

MISUMI C-VALUE Single Axis Actuators LS12 - Ball Screw



Similar Component Page P.459~P.462

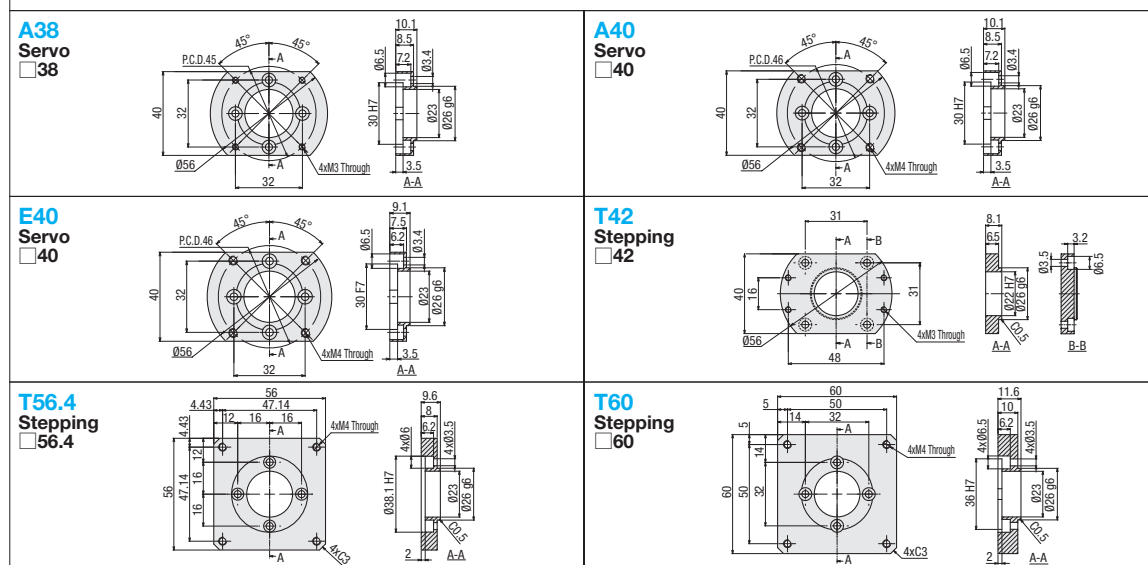
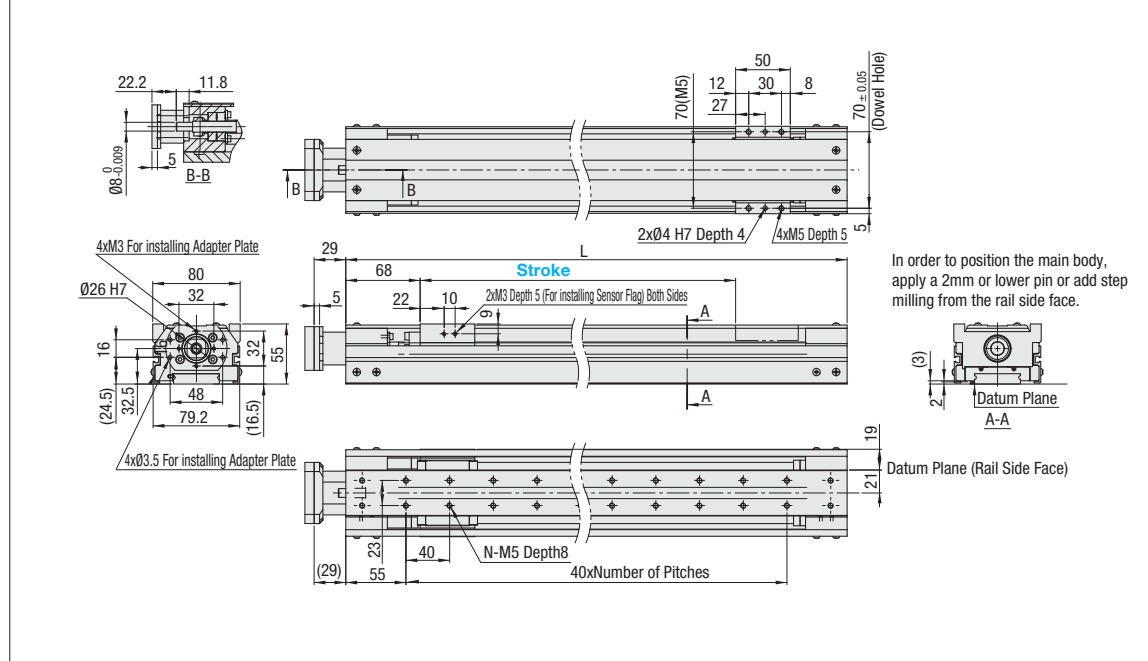
Compared to Similar Products 45% Off Max.

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: This Single Axis Actuator achieves medium accuracy transfer and positioning at economical prices.

A Accessory	M Material	S Surface Treatment	Quantity	Note
Adapter Plate	Aluminum Alloy	Black Anodize	1	-
Hex Socket Head Cap Screw M3x8	Steel	Black Oxide	4	Adapter Plate Non-flexible

No accessory is included with "No Adapter Plate" Type.
 Adapter Plate is not installed when shipped.



Part Number	Lead	Stroke (mm)	Motor Adapter Plate	L	Mass(kg)	Number of Holes (N)	Number of Pitches	Base Mounting
LS12	05 10	60	(Servo Motor)	230	2.30	8	3	From the Bottom of Base Rail (Tapped Hole)
		100	A38 A40 E40	270	2.49	10	4	
		140	(Stepping Motor)	310	2.68	12	5	
		220	T42 T56.4 T60	390	3.06	16	7	
		300	(No Adapter Plate)	470	3.44	20	9	
		380	N	550	3.82	24	11	
460		630	4.20	28	13			

Accuracy Standards	Standard Value
Positioning Repeatability (mm)	±0.02
Running Parallelism (mm)	±0.02
Starting Torque (N/cm)	7

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

Stepping Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Type	Recommended Coupling
T42	42	Oriental Motor	PK24	2-phase	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			RKS54/PK54	5-phase	
			AS46/ASC46/AR46	α-Step	
T60	60	Oriental Motor	RKS56/PK56	5-phase	
			AS6/ASC66/AR66	α-Step	
T56.4	56.4	NEMA standards	NEMA23	-	

Servo Motor Application Table

Part Number	Flange Size	Manufacturer	Product Number	Wattage	Recommended Coupling
A38	38	Panasonic	MSMD5A/MSME5A	50W	SCXW21 (P.1108) SCPW21 (P.1108) CPDW19 (P.1103)
			MSMD01/MSME01	100W	
A40	40	Yasukawa Electric Corporation	SGMJV-A5	50W	
			SGMAH-A5	100W	
		Mitsubishi Electric Corporation	HG-MR053	50W	
			HG-MR13	100W	
Keyence Corporation	40	Sanyo Denki Co., Ltd.	Q1AA04003D	30W	
			Q1AA04005D	50W	
		Omron Corporation	Q1AA04010D	100W	
			R88M-K05030	50W	
E40	40	SIEMENS	R88M-K10030	100W	
			MV-M05	50W	
			SV-M005	50W	
E40	40	SIEMENS	MV-M10	100W	
			SV-M010	100W	
E40	40	SIEMENS	1FK7011-5	50W	CPDW25 (P.1103)
			1FK7015-5	100W	CPDW25 (P.1103)

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
LS1205 - 300 - A38

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)							
	60	100	140	220	300	380	460	
LS1205								No Adapter Plate
LS1210								Servo / Stepping
								No Adapter Plate
								Servo / Stepping

Alterations Part Number - Stroke - Motor Adapter Plate - (Code)
LS1205 - 300 - A38 - MP3

Photo Sensor Types - Set Part Specification

Code	Sensor Type	Sensor	Sensor Type/Qty.		Sensor Flag Mounting		Sensor Mounting			Sensor Bracket Mounting			Unit Price		Note	
			Configurable to turn ON or OFF when Light is blocked.	Sensor Qty.	Sensor Flag	Sensor Flag Mounting Screw	Sensor Mounting Screw	Bracket	Bracket Mounting Screw	Bracket Mounting Nut	Sensor Qty.	Sensor Qty.				
MP	Photomicro Sensor	FPMY45	pc(s).	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Hex Socket Head Cap Screw M3x6, 2 pcs.	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Hex Nut 2 pcs.	1 pc.	2 pcs.	3 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 Mounting		Sensor Mounting			Unit Price			Note		
			ON when near	ON when away	Sensor Flag	Sensor Flag Mounting Screw	Sensor Mounting Screw	Sensor Mounting Nut	Sensor Qty.	Sensor Qty.	Sensor Qty.				
PR	Proximity Sensor - Two-Wire Type	EX4-T12	pc(s).	-	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Pan Head Screw M3x10	Hex Nut 1 pc.	1 pc.	2 pcs.	3 pcs.	-	-	-	Cable 1m
PRO	Proximity Sensor - Three-Wire Type with N.O. Output	EMX4-T12	pc(s).	-	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Pan Head Screw M3x10	Hex Nut 1 pc.	1 pc.	2 pcs.	3 pcs.	-	-	-	Cable 1m
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.	1 pc.	2 pcs.	3 pcs.	-	-	-	Cable 1m
PRW1	Proximity Sensor - Three-Wire, Combination Type		1 pc.	1 pc.	Dedicated	Hex Socket Head Cap Screw M3x6, 2 pcs.	Pan Head Screw M3x10	Hex Nut 1 pc.	1 pc.	2 pcs.	3 pcs.	-	-	-	Cable 1m
PRW2			1 pc.	2 pcs.					3 pcs.	-	-	-	Cable 1m		
PRW3			2 pcs.	1 pc.					3 pcs.	-	-	-	Cable 1m		

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

