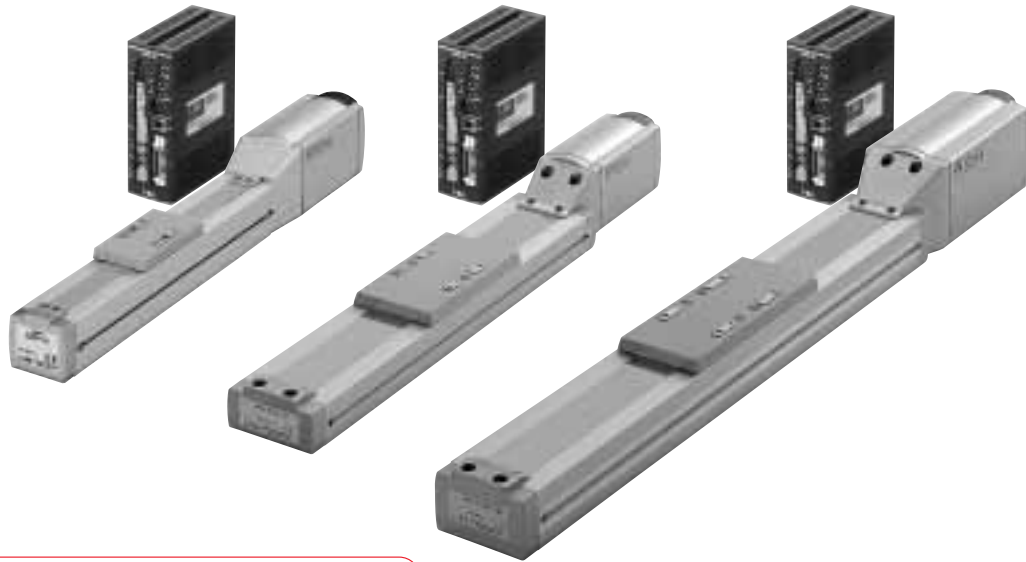


**EZS Series**  
**EZHS Series**

**EZS Series**



**Names and Functions of the Linear Slide**



**Cable**

The cable outlet is facing downward, which contributes to the overall space savings by reducing the space needed to wire the cables.

**Stainless Sheet**

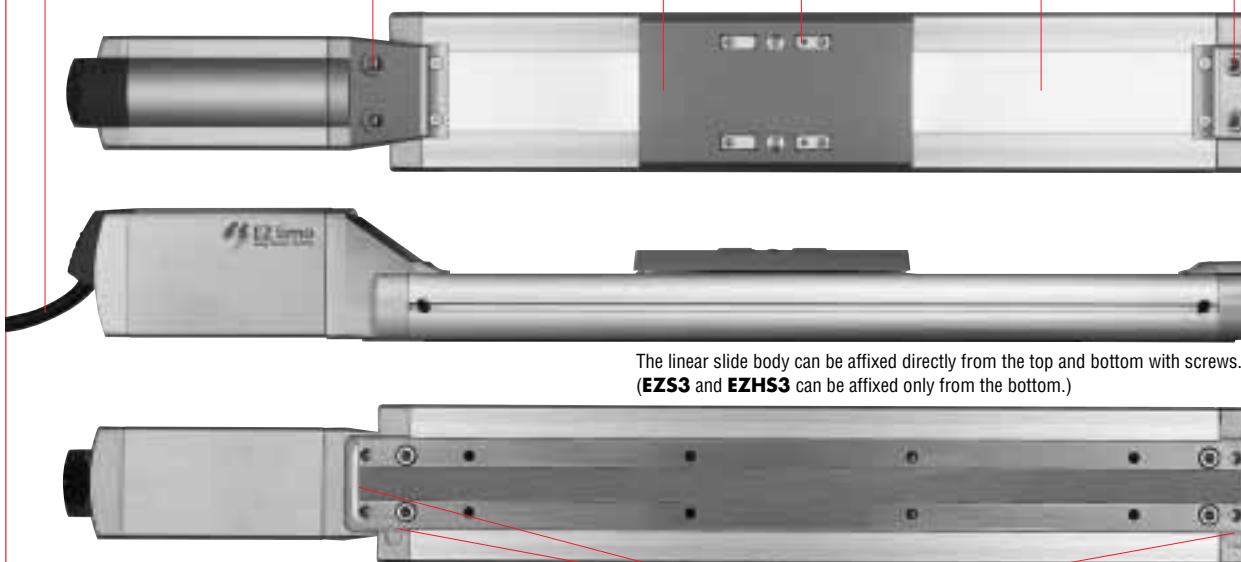
The mechanical parts of the linear slide are covered with stainless sheet to keep out foreign particles.

**Mounting Hole**  
(Except for EZS3 and EZHS3)

**Table**

**Positioning Pinhole**

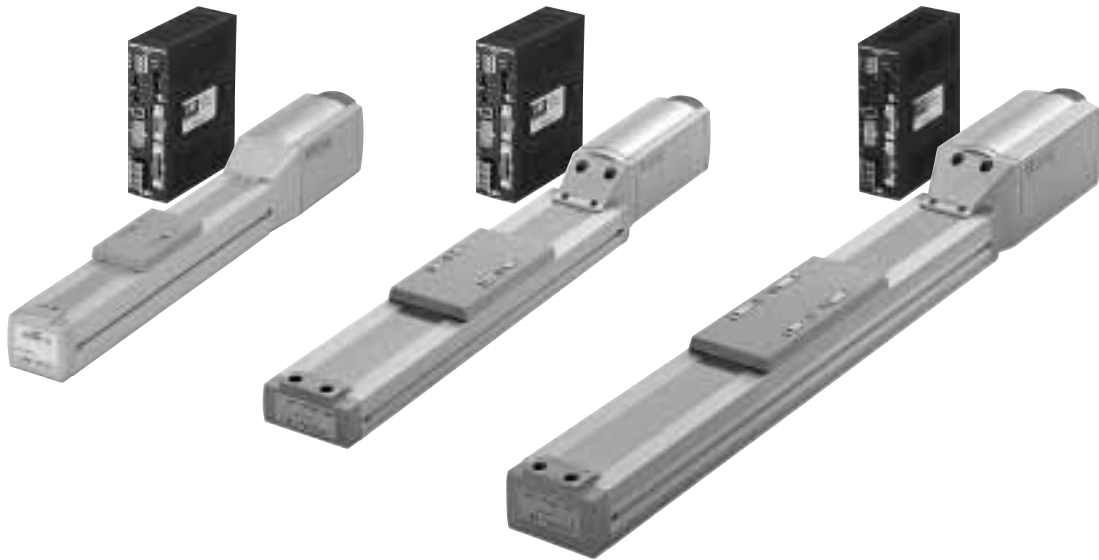
**Mounting Hole**  
(Except for EZS3 and EZHS3)



The linear slide body can be affixed directly from the top and bottom with screws. (EZS3 and EZHS3 can be affixed only from the bottom.)

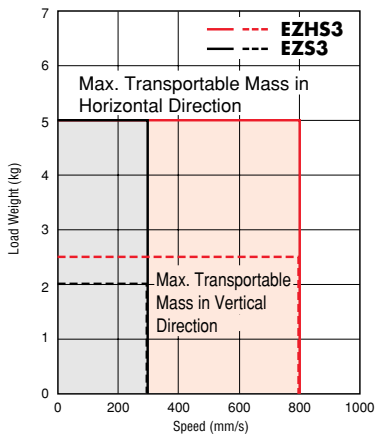
**Mounting Reference Surface**

**EZHS Series**

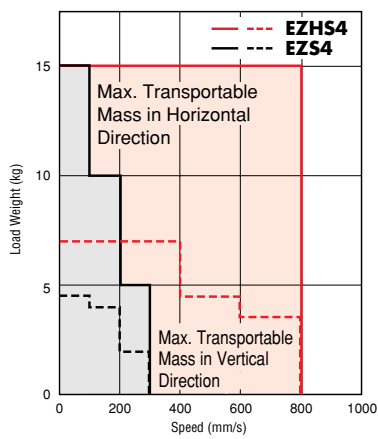


**Motorized Linear Slide Speed – Load Weight Characteristics**

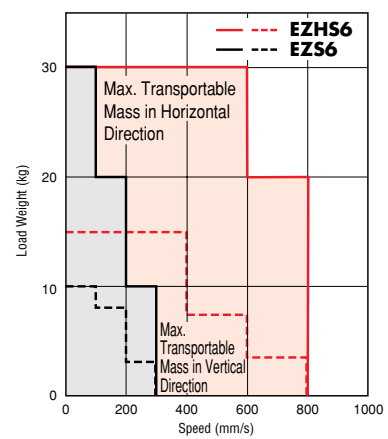
**EZS3/EZHS3**



**EZS4/EZHS4**



**EZS6/EZHS6**



## Models

### ● EZS Series

◇ Incremental Type

Without Electromagnetic Brake 24 VDC Input

Stroke	Model		
50mm	<b>EZS3-05CI</b>	<b>EZS4-05CI</b>	—
100mm	<b>EZS3-10CI</b>	<b>EZS4-10CI</b>	<b>EZS6-10CI</b>
150mm	<b>EZS3-15CI</b>	<b>EZS4-15CI</b>	<b>EZS6-15CI</b>
200mm	<b>EZS3-20CI</b>	<b>EZS4-20CI</b>	<b>EZS6-20CI</b>
250mm	<b>EZS3-25CI</b>	<b>EZS4-25CI</b>	<b>EZS6-25CI</b>
300mm	<b>EZS3-30CI</b>	<b>EZS4-30CI</b>	<b>EZS6-30CI</b>
400mm	<b>EZS3-40CI</b>	<b>EZS4-40CI</b>	<b>EZS6-40CI</b>
500mm	<b>EZS3-50CI</b>	<b>EZS4-50CI</b>	<b>EZS6-50CI</b>

With Electromagnetic Brake 24 VDC Input

Stroke	Model		
50mm	<b>EZS3-05MCI</b>	<b>EZS4-05MCI</b>	—
100mm	<b>EZS3-10MCI</b>	<b>EZS4-10MCI</b>	<b>EZS6-10MCI</b>
150mm	<b>EZS3-15MCI</b>	<b>EZS4-15MCI</b>	<b>EZS6-15MCI</b>
200mm	<b>EZS3-20MCI</b>	<b>EZS4-20MCI</b>	<b>EZS6-20MCI</b>
250mm	<b>EZS3-25MCI</b>	<b>EZS4-25MCI</b>	<b>EZS6-25MCI</b>
300mm	<b>EZS3-30MCI</b>	<b>EZS4-30MCI</b>	<b>EZS6-30MCI</b>
400mm	<b>EZS3-40MCI</b>	<b>EZS4-40MCI</b>	<b>EZS6-40MCI</b>
500mm	<b>EZS3-50MCI</b>	<b>EZS4-50MCI</b>	<b>EZS6-50MCI</b>

◇ Absolute Type

Without Electromagnetic Brake 24 VDC Input

Stroke	Model		
50mm	<b>EZS3-05CA</b>	<b>EZS4-05CA</b>	—
100mm	<b>EZS3-10CA</b>	<b>EZS4-10CA</b>	<b>EZS6-10CA</b>
150mm	<b>EZS3-15CA</b>	<b>EZS4-15CA</b>	<b>EZS6-15CA</b>
200mm	<b>EZS3-20CA</b>	<b>EZS4-20CA</b>	<b>EZS6-20CA</b>
250mm	<b>EZS3-25CA</b>	<b>EZS4-25CA</b>	<b>EZS6-25CA</b>
300mm	<b>EZS3-30CA</b>	<b>EZS4-30CA</b>	<b>EZS6-30CA</b>
400mm	<b>EZS3-40CA</b>	<b>EZS4-40CA</b>	<b>EZS6-40CA</b>
500mm	<b>EZS3-50CA</b>	<b>EZS4-50CA</b>	<b>EZS6-50CA</b>

With Electromagnetic Brake 24 VDC Input

Stroke	Model		
50mm	<b>EZS3-05MCA</b>	<b>EZS4-05MCA</b>	—
100mm	<b>EZS3-10MCA</b>	<b>EZS4-10MCA</b>	<b>EZS6-10MCA</b>
150mm	<b>EZS3-15MCA</b>	<b>EZS4-15MCA</b>	<b>EZS6-15MCA</b>
200mm	<b>EZS3-20MCA</b>	<b>EZS4-20MCA</b>	<b>EZS6-20MCA</b>
250mm	<b>EZS3-25MCA</b>	<b>EZS4-25MCA</b>	<b>EZS6-25MCA</b>
300mm	<b>EZS3-30MCA</b>	<b>EZS4-30MCA</b>	<b>EZS6-30MCA</b>
400mm	<b>EZS3-40MCA</b>	<b>EZS4-40MCA</b>	<b>EZS6-40MCA</b>
500mm	<b>EZS3-50MCA</b>	<b>EZS4-50MCA</b>	<b>EZS6-50MCA</b>

## Product Number Code

### ● EZS Series

**EZS** **4** - **10** **M** **C** **I**

①      ②      ③      ④      ⑤      ⑥

①	<b>EZS</b> Series	④	None : Without Electromagnetic Brake <b>M</b> : With Electromagnetic Brake
②	Size of Linear Slide	⑤	With Controller
③	Stroke <b>05</b> : 50mm <b>10</b> : 100mm <b>15</b> : 150mm <b>20</b> : 200mm <b>25</b> : 250mm <b>30</b> : 300mm <b>40</b> : 400mm <b>50</b> : 500mm	⑥	<b>I</b> : Incremental Type <b>A</b> : Absolute Type

● **EZHS Series**

◇ Incremental Type

Without Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model		
50mm	<b>EZHS3A-05I</b>	<b>EZHS4A-05I</b>	—
100mm	<b>EZHS3A-10I</b>	<b>EZHS4A-10I</b>	<b>EZHS6A-10I</b>
150mm	<b>EZHS3A-15I</b>	<b>EZHS4A-15I</b>	<b>EZHS6A-15I</b>
200mm	<b>EZHS3A-20I</b>	<b>EZHS4A-20I</b>	<b>EZHS6A-20I</b>
250mm	<b>EZHS3A-25I</b>	<b>EZHS4A-25I</b>	<b>EZHS6A-25I</b>
300mm	<b>EZHS3A-30I</b>	<b>EZHS4A-30I</b>	<b>EZHS6A-30I</b>
400mm	<b>EZHS3A-40I</b>	<b>EZHS4A-40I</b>	<b>EZHS6A-40I</b>
500mm	<b>EZHS3A-50I</b>	<b>EZHS4A-50I</b>	<b>EZHS6A-50I</b>

Single-Phase 200-230 V Input

Stroke	Model
50mm	—
100mm	<b>EZHS6C-10I</b>
150mm	<b>EZHS6C-15I</b>
200mm	<b>EZHS6C-20I</b>
250mm	<b>EZHS6C-25I</b>
300mm	<b>EZHS6C-30I</b>
400mm	<b>EZHS6C-40I</b>
500mm	<b>EZHS6C-50I</b>

With Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model		
50mm	<b>EZHS3A-05MI</b>	<b>EZHS4A-05MI</b>	—
100mm	<b>EZHS3A-10MI</b>	<b>EZHS4A-10MI</b>	<b>EZHS6A-10MI</b>
150mm	<b>EZHS3A-15MI</b>	<b>EZHS4A-15MI</b>	<b>EZHS6A-15MI</b>
200mm	<b>EZHS3A-20MI</b>	<b>EZHS4A-20MI</b>	<b>EZHS6A-20MI</b>
250mm	<b>EZHS3A-25MI</b>	<b>EZHS4A-25MI</b>	<b>EZHS6A-25MI</b>
300mm	<b>EZHS3A-30MI</b>	<b>EZHS4A-30MI</b>	<b>EZHS6A-30MI</b>
400mm	<b>EZHS3A-40MI</b>	<b>EZHS4A-40MI</b>	<b>EZHS6A-40MI</b>
500mm	<b>EZHS3A-50MI</b>	<b>EZHS4A-50MI</b>	<b>EZHS6A-50MI</b>

Single-Phase 200-230 V Input

Stroke	Model
50mm	—
100mm	<b>EZHS6C-10MI</b>
150mm	<b>EZHS6C-15MI</b>
200mm	<b>EZHS6C-20MI</b>
250mm	<b>EZHS6C-25MI</b>
300mm	<b>EZHS6C-30MI</b>
400mm	<b>EZHS6C-40MI</b>
500mm	<b>EZHS6C-50MI</b>

◇ Absolute Type

Without Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model		
50mm	<b>EZHS3A-05A</b>	<b>EZHS4A-05A</b>	—
100mm	<b>EZHS3A-10A</b>	<b>EZHS4A-10A</b>	<b>EZHS6A-10A</b>
150mm	<b>EZHS3A-15A</b>	<b>EZHS4A-15A</b>	<b>EZHS6A-15A</b>
200mm	<b>EZHS3A-20A</b>	<b>EZHS4A-20A</b>	<b>EZHS6A-20A</b>
250mm	<b>EZHS3A-25A</b>	<b>EZHS4A-25A</b>	<b>EZHS6A-25A</b>
300mm	<b>EZHS3A-30A</b>	<b>EZHS4A-30A</b>	<b>EZHS6A-30A</b>
400mm	<b>EZHS3A-40A</b>	<b>EZHS4A-40A</b>	<b>EZHS6A-40A</b>
500mm	<b>EZHS3A-50A</b>	<b>EZHS4A-50A</b>	<b>EZHS6A-50A</b>

Single-Phase 200-230 V Input

Stroke	Model
50mm	—
100mm	<b>EZHS6C-10A</b>
150mm	<b>EZHS6C-15A</b>
200mm	<b>EZHS6C-20A</b>
250mm	<b>EZHS6C-25A</b>
300mm	<b>EZHS6C-30A</b>
400mm	<b>EZHS6C-40A</b>
500mm	<b>EZHS6C-50A</b>

With Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model		
50mm	<b>EZHS3A-05MA</b>	<b>EZHS4A-05MA</b>	—
100mm	<b>EZHS3A-10MA</b>	<b>EZHS4A-10MA</b>	<b>EZHS6A-10MA</b>
150mm	<b>EZHS3A-15MA</b>	<b>EZHS4A-15MA</b>	<b>EZHS6A-15MA</b>
200mm	<b>EZHS3A-20MA</b>	<b>EZHS4A-20MA</b>	<b>EZHS6A-20MA</b>
250mm	<b>EZHS3A-25MA</b>	<b>EZHS4A-25MA</b>	<b>EZHS6A-25MA</b>
300mm	<b>EZHS3A-30MA</b>	<b>EZHS4A-30MA</b>	<b>EZHS6A-30MA</b>
400mm	<b>EZHS3A-40MA</b>	<b>EZHS4A-40MA</b>	<b>EZHS6A-40MA</b>
500mm	<b>EZHS3A-50MA</b>	<b>EZHS4A-50MA</b>	<b>EZHS6A-50MA</b>

Single-Phase 200-230 V Input

Stroke	Model
50mm	—
100mm	<b>EZHS6C-10MA</b>
150mm	<b>EZHS6C-15MA</b>
200mm	<b>EZHS6C-20MA</b>
250mm	<b>EZHS6C-25MA</b>
300mm	<b>EZHS6C-30MA</b>
400mm	<b>EZHS6C-40MA</b>
500mm	<b>EZHS6C-50MA</b>

■ **Product Number Code**

● **EZHS Series**

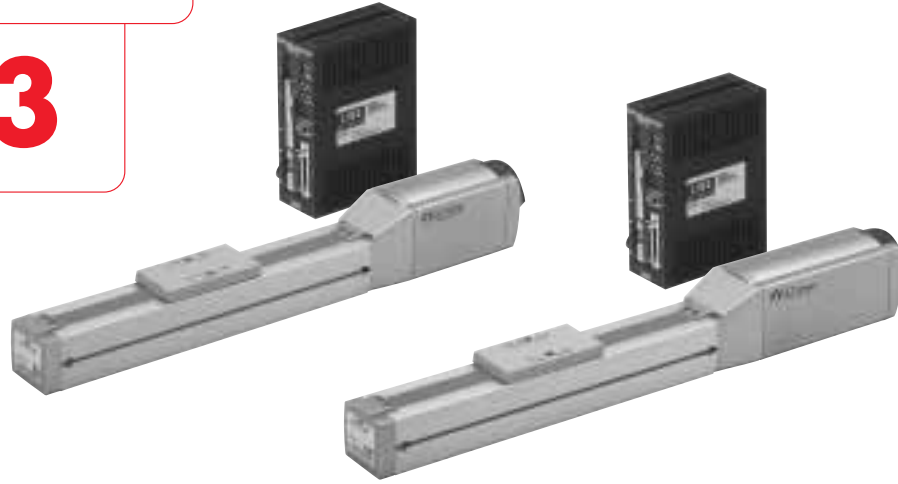
**EZHS**   **4**   **A**   -   **10**   **M**   **I**

①   ②   ③   ④   ⑤   ⑥

①	<b>EZHS</b> Series	④	Stroke <b>05</b> : 50mm <b>10</b> :100mm <b>15</b> :150mm <b>20</b> :200mm <b>25</b> :250mm <b>30</b> :300mm <b>40</b> :400mm <b>50</b> :500mm
②	Size of Linear Slide	⑤	None : Without Electromagnetic Brake <b>M</b> : With Electromagnetic Brake
③	Power Supply <b>A</b> : Single-Phase 100-115V <b>C</b> : Single-Phase 200-230V	⑥	<b>I</b> : Incremental Type <b>A</b> : Absolute Type

## EZS Series

# EZS3



### Specifications

Model	Incremental Type		EZS3-□CI		EZS3-□MCI			
	Absolute Type		EZS3-□CA		EZS3-□MCA			
Motor Type	Stepping Motor with Encoder							
Drive Method	Ball Screw							
Electromagnetic Brake	Not equipped				Equipped			
Speed Range	mm/s		~300		~300			
Max. Transportable Mass	kg	Horizontal Direction	5		5			
		Vertical Direction	—		2			
Max. Acceleration	m/s <sup>2</sup>	Horizontal Direction	2		2			
		Vertical Direction	—		2			
Max. Thrust Force	N kgf		23	2.3	23	2.3		
		Power ON	23	2.3	23	2.3		
Max. Holding Brake Force	N kgf	Power OFF	—		—			
		Electromagnetic Brake	—		23	2.3		
Repetitive Positioning Accuracy	mm		±0.02					
Resolution	mm		0.015					
Lead	mm		12					
Stroke	mm		50, 100, 150, 200, 250, 300, 400, 500					
Mass of Linear Slide	Figure in the parentheses shows the mass of the model with electromagnetic brake.		kg	Stroke	50 : 1.5 (1.7)	100 : 1.6 (1.8)	150 : 1.7 (1.9)	200 : 1.8 (2.0)
					250 : 1.9 (2.1)	300 : 2.0 (2.2)	400 : 2.2 (2.4)	500 : 2.4 (2.6)
Ambient Temperature	°C		0~+40 (Nonfreezing)					

● See page 52 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. <ul style="list-style-type: none"> <li>• Windings — Case</li> <li>• Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)</li> </ul>
Dielectric Strength	Sufficient to withstand the following for one minute. <ul style="list-style-type: none"> <li>• Windings — Case AC 0.5 kV 50 Hz</li> <li>• Case — Windings of electromagnetic brake AC 0.5 kV 50 Hz (Only for electromagnetic brake equipped model)</li> </ul>

### Linear Slide/Controller Combinations

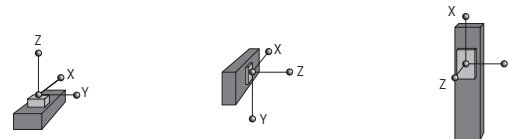
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	EZS3-□CI	EZS3-□	EZMC36I
	Equipped	EZS3-□MCI	EZS3-□M	
Absolute Type	Not equipped	EZS3-□CA	EZS3-□	EZMC36A
	Equipped	EZS3-□MCA	EZS3-□M	

\*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



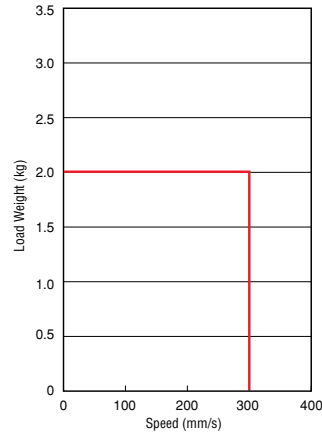
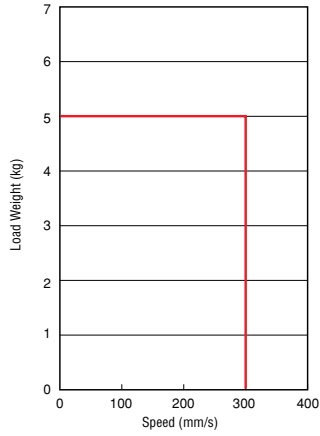
Carried Weight	X	Y	Z	Carried Weight	X	Y	Z	Carried Weight	X	Y	Z
1kg	205	300	300	1kg	155	300	300	0.5kg	300	257	300
2.5kg	75	136	300	2.5kg	62	300	105	1kg	142	129	142
5kg	32	58	157	5kg	22	106	31	2kg	62	62	52

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

### Correlation Diagram of Speed and Load Weight

● Horizontal Direction

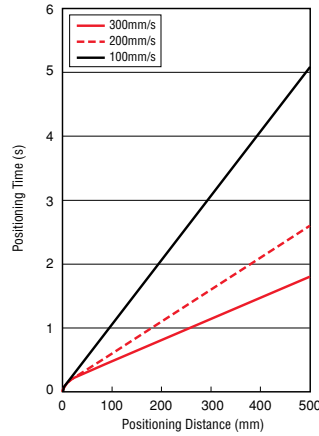
● Vertical Direction



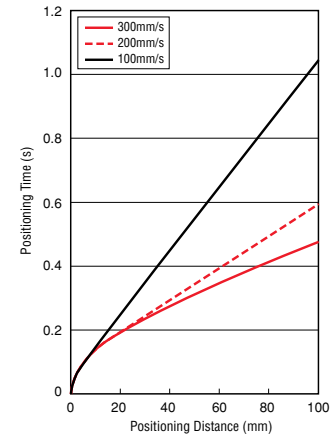
### Minimum Positioning Time

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

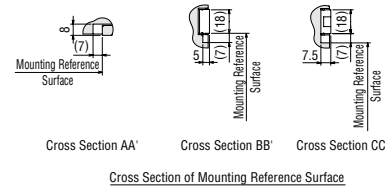
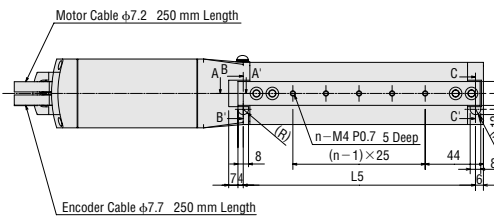
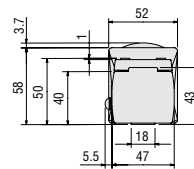
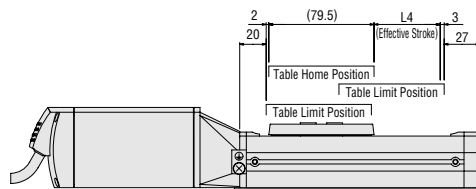
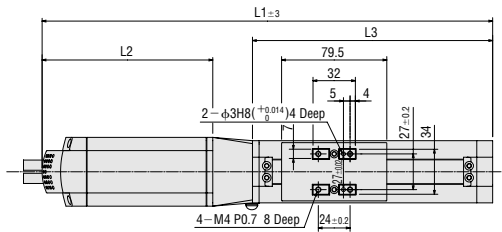
● Horizontal Direction/ Vertical Direction



Enlargement of Positioning Distance under 100 mm



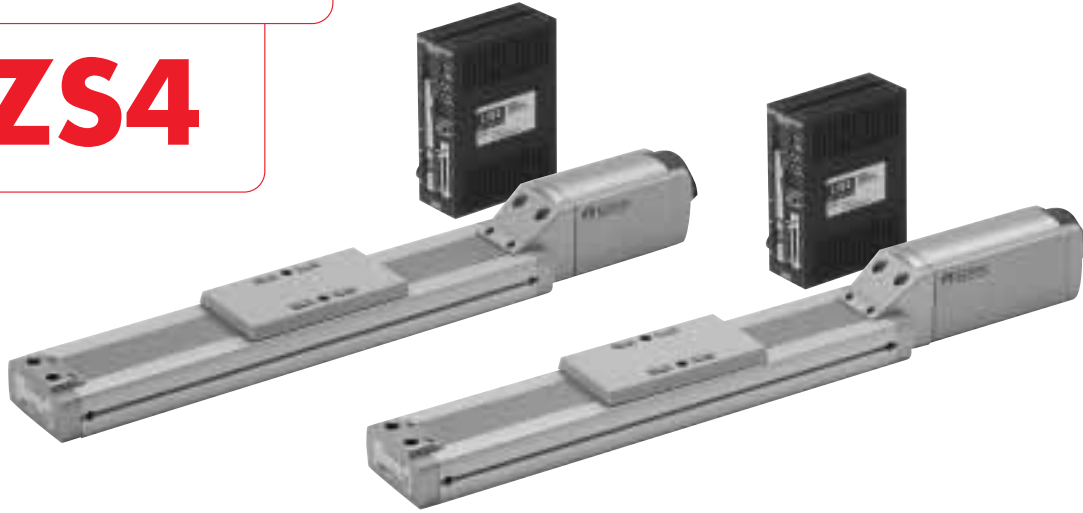
### Dimensions unit: mm



Linear Slide Model	L1	L2	L3	L4	L5	n
EZS3-05	340.5	129	181.5	50	175.5	5
EZS3-05M	370.5	159				
EZS3-10	390.5	129	231.5	100	225.5	7
EZS3-10M	420.5	159				
EZS3-15	440.5	129	281.5	150	275.5	9
EZS3-15M	470.5	159				
EZS3-20	490.5	129	331.5	200	325.5	11
EZS3-20M	520.5	159				
EZS3-25	540.5	129	381.5	250	375.5	13
EZS3-25M	570.5	159				
EZS3-30	590.5	129	431.5	300	425.5	15
EZS3-30M	620.5	159				
EZS3-40	690.5	129	531.5	400	525.5	19
EZS3-40M	720.5	159				
EZS3-50	790.5	129	631.5	500	625.5	23
EZS3-50M	820.5	159				

## EZS Series

# EZS4



### Specifications

Model	Incremental Type		EZS4-□CI				EZS4-□MCI				
	Absolute Type		EZS4-□CA				EZS4-□MCA				
Motor Type	Stepping Motor with Encoder										
Drive Method	Ball Screw										
Electromagnetic Brake	Not equipped										
Speed Range	mm/s		~100	~200	~300	~100	~200	~300			
Max. Transportable Mass	kg	Horizontal Direction	15	10	5	15	10	5			
		Vertical Direction	—	—	—	4.5	4	2			
Max. Acceleration	m/s <sup>2</sup>	Horizontal Direction	2				2				
		Vertical Direction	—				2				
Max. Thrust Force	N kgf		45 4.5	40 4	23 2.3	45 4.5	40 4	23 2.3			
		Power ON	45 4.5				45 4.5				
Max. Holding Brake Force	N kgf	Power OFF	—				—				
		Electromagnetic Brake	—				45 4.5				
Repetitive Positioning Accuracy	mm	±0.02									
Resolution	mm	0.015									
Lead	mm	12									
Stroke	mm	50, 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	50 : 2.3 (2.5)	100 : 2.5 (2.7)	150 : 2.7 (2.9)	200 : 2.9 (3.1)				
				250 : 3.1 (3.3)	300 : 3.3 (3.5)	400 : 3.7 (3.9)	500 : 4.1 (4.3)				
Ambient Temperature	°C	0~+40 (Nonfreezing)									

● See page 52 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. <ul style="list-style-type: none"> <li>Windings — Case</li> <li>Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)</li> </ul>
Dielectric Strength	Sufficient to withstand the following for one minute. <ul style="list-style-type: none"> <li>Windings — Case AC 0.5 kV 50 Hz</li> <li>Case — Windings of electromagnetic brake AC 0.5 kV 50 Hz (Only for electromagnetic brake equipped model)</li> </ul>

### Linear Slide/Controller Combinations

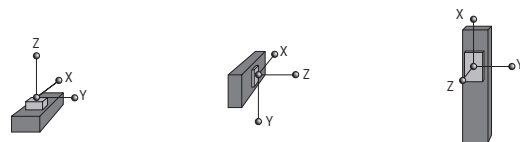
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	EZS4-□CI	EZS4-□	EZMC36I
	Equipped	EZS4-□MCI	EZS4-□M	
Absolute Type	Not equipped	EZS4-□CA	EZS4-□	EZMC36A
	Equipped	EZS4-□MCA	EZS4-□M	

\*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



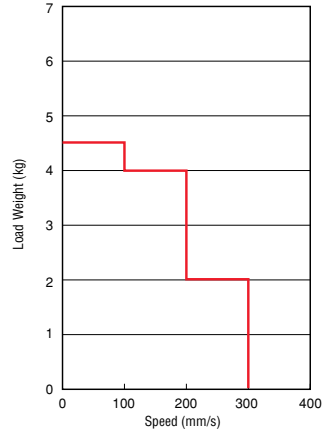
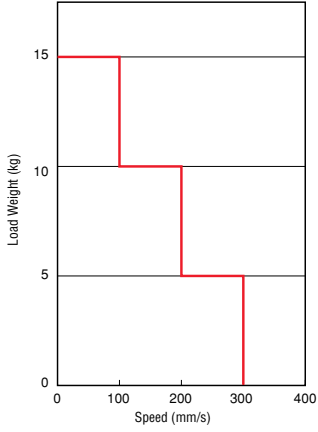
Carried Weight	X	Y	Z	Carried Weight	X	Y	Z	Carried Weight	X	Y	Z
5kg	113	135	300	5kg	28	135	237	2kg	230	57	230
10kg	51	67	252	10kg	14	67	99	4kg	102	29	102
15kg	31	45	150	15kg	9	45	53	4.5kg	87	25	87

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

**Correlation Diagram of Speed and Load Weight**

● Horizontal Direction

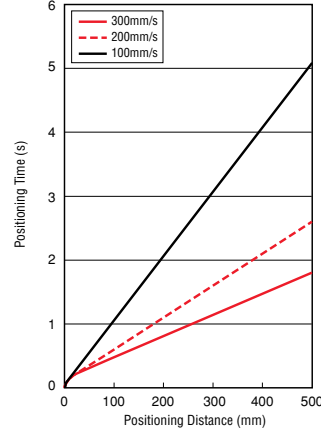
● Vertical Direction



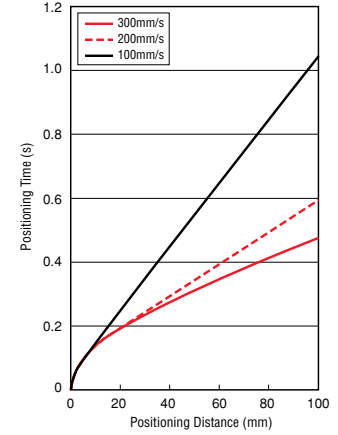
**Minimum Positioning Time**

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

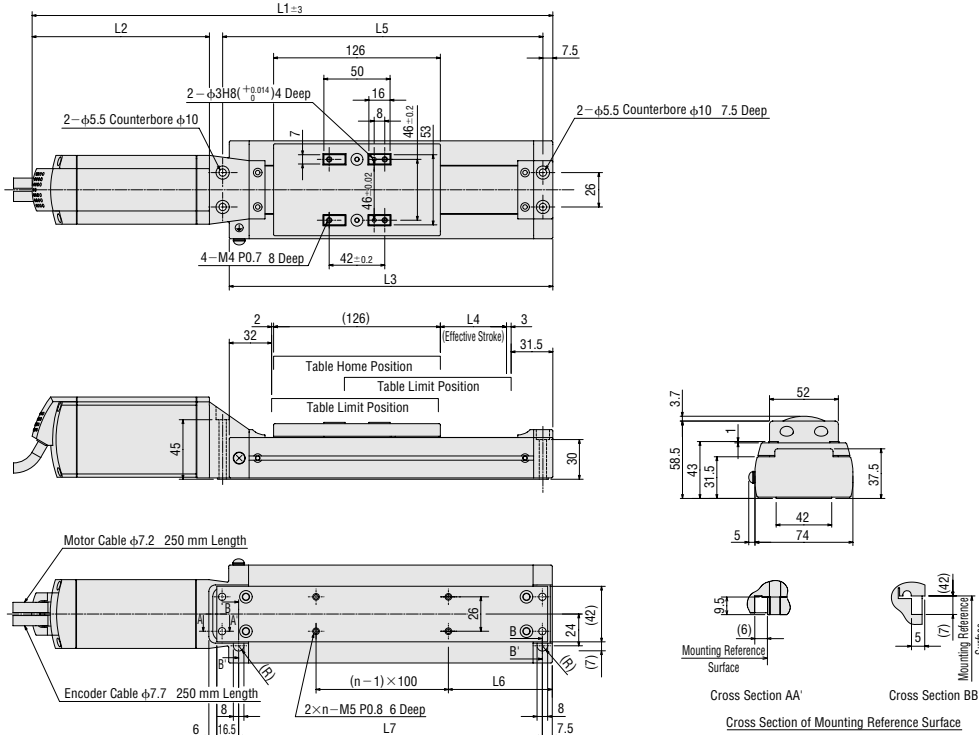
● Horizontal Direction/ Vertical Direction



Enlargement of Positioning Distance under 100 mm



**Dimensions unit: mm**

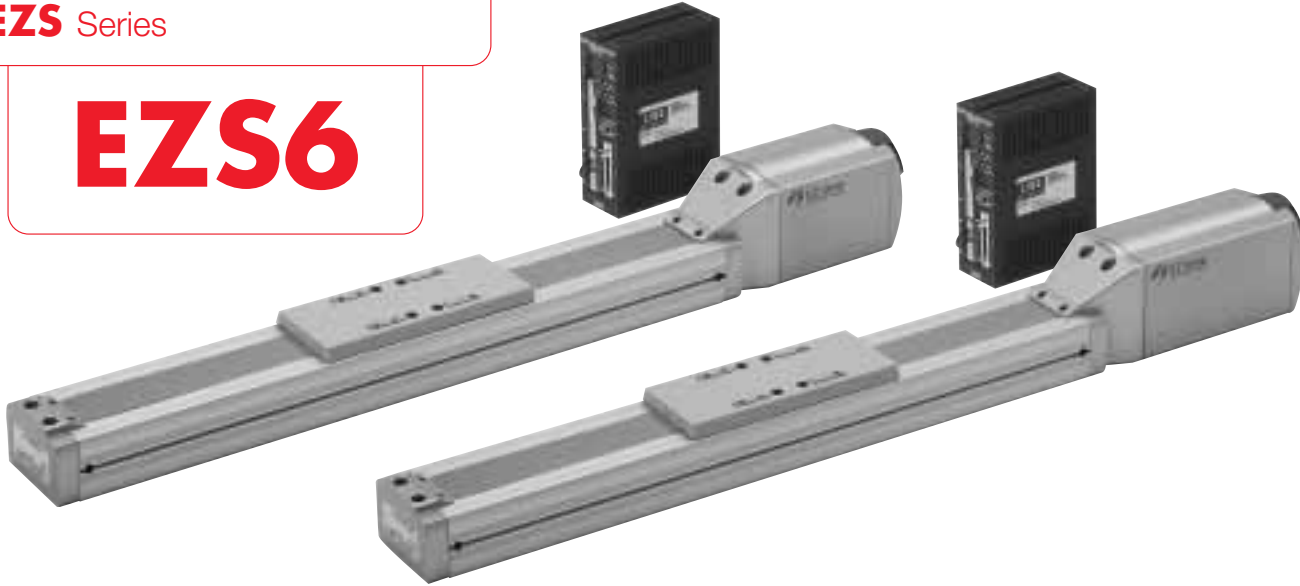


Linear Slide Model	L1	L2	L3	L4	L5	L6	L7	n
EZS4-05	393.5	134	244.5	50	242	78.5	229.5	2
EZS4-05M	423.5	164						
EZS4-10	443.5	134	294.5	100	292	53.5	279.5	3
EZS4-10M	473.5	164						
EZS4-15	493.5	134	344.5	150	342	78.5	329.5	3
EZS4-15M	523.5	164						
EZS4-20	543.5	134	394.5	200	392	53.5	379.5	4
EZS4-20M	573.5	164						
EZS4-25	593.5	134	444.5	250	442	78.5	429.5	4
EZS4-25M	623.5	164						
EZS4-30	643.5	134	494.5	300	492	53.5	479.5	5
EZS4-30M	673.5	164						
EZS4-40	743.5	134	594.5	400	592	53.5	579.5	6
EZS4-40M	773.5	164						
EZS4-50	843.5	134	694.5	500	692	53.5	679.5	7
EZS4-50M	873.5	164						



## EZS Series

# EZS6



### Specifications

Model	Incremental Type	EZS6-□CI			EZS6-□MCI		
	Absolute Type	EZS6-□CA			EZS6-□MCA		
Motor Type	Stepping Motor with Encoder						
Drive Method	Ball Screw						
Electromagnetic Brake	Not equipped			Equipped			
Speed Range	mm/s	~100	~200	~300	~100	~200	~300
Max. Transportable Mass	kg	Horizontal Direction			Vertical Direction		
		30	20	10	30	20	10
Max. Acceleration	m/s <sup>2</sup>	Horizontal Direction			Vertical Direction		
		2			2		
Max. Thrust Force	N	100	94	35	100	94	35
	kgf	10	9.4	3.5	10	9.4	3.5
Max. Holding Brake Force	N	Power ON			Power OFF		
	kgf	100			10		
		—			—		
Repetitive Positioning Accuracy	mm	Electromagnetic Brake			100		
		—			10		
Resolution	mm	±0.02					
Lead	mm	0.015					
Stroke	mm	12					
Mass of Linear Slide	kg	Stroke		100	150	200	250
		4.0 (4.4)	4.3 (4.7)	4.5 (4.9)	4.7 (5.1)	5.0 (5.4)	
Ambient Temperature	°C	0~+40 (Nonfreezing)					

● See page 52 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. <ul style="list-style-type: none"> <li>• Windings — Case</li> <li>• Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)</li> </ul>
Dielectric Strength	Sufficient to withstand the following for one minute. <ul style="list-style-type: none"> <li>• Windings — Case AC 1.0 kV 50 Hz</li> <li>• Case — Windings of electromagnetic brake AC 1.0 kV 50 Hz (Only for electromagnetic brake equipped model)</li> </ul>

### Linear Slide/Controller Combinations

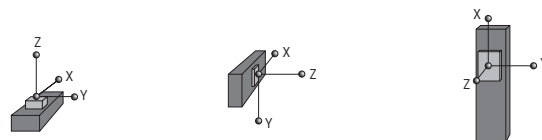
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	EZS6-□CI	EZS6-□	EZMC36I
	Equipped	EZS6-□MCI	EZS6-□M	
Absolute Type	Not equipped	EZS6-□CA	EZS6-□	EZMC36A
	Equipped	EZS6-□MCA	EZS6-□M	

\*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



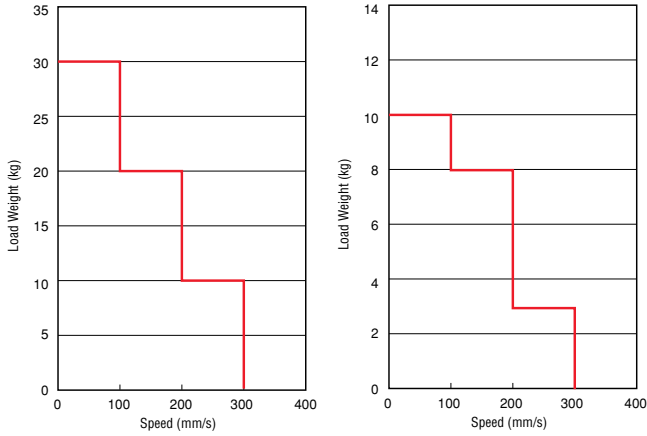
Carried Weight	X	Y	Z	Carried Weight	X	Y	Z	Carried Weight	X	Y	Z
10kg	500	414	500	10kg	100	490	414	3kg	500	277	500
20kg	386	207	500	20kg	50	245	179	8kg	500	104	500
30kg	257	137	500	30kg	33	163	100	10kg	500	83	500

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

### Correlation Diagram of Speed and Load Weight

● Horizontal Direction

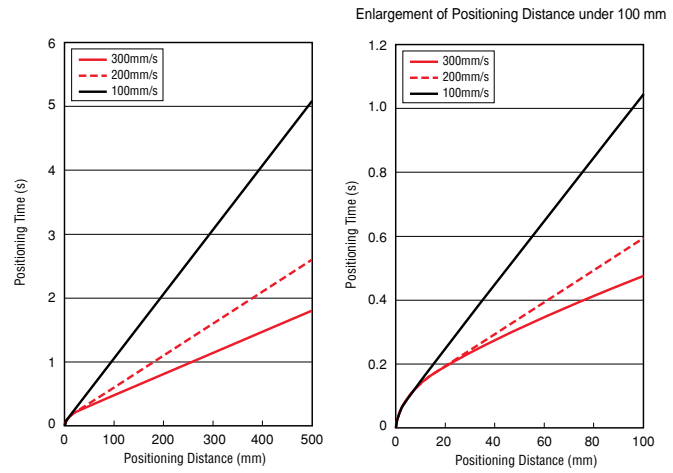
● Vertical Direction



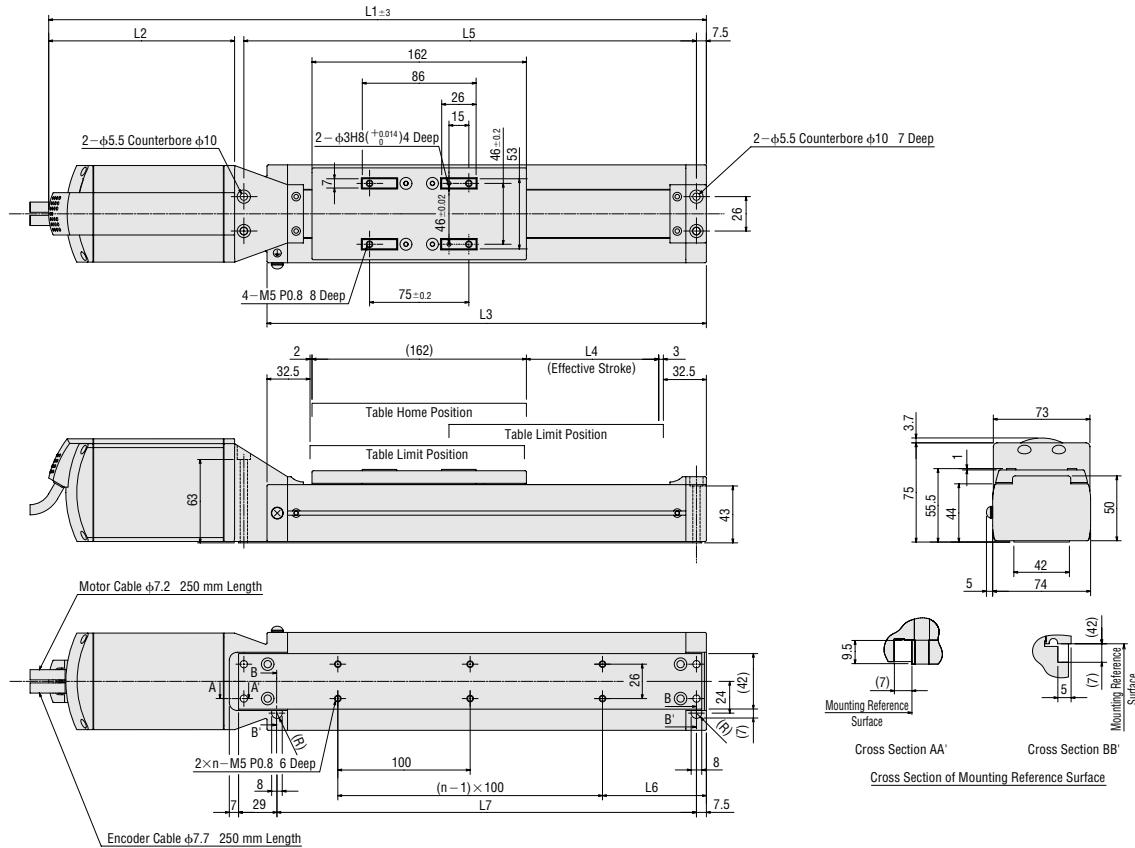
### Minimum Positioning Time

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

● Horizontal Direction/ Vertical Direction



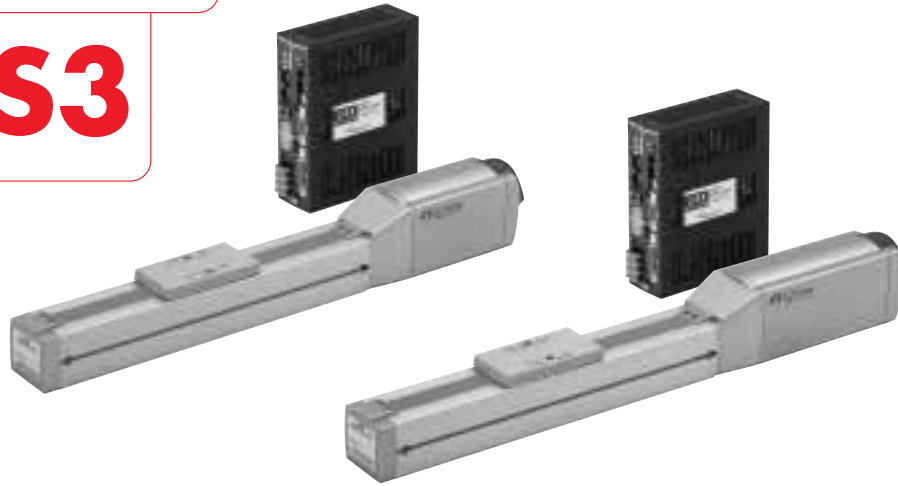
### Dimensions unit: mm



Linear Slide Model	L1	L2	L3	L4	L5	L6	L7	n
EZS6-10	497	140.5	332	100	342	78.5	317	3
EZS6-10M	532	175.5						
EZS6-15	547	140.5	382	150	392	53.5	367	4
EZS6-15M	582	175.5						
EZS6-20	597	140.5	432	200	442	78.5	417	4
EZS6-20M	632	175.5						
EZS6-25	647	140.5	482	250	492	53.5	467	5
EZS6-25M	682	175.5						
EZS6-30	697	140.5	532	300	542	78.5	517	5
EZS6-30M	732	175.5						
EZS6-40	797	140.5	632	400	642	78.5	617	6
EZS6-40M	832	175.5						
EZS6-50	897	140.5	732	500	742	78.5	717	7
EZS6-50M	932	175.5						

## EZHS Series

# EZHS3



### Specifications

Model	Incremental Type		EZHS3A-□I		EZHS3A-□MI			
	Absolute Type		EZHS3A-□A		EZHS3A-□MA			
Motor Type	Stepping Motor with Built-in Rotor-Position Sensor							
Drive Method	Ball Screw							
Electromagnetic Brake			Not equipped		Equipped			
Speed Range	mm/s		~800		~800			
Max. Transportable Mass	kg	Horizontal Direction	5		5			
		Vertical Direction	—		2.5			
Max. Acceleration	m/s <sup>2</sup>	Horizontal Direction	2.5		2.5			
		Vertical Direction	—		2.5			
Max. Thrust Force	N kgf		30	3	30	3		
			30	3	30	3		
Max. Holding Brake Force	N kgf	Power ON	30 3		30 3			
		Power OFF	—		—			
		Electromagnetic Brake	—		30 3			
Repetitive Positioning Accuracy	mm		±0.02					
Resolution	mm		0.01					
Lead	mm		12					
Stroke	mm		50, 100, 150, 200, 250, 300, 400, 500					
Mass of Linear Slide	Figure in the parentheses shows the mass of the model with electromagnetic brake.		kg	Stroke	50 : 1.6 (1.8)	100 : 1.7 (1.9)	150 : 1.8 (2.0)	200 : 1.9 (2.1)
					250 : 2.0 (2.2)	300 : 2.1 (2.3)	400 : 2.3 (2.5)	500 : 2.5 (2.7)
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 1.0 kV 50 Hz • Case — Windings of electromagnetic brake AC 1.0 kV 50 Hz (Only for electromagnetic brake equipped model)

### Linear Slide/Controller Combinations

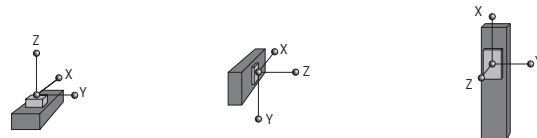
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	EZHS3A-□I	EZHS3A-□	EZMC13I-A
	Equipped	EZHS3A-□MI	EZHS3A-□M	
Absolute Type	Not equipped	EZHS3A-□A	EZHS3A-□	EZMC13A-A
	Equipped	EZHS3A-□MA	EZHS3A-□M	

\*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



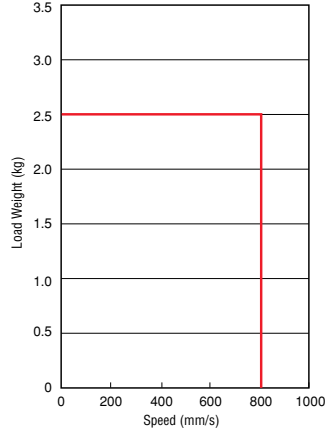
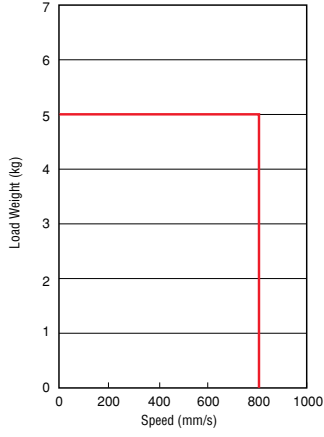
Carried Weight	X	Y	Z	Carried Weight	X	Y	Z	Carried Weight	X	Y	Z
1kg	203	300	300	1kg	155	300	298	1kg	135	124	135
2.5kg	73	123	288	2.5kg	62	243	93	2kg	58	58	48
5kg	30	50	118	5kg	19	75	25	2.5kg	37	37	31

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

### Correlation Diagram of Speed and Load Weight

● Horizontal Direction

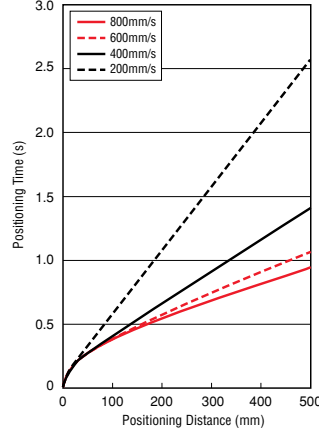
● Vertical Direction



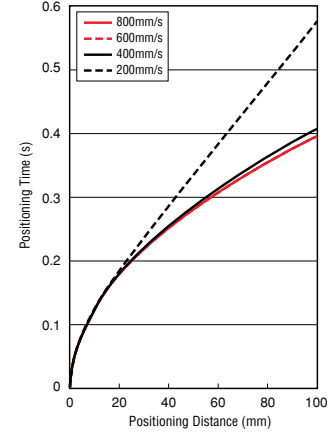
### Minimum Positioning Time

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

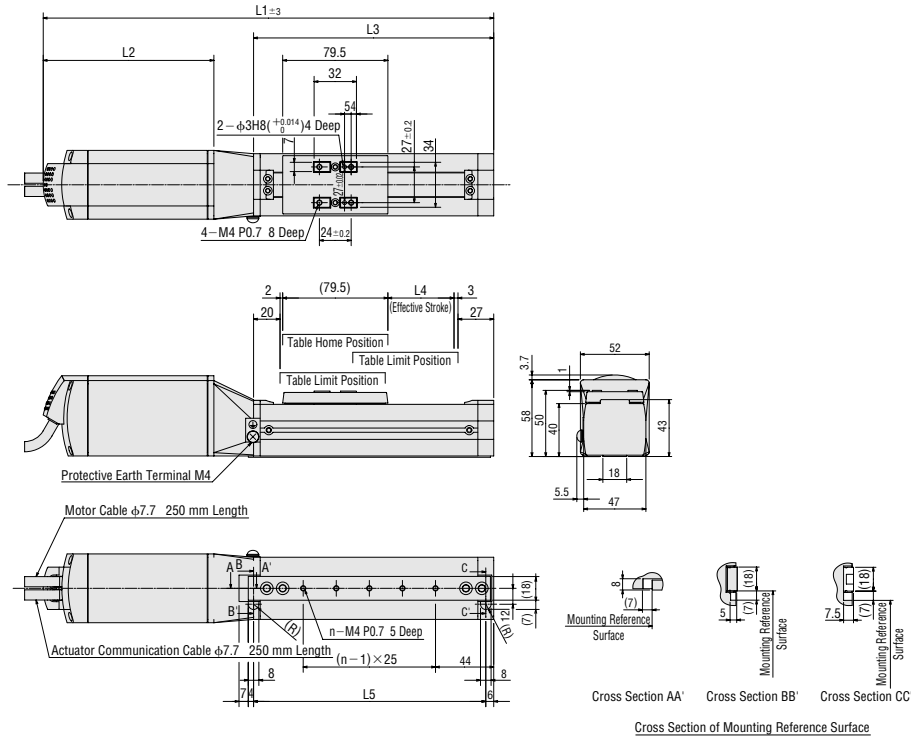
● Horizontal Direction/ Vertical Direction



Enlargement of Positioning Distance under 100 mm



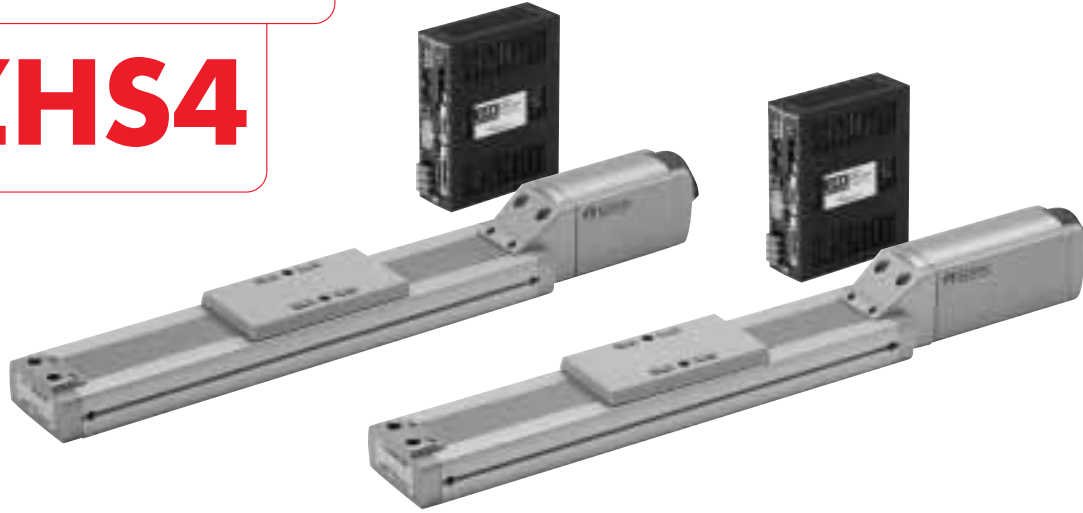
### Dimensions unit: mm



Linear Slide Model	L1	L2	L3	L4	L5	n
EZHS3A-05	340.5	129	181.5	50	175.5	5
EZHS3A-05M	370.5	159				
EZHS3A-10	390.5	129	231.5	100	225.5	7
EZHS3A-10M	420.5	159				
EZHS3A-15	440.5	129	281.5	150	275.5	9
EZHS3A-15M	470.5	159				
EZHS3A-20	490.5	129	331.5	200	325.5	11
EZHS3A-20M	520.5	159				
EZHS3A-25	540.5	129	381.5	250	375.5	13
EZHS3A-25M	570.5	159				
EZHS3A-30	590.5	129	431.5	300	425.5	15
EZHS3A-30M	620.5	159				
EZHS3A-40	690.5	129	531.5	400	525.5	19
EZHS3A-40M	720.5	159				
EZHS3A-50	790.5	129	631.5	500	625.5	23
EZHS3A-50M	820.5	159				

## EZHS Series

# EZHS4



### Specifications

Model	Incremental Type	<b>EZHS4A-□I</b>				<b>EZHS4A-□MI</b>							
	Absolute Type	<b>EZHS4A-□A</b>				<b>EZHS4A-□MA</b>							
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	15				15						
		Vertical Direction	—				7	4.5	3.5				
Max. Acceleration	m/s <sup>2</sup>	Horizontal Direction	2.5				2.5						
		Vertical Direction	—				2.5						
Max. Thrust Force	N kgf	70	7	55	5.5	43	4.3	70	7	55	5.5	43	4.3
		Max. Holding Brake Force	N kgf	Power ON	70				70				
Power OFF	—				—								
Electromagnetic Brake	—				70								
Repetitive Positioning Accuracy	mm	±0.02											
Resolution	mm	0.01											
Lead	mm	12											
Stroke	mm	50, 100, 150, 200, 250, 300, 400, 500											
Mass of Linear Slide	kg	Stroke	50	2.4 (2.6)	100	2.6 (2.8)	150	2.8 (3.0)	200	3.0 (3.2)			
			250	3.2 (3.4)	300	3.4 (3.6)	400	3.8 (4.0)	500	4.2 (4.4)			
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. <ul style="list-style-type: none"> <li>Windings — Case</li> <li>Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)</li> </ul>
Dielectric Strength	Sufficient to withstand the following for one minute. <ul style="list-style-type: none"> <li>Windings — Case AC 1.0 kV 50 Hz</li> <li>Case — Windings of electromagnetic brake AC 1.0 kV 50 Hz (Only for electromagnetic brake equipped model)</li> </ul>

### Linear Slide/Controller Combinations

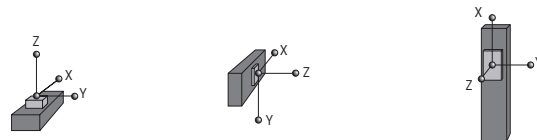
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	<b>EZHS4A-□I</b>	EZHS4A-□	EZMC13I-A
	Equipped	<b>EZHS4A-□MI</b>	EZHS4A-□M	
Absolute Type	Not equipped	<b>EZHS4A-□A</b>	EZHS4A-□	EZMC13A-A
	Equipped	<b>EZHS4A-□MA</b>	EZHS4A-□M	

\*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



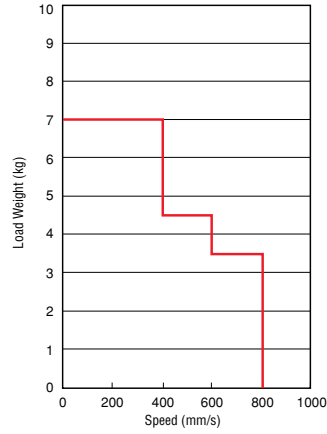
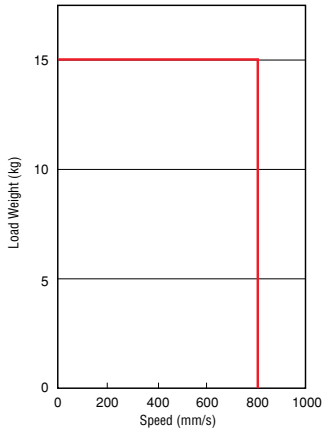
Carried Weight	X	Y	Z	Carried Weight	X	Y	Z	Carried Weight	X	Y	Z
5kg	158	108	300	5kg	28	108	300	3.5kg	166	31	166
10kg	73	54	286	10kg	14	54	132	4.5kg	123	24	123
15kg	45	36	175	15kg	9	36	76	7kg	69	16	69

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

### Correlation Diagram of Speed and Load Weight

● Horizontal Direction

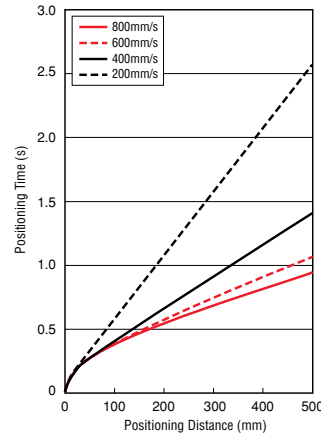
● Vertical Direction



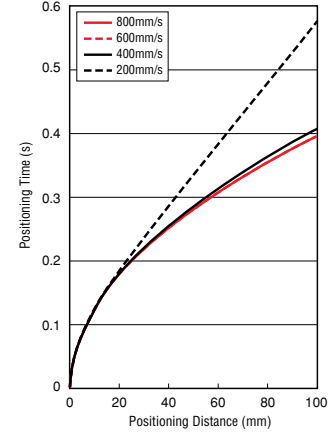
### Minimum Positioning Time

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

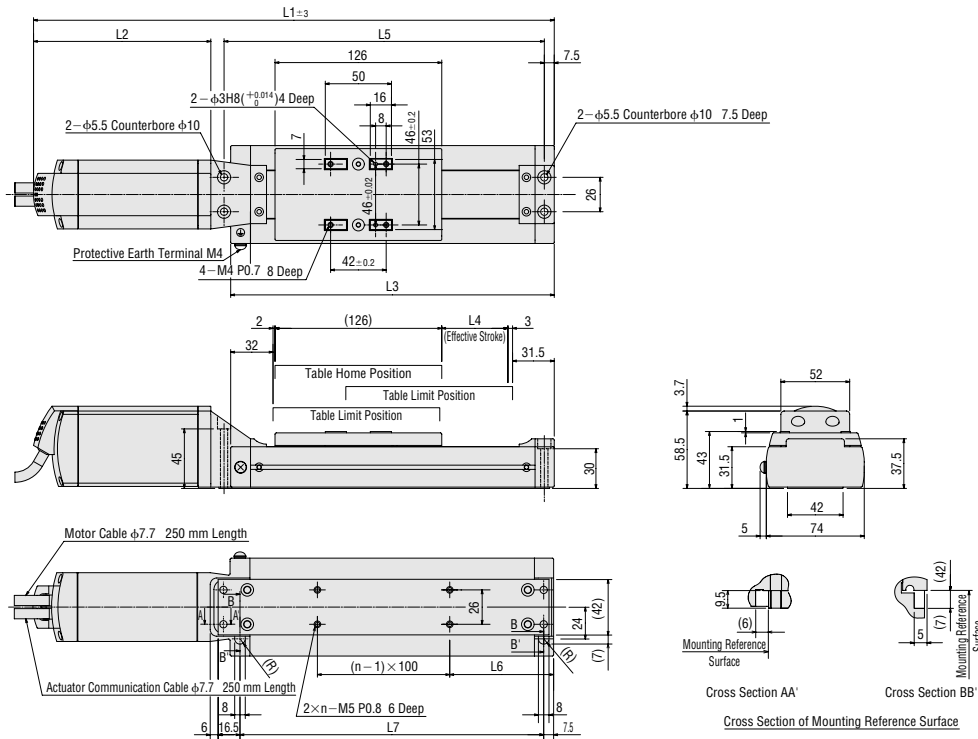
● Horizontal Direction/ Vertical Direction



Enlargement of Positioning Distance under 100 mm



### Dimensions unit: mm



Linear Slide Model	L1	L2	L3	L4	L5	L6	L7	n
EZHS4A-05	393.5	134	244.5	50	242	78.5	229.5	2
EZHS4A-05M	423.5	164						
EZHS4A-10	443.5	134	294.5	100	292	53.5	279.5	3
EZHS4A-10M	473.5	164						
EZHS4A-15	493.5	134	344.5	150	342	78.5	329.5	3
EZHS4A-15M	523.5	164						
EZHS4A-20	543.5	134	394.5	200	392	53.5	379.5	4
EZHS4A-20M	573.5	164						
EZHS4A-25	593.5	134	444.5	250	442	78.5	429.5	4
EZHS4A-25M	623.5	164						
EZHS4A-30	643.5	134	494.5	300	492	53.5	479.5	5
EZHS4A-30M	673.5	164						
EZHS4A-40	743.5	134	594.5	400	592	53.5	579.5	6
EZHS4A-40M	773.5	164						
EZHS4A-50	843.5	134	694.5	500	692	53.5	679.5	7
EZHS4A-50M	873.5	164						

## 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		18.4						
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

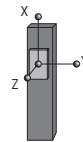
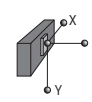
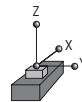
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	EZHS6A-□I	EZHS6A-□	EZMC24I-A
		EZHS6C-□I	EZHS6C-□	EZMC12I-C
	Equipped	EZHS6A-□MI	EZHS6A-□M	EZMC24I-A
		EZHS6C-□MI	EZHS6C-□M	EZMC12I-C

\*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

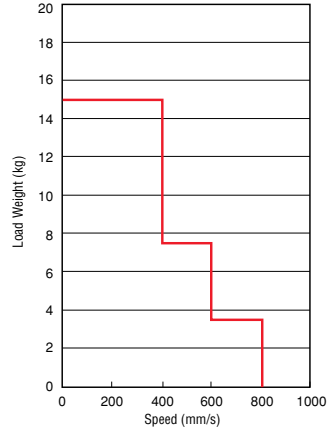
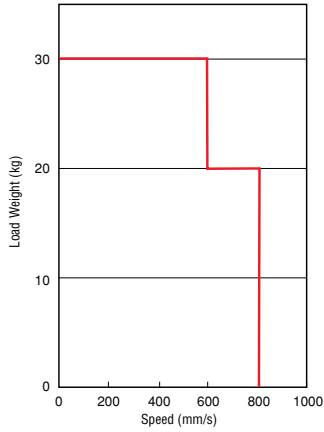
The values shown in the tables are for uni-axial loading. For multi-axis loading please contact an Oriental Motor representative for assistance.

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

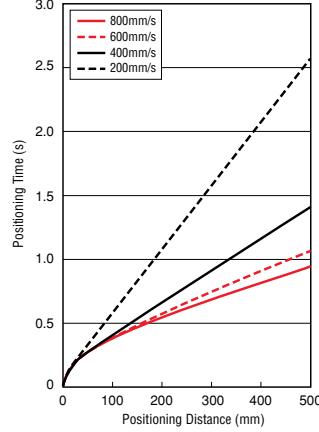
● Vertical Direction



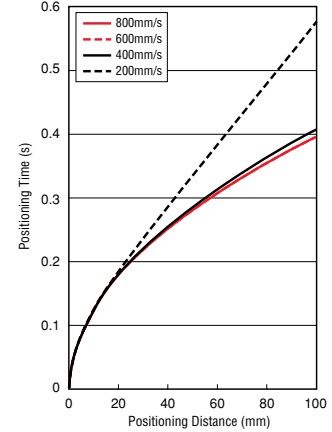
### Minimum Positioning Time

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

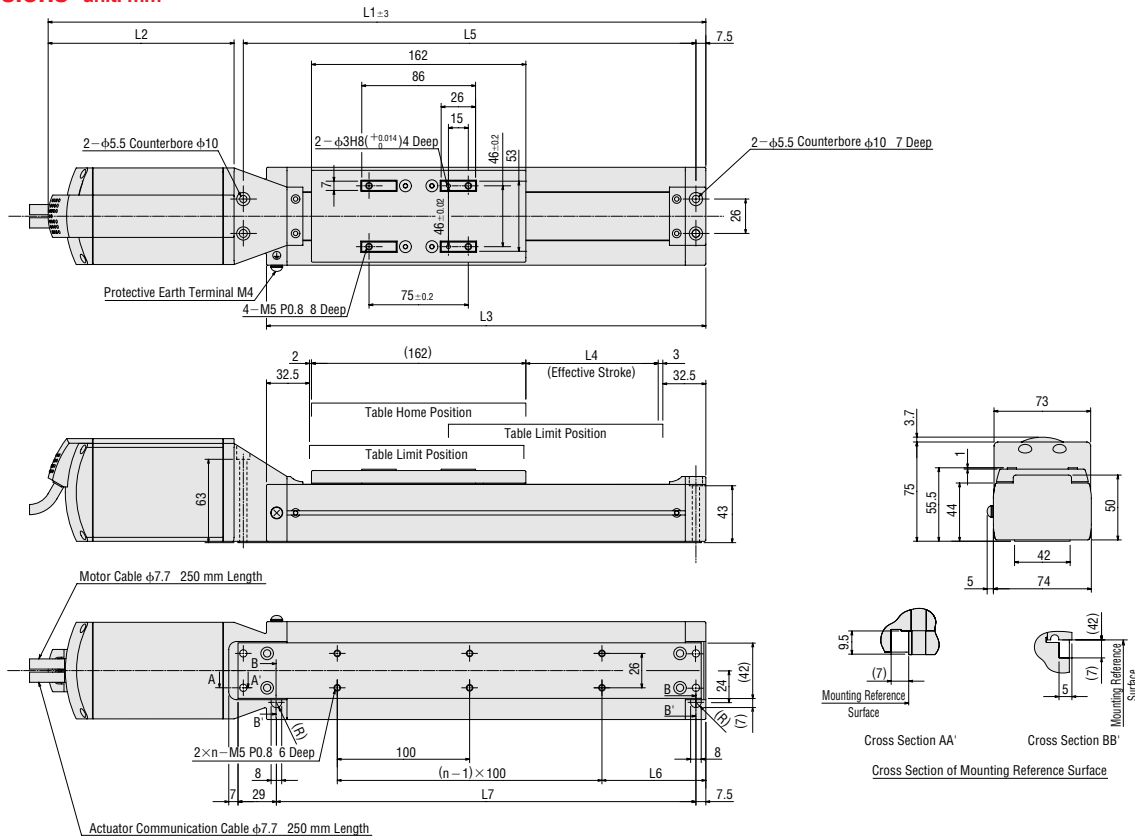
● Horizontal Direction/ Vertical Direction



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.