

Linear Electric Actuator

Series AELS

Cat :

Rodless Type Ball Screw Actuator - 82mm

Features

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



Technical Specifications

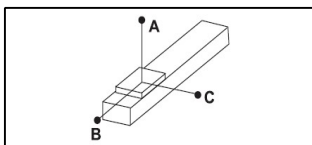
Repeatability (mm)		±0.01					
Motor Power (AC Servo in W)		200	400	200	400	200	400
Ball Screw Lead (mm)		5		10		20	
Maximum Speed (mm/s)*		250		500		1000	
Maximum Payload	Horizontal (Kg)	50		30		18	
	Vertical (Kg)	15		8		3	
Rated Thrust (N)		683	1388	341	694	174	347
Stroke / Pitch (mm)**		50-1100mm / 50 mm Pitch					
Ball Screw Ø (mm)		C7 Ø 16					
Coupling (mm)		10x14					
Home Sensor	Outside	EE-SX674 (NPN)					

* Acceleration and deceleration value is set 0.2 second

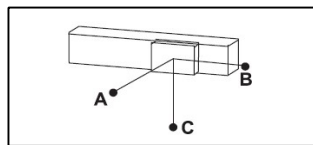
** When the stroke is over 750mm the run-out of the ball screw will occur. We recommend to low down the working speed under circumstances. Please refer to P1.18 for details.

Allowable Moment

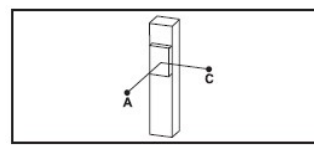
Static loading moment



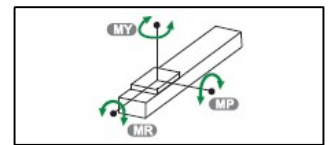
Unit:mm



Unit:mm



Unit:mm



Unit:Nm

Horizontal Installation		A	B	C
5 Lead	20Kg	1560	153	237
	35Kg	890	81	126
	50Kg	550	53	82
10 Lead	10Kg	1730	286	412
	20Kg	839	136	196
	30Kg	541	86	124
20 Lead	6Kg	1213	403	493
	9Kg	800	264	323
	18Kg	592	194	238

Wall Installation		A	B	C
5 Lead	20Kg	214	153	1435
	35Kg	113	81	845
	50Kg	74	53	506
	10Kg	370	286	1400
10 Lead	20Kg	176	136	800
	30Kg	112	86	495
	6Kg	444	403	760
20 Lead	9Kg	292	264	277
	18Kg	214	194	544

Vertical Installation		A	C
5 Lead	10Kg	331	331
	15Kg	220	220
	-	-	-
10 Lead	5Kg	589	589
	8Kg	368	368
	-	-	-
20 Lead	3Kg	935	935
	-	-	-
	-	-	-

MY	318
MP	318
MR	626

Note:

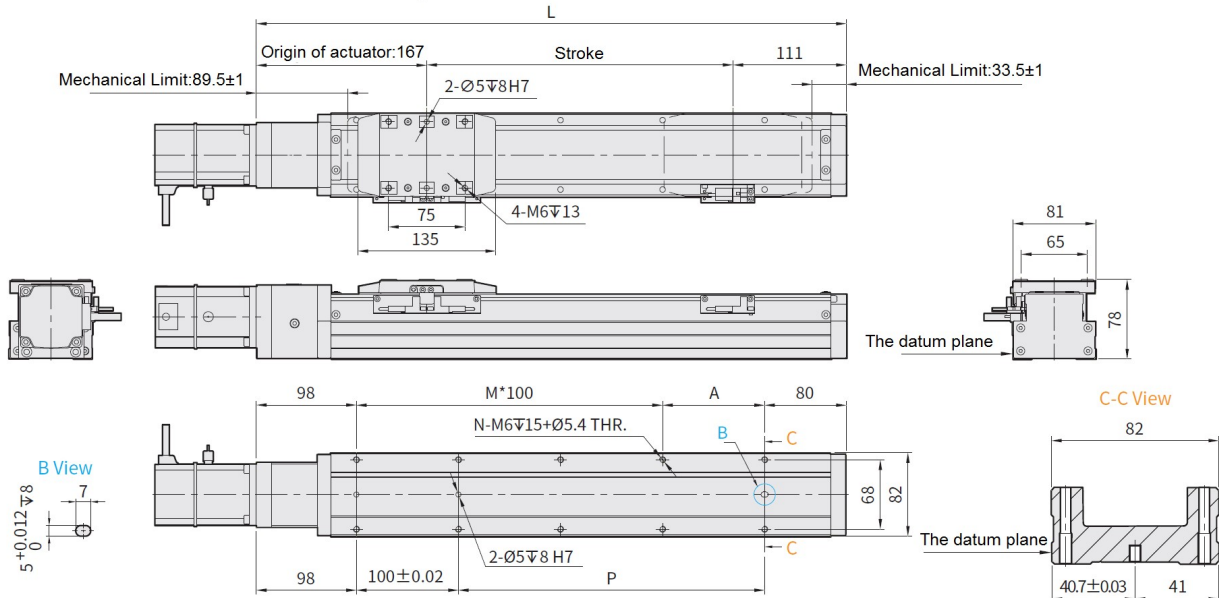
- The torque value in the chart indicates the center of gravity.
- Operation life is 10,000Km when the product is using under the specified conditions.
- Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage

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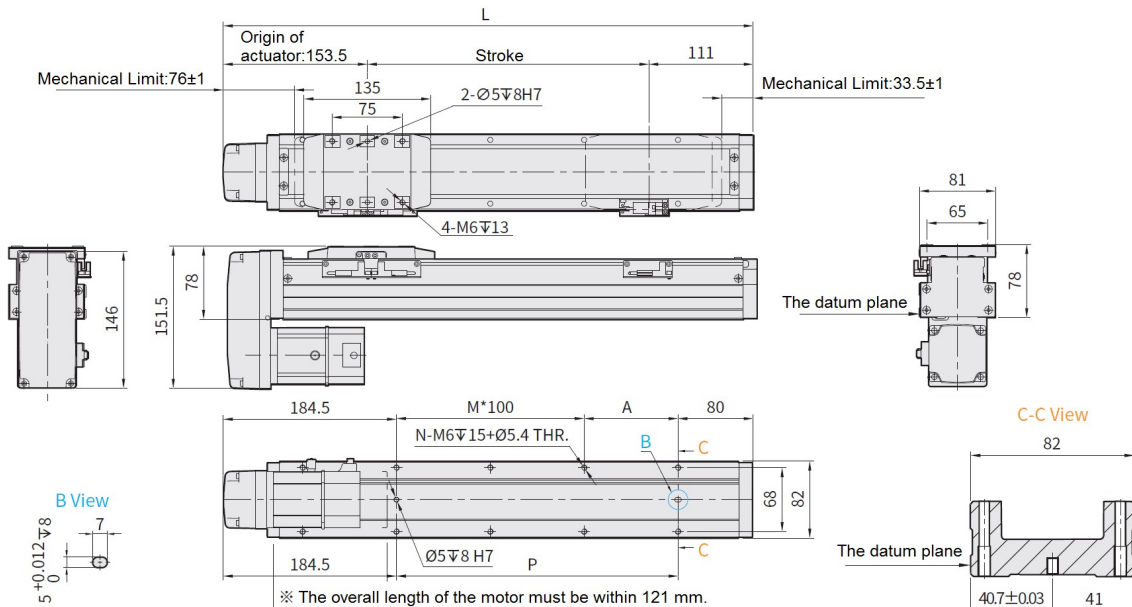
Cat :

Motor Direct - D



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight(Kg)	3.91	4.29	4.7	5	5.35	5.68	6	6.35	6.64	6.97	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.7	11.12

Motor Bottom Side -B



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight(Kg)	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9	9.41	9.66	10.08	10.32	10.74	11.16

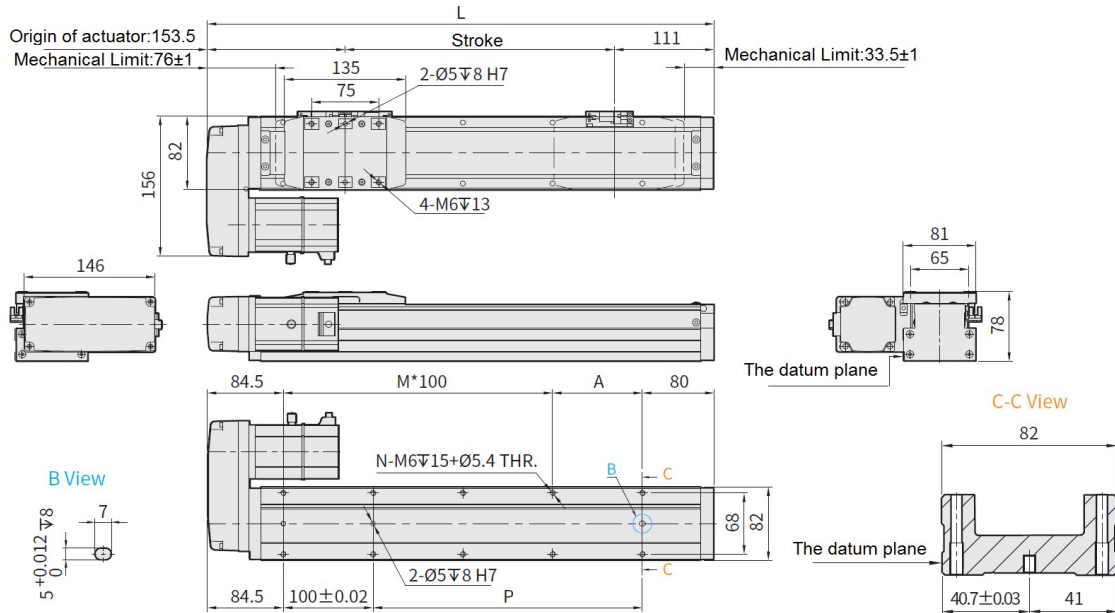
(Note : When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pin hole. Please contact us if you need more information.)

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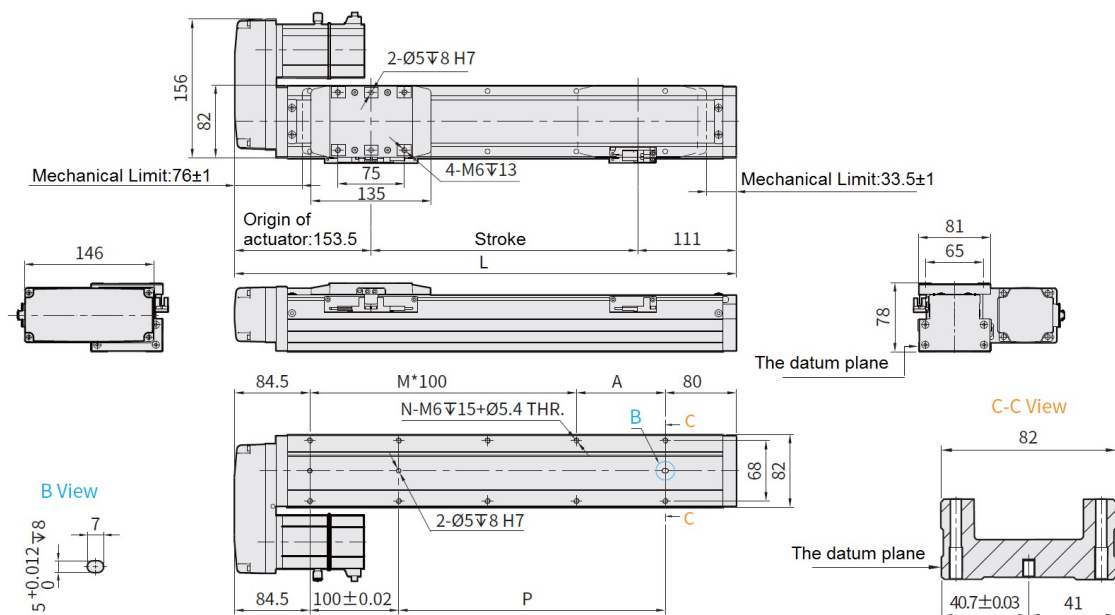
Cat :

Motor Left Side - L



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight(Kg)	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9	9.41	9.66	10.08	10.32	10.74	11.16

Motor Right Side - R













Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight(Kg)	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9	9.41	9.66	10.08	10.32	10.74	11.16

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How to order

AELS082											
Lead		Stroke		Motor Position		Motor Specification		Motor Power			
05	5mm	0050-1100mm		D	Direct	AC Servo		AC Servo			
10	10mm			L	Left Side	D	Delta	C	200W		
20	20mm			R	Right Side	Y	Yaskawa	D	400W		
				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 82mm size, 5mm Lead, 50mm stroke with delta 200W AC servo motor mounted at the motor Direct, With 3m Motor & Encoder cable and 1.5m I/O cable.
AELS082050050D-DC-3A