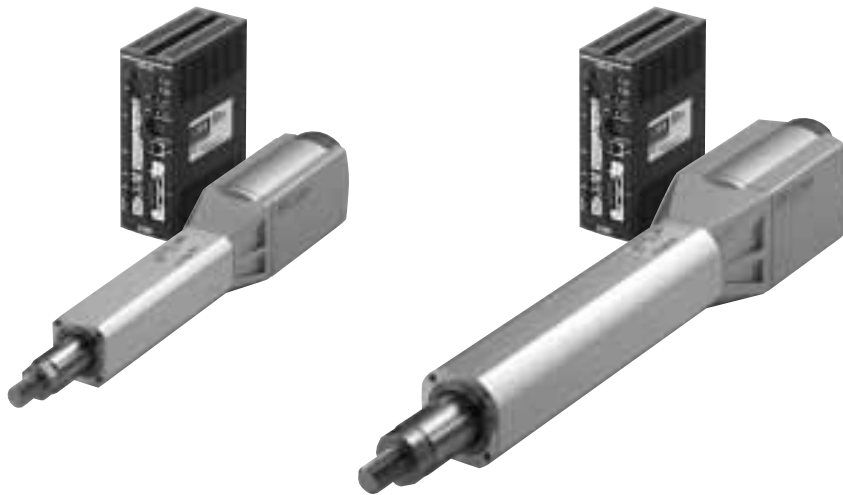


EZC Series
EZHC Series
EZHP Series

EZC Series

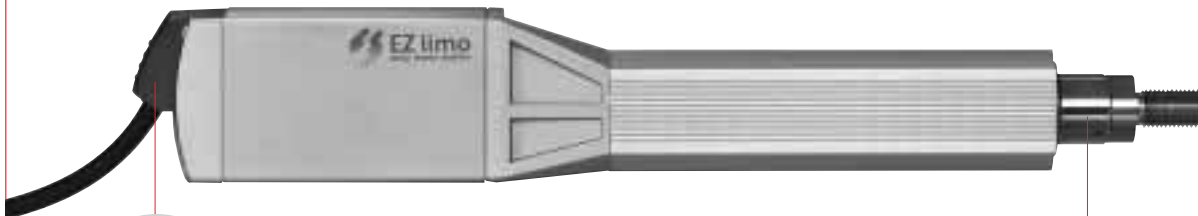


Names and Functions of the Cylinder



Mounting holes

The cylinder can be installed through the dedicated mounting holes, or via flange connection using an optional mounting bracket.

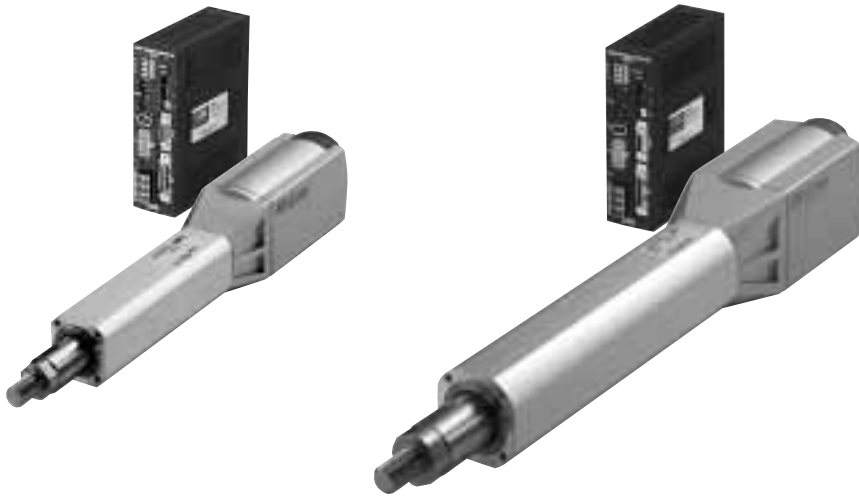


Cable

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

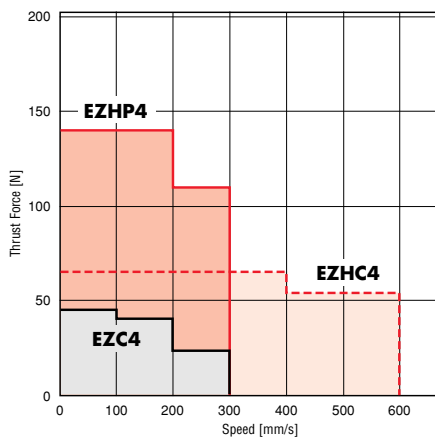
Rod

EZHC Series
EZHP Series

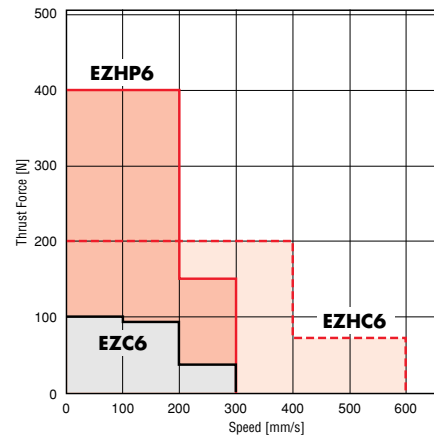


■ Motorized Cylinder Speed – Thrust Force Characteristics

EZC4/EZHC4/EZHP4



EZC6/EZHC6/EZHP6



Models

●EZC Series

◇Incremental Type

Without Electromagnetic Brake 24 VDC Input

Stroke	Model	
50mm	EZC4-05CI	EZC6-05CI
100mm	EZC4-10CI	EZC6-10CI
200mm	EZC4-20CI	EZC6-20CI
300mm	EZC4-30CI	EZC6-30CI

With Electromagnetic Brake 24 VDC Input

Stroke	Model	
50mm	EZC4-05MCI	EZC6-05MCI
100mm	EZC4-10MCI	EZC6-10MCI
200mm	EZC4-20MCI	EZC6-20MCI
300mm	EZC4-30MCI	EZC6-30MCI

◇Absolute Type

Without Electromagnetic Brake 24 VDC Input

Stroke	Model	
50mm	EZC4-05CA	EZC6-05CA
100mm	EZC4-10CA	EZC6-10CA
200mm	EZC4-20CA	EZC6-20CA
300mm	EZC4-30CA	EZC6-30CA

With Electromagnetic Brake 24 VDC Input

Stroke	Model	
50mm	EZC4-05MCA	EZC6-05MCA
100mm	EZC4-10MCA	EZC6-10MCA
200mm	EZC4-20MCA	EZC6-20MCA
300mm	EZC4-30MCA	EZC6-30MCA

Product Number Code

●EZC Series

EZC **4** - **10** **M** **C** **I**

① ② ③ ④ ⑤ ⑥

①	EZC Series	④	None : Without Electromagnetic Brake M : With Electromagnetic Brake
②	Cylinder Size	⑤	With Controller
③	Stroke 05 : 50mm 10 : 100mm 20 : 200mm 30 : 300mm	⑥	I : Incremental Type A : Absolute Type

●EZHC Series、EZHP Series

EZHC **4** **A** - **10** **M** **I**

① ② ③ ④ ⑤ ⑥

①	EZHC : EZHC Series EZHP : EZHP Series	④	Stroke 05 : 50mm 10 : 100mm 20 : 200mm 30 : 300mm
②	Cylinder Size	⑤	None : Without Electromagnetic Brake M : With Electromagnetic Brake
③	Power Supply A : Single-Phase 100-115V C : Single-Phase 200-230V	⑥	I : Incremental Type A : Absolute Type

●EZHC Series

◇Incremental Type

Without Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model	
50mm	EZHC4A-05I	EZHC6A-05I
100mm	EZHC4A-10I	EZHC6A-10I
200mm	EZHC4A-20I	EZHC6A-20I
300mm	EZHC4A-30I	EZHC6A-30I

With Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model	
50mm	EZHC4A-05MI	EZHC6A-05MI
100mm	EZHC4A-10MI	EZHC6A-10MI
200mm	EZHC4A-20MI	EZHC6A-20MI
300mm	EZHC4A-30MI	EZHC6A-30MI

◇Absolute Type

Without Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model	
50mm	EZHC4A-05A	EZHC6A-05A
100mm	EZHC4A-10A	EZHC6A-10A
200mm	EZHC4A-20A	EZHC6A-20A
300mm	EZHC4A-30A	EZHC6A-30A

With Electromagnetic Brake Single-Phase 100-115 V Input

Stroke	Model	
50mm	EZHC4A-05MA	EZHC6A-05MA
100mm	EZHC4A-10MA	EZHC6A-10MA
200mm	EZHC4A-20MA	EZHC6A-20MA
300mm	EZHC4A-30MA	EZHC6A-30MA

Single-Phase 200-230 V Input

Stroke	Model	
50mm	EZHC6C-05I	
100mm	EZHC6C-10I	
200mm	EZHC6C-20I	
300mm	EZHC6C-30I	

Single-Phase 200-230 V Input

Stroke	Model	
50mm	EZHC6C-05MI	
100mm	EZHC6C-10MI	
200mm	EZHC6C-20MI	
300mm	EZHC6C-30MI	

Single-Phase 200-230 V Input

Stroke	Model	
50mm	EZHC6C-05A	
100mm	EZHC6C-10A	
200mm	EZHC6C-20A	
300mm	EZHC6C-30A	

Single-Phase 200-230 V Input

Stroke	Model	
50mm	EZHC6C-05MA	
100mm	EZHC6C-10MA	
200mm	EZHC6C-20MA	
300mm	EZHC6C-30MA	

●EZHP Series

◇Incremental Type

Without Electromagnetic Brake Single-Phase 100-115V Input

Stroke	Model	
50mm	EZHP4A-05I	EZHP6A-05I
100mm	EZHP4A-10I	EZHP6A-10I
200mm	EZHP4A-20I	EZHP6A-20I
300mm	EZHP4A-30I	EZHP6A-30I

With Electromagnetic Brake Single-Phase 100-115V Input

Stroke	Model	
50mm	EZHP4A-05MI	EZHP6A-05MI
100mm	EZHP4A-10MI	EZHP6A-10MI
200mm	EZHP4A-20MI	EZHP6A-20MI
300mm	EZHP4A-30MI	EZHP6A-30MI

◇Absolute Type

Without Electromagnetic Brake Single-Phase 100-115V Input

Stroke	Model	
50mm	EZHP4A-05A	EZHP6A-05A
100mm	EZHP4A-10A	EZHP6A-10A
200mm	EZHP4A-20A	EZHP6A-20A
300mm	EZHP4A-30A	EZHP6A-30A

With Electromagnetic Brake Single-Phase 100-115V Input

Stroke	Model	
50mm	EZHP4A-05MA	EZHP6A-05MA
100mm	EZHP4A-10MA	EZHP6A-10MA
200mm	EZHP4A-20MA	EZHP6A-20MA
300mm	EZHP4A-30MA	EZHP6A-30MA

Single-Phase 200-230V Input

Stroke	Model	
50mm	EZHP6C-05I	
100mm	EZHP6C-10I	
200mm	EZHP6C-20I	
300mm	EZHP6C-30I	

Single-Phase 200-230V Input

Stroke	Model	
50mm	EZHP6C-05MI	
100mm	EZHP6C-10MI	
200mm	EZHP6C-20MI	
300mm	EZHP6C-30MI	

Single-Phase 200-230V Input

Stroke	Model	
50mm	EZHP6C-05A	
100mm	EZHP6C-10A	
200mm	EZHP6C-20A	
300mm	EZHP6C-30A	

Single-Phase 200-230V Input

Stroke	Model	
50mm	EZHP6C-05MA	
100mm	EZHP6C-10MA	
200mm	EZHP6C-20MA	
300mm	EZHP6C-30MA	

EZC Series

EZC4



Specifications

Model	Incremental Type		EZC4-□CI				EZC4-□MCI							
	Absolute Type		EZC4-□CA				EZC4-□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*	—	—	—	—	—	—	—	—	—			
		Vertical Direction	—	—	—	4.5	4	2						
Max. Acceleration	m/s ²	Horizontal Direction	—				—							
		Vertical Direction	—				2							
Max. Thrust Force	N	kgf	45	4.5	40	4	23	2.3	45	4.5	40	4	23	2.3
Push Force	N	kgf	45 4.5 (Speed: 6 mm/s or less)											
Max. Holding Brake Force	N	kgf	Power ON		45 4.5				45 4.5					
			Power OFF		—				—					
			Electromagnetic Brake		—				45 4.5					
Repetitive Positioning Accuracy	mm		±0.02											
Resolution	mm		0.015											
Lead	mm		12											
Stroke	mm		50, 100, 200, 300											
Cylinder Mass	kg		Stroke	50 : 1.6 (1.8)	100 : 1.9 (2.1)	200 : 2.4 (2.6)	300 : 2.9 (3.1)							
Ambient Temperature	°C		0~+40 (Nonfreezing)											

*In a horizontal direction, the value cannot be shown because it varies by frictional resistance of the sliding surface.

●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. • 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 0.5 kV 50 Hz • Case — Windings of electromagnetic brake AC 0.5 kV 50 Hz (Only for electromagnetic brake equipped model)

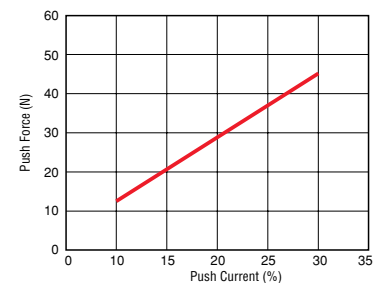
Cylinder/Controller Combinations

Type	Electromagnetic Brake	Model	Cylinder Model	Controller Model
Incremental Type	Not equipped	EZC4-□CI	EZC4-□	EZMC36I
	Equipped	EZC4-□MCI	EZC4-□M	
Absolute Type	Not equipped	EZC4-□CA	EZC4-□	EZMC36A
	Equipped	EZC4-□MCA	EZC4-□M	

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

Push Force

Push force can be set through "Push current setting" in the parameter mode.

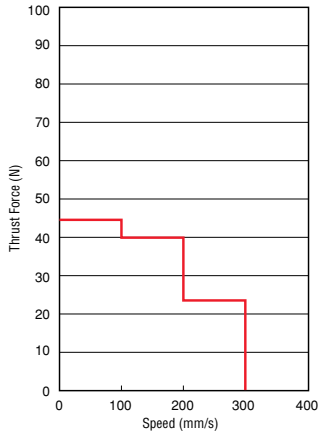


Notes:

- The above value is a reference, not guaranteed.
- When the cylinder is used in a vertical direction, an external force calculated by multiplying the weight of the carried object by the rate of gravitational acceleration is applied. Therefore, the cylinder push force must be set so as to accommodate this external force. Measure the push force using an actual load, and set an appropriate push current.

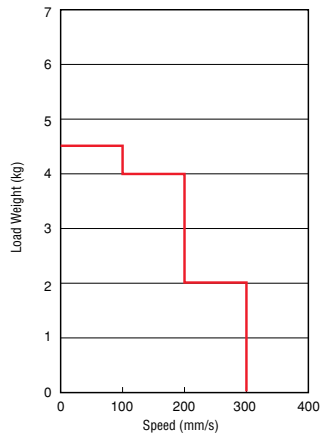
Correlation Diagram of Speed and Thrust Force

● Horizontal Direction/
Vertical Direction



Correlation Diagram of Speed and Load Weight

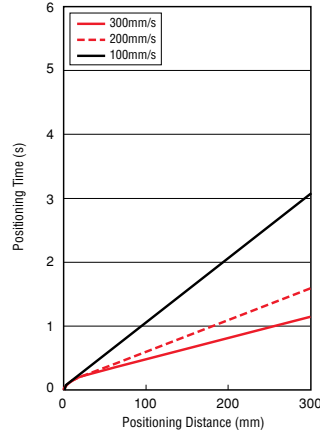
● Vertical Direction



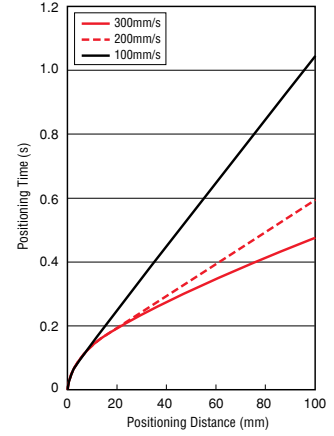
Minimum Positioning Time

Acceleration: 2 m/s² Starting Speed: 6 mm/s

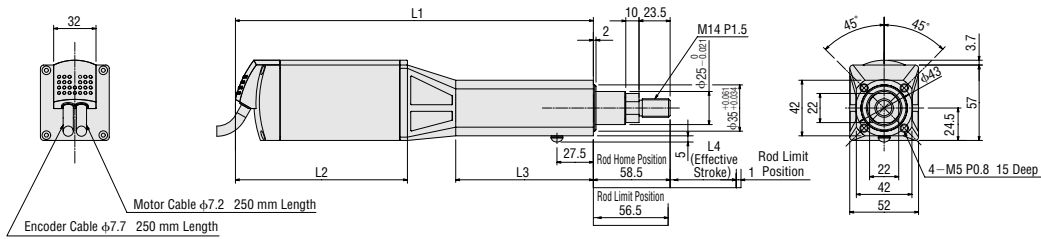
● Horizontal Direction/ Vertical Direction



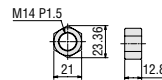
Enlargement of Positioning Distance under 100 mm



Dimensions unit: mm



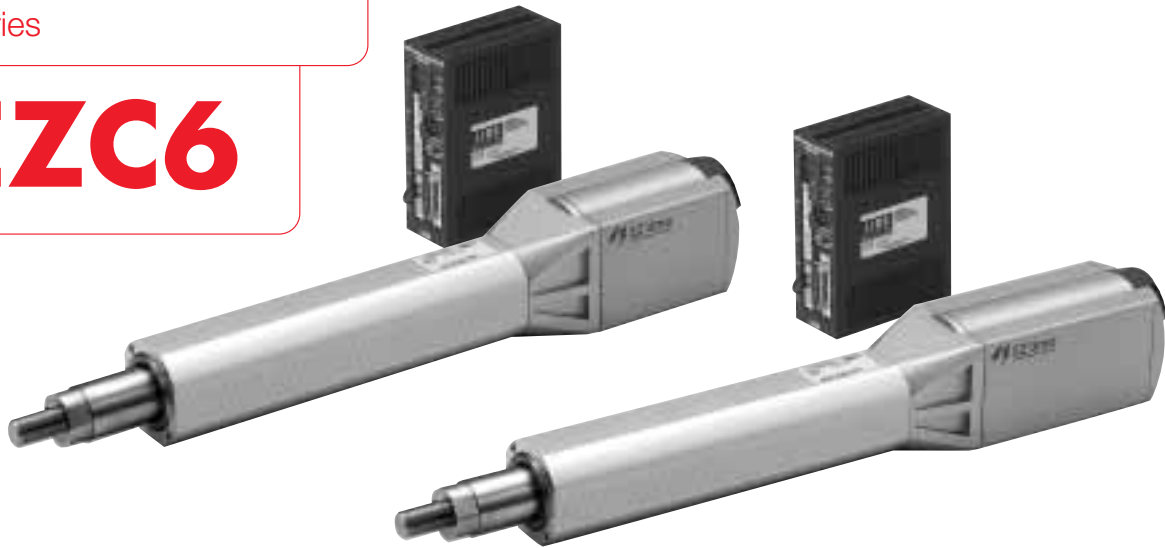
● Nut (included) 1 piece



Cylinder Model	L1	L2	L3	L4
EZC4-05	270.5	130	104	50
EZC4-05M	300.5	160		
EZC4-10	320.5	130	154	100
EZC4-10M	350.5	160		
EZC4-20	420.5	130	254	200
EZC4-20M	450.5	160		
EZC4-30	520.5	130	354	300
EZC4-30M	550.5	160		

EZC Series

EZC6



Specifications

Model	Incremental Type		EZC6-□CI				EZC6-□MCI							
	Absolute Type		EZC6-□CA				EZC6-□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	Equipped					
Max. Transportable Mass	kg	Horizontal Direction*	—	—	—	—	—	—	—	—	—			
		Vertical Direction	—	—	—	10	8	3						
Max. Acceleration	m/s ²	Horizontal Direction	—											
		Vertical Direction	2											
Max. Thrust Force	N	kgf	100	10	94	9.4	35	3.5	100	10	94	9.4	35	3.5
Push Force	N	kgf	100 10 (Speed: 6 mm/s or less)											
Max. Holding Brake Force	N	kgf	Power ON	100 10				100 10						
			Power OFF	—										
			Electromagnetic Brake	—				100 10						
Repetitive Positioning Accuracy	mm		±0.02											
Resolution	mm		0.015											
Lead	mm		12											
Stroke	mm		50, 100, 200, 300											
Cylinder Mass	kg		Stroke	50 : 3.2 (3.6)	100 : 3.6 (4.0)	200 : 4.5 (4.9)	300 : 5.5 (5.9)	Figure in the parentheses shows the mass of the model with electromagnetic brake.						
Ambient Temperature	°C		0~+40(Nonfreezing)											

*In a horizontal direction, the value cannot be shown because it varies by frictional resistance of the sliding surface.

●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. • 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)

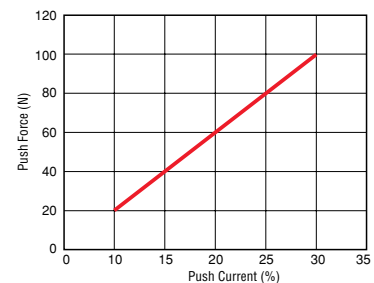
Cylinder/Controller Combinations

Type	Electromagnetic Brake	Model	Cylinder Model	Controller Model
Incremental Type	Not equipped	EZC6-□CI	EZC6-□	EZMC36I
	Equipped	EZC6-□MCI	EZC6-□M	
Absolute Type	Not equipped	EZC6-□CA	EZC6-□	EZMC36A
	Equipped	EZC6-□MCA	EZC6-□M	

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

Push Force

Push force can be set through "Push current setting" in the parameter mode.

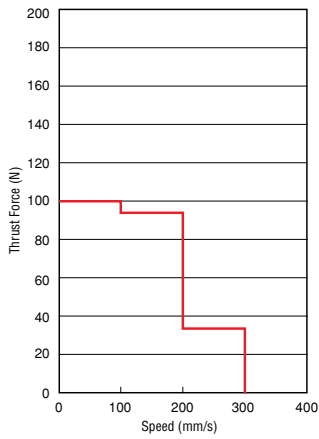


Notes:

- The above value is a reference, not guaranteed.
- When the cylinder is used in a vertical direction, an external force calculated by multiplying the weight of the carried object by the rate of gravitational acceleration is applied. Therefore, the cylinder push force must be set so as to accommodate this external force. Measure the push force using an actual load, and set an appropriate push current.

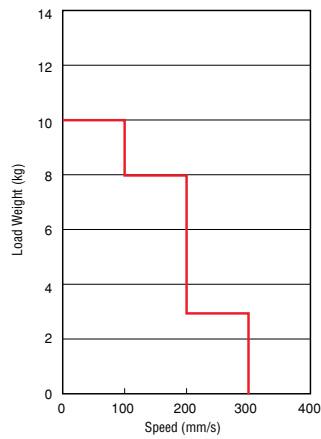
Correlation Diagram of Speed and Thrust Force

● Horizontal Direction/
Vertical Direction



Correlation Diagram of Speed and Load Weight

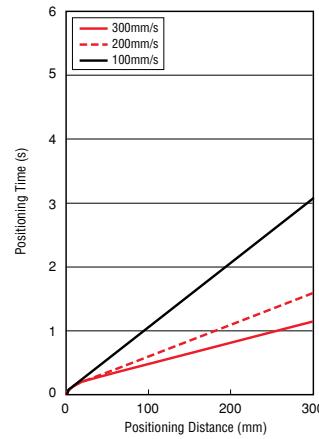
● Vertical Direction



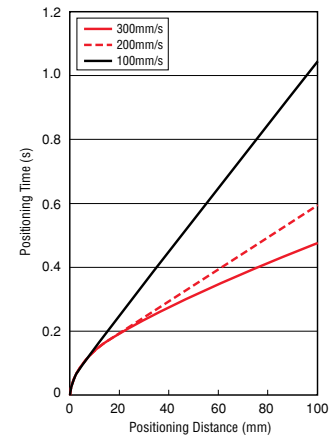
Minimum Positioning Time

Acceleration: 2 m/s² Starting Speed: 6 mm/s

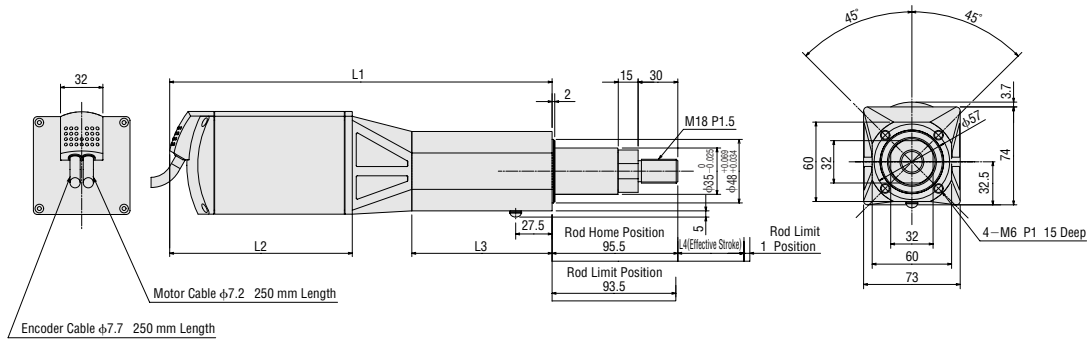
● Horizontal Direction/ Vertical Direction



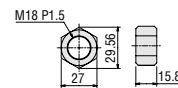
Enlargement of Positioning Distance under 100 mm



Dimensions unit: mm



● Nut (included) 1 piece



Cylinder Model	L1	L2	L3	L4
EZC6-05	289	138	106	50
EZC6-05M	324	173		
EZC6-10	339	138	156	100
EZC6-10M	374	173		
EZC6-20	439	138	256	200
EZC6-20M	474	173		
EZC6-30	539	138	356	300
EZC6-30M	574	173		

EZHC Series

EZHC4



Specifications

Model	Incremental Type		EZHC4A-□I				EZHC4A-□MI					
	Absolute Type		EZHC4A-□A				EZHC4A-□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		~400		~600			
Max. Transportable Mass	kg	Horizontal Direction*	—		—		—		—			
		Vertical Direction	—		—		6.5		4.5			
Max. Acceleration	m/s ²	Horizontal Direction	—		—		—		—			
		Vertical Direction	—		—		2.5		—			
Max. Thrust Force	N	kgf	65	6.5	55	5.5	65	6.5	55	5.5		
Push Force	N	kgf	65		6.5		(Speed: 6 mm/s or less)					
Max. Holding Brake Force	N	kgf	Power ON		65		6.5		65		6.5	
			Power OFF		—		—		—		—	
			Electromagnetic Brake		—		—		65		6.5	
Repetitive Positioning Accuracy	mm		±0.02				—					
Resolution	mm		0.01				—					
Lead	mm		12				—					
Stroke	mm		50, 100, 200, 300				—					
Cylinder Mass	kg		Stroke	50 : 1.7 (1.9)	100 : 2.0 (2.2)	200 : 2.5 (2.7)	300 : 3.0 (3.2)	Figure in the parentheses shows the mass of the model with electromagnetic brake.				
Ambient Temperature	°C		0 ~ +40 (Nonfreezing)				—					

*In a horizontal direction, the value cannot be shown because it varies by frictional resistance of the sliding surface.

●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)

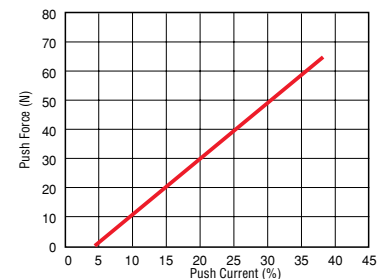
Cylinder/Controller Combinations

Type	Electromagnetic Brake	Model	Cylinder Model	Controller Model
Incremental Type	Not equipped	EZHC4A-□I	EZHC4A-□	EZMC13I-A
	Equipped	EZHC4A-□MI	EZHC4A-□M	
Absolute Type	Not equipped	EZHC4A-□A	EZHC4A-□	EZMC13A-A
	Equipped	EZHC4A-□MA	EZHC4A-□M	

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

Push Force

Push force can be set through "Push current setting" in the program mode.



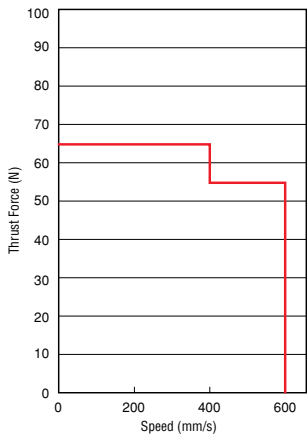
Notes:

• The above value is a reference, not guaranteed.

• When the cylinder is used in a vertical direction, an external force calculated by multiplying the weight of the carried object by the rate of gravitational acceleration is applied. Therefore, the cylinder push force must be set so as to accommodate this external force. Measure the push force using an actual load, and set an appropriate push current.

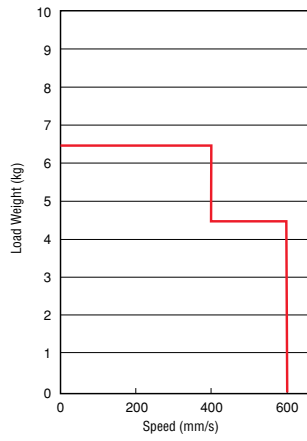
Correlation Diagram of Speed and Thrust Force

● Horizontal Direction/
Vertical Direction



Correlation Diagram of Speed and Load Weight

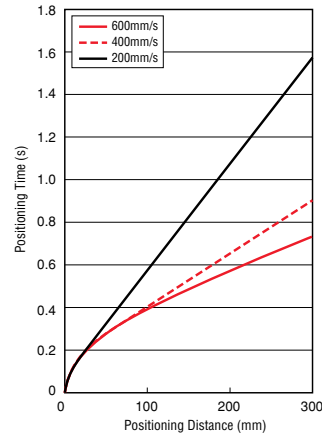
● Vertical Direction



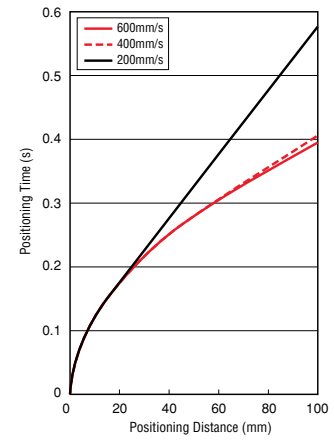
Minimum Positioning Time

Acceleration: 2.5 m/s² Starting Speed: 6 mm/s

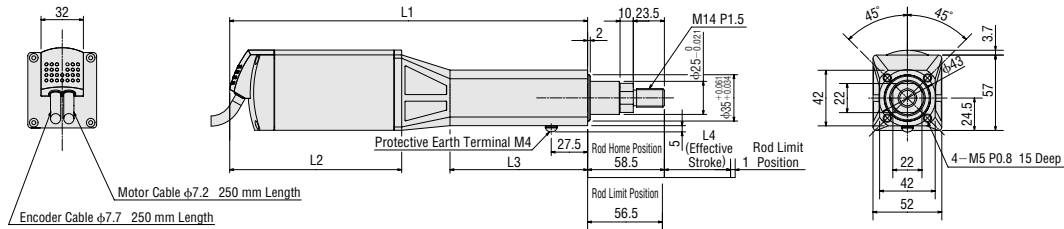
● Horizontal Direction/ Vertical Direction



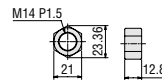
Enlargement of Positioning Distance under 100 mm



Dimensions unit: mm



● Nut (included) 1 piece



Cylinder Model	L1	L2	L3	L4
EZHC4A-05	270.5	130	104	50
EZHC4A-05M	300.5	160		
EZHC4A-10	320.5	130	154	100
EZHC4A-10M	350.5	160		
EZHC4A-20	420.5	130	254	200
EZHC4A-20M	450.5	160		
EZHC4A-30	520.5	130	354	300
EZHC4A-30M	550.5	160		

EZHC Series

EZHC6



Specifications

Model	Incremental Type		EZHC6A-□I, EZHC6C-□I				EZHC6A-□MI, EZHC6C-□MI				
	Absolute Type		EZHC6A-□A, EZHC6C-□A				EZHC6A-□MA, EZHC6C-□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		~400		~600		
Max. Transportable Mass	kg	Horizontal Direction*	—		—		—		—		
		Vertical Direction	—		—		15		6		
Max. Acceleration	m/s ²	Horizontal Direction	—		—		—		—		
		Vertical Direction	—		—		2.5		—		
Max. Thrust Force	N	kgf	200	20	73	7.3	200	20	73	7.3	
Push Force	N	kgf	200 20 (Speed: 6 mm/s or less)								
Max. Holding Brake Force	N	kgf	Power ON	200		20		200		20	
			Power OFF	—		—		—		—	
			—		—		200		20		
Electromagnetic Brake			—		—		200		20		
Repetitive Positioning Accuracy	mm		±0.02								
Resolution	mm		0.01								
Lead	mm		12								
Stroke	mm		50, 100, 200, 300								
Cylinder Mass	kg		Stroke	50 : 3.3 (3.7)	100 : 3.7 (4.1)	200 : 4.6 (5.0)	300 : 5.6 (6.0)	Figure in the parentheses shows the mass of the model with electromagnetic brake.			
Ambient Temperature	°C		0~+40 (Nonfreezing)								

*In a horizontal direction, the value cannot be shown because it varies by frictional resistance of the sliding surface.

●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 AC 1.0 kV 50 Hz (Only for electromagnetic brake equipped model)

Cylinder/Controller Combinations

Type	Electromagnetic Brake	Model	Cylinder Model	Controller Model
Incremental Type	Not equipped	EZHC6A-□I	EZHC6A-□	EZMC24I-A
		EZHC6C-□I	EZHC6C-□	EZMC12I-C
	Equipped	EZHC6A-□MI	EZHC6A-□M	EZMC24I-A
		EZHC6C-□MI	EZHC6C-□M	EZMC12I-C
Absolute Type	Not equipped	EZHC6A-□A	EZHC6A-□	EZMC24A-A
		EZHC6C-□A	EZHC6C-□	EZMC12A-C
	Equipped	EZHC6A-□MA	EZHC6A-□M	EZMC24A-A
		EZHC6C-□MA	EZHC6C-□M	EZMC12A-C

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

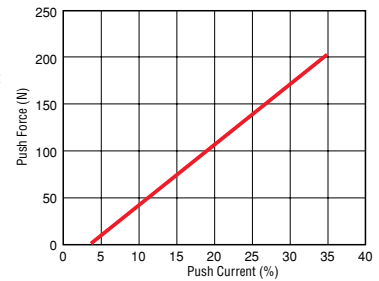
Push Force

Push force can be set through "Push current setting" in the program mode.

Notes:

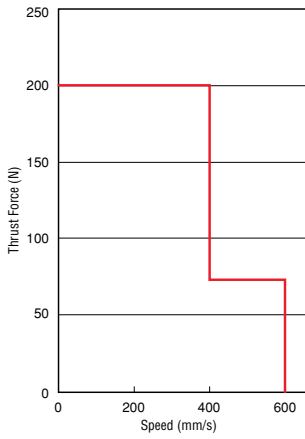
• The above value is a reference, not guaranteed.

• When the cylinder is used in a vertical direction, an external force calculated by multiplying the weight of the carried object by the rate of gravitational acceleration is applied. Therefore, the cylinder push force must be set so as to accommodate this external force. Measure the push force using an actual load, and set an appropriate push current.



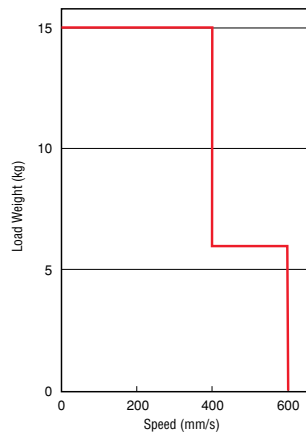
Correlation Diagram of Speed and Thrust Force

● Horizontal Direction/
Vertical Direction



Correlation Diagram of Speed and Load Weight

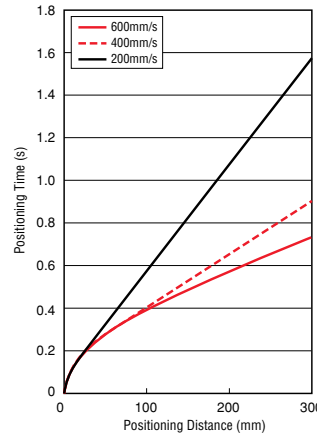
● Vertical Direction



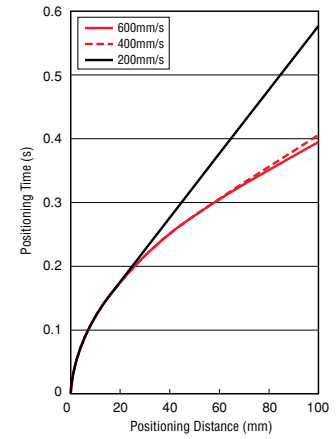
Minimum Positioning Time

Acceleration: 2.5 m/s² Starting Speed: 6 mm/s

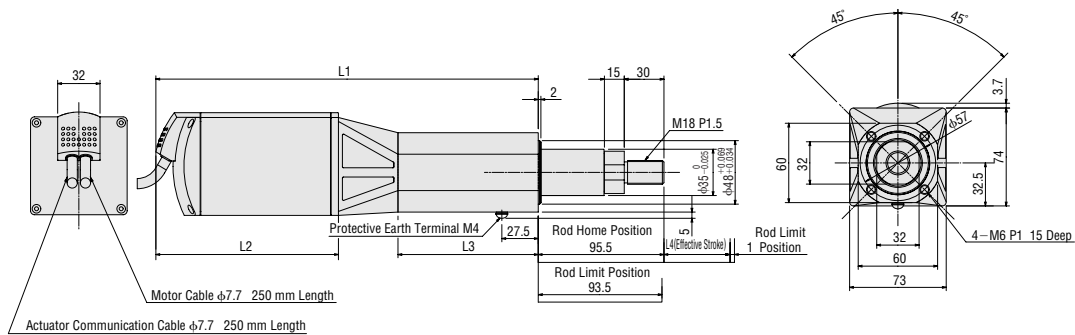
● Horizontal Direction/ Vertical Direction



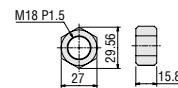
Enlargement of Positioning Distance under 100 mm



Dimensions unit: mm



● Nut (included) 1 piece



Cylinder Model	L1	L2	L3	L4
EZHC6□-05	289	138	106	50
EZHC6□-05M	324	173		
EZHC6□-10	339	138	156	100
EZHC6□-10M	374	173		
EZHC6□-20	439	138	256	200
EZHC6□-20M	474	173		
EZHC6□-30	539	138	356	300
EZHC6□-30M	574	173		

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

EZHP Series

EZHP4



Specifications

Model	Incremental Type		EZHP4A-□I				EZHP4A-□MI			
	Absolute Type		EZHP4A-□A				EZHP4A-□MA			
Motor Type	Stepping Motor with Built-in Rotor-Position Sensor									
Drive Method	Ball Screw									
Electromagnetic Brake	Not equipped					Equipped				
Speed Range	mm/s		~200		~300		~200		~300	
Max. Transportable Mass	kg	Horizontal Direction*	—		—		—		—	
		Vertical Direction	—		—		14		9	
Max. Acceleration	m/s ²	Horizontal Direction	—		—		—		—	
		Vertical Direction	—		—		2.5		—	
Max. Thrust Force	N	kgf	140	14	110	11	140	14	110	11
Push Force	N	kgf	140 14 (Speed: 6 mm/s or less)							
Max. Holding Brake Force	N	kgf	Power ON		140 14		140 14		140 14	
			Power OFF		—		—		—	
			Electromagnetic Brake		—		140 14		—	
Repetitive Positioning Accuracy	mm		±0.02							
Resolution	mm		0.01							
Lead	mm		6							
Stroke	mm		50, 100, 200, 300							
Cylinder Mass	kg		Stroke	50 : 1.7 (1.9)	100 : 2.0 (2.2)	200 : 2.5 (2.7)	300 : 3.0 (3.2)	Figure in the parentheses shows the mass of the model with electromagnetic brake.		
Ambient Temperature	°C		0~+40 (Nonfreezing)							

*In a horizontal direction, the value cannot be shown because it varies by frictional resistance of the sliding surface.

●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"> • Windings — Case • Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)
Dielectric Strength	Sufficient to withstand the following for one minute. <ul style="list-style-type: none"> • 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)

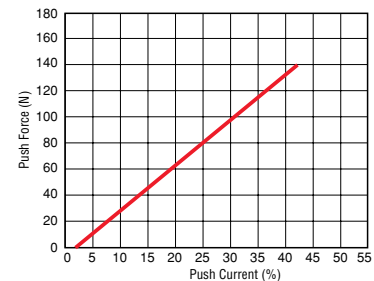
Cylinder/Controller Combinations

Type	Electromagnetic Brake	Model	Cylinder Model	Controller Model
Incremental Type	Not equipped	EZHP4A-□I	EZHP4A-□	EZMC13I-A
	Equipped	EZHP4A-□MI	EZHP4A-□M	
Absolute Type	Not equipped	EZHP4A-□A	EZHP4A-□	EZMC13A-A
	Equipped	EZHP4A-□MA	EZHP4A-□M	

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

Push Force

Push force can be set through "Push current setting" in the program mode.

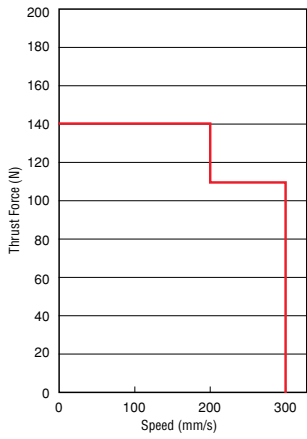


Notes:

- The above value is a reference, not guaranteed.
- When the cylinder is used in a vertical direction, an external force calculated by multiplying the weight of the carried object by the rate of gravitational acceleration is applied. Therefore, the cylinder push force must be set so as to accommodate this external force. Measure the push force using an actual load, and set an appropriate push current.

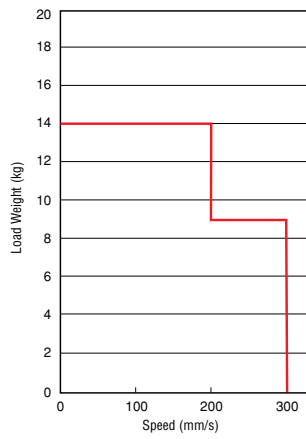
Correlation Diagram of Speed and Thrust Force

● Horizontal Direction/
Vertical Direction



Correlation Diagram of Speed and Load Weight

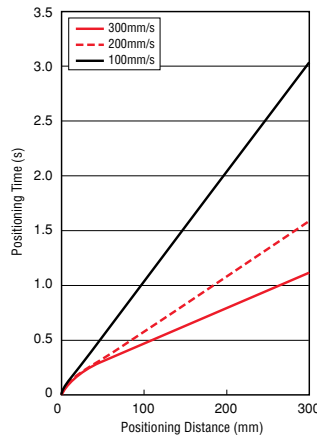
● Vertical Direction



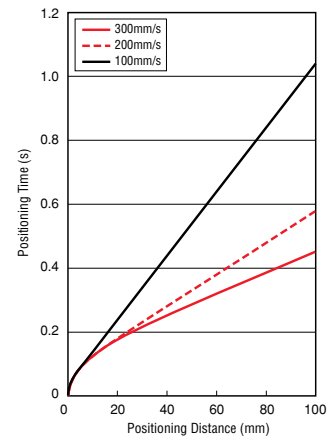
Minimum Positioning Time

Acceleration: 2.5 m/s² Starting Speed: 3 mm/s

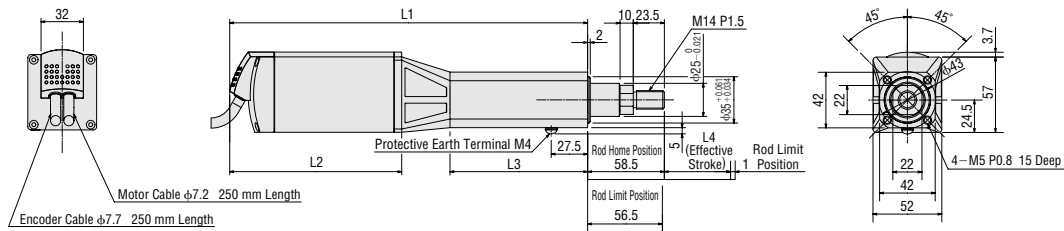
● Horizontal Direction/ Vertical Direction



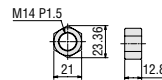
Enlargement of Positioning Distance under 100 mm



Dimensions unit: mm



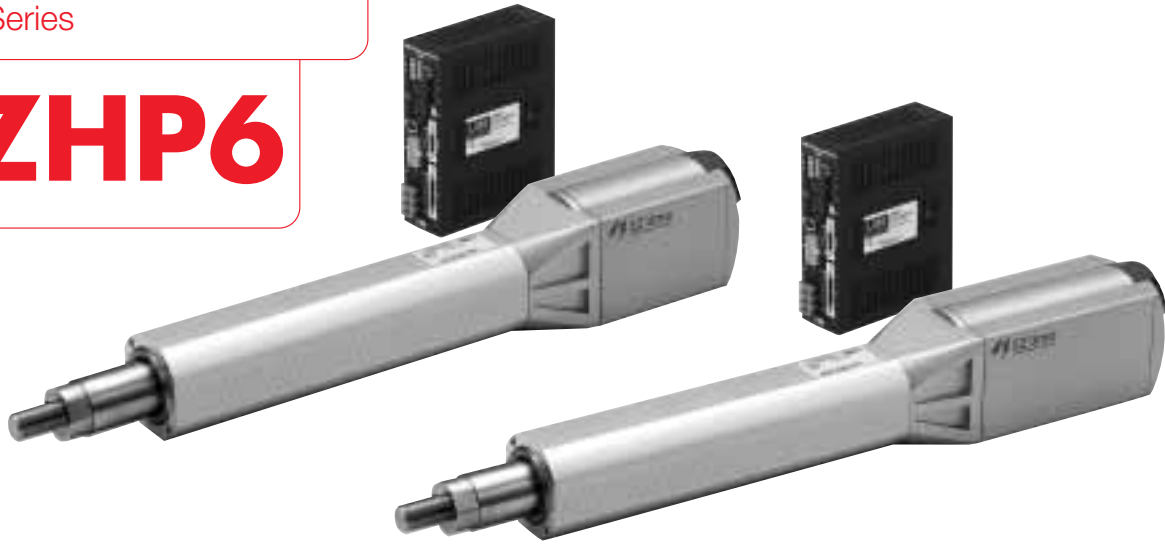
● Nut (included) 1 piece



Cylinder Model	L1	L2	L3	L4
EZHP4A-05	270.5	130	104	50
EZHP4A-05M	300.5	160		
EZHP4A-10	320.5	130	154	100
EZHP4A-10M	350.5	160		
EZHP4A-20	420.5	130	254	200
EZHP4A-20M	450.5	160		
EZHP4A-30	520.5	130	354	300
EZHP4A-30M	550.5	160		

EZHP Series

EZHP6



Specifications

Model	Incremental Type		EZHP6A-□I, EZHP6C-□I				EZHP6A-□MI, EZHP6C-□MI			
	Absolute Type		EZHP6A-□A, EZHP6C-□A				EZHP6A-□MA, EZHP6C-□MA			
Motor Type	Stepping Motor with Built-in Rotor-Position Sensor									
Drive Method	Ball Screw									
Electromagnetic Brake	Not equipped									
Speed Range	mm/s		~200		~300		~200		~300	
Max. Transportable Mass	kg	Horizontal Direction*	—		—		—		—	
		Vertical Direction	—		—		30		12	
Max. Acceleration	m/s ²	Horizontal Direction	—		—		—		—	
		Vertical Direction	—		—		2.5		—	
Max. Thrust Force	N	kgf	400	40	147	14.7	400	40	147	14.7
Push Force	N	kgf	400 40 (Speed: 6 mm/s or less)							
Max. Holding Brake Force	N	kgf	Power ON	400	40	—				
			Power OFF	—		—				
			Electromagnetic Brake	—		400 40				
Repetitive Positioning Accuracy	mm		±0.02							
Resolution	mm		0.01							
Lead	mm		6							
Stroke	mm		50, 100, 200, 300							
Cylinder Mass	kg		Stroke	50 : 3.3 (3.7)	100 : 3.7 (4.1)	200 : 4.6 (5.0)	300 : 5.6 (6.0)	Figure in the parentheses shows the mass of the model with electromagnetic brake.		
Ambient Temperature	°C		0~+40 (Nonfreezing)							

*In a horizontal direction, the value cannot be shown because it varies by frictional resistance of the sliding surface.

●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"> • Windings — Case • Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)
Dielectric Strength	Sufficient to withstand the following for one minute. <ul style="list-style-type: none"> • Windings — Case AC 1.5 kV 50 Hz • Case — Windings of electromagnetic brake AC 1.0 kV 50 Hz (Only for electromagnetic brake equipped model)

Cylinder/Controller Combinations

Type	Electromagnetic Brake	Model	Cylinder Model	Controller Model
Incremental Type	Not equipped	EZHP6A-□I	EZHP6A-□	EZMC24I-A
		EZHP6C-□I	EZHP6C-□	EZMC12I-C
	Equipped	EZHP6A-□MI	EZHP6A-□M	EZMC24I-A
		EZHP6C-□MI	EZHP6C-□M	EZMC12I-C

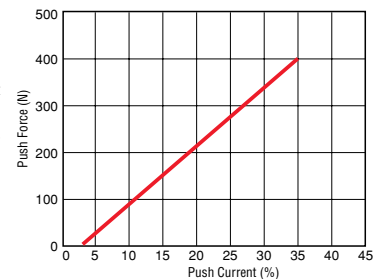
*The box (□) in the model name and cylinder model name represents the code for stroke length.

Push Force

Push force can be set through "Push current setting" in the program mode.

Notes:

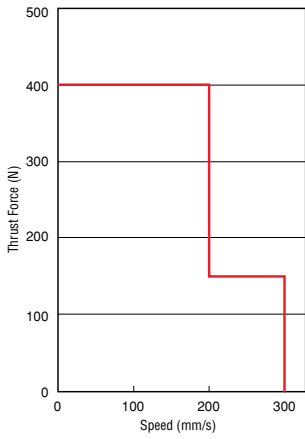
- The above value is a reference, not guaranteed.
- When the cylinder is used in a vertical direction, an external force calculated by multiplying the weight of the carried object by the rate of gravitational acceleration is applied. Therefore, the cylinder push force must be set so as to accommodate this external force. Measure the push force using an actual load, and set an appropriate push current.



Type	Electromagnetic Brake	Model	Cylinder Model	Controller Model
Absolute Type	Not equipped	EZHP6A-□A	EZHP6A-□	EZMC24A-A
		EZHP6C-□A	EZHP6C-□	EZMC12A-C
	Equipped	EZHP6A-□MA	EZHP6A-□M	EZMC24A-A
		EZHP6C-□MA	EZHP6C-□M	EZMC12A-C

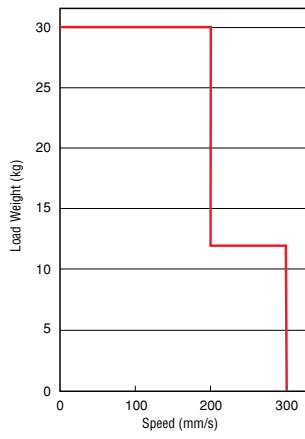
Correlation Diagram of Speed and Thrust Force

● Horizontal Direction/
Vertical Direction



Correlation Diagram of Speed and Load Weight

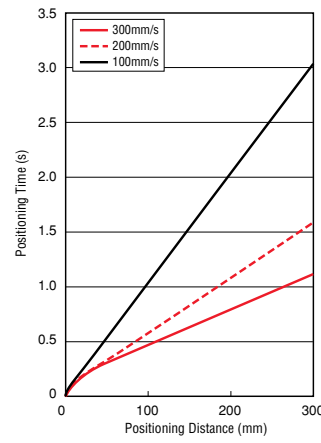
● Vertical Direction



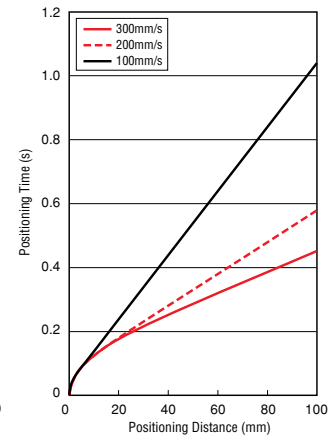
Minimum Positioning Time

Acceleration: 2.5 m/s² Starting Speed: 3 mm/s

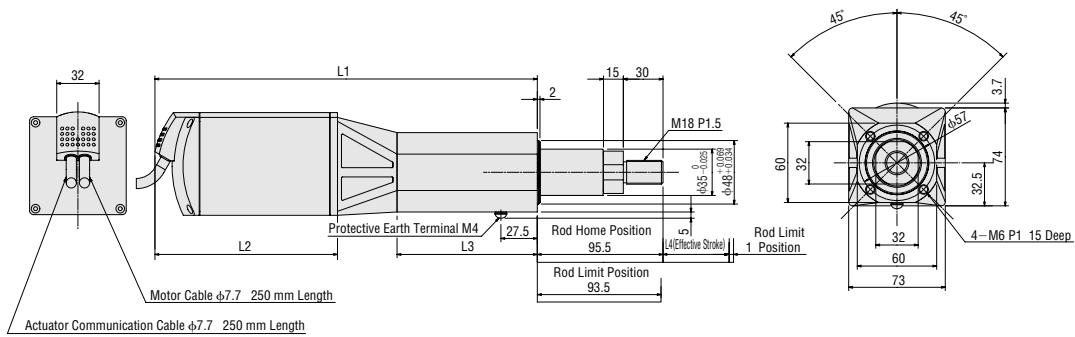
● Horizontal Direction/ Vertical Direction



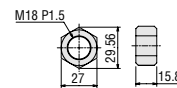
Enlargement of Positioning Distance under 100 mm



Dimensions unit: mm



● Nut (included) 1 piece



Cylinder Model	L1	L2	L3	L4
EZHP6□-05	289	138	106	50
EZHP6□-05M	324	173		
EZHP6□-10	339	138	156	100
EZHP6□-10M	374	173		
EZHP6□-20	439	138	256	200
EZHP6□-20M	474	173		
EZHP6□-30	539	138	356	300
EZHP6□-30M	574	173		

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