

## EZHS Series

# EZHS6



### Specifications

Model	Incremental Type		EZHS6A-□I, EZHS6C-□I						EZHS6A-□MI, EZHS6C-□MI								
	Absolute Type		EZHS6A-□A, EZHS6C-□A						EZHS6A-□MA, EZHS6C-□MA								
Motor Type	Stepping Motor with Built-in Rotor-Position Sensor																
Drive Method	Ball Screw																
Electromagnetic Brake	Not equipped						Equipped										
Speed Range	mm/s		~400		~600		~800		~400		~600		~800				
Max. Transportable Mass	kg	Horizontal Direction	30		20		15		30		7.5		3.5				
		Vertical Direction	—		—		—		—		—		—				
Max. Acceleration	m/s <sup>2</sup>	Horizontal Direction	2.5						2.5								
		Vertical Direction	—						2.5								
Max. Thrust Force	N kgf		184	18.4	92	9.2	50	5	184	18.4	92	9.2	50	5			
		Power ON	184						18.4								
Max. Holding Brake Force	N kgf	Power OFF	—						—								
		Electromagnetic Brake	—						184								
Repetitive Positioning Accuracy	mm		±0.02														
Resolution	mm		0.01														
Lead	mm		12														
Stroke	mm		100, 150, 200, 250, 300, 400, 500														
Mass of Linear Slide	kg	Figure in the parentheses shows the mass of the model with electromagnetic brake.	Stroke	100 : 4.1 (4.5)		150 : 4.4 (4.8)		200 : 4.6 (5.0)		250 : 4.8 (5.2)		300 : 5.1 (5.5)		400 : 5.6 (6.0)		500 : 6.0 (6.4)	
				Ambient Temperature		°C		0~+40 (Nonfreezing)									

● See page 54 for the specification and dimensions of the controller.

### General Specifications

Item	Specification
Insulation Resistance	100 MΩ minimum when measured by a DC 500 V megger between the following places. • Windings — Case • Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)
Dielectric Strength	Sufficient to withstand the following for one minute. • Windings — Case AC 1.5 kV 50 Hz • Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model) AC 1.0 kV 50 Hz

### Linear Slide/Controller Combinations

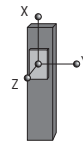
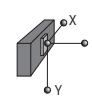
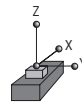
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	EZHS6A-□I	EZHS6A-□	EZMC24I-A
		EZHS6C-□I	EZHS6C-□	EZMC12I-C
	Equipped	EZHS6A-□MI	EZHS6A-□M	EZMC24I-A
		EZHS6C-□MI	EZHS6C-□M	EZMC12I-C

\*The box (□) in the model name and linear slide model name represents the code for stroke length.

### Allowable Overhung Length (mm)

\* The length from the center of load's mounting surface to the center of gravity of the object being carried.

• Horizontal Installation • Wall Mount Installation • Vertical Installation



Carried Weight	X			Y			Z				
	X	Y	Z	X	Y	Z	X	Y	Z		
10kg	500	392	500	100	392	414	3.5kg	500	228	500	
20kg	386	196	500	20kg	50	196	207	7.5kg	500	106	500
30kg	257	131	500	30kg	33	131	138	15kg	410	53	410

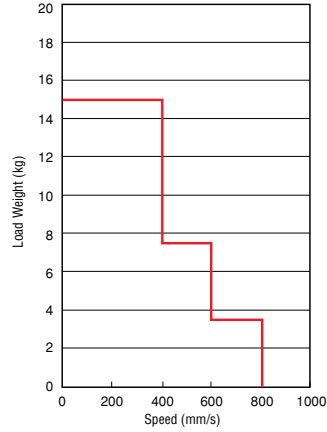
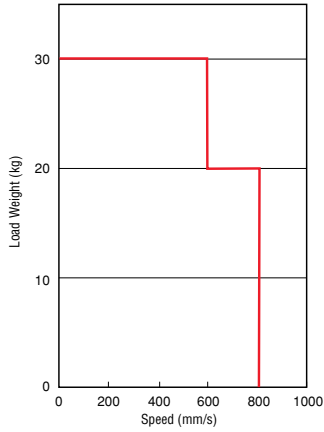
The values shown in the tables are for uni-axial loading. For multi-axis loading please contact an Oriental Motor representative for assistance.

Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Absolute Type	Not equipped	EZHS6A-□A	EZHS6A-□	EZMC24A-A
		EZHS6C-□A	EZHS6C-□	EZMC12A-C
	Equipped	EZHS6A-□MA	EZHS6A-□M	EZMC24A-A
		EZHS6C-□MA	EZHS6C-□M	EZMC12A-C

### Correlation Diagram of Speed and Load Weight

● Horizontal Direction

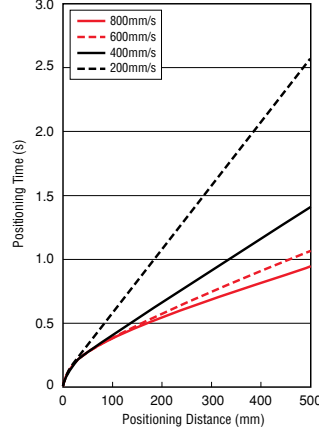
● Vertical Direction



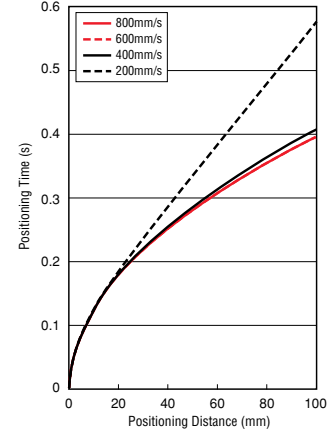
### Minimum Positioning Time

Acceleration: 2.5 m/s<sup>2</sup> Starting Speed: 6 mm/s

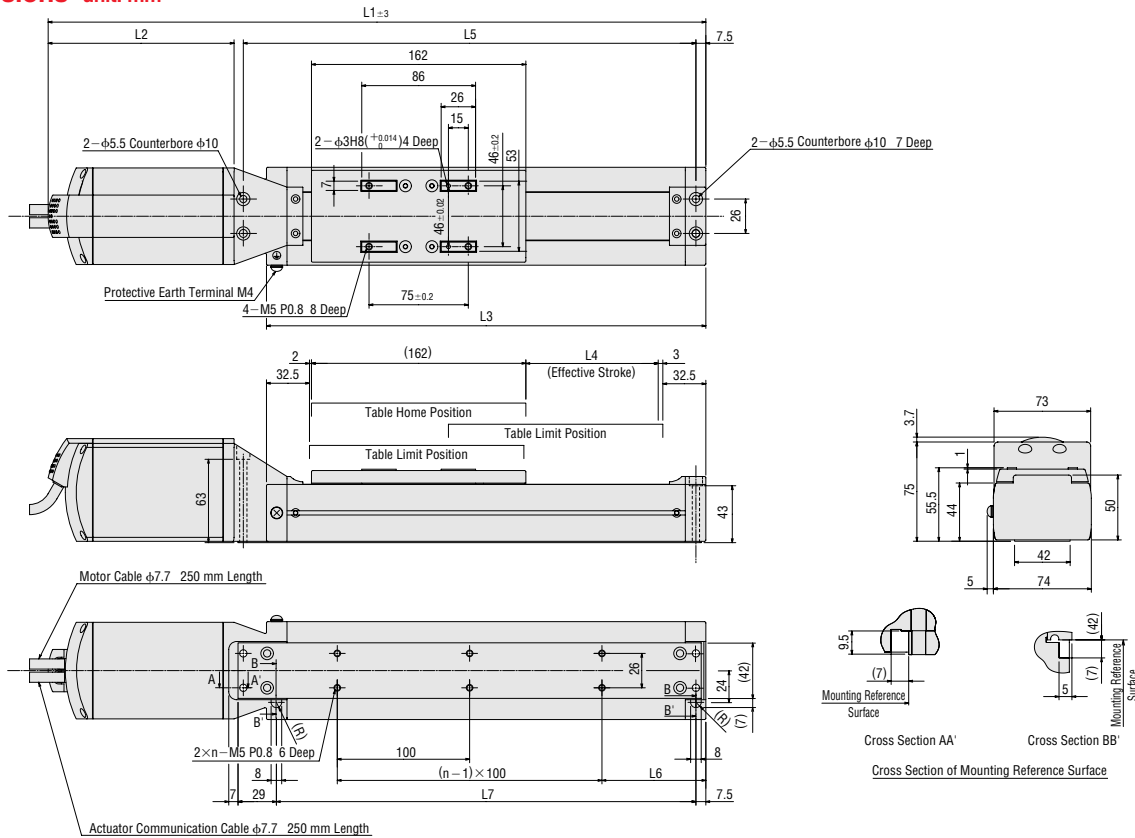
● Horizontal Direction/ Vertical Direction



Enlargement of Positioning Distance under 100 mm



### Dimensions unit: mm



Linear Slide Model	L1	L2	L3	L4	L5	L6	L7	n
EZHS6□-10	497	140.5						
EZHS6□-10M	532	175.5	332	100	342	78.5	317	3
EZHS6□-15	547	140.5						
EZHS6□-15M	582	175.5	382	150	392	53.5	367	4
EZHS6□-20	597	140.5						
EZHS6□-20M	632	175.5	432	200	442	78.5	417	4
EZHS6□-25	647	140.5						
EZHS6□-25M	682	175.5	482	250	492	53.5	467	5
EZHS6□-30	697	140.5						
EZHS6□-30M	732	175.5	532	300	542	78.5	517	5
EZHS6□-40	797	140.5						
EZHS6□-40M	832	175.5	632	400	642	78.5	617	6
EZHS6□-50	897	140.5						
EZHS6□-50M	932	175.5	732	500	742	78.5	717	7

\* Enter the power supply voltage **A** or **C** in the box (□) within the linear slide model name.