

MISUMI C-VALUE Single Axis Actuators LST10 - Belt Driving



Similar Component Page P.459~P.462

Compared to Similar Products 45% Off Max.

Points to compare against Similar Products For Positioning Repeatability and Allowable Static Moment, C-VALUE components differ from their similar products. P.459~P.462

Product Features: By adopting this Belt Driving type of Single Axis Actuator, Long Stroke and High Speed Transferring / Positioning can be achieved at low costs.

Accessory **Material** **Surface Treatment** **Quantity** **Note**

Motor Bracket	Aluminum Alloy	Gold Anodize	1	-
Spacer	Aluminum Alloy	Black Anodize	2	-
Hex Socket Head Cap Screw M4x20	Steel	Black Oxide	4	Motor Bracket Non-flexible
Adapter Plate	Aluminum Alloy	Black Anodize	1	-
Hex Socket Head Cap Screw M3x8	Steel	Black Oxide	4	Adapter Plate Non-flexible

⚠ The Motor Bracket and Adapter Plate are not installed yet when being shipped from the factory.
⚠ The motor bracket can be mounted on either the right side or the left side.

Example of Mounting a Motor Bracket

Stroke: L
Flange Size: A
Motor Adapter Plate: 22.2, 7.8, 0.5-0.009, Ø26 H7

Motor Bracket mounted on the Left Side:
4xM3 For installing Adapter Plate
2xØ4, H7, Depth 4
2xM3, Depth 5 (for Sensor Flag Installation on Both Sides)
4xØ3.5 For installing Adapter Plate

Reference: 100, 100, Ø4 H7, N-Ø4.5 Through, Ø8 Counterbore Depth (4.5mm Machined from the top face), +0.05, 4

⚠ The motor bracket can be mounted on either the right side or the left side.

A25 Servo
□25

A38 Servo
□38

A40 Servo
□40

E40 Servo
□40

T28 Stepping
□28

T42 Stepping
□42

T56.4 Stepping
□56.4

T56.4 Stepping
□56.4

Accuracy Standards

Accuracy Standards	Standard Value
Positioning Repeatability (mm)	±0.05
Running Parallelism (mm)	±0.05

⚠ The standard values are measured after the rail is mounted. (It is not the value measured before the rails are fastened with screws.)

Part Number	Stroke (mm)	Motor Adapter Plate	L	A	Mass (kg)	Number of Holes (N)	Pitch Circle Dia. of Pulley (mm)	Travel per Pulley Rotation (mm)	Base Mounting
LST10	500	(Servo Motor) A25 A38 A40 E40	700	500	3.3	12	19.1	59.97	From the Top of Base Rail (Counterbored Hole)
	600	(Stepping Motor) T28 T42 T56.4 (No Adapter Plate) N	800	600	3.7	14			
	700		900	700	4.1	16			
	800		1000	800	4.5	18			
	900		1100	900	4.9	20			
	1000		1200	1000	5.3	22			

Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Type	Recommended Coupling
T28	□28	Oriental Motor	CSK22	2-phase	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			CSK52	5-phase	
			ASC3	α-Step	
T42	□42	Oriental Motor	PK24	2-phase	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			CSK24	5-phase	
			RK54	α-Step	
T56.4	□56.4	NEMA23	-	-	CPDW19 (P.1103)

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Wattage	Recommended Coupling
A25	□25	Yasukawa Electric Corporation	SGMMJ-A1	10W	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			SGMMJ-A2	20W	
			SGMMJ-A3	30W	
A38	□38	Mitsubishi Electric Corporation	HG-AK0136	10W	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			HG-AK0236	20W	
			HG-AK0336	30W	
A40	□40	Panasonic	MSMD5A	50W	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			MSME5A	50W	
			MSMD01	100W	
			MSME01	100W	
			SGMJV-A5	50W	
			SGMAH-A5	50W	
			SGMAS-A5	50W	
			HG-MR053	50W	
			HG-KR053	50W	
			HF-KP053	50W	
E40	□40	SIEMENS	1FK7011-5	50W	CPDW19 (P.1103)
			1FK7015-5	100W	
			1FK7015-5	100W	

⚠ NEMA standards is a set of standards stipulated by National Electrical Manufacturers Association of United States.
⚠ Not compatible with geared motors made by Oriental Motor.

Ordering Example
Part Number - Stroke - Motor Adapter Plate
LST10 - 500 - A25

⚠ Product numbers and specifications of motors are subject to change. Please check the manufacturers' information.
⚠ Applicable motors and couplings are not limited to the above listed products. Please confirm each mounting dimension.

Part Number	Unit Price						Motor Adapter Plate
	Stroke (mm)						
	500	600	700	800	900	1000	
LST10							No Adapter Plate Servo / Stepping

Alterations
Part Number - Stroke - Motor Adapter Plate - (Code)
LST10 - 500 - A25 - MP3

Photo Sensor Types - Set Part Specification

Code	Sensor Type	Sensor	Sensor Type/Qty.	Sensor Flag	Sensor Flag Mounting	Sensor Mounting	Sensor Bracket Mounting	Unit Price	Note
MP□	Photomicro Sensor	FPMY45	□pc(s).	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Hex Socket Head Cap Screw M3x6, 2 pcs.	Bracket Mounting Screw Hex Nut M3x6, 2 pcs.	1 pc. 2 pcs. 3 pcs.	Cable 1m

⚠ "□" specifies the sensor qty. (1~3). For 100 or less strokes, select 1 or 2.

Proximity Sensor Types - Set Part Specification

Code	Sensor Type	Sensor	Sensor Type/Qty.	Sensor Flag	Sensor Flag Mounting	Sensor Mounting	Sensor Bracket Mounting	Unit Price	Note
PR□	Proximity Sensor - Two-Wire Type	EX4-T12	□pc(s).	-	-	-	-	-	-
PRO□	Proximity Sensor - Three-Wire Type with N.O. Output	EMX4-T12	□pc(s).	-	-	-	-	-	-
PRC□	Proximity Sensor - Three-Wire Type with N.C. Output	EMX4-T12C	-	□pc(s).	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Pan Head Screw M3x10	Hex Nut 1 pc.	Cable 1m
PRW1	Proximity Sensor - Three-Wire, Combination Type	-	1 pc.	1 pc.	-	-	-	-	-
PRW2		-	1 pc.	2 pcs.	-	-	-	-	-
PRW3		-	2 pcs.	1 pc.	-	-	-	-	-

⚠ "□" specifies the sensor qty. (1~3). For 100 or less strokes, select 1 or 2.

Photo Sensor Installation Drawing

⚠ The sensor can also be installed on the opposite side.
⚠ The drawing only shows some example of sensor orientation. The sensor can also be installed in the opposite direction (i.e. with the cable wiring on the right).

Proximity Sensor Installation Drawing

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Motor Bracket Mounting Fixture dedicated for LST10 JIGLST10

Material: Aluminum Alloy, Clear Anodize

Part Number	Unit Price
JIGLST10	

* When a unit of Belt Driving Type is purchased for the first time, this product must be purchased also.

Ordering Example
Part Number - Stroke - Motor Adapter Plate - (Code)
JIGLST10 - 500 - A25 - MP3

Example Please use for centering of Motor Brackets.