

Linear Electric Actuator

Series AERS

Cat :

Rod Type Ball Screw Actuator - 120mm

Features

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



Technical Specifications

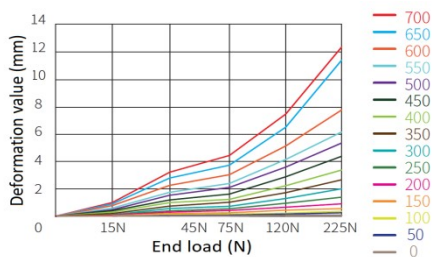
Repeatability (mm)	±0.01				
Motor Power (AC Servo in W)	400				
Ball screw lead (mm)	5	10	20	32	
Maximum speed (mm/s)*	250	500	1000	1600	
Maximum payload	Horizontal (Kg)**	110	88	40	30
	Vertical (Kg)	33	22	10	8
Rated thrust (N)	1388	694	347	218	
Stroke / pitch (mm) @	50-800mm / 50 mm Pitch				
Ball 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.

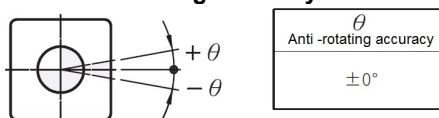
@ When the stroke is over 750mm, the run-out of the ball screw will occur. We recommend to low down the working speed under this circumstances. Please refer to P2.18 for details.

Shaft output deformation value



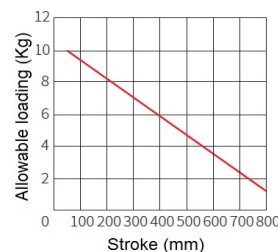
This form is only reference values

Anti-rotating accuracy of rod

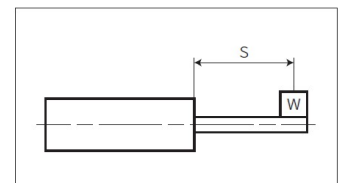


Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This may cause deformation of the anti-rotating guide, abnormal responses of the auto switch, pay in the internal guide or an increase in the sliding resistance.

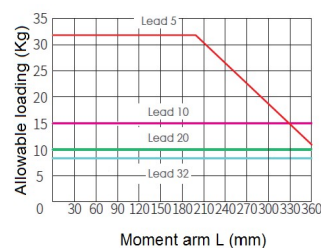
Allowable installation load



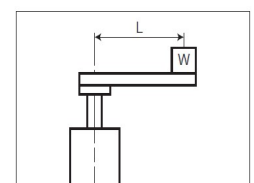
No external auxiliary mechanism, extension distance of load = 0.



Load in vertical installation



Calculate conditions: 3000 rpm/min, acceleration and deceleration value is set 0.2 sec.

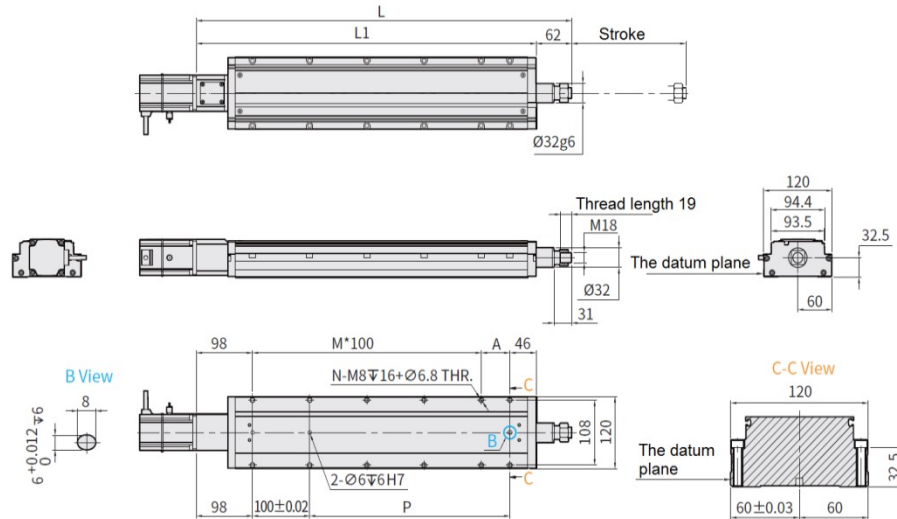


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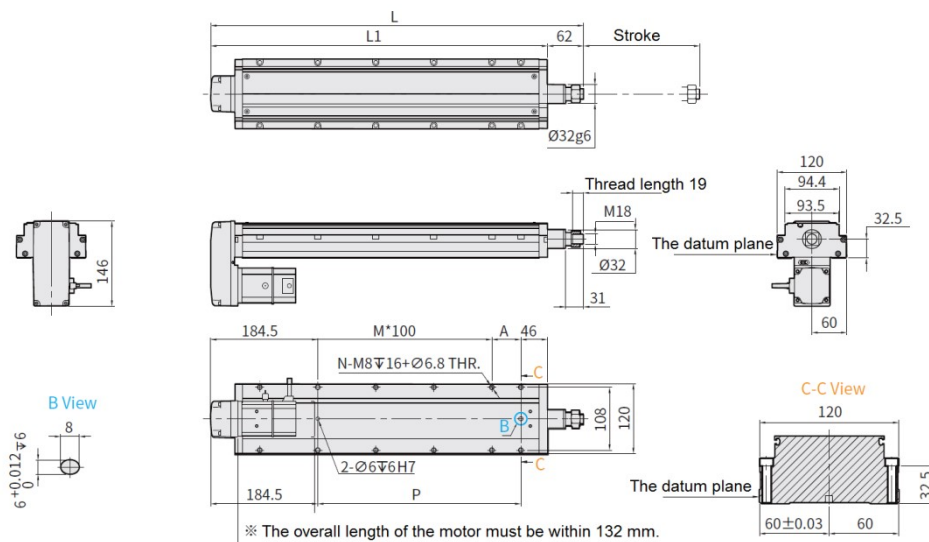
Cat :

Motor Direct - D



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156
L1	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Weight(Kg)	4.86	5.36	5.86	6.36	6.86	7.36	7.86	8.36	8.86	9.36	9.86	10.36	10.86	11.36	11.86	12.36

Motor Bottom Side - B



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	392.5	442.5	492.5	542.5	592.5	642.5	692.5	742.5	792.5	842.5	892.5	942.5	992.5	1042.5	1092.5	1142.5
L1	330.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Weight(Kg)	5.32	5.8	6.29	6.77	7.26	7.74	8.23	8.71	9.2	9.68	10.17	10.65	11.14	11.62	12.11	12.59

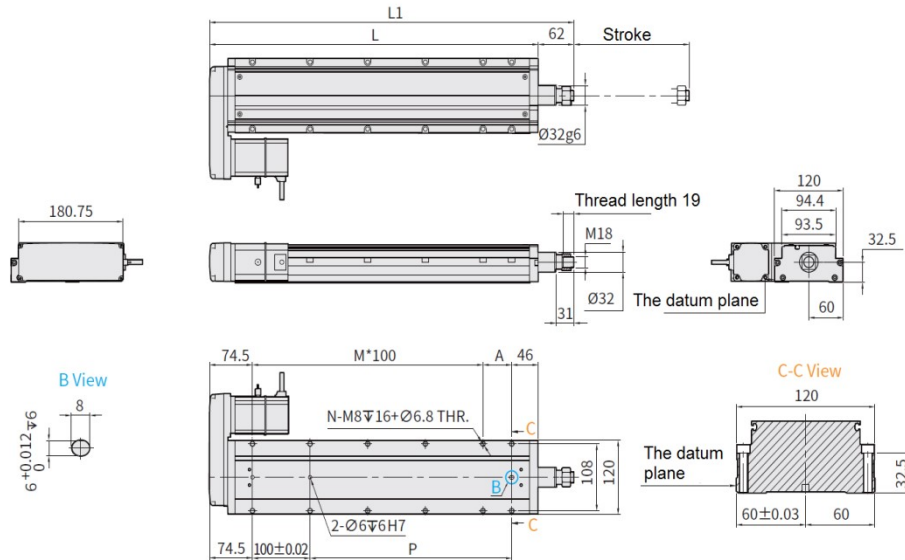
(Note: When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact us if you need more information.)

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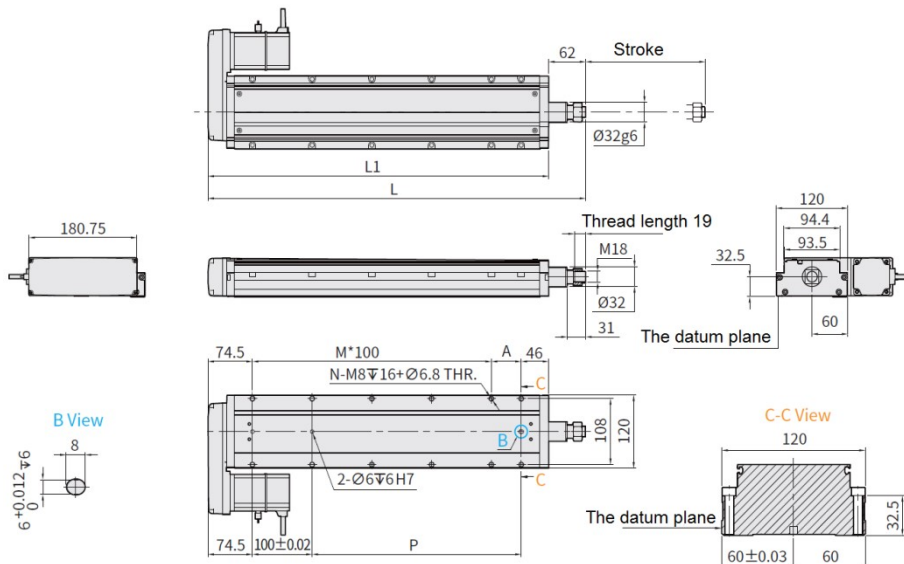
Cat :

Motor Left Side - L



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	382.5	432.5	482.5	532.5	582.5	632.5	682.5	732.5	782.5	832.5	882.5	932.5	982.5	1032.5	1082.5	1132.5
L1	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	1070.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Weight(Kg)	5.32	5.8	6.29	6.77	7.26	7.74	8.23	8.71	9.2	9.68	10.17	10.65	11.14	11.62	12.11	12.59

Motor Right Side - R



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	382.5	432.5	482.5	532.5	582.5	632.5	682.5	732.5	782.5	832.5	882.5	932.5	982.5	1032.5	1082.5	1132.5
L1	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	1070.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Weight(Kg)	5.32	5.8	6.29	6.77	7.26	7.74	8.23	8.71	9.2	9.68	10.17	10.65	11.14	11.62	12.11	12.59

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How to order

AERS120

Lead	
05	5mm
10	10mm
20	20mm
32	32mm

Stroke	
0050-800mm	

Motor Position	
D	Direct
L	Left Side
R	Right Side
B	Bottom Side

Motor Specification	
AC Servo	
D	Delta
Y	Yaskawa
M	Mitsubishi
P	Panasonic
V	INVT
T	Others

Motor Power	
AC Servo	
D	400W

Brake	
Nil	Without Brake
B	With Brake

Gear Specification	
Nil	Without Gear Box

Motor & Encoder Cable	
1	1m
3	3m
5	5m
T	10m

I/O Cable	
N	Without Cable
1	1m
A	1.5m
2	2m

Customization Order no	
X	Special Requirements

Example:

Order no. for Rod type ball screw electric actuator 120mm size, 5mm Lead, 500mm stroke with 400W delta servo motor mounted at the motor Inline, With 3m Motor & Encoder cable and 1.5m I/O cable.

AERS12050500D-DD-3A