

Linear Electric Actuator

Series AERS

Cat :

Rod Type Ball Screw Actuator - 54mm

Features

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



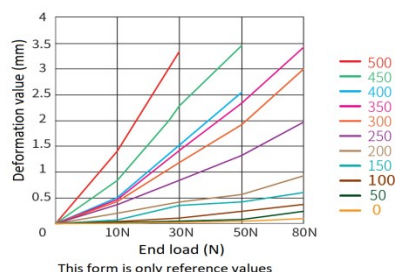
Technical Specifications

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)		50-600mm / 50 mm Pitch			
Ball screw ø (mm)		C7 Ø 12			
Coupling (mm)		7x8			
Home sensor	Outside	CS-6T (NPN)			

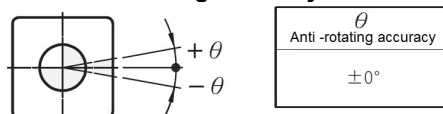
*Acceleration and deceleration value is set 0.2sec.

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

Shaft output deformation value

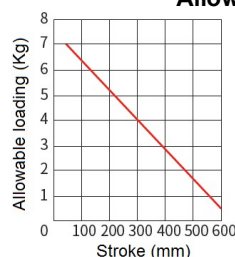


Anti-rotating accuracy of rod

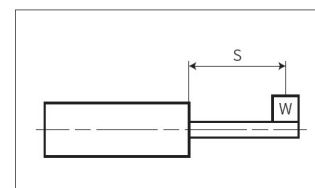


Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This may cause deformation of the anti-rotating guide, abnormal responses of the auto switch, pay in the internal guide or an increase in the sliding resistance.

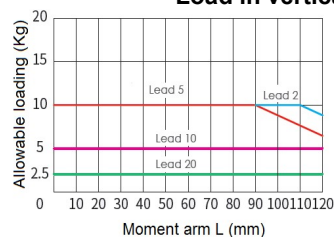
Allowable installation load



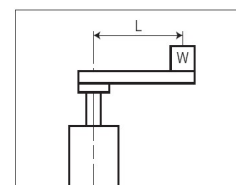
No external auxiliary mechanism, extension distance of load =0.



Load in vertical installation



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

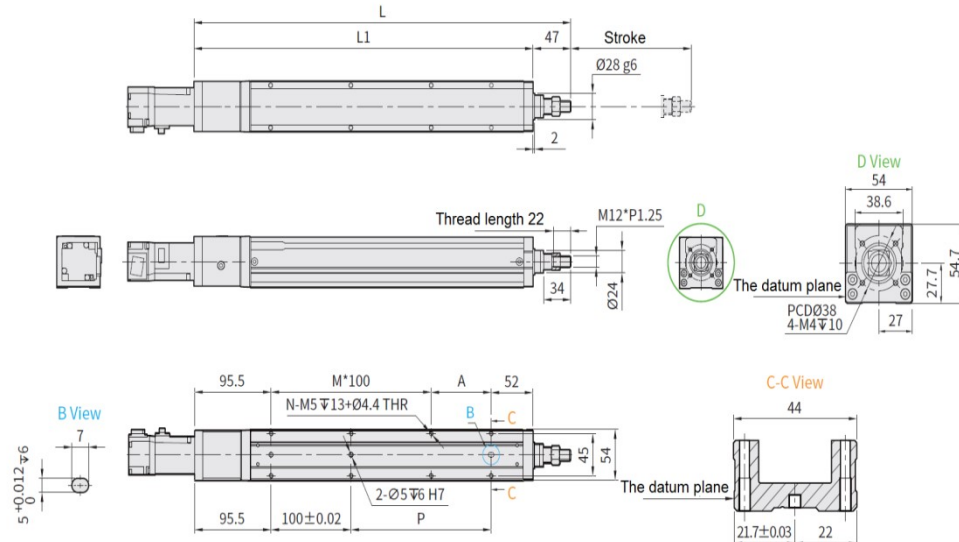


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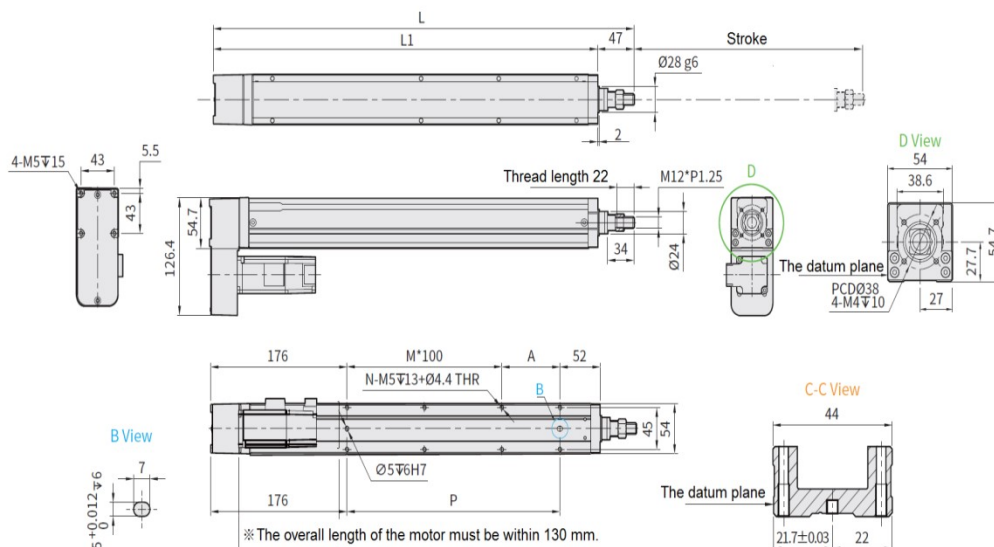
Cat :

Motor Direct - D



Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	319.5	369.5	419.5	469.5	519.5	569.5	619.5	669.5	719.5	769.5	819.5	869.5
L1	272.5	322.5	372.5	422.5	472.5	522.5	572.5	622.5	672.5	722.5	772.5	822.5
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16
P	25	75	125	175	225	275	325	375	425	475	525	575
Weight(Kg)	2.08	2.22	2.35	2.54	2.82	2.93	2.95	3.18	3.29	3.38	3.58	3.71

Motor Bottom Side - B



Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800	850
L1	253	303	353	403	453	503	553	603	653	703	753	803
A	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
N	4	4	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475	525	575
Weight(Kg)	2	2.12	2.35	2.46	2.74	2.85	2.9	3.1	3.21	3.3	3.5	3.63

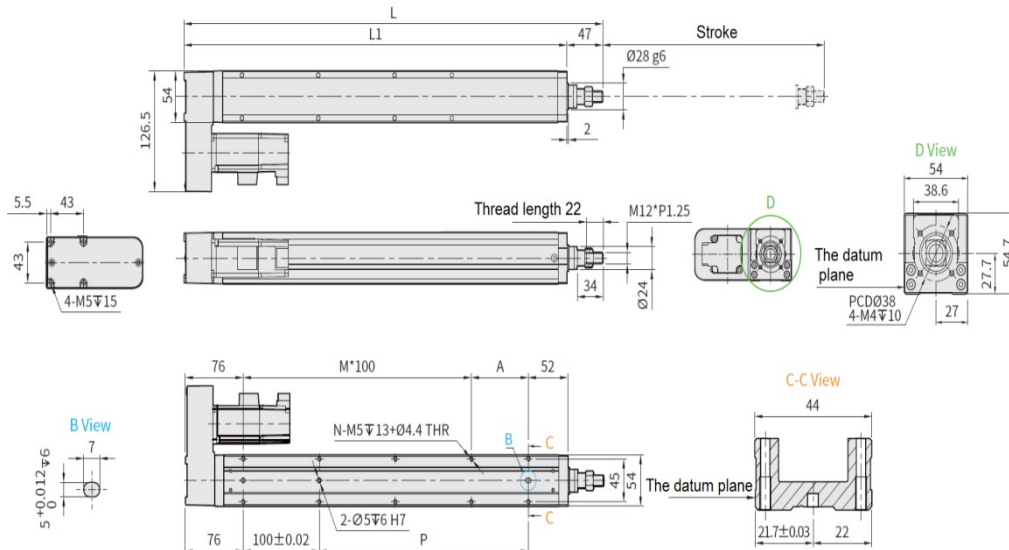
(Note: When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact us if you need more information.)

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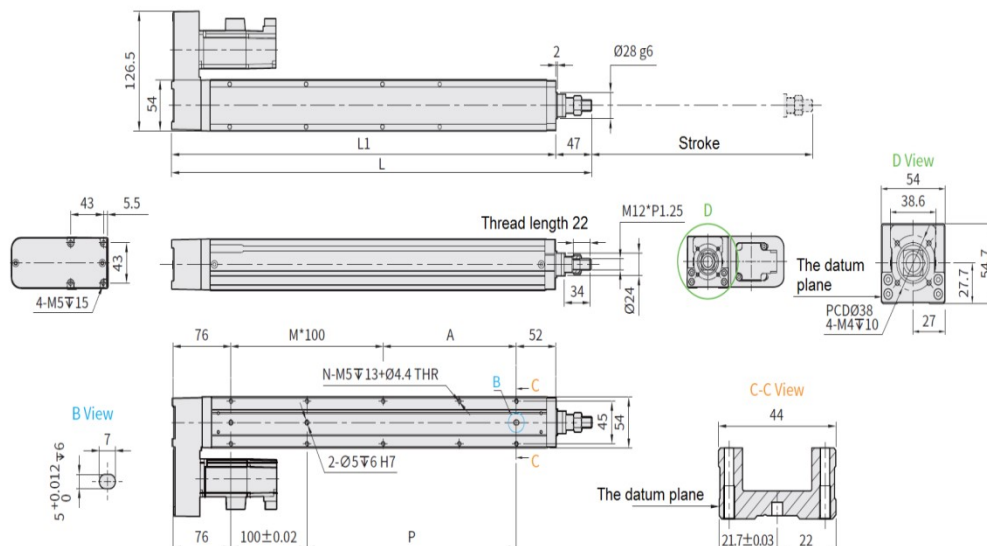
Cat :

Motor Left Side - L



Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800	850
L1	253	303	353	403	453	503	553	603	653	703	753	803
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16
P	25	75	125	175	225	275	325	375	425	475	525	575
Weight(Kg)	2	2.12	2.35	2.46	2.74	2.85	2.9	3.1	3.21	3.3	3.5	3.63

Motor Right Side - R



Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800	850
L1	253	303	353	403	453	503	553	603	653	703	753	803
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16
P	25	75	125	175	225	275	325	375	425	475	525	575
Weight(Kg)	2	2.12	2.35	2.46	2.74	2.85	2.9	3.1	3.21	3.3	3.5	3.63

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How to order

AERS054

Lead	
02	2mm
05	5mm
10	10mm
20	20mm

Stroke	
0050-0600mm	

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	
B	100W

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 54mm size, 5mm Lead, 150mm stroke with delta 100W servo motor mounted at the motor Direct, With 3m Motor & Encoder cable and 1.5m I/O cable.
AERS054050150D-DB-3A