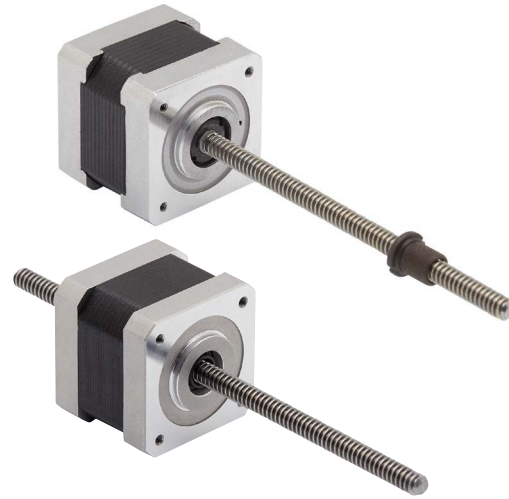


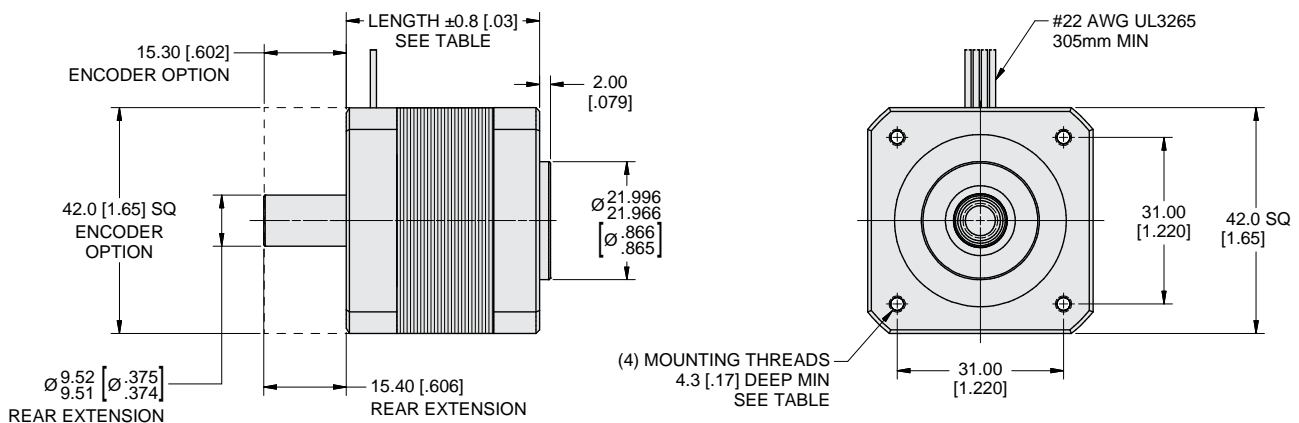
The **APES17** is a 42mm / NEMA 17 frame, hybrid stepper-based actuator. The APES17 is available in standard or custom designs as a linear actuator (non-captive), leadscrew motor (external linear), or guided linear actuator (captive). A variety of resolutions are offered, ranging from 0.006 to 0.050 mm per step, with an output force of up to 1001 N (225 lbs.) ElectroCraft's unique motor, shaft and insert designs offer industry-leading output force per frame size while providing superior precision, speed and efficiency.



APES17 STEPPER LINEAR ACTUATOR

Size	NEMA 17
Force	107 N (24 lbs.) to 1001 N (225 lbs.)

Model Number	Length	Mounting Threads
APES17(M)-45A	1.42 inch (36.1 mm)	4-40 UNC-2B (M3 x 0.5 - 6H)
APES17(M)-63A	1.62 inch (41.1 mm)	
APES17(M)-78A	1.93 inch (49.1 mm)	



APES17

ElectroCraft AxialPower™ Enhanced

STEPPER LINEAR ACTUATOR



APES17 Model Number Example

Model Number	Length (in)	Length (mm)	Weight (g)	Rotor Inertia (g-cm ²)
APES17(M)-45A	1.42	36.1	250	40.7
APES17(M)-63A	1.62	41.1	300	60.6
APES17(M)-78A	1.93	49.1	370	82.7

Thread Description	Lead (in)	Lead (mm)	Travel/Step (in)	Travel/Step (mm)	Max Force APES17-45 (lbs)	Max Force APES17-45 (N)	Max Force APES17-78 (lbs)	Max Force APES17-78 (N)
A 1/4-16 (15)	0.06250	1.5875	0.0003125	0.007938	117	520	186	827
B 1/4-16 (25)	0.12500	3.1750	0.0006250	0.015875	69	307	115	512
C 1/4-16 (45)	0.25000	6.3500	0.0012500	0.031750	38	169	79	351
M 6mm x 1.2mm (15)	0.04724	1.20000	0.00023622	0.006000	142	632	225	1001
N 6mm x 1.2mm (25)	0.09449	2.40000	0.00047244	0.012000	93	414	151	672
P 6mm x 2.5mm (45)	0.39370	10.0000	0.0019685	0.050000	24	107	50	222

APES 17 M - 78 A 20 - 0 M B 0 0 - X

Windings	Rated Voltage (VDC)	Rated Current (A)	Phase Resistance (Ohm)	Phase Inductance (mH)
45A10	4.51	1.00	4.51	7.30
45A15	2.93	1.50	1.95	3.41
45A20	2.22	2.00	1.11	1.90
63A10	5.26	1.00	5.26	10.30
63A15	3.39	1.50	2.26	4.46
63A20	2.62	2.00	1.31	2.50
78A10	6.37	1.00	6.37	15.8
78A15	4.19	1.50	2.79	7.00
78A20	3.22	2.00	1.61	4.00

Actuator Type	
0	Linear Actuator
1	Leadscrew Motor

Lead Termination	
0	Flying Leads
1	Leads w/Connector

Feedback	
X	No Encoder
H	400 Line Single Ended
K	1000 Line Single Ended

Leadscrew End Features	
0	No End Feature
1	6-32 UNC x 12.7mm
2	M2.5 x 0.45 x 12.7mm
3	Ø.098/Ø.097 x 12.7mm
4	#10-32 UNF x 12.7mm
5	M5 x 0.8 x 12.7mm
6	Ø.196/Ø.195 x 12.7mm

Note: 4 and 5 not available with leadscrew motor configuration

Screw Length	
X	No Leadscrew
A	76.2mm (3 inches)
B	152.4mm (6 inches)
C	304.8mm (12 inches)
D	457.2mm (18 inches)
E	609.6mm (24 inches)



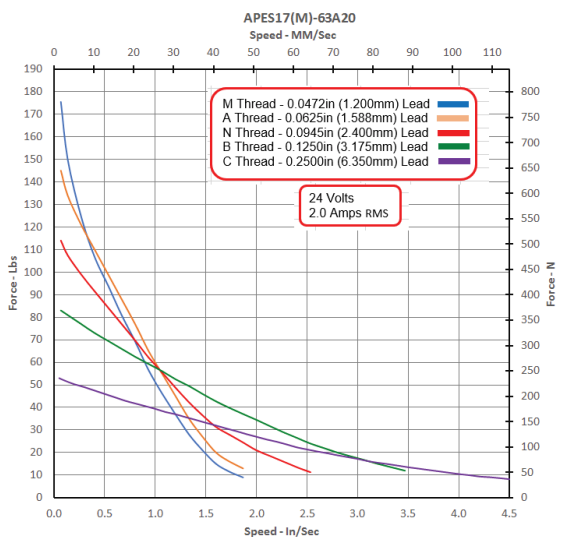
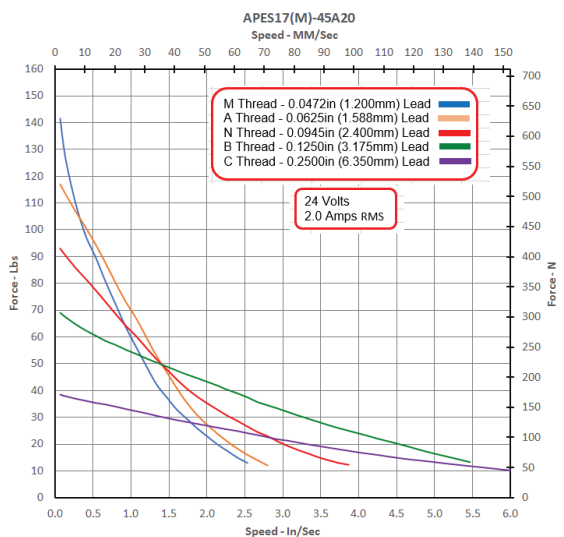
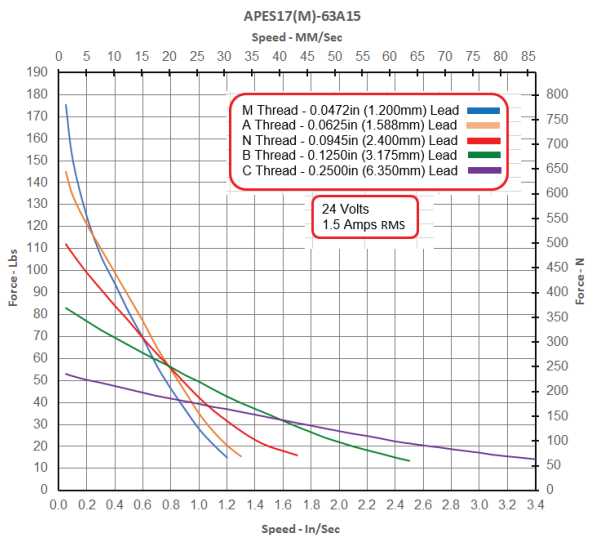
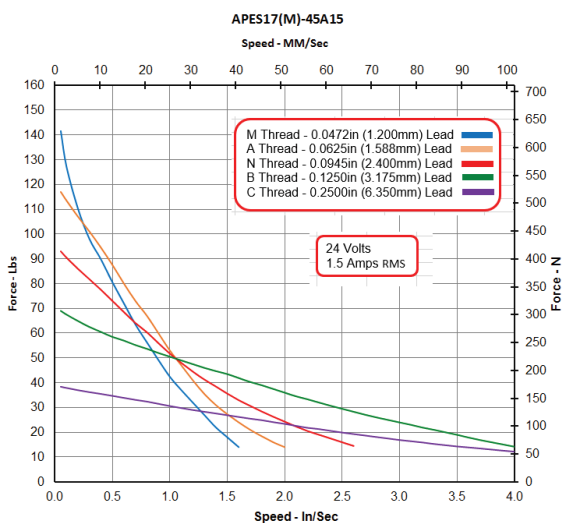
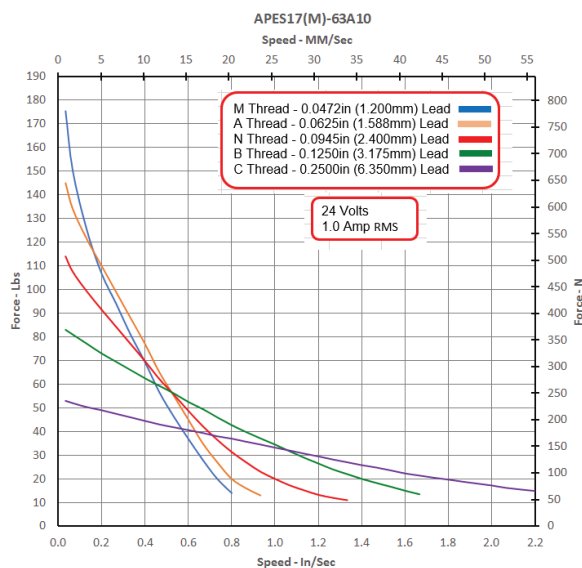
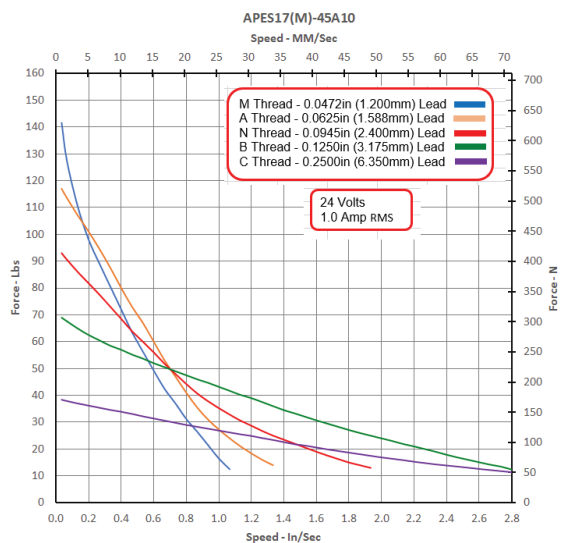
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APES17 Performance Curves



APES17 Performance Curves Cont.

