

Linear Electric Actuator

Series AELS

Cat :

Rodless Type Ball Screw Actuator - 54mm

Features

- Compact Robust Design
- Highly flexible mounting
- More Precise & positioning
- Ease of positioning
- Ease of Maintenance



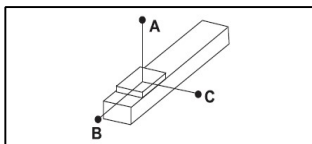
Technical Specifications

Repeatability (mm)		±0.01			
Motor Power (AC Servo in W)		100			
Ball Screw Lead (mm)		2	5	10	20
Maximum Speed (mm/s)*		100	250	500	1000
Maximum Payload	Horizontal (Kg)	30	30	15	10
	Vertical (Kg)	10	10	5	2.5
Rated Thrust (N)		854	341	170	85
Stroke / Pitch (mm)**		50-800mm / 50 mm Pitch			
Ball Screw Ø (mm)		C7 Ø 12			
Coupling (mm)		7x8			
Home Sensor	Outside	EE-SX674 (NPN)			

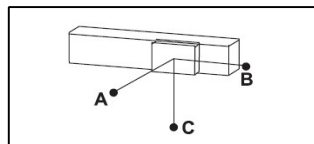
* Acceleration and deceleration value is set 0.2 second

** When the stroke is over 600mm the run-out of the ball screw will occur. We recommend to low down the working speed under circumstances. Please refer to P1.18 for details.

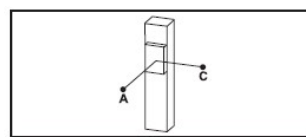
Allowable Moment



Unit:mm

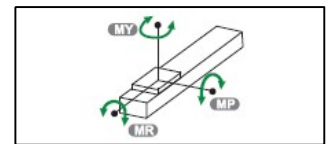


Unit:mm



Unit:mm

Static loading moment



Unit:Nm

Horizontal Installation		A	B	C
2 Lead	10Kg	900	100	135
	20Kg	700	45	60
	30Kg	550	25	35
5 Lead	10Kg	650	75	100
	20Kg	440	32	45
	30Kg	270	19	25
10 Lead	5Kg	600	145	185
	10Kg	370	70	85
	15Kg	250	42	52
20 Lead	5Kg	320	120	130
	8Kg	220	70	80
	10Kg	175	55	60

Wall Installation		A	B	C
2 Lead	10Kg	135	100	900
	20Kg	60	45	700
	30Kg	37	27	550
5 Lead	10Kg	100	75	650
	20Kg	45	32	420
	30Kg	25	19	260
10 Lead	5Kg	180	145	600
	10Kg	85	68	370
	15Kg	52	42	250
20 Lead	5Kg	130	120	320
	8Kg	75	70	220
	10Kg	60	55	170

Vertical Installation		A	C
2 Lead	6Kg	180	180
	8Kg	135	135
	10Kg	110	110
5 Lead	6Kg	145	145
	8Kg	110	110
	10Kg	90	90
10 Lead	1Kg	800	800
	3Kg	260	260
	5Kg	155	155
20 Lead	1Kg	600	600
	2Kg	300	300
	2.5Kg	250	250

MY	103
MP	103
MR	144

Note:

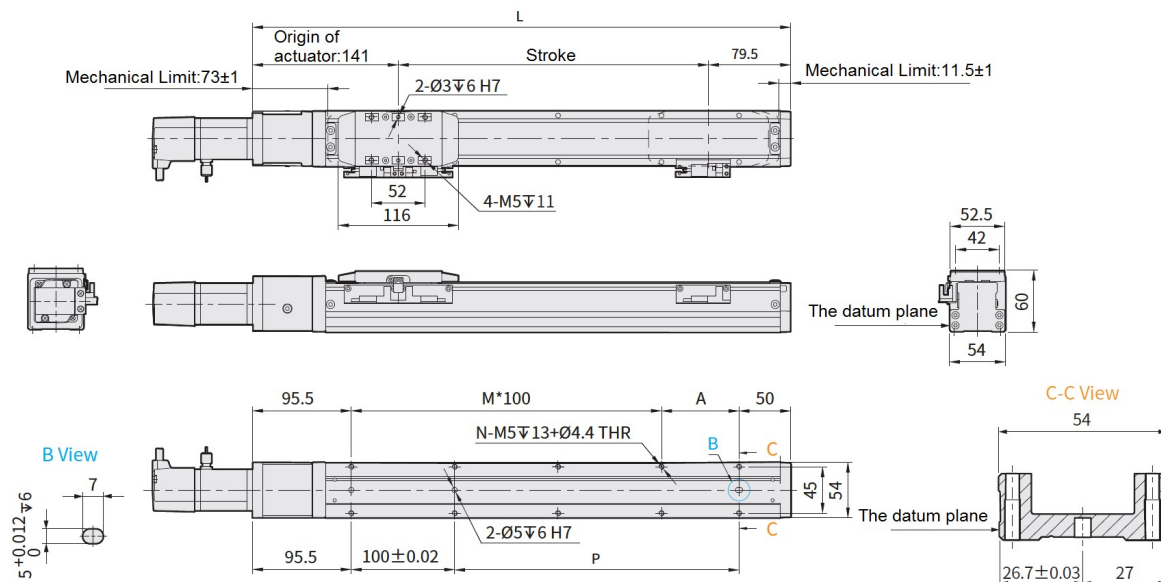
- The torque value in the chart indicates the center of gravity.
- Operation life is 10,000Km when the product is using under the specified conditions.
- Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage

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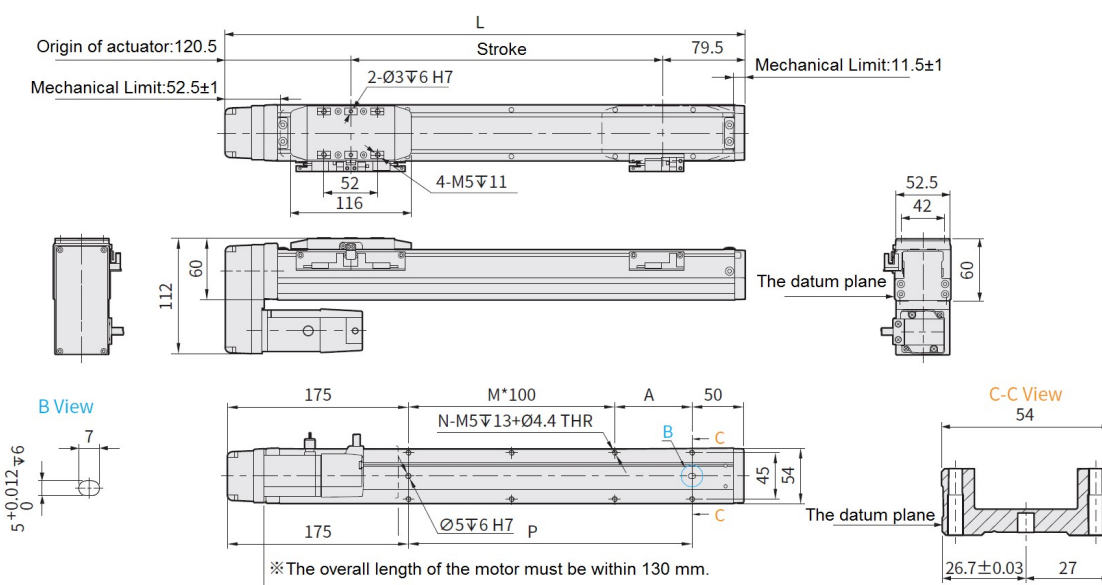
Cat :

Motor Direct - D



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight(Kg)	1.65	1.79	1.92	2.11	2.39	2.5	2.52	2.75	2.86	2.95	3.15	3.28	3.44	3.58	3.71	4.09

Motor Bottom Side - B



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight(Kg)	1.68	1.8	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.6	3.74	4.12

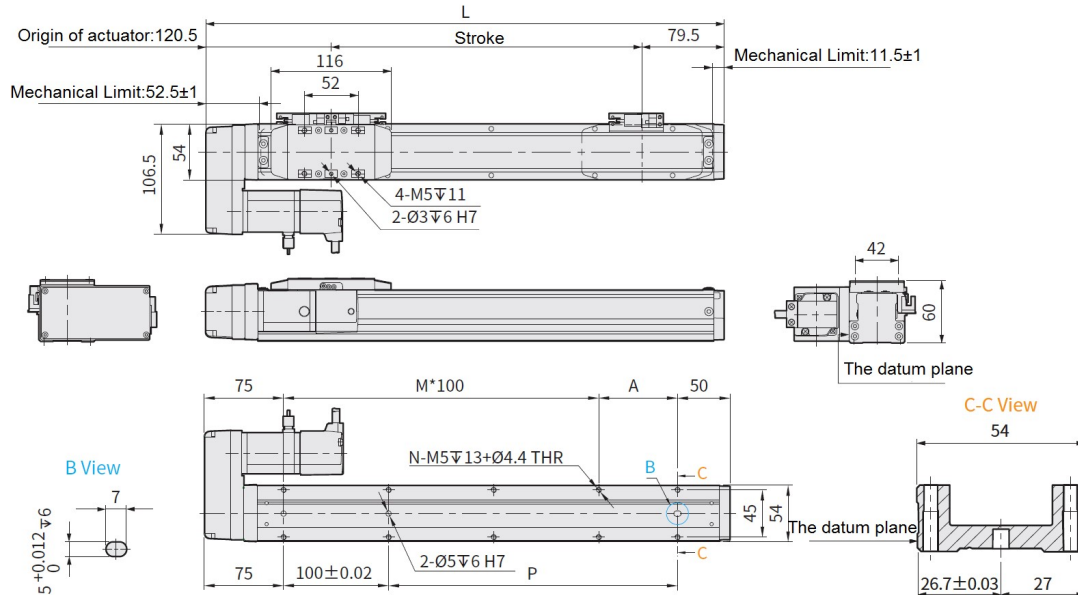
(Note : When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pin hole. Please contact us if you need more information.)

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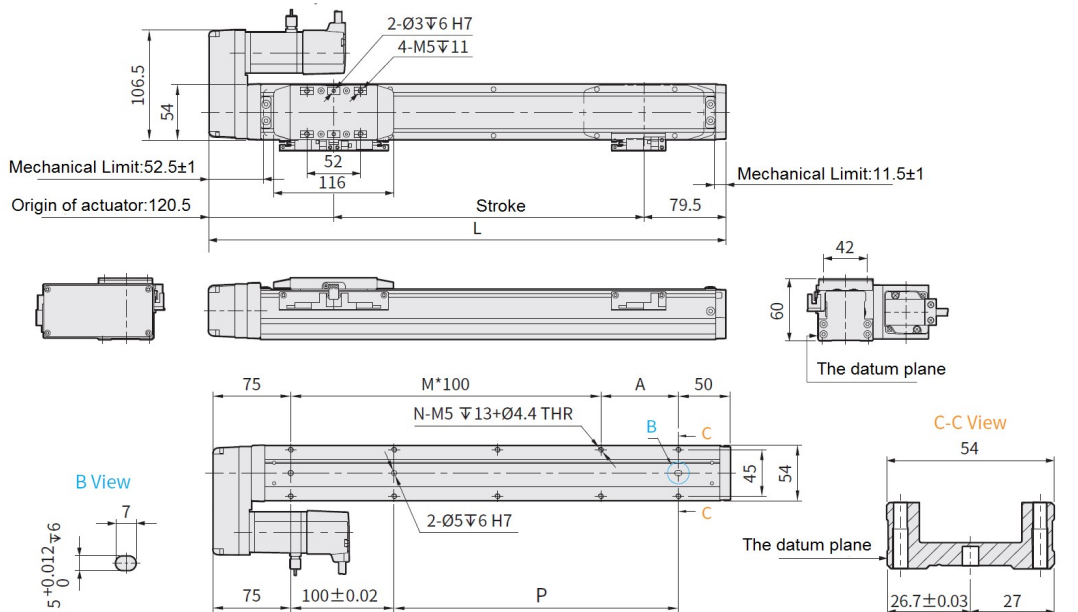
Cat :

Motor Left Side - L



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight(Kg)	1.68	1.8	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.6	3.74	4.12

Motor Right Side - R



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight(Kg)	1.68	1.8	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.6	3.74	4.12

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How to order

AELS054	●	●	●	●	●
	Lead	Stroke	Motor Position	Motor Specification	Motor Power
	02 2mm	0050-0800mm	D Direct	AC Servo	AC Servo
	05 5mm		L Left Side	D Delta	B 100W
	10 10mm		R Right Side	Y Yaskawa	
	20 20mm		B Bottom Side	M Mitsubishi	
				P Panasonic	
				V INVT	
				T Others	
	●	●	●	●	●
	Brake	Gear Specification	Motor & Encoder Cable	I/O Cable	Customization Order no
	Nil Without Brake	Nil Without Gear Box	1 1m	N Without Cable	X Special Requirements
	B With Brake		3 3m	1 1m	
			5 5m	A 1.5m	
			T 10m	2 2m	

Example :

Order no. for Rodless type ball screw electric actuator 54mm size, 2mm Lead, 50mm stroke with delta 100W AC servo motor mounted at the motor Direct, With 3m Motor & Encoder cable and 1.5m I/O cable.
AELS054020050D-DB-3A