

Linear Electric Actuator

Series AERS

Cat :

Rod Type Ball Screw Actuator - 82mm

Features

- Compact robust design
- Highly flexible mounting
- More precise & positioning
- Ease of positioning
- Ease of maintenance



Technical Specifications

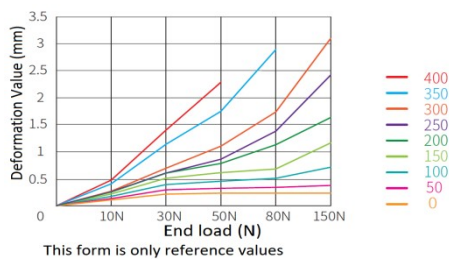
Repeatability (mm)	±0.01					
Motor Power (AC Servo in W)	200	400	200	400	200	400
Ball screw lead (mm)	5		10		20	
Maximum speed (mm/s)*	250		500		1000	
Maximum payload	Horizontal (Kg)**		30		18	
	Vertical (Kg)		8		3	
Rated thrust (N)	683	1388	341	694	174	347
Stroke / pitch (mm) @	50-800mm / 50 mm Pitch					
Ball screw ø (mm)	C7 Ø 16					
Coupling (mm)	10x14					
Home sensor	Outside		CS-6T (NPN)			

*Acceleration and deceleration value is set 0.2sec.

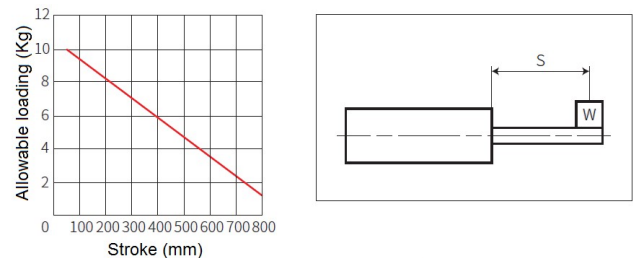
**If payload is near maximum, it requires to collocate externally with auxiliary guideway for bearing radial load.

@ When the stroke is over 750mm, the run-out of the ball screw will occur. We recommend to low down the working speed under this circumstances. Please refer to P2.18 for details.

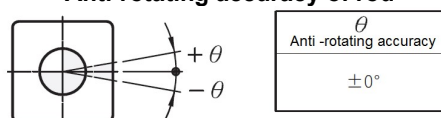
Shaft output deformation value



Allowable installation load

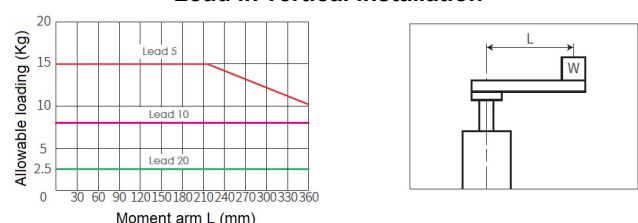


Anti-rotating accuracy of rod



Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This may cause deformation of the anti-rotating guide, abnormal responses of the auto switch, pay in the internal guide or an increase in the sliding resistance.

Load in vertical installation

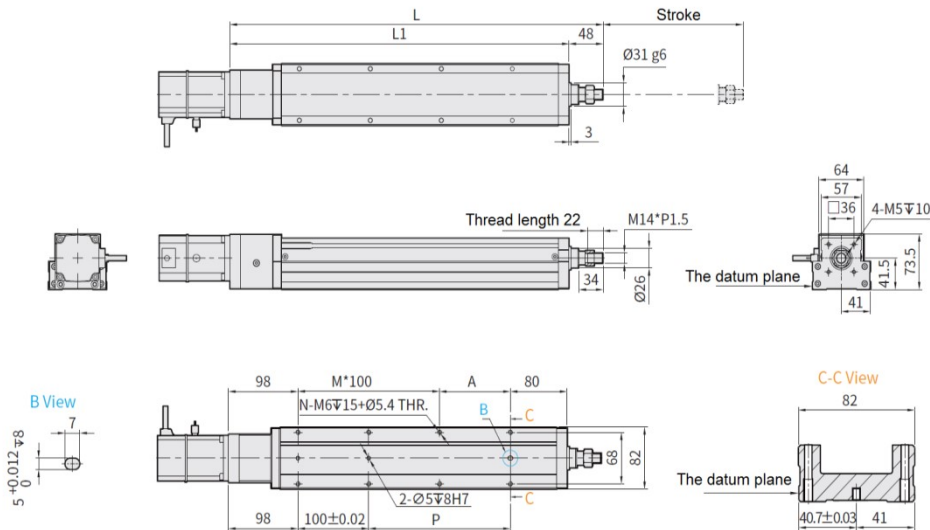


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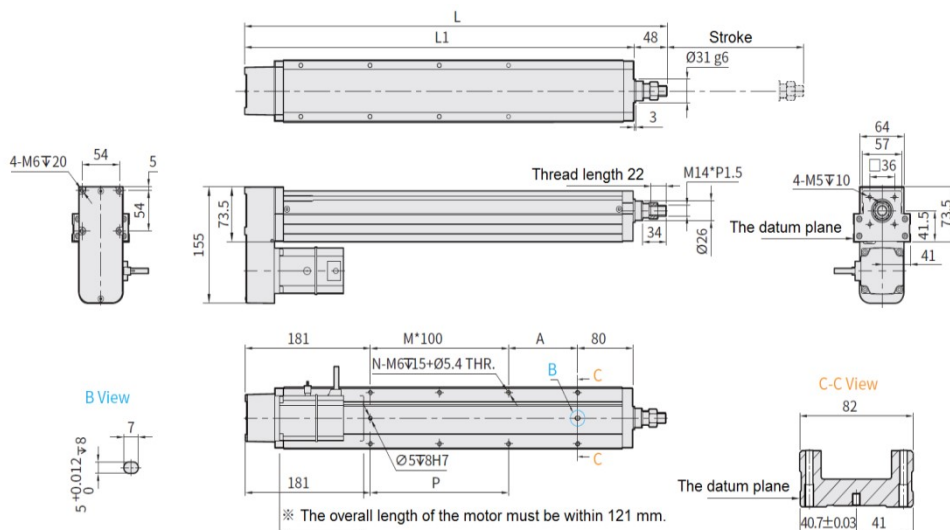
Cat :

Motor Direct - D



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126
L1	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight(Kg)	4.06	4.44	4.85	5.15	5.5	5.83	6.15	6.5	6.79	7.12	7.56	7.86	8.27	8.56	8.8	9.11

Motor Bottom Side - B



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061
A	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
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight(Kg)	4.16	4.54	4.95	5.3	5.6	5.93	6.25	6.6	6.89	7.22	7.66	7.96	8.37	8.66	8.9	9.21

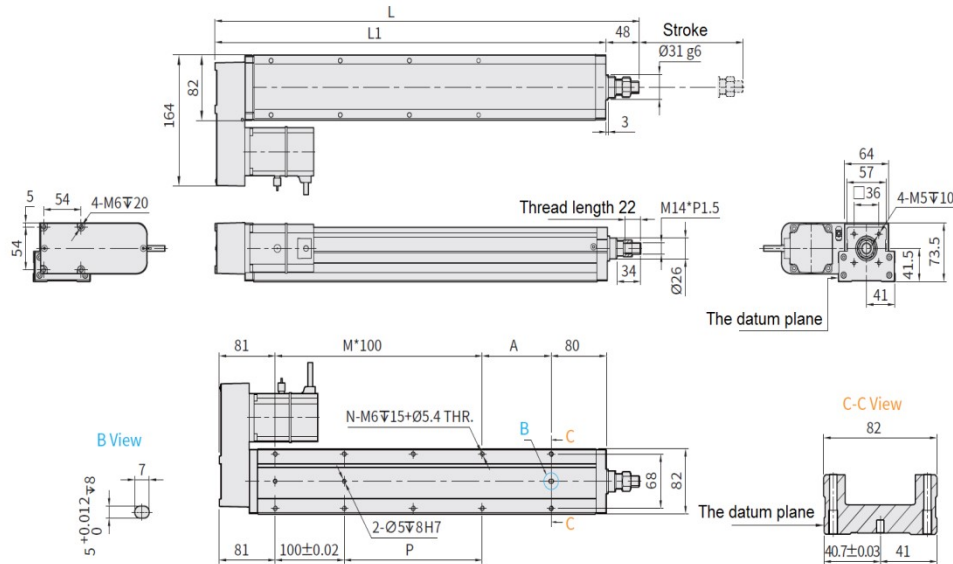
(Note: When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact us if you need more information.)

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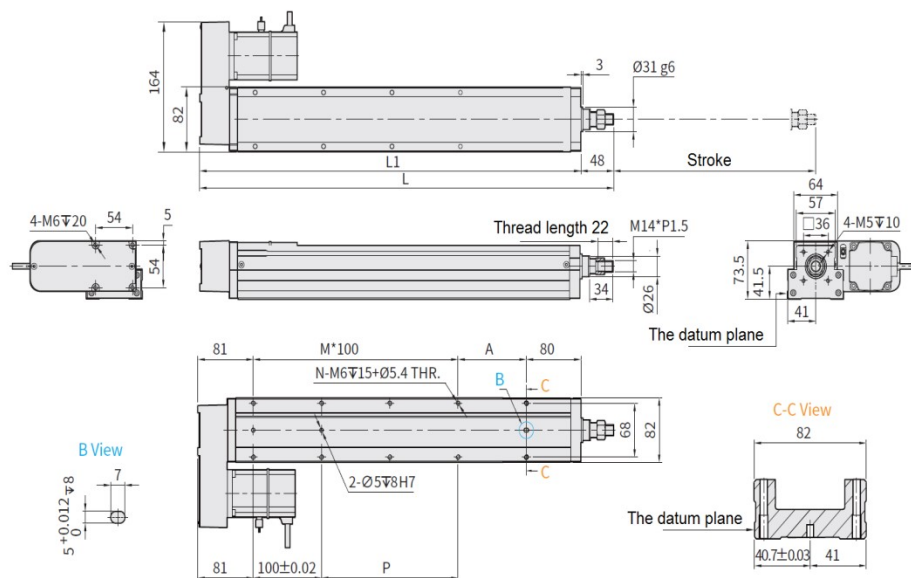
Cat :

Motor Left Side - L



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight(Kg)	4.16	4.54	4.96	5.3	5.6	5.93	6.25	6.6	6.89	7.22	7.66	7.96	8.37	8.66	8.9	9.21

Motor Right Side - R



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight(Kg)	4.16	4.54	4.95	5.3	5.6	5.93	6.25	6.6	6.89	7.22	7.66	7.96	8.37	8.66	8.9	9.21

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How to order

AERS082

Lead		Stroke		Motor Position		Motor Specification		Motor Power	
05	5mm	0050-800mm		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 Rod type ball screw electric actuator 82mm size, 5mm Lead, 200mm stroke with delta 200W servo motor mounted at the motor Direct, With 3m Motor & Encoder cable and 1.5m I/O cable.

AERS082050200D-DC-3A