <b>FK-FE</b>
<b>LEKFS32</b>	NY	Inline	R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)	70	M4	50	3.3	11	30
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	
<b>LEKFS40</b>	NY		R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)		M4			11	
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	

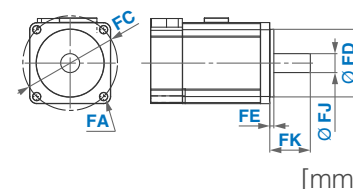
# High precision table

## LESYH Series



### ⊕ Extremely precise & compact, designed for transfer applications

- Successfully offer remarkable rigidity and precision – Reduced deflection.  $\pm 0.01$  mm position repeatability and great harshness. Lost motion reduction, 0.1 mm
- Boost your productivity – Maximum speed of 400 mm/s and maximum acceleration of 5000 mm/s<sup>2</sup>
- Use it as you wish – Vertical workload up to 20 kg and horizontal workload up to 12 kg.



[mm]

Ask our experts

Series	Mounting/ Special	Direction	Motor	Ø bolt pattern pitch <b>FC</b>	Bolt size <b>FA</b>	Ø circle diameter <b>FD</b>	Max surface depth <b>FE</b>	Ø diameter <b>FJ</b>	Length (±1 mm) <b>FK-FE</b>
<b>LESYH32</b>	NY	Inline, parallel (R/L)	R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)	70	M4	50	3.3	11	30
<b>LESYH32</b>	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	

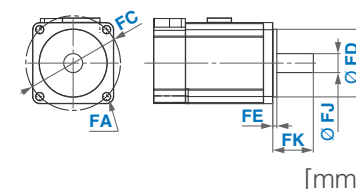
# Rod type, ball screw

## LEY Series



### ⊕ Your everyday pushing & pulling solution

- Meet any pushing or pulling challenge – Rod design
- Work it any way – Selectable motor mounting position, top, in-line, right and left mounting positions
- Optimal for achieving great strokes – Up to 800 mm.



[mm]

[Ask our experts](#)

Series	Mounting/ Special	Direction	Motor	Ø bolt pattern pitch <b>FC</b>	Bolt size <b>FA</b>	Ø circle diameter <b>FD</b>	Max surface depth <b>FE</b>	Ø diameter <b>FJ</b>	Length (±1 mm) <b>FK-FE</b>
<b>LEY32</b>	NY	Inline	R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)	70	M4	50	3.3	11	30
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	
<b>LEY63</b>	NY		R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T), R88M-KH20030(H/T), R88M-KH40030(H/T)		M4			11	
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5				

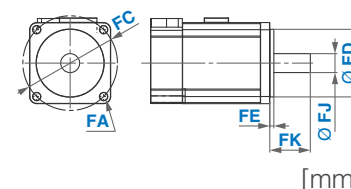
# Guide rod type, ball screw

## LEYG Series



### ⊕ Your everyday pushing & pulling solution

- Discover the undeniable rigidity – Three-guide system, high non-rotation accuracy  $\pm 0.01$  mm
- Perfect to suit your application – Sliding bearings & ball bushing types
- Work it any way – Selectable motor, right and left mounting positions.



Ask our experts

Series	Mounting/ Special	Direction	Motor	Ø bolt pattern pitch <b>FC</b>	Bolt size <b>FA</b>	Ø circle diameter <b>FD</b>	Max surface depth <b>FE</b>	Ø diameter <b>FJ</b>	Length ( $\pm 1$ mm) <b>FK-FE</b>
<b>LEYG32</b>	NY	Inline	R88M-1AM20030T-S2, R88M-1AM20030T-BS2, R88M-1M20030(H/T), R88M-K20030(H/T), R88M-K40030(H/T)	70	M4	50	3.3	11	30
	NZ		R88M-1AM40030T-S2, R88M-1AM40030T-BS2, R88M-1M40030(H/T), R88M-K05030(H/T), R88M-K10030(H/T)		M5			14	



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