Contact our sales office for delivery dates and prices as this is a special model.

Specialized Product P.G. Point to Group information

Motorless Type

Electric Actuator/Rod Type

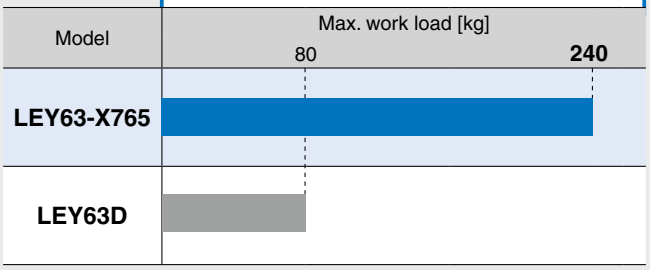
LEY63-X765

Features

● Supports 750 W motors

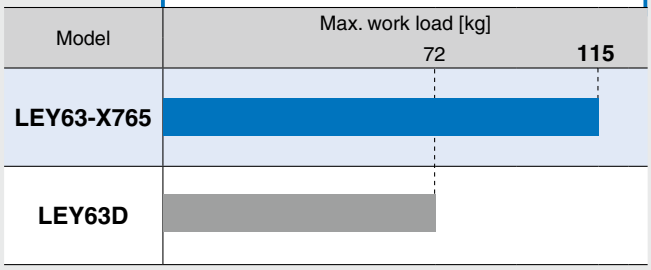
Max. horizontal work load

240 kg Increased by 3 times



Max. vertical work load

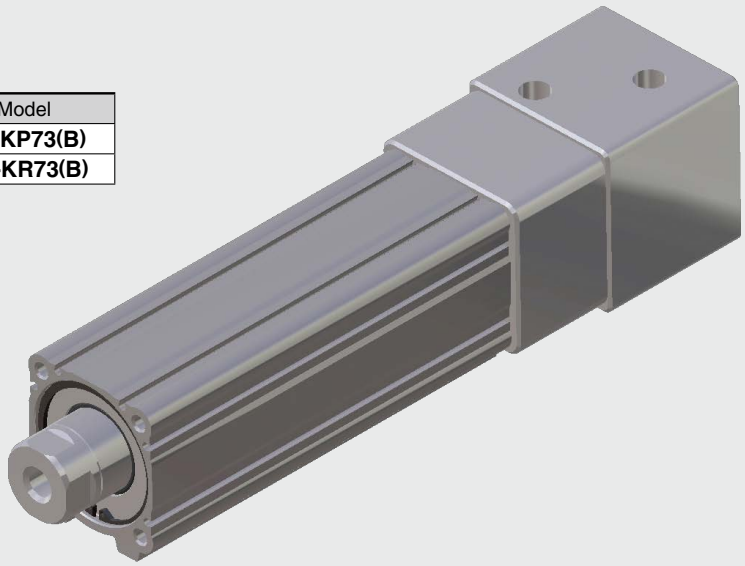
115 kg Increased by approx. 1.6 times



Lead: 5 mm, Speed: 250 mm/s, Motor mounting position: In-line

● Compatible Motors

Manufacturer	Series	Model
Mitsubishi Electric Corporation	MELSERVO-J3	HF-KP73(B)
	MELSERVO-J4	HG-KR73(B)



⚠ Caution To ensure the safest possible operation of this product, please be sure to thoroughly read the **"Safety Instructions"** in our "Best Pneumatics" catalog before use.

SMC Corporation 4-14-1, SOTO-KANDA, CHIYODA-KU, TOKYO 101-0021, JAPAN **URL: http://www.smcworld.com**

SP172X-031E
P: WY

How to Order

LEY ❶ 63DNZ ❷ – ❸ ❹ ❺ – X765

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Lead [mm]

A	20
B	10
C	5

❸ Stroke [mm]

100	100
to	to
800	800

❹ Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

❺ Mounting

Nil	Ends tapped/ Body bottom tapped
F	Rod flange

Specifications

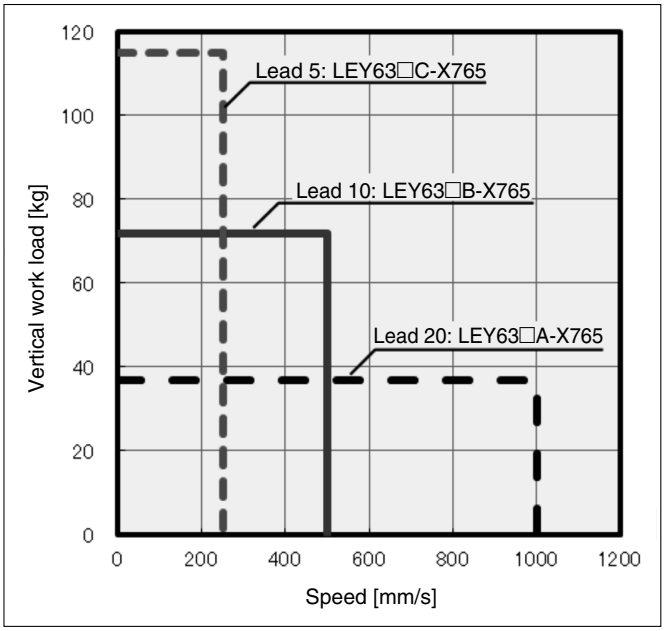
Values in this specifications table are the allowable values of the actuator body with the standard motor mounted. Do not use the actuator so that it exceeds these values.

Model			LEY63DN-X765		
Actuator specifications	**Stroke [mm]**∗1		100, 200, 300, 400, 500, 600, 700, 800		
	Work load [kg]	**Horizontal**∗2	80	150	240
		Vertical	37	72	115
	Force [N]∗3 **(Set value: Rated torque 45 to 135%)**		293 to 879	569 to 1708	1074 to 3223
	Max. speed∗4 **[mm/s]**	**Stroke range** **Up to 500**	1000	500	250
		505 to 600	800	400	200
		605 to 700	600	300	150
		705 to 800	500	250	125
	Pushing speed [mm/s]∗5		30 or less		
	Max. acceleration/deceleration [mm/s²]		5000		
	Positioning repeatability [mm]	**Basic type**	±0.02		
		High-precision type	±0.01		
	Lost motion [mm]∗6	**Basic type**	0.1 or less		
		High-precision type	0.05 or less		
	Ball screw specifications	**Thread size [mm]**	ø20		
		Lead [mm]	20	10	5
		Shaft length [mm]	Stroke + 204		
	Impact/Vibration resistance [m/s²]∗7		50/20		
	Actuation type		Ball screw		
	Guide type		Sliding bushing (Piston rod)		
	Operating temperature range [°C]		5 to 40		
	Operating humidity range [%RH]		90 or less (No condensation)		
Other specifications∗8	**Actuation unit weight [kg] (∗ [ST]: Stroke)**		0.84 + (2.77 x 10^{-3}) x [ST]: 200 st or less 0.94 + (2.77 x 10^{-3}) x [ST]: Over 200 st, 500 st or less 1.03 + (2.77 x 10^{-3}) x [ST]: Over 500 st		
	Other inertia [kg·cm²]		0.176		
	Friction coefficient		0.05		
	Mechanical efficiency [–]		0.8		
Applicable motor spec.	**Motor shape**		□60		
	Motor type		AC servo motor		
	Rated output capacity [W]		750 W		
	Rated torque [N·m]		2.4		
	Rated rotation [rpm]		3000		

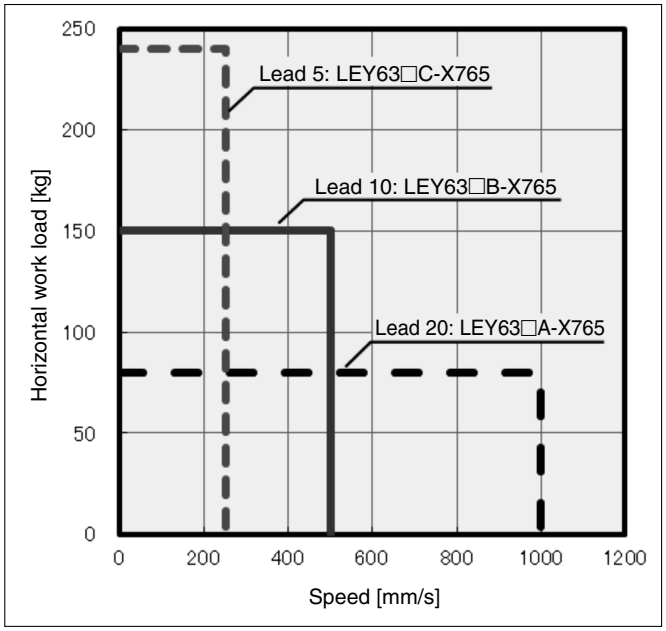
∗1 Please contact SMC for information on the manufacturing of strokes other than those shown above.
∗2 This is the maximum value of the horizontal work load. An external guide is necessary to support the load. The actual work load changes according to the condition of the external guide. Confirm the load using the actual device.
∗3 The force setting range for the force control (Speed control mode, Torque control mode)
The force changes according to the set value. Set it with reference to the "Force Conversion Graph (Guide)."
∗4 The allowable speed changes according to the stroke.
∗5 The allowable collision speed for collision with the workpiece
∗6 A reference value for correcting an error in reciprocal operation
∗7 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
∗8 Each value is only to be used as a guide to select a motor of the appropriate capacity.

Speed–Work Load Graph

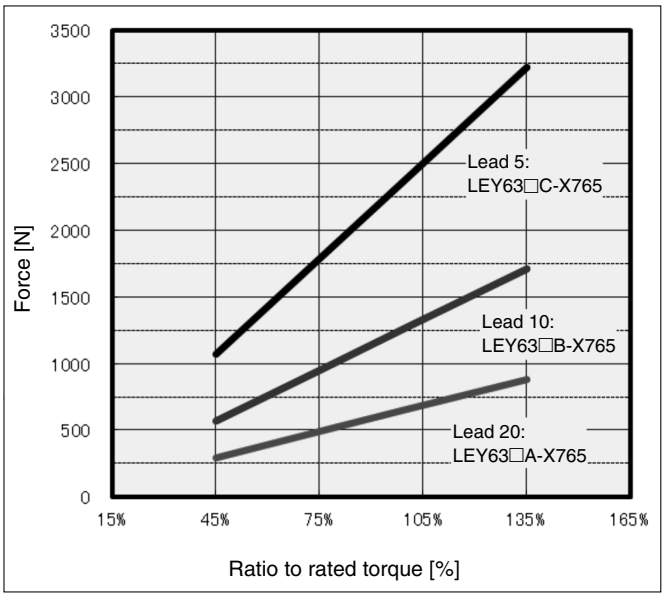
Vertical



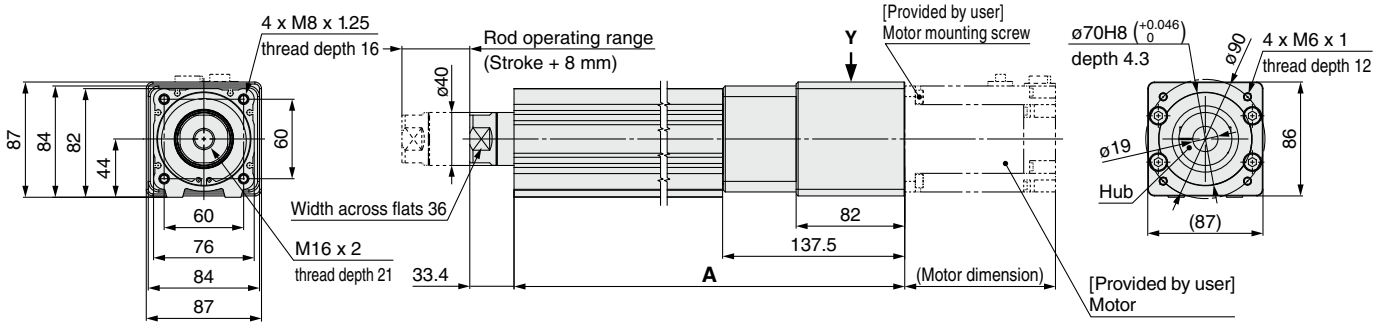
Horizontal

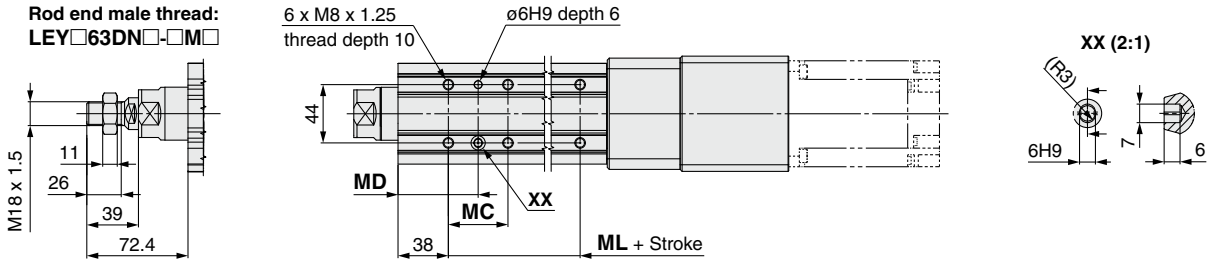


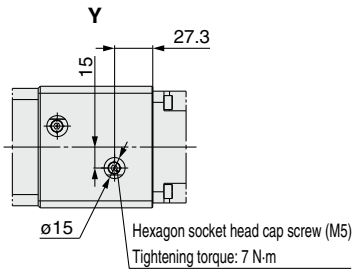
Force Conversion Graph (Guide)



Dimensions







Dimensions

Stroke [mm]	A	MC	MD	ML
100	360.5	45	60.5	65
200	460.5	58	67	
300	595.5	86	81	100
400	695.5			
500	795.5			
600	930.5			135
700	1030.5			
800	1130.5			

⚠ Caution

1. **The regenerative resistor should be selected by the user based on the load conditions.**
2. **The motor and motor mounting screws should be provided by the user.**
3. **Prepare a motor with a round shaft end.**
4. **When mounting a hub, remove all oil content, dust, and dirt adhered to the shaft.**
5. **Take measures to prevent the loosening of the motor mounting screws.**
6. **Tighten the hub screw after mounting the motor. (Hexagon socket head cap screw (M5), Tightening torque: 7 N·m)**
7. **Refer to the figures below for the applicable motor dimensions.**

Applicable motor dimensions