

Lead Screw Driven Stages-NEMA17

Continuous thrust of up to 60 lbf (266N)

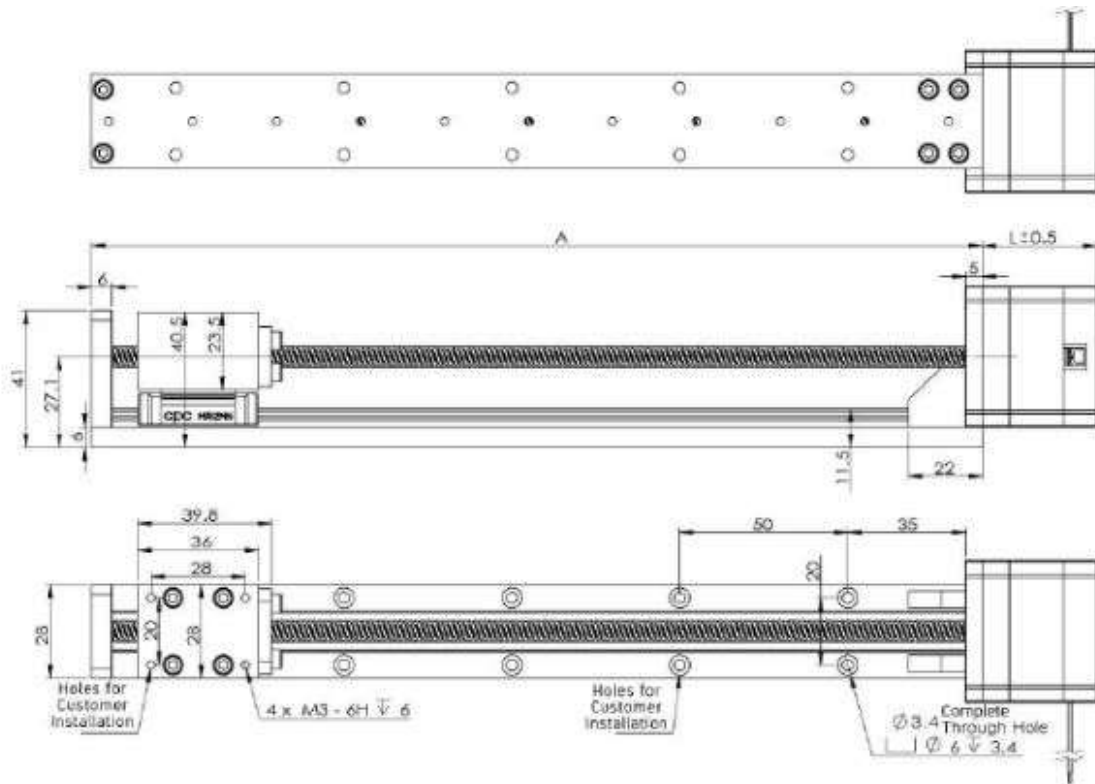


NEMA 17 Motor Characteristics

Motor	Voltage (V)	Current (A)	Resistance (Ω)	Inductance (mH)	Lead Wire No.	Motor Length (mm)
17-2105	7.2	0.5	14.4	19.8	4	34
17-2110	3.6	1.0	3.6	5.0	4	34
17-2115	2.4	1.5	1.6	2.2	4	34
17-2205	11.0	0.5	22.0	46.0	4	48
17-2212	4.5	1.2	3.8	8.0	4	48
17-2225	2.2	2.5	0.87	1.8	4	48

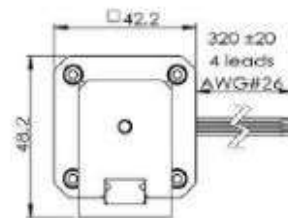
Available Lead Screws and Travel per Step

Screw Diameter (inch)	Screw Diameter (mm)	Lead (inch)	Lead (mm)	Lead Code	Travel Per Step (mm)
0.25	6.35	0.024	0.6096	AA	0.003
0.25	6.35	0.048	1.2192	B	0.006
0.25	6.35	0.05	1.27	D	0.0064
0.25	6.35	0.0625	1.5875	F	0.0079375
0.25	6.35	0.096	2.4384	J	0.012
0.25	6.35	0.1	2.54	K	0.0128
0.25	6.35	0.192	4.8768	Q	0.024
0.25	6.35	0.25	6.35	S	0.031
0.25	6.35	0.3333	8.4667	U	0.04233
0.25	6.35	0.384	9.7536	W	0.048
0.25	6.35	0.5	12.7	Y	0.0635

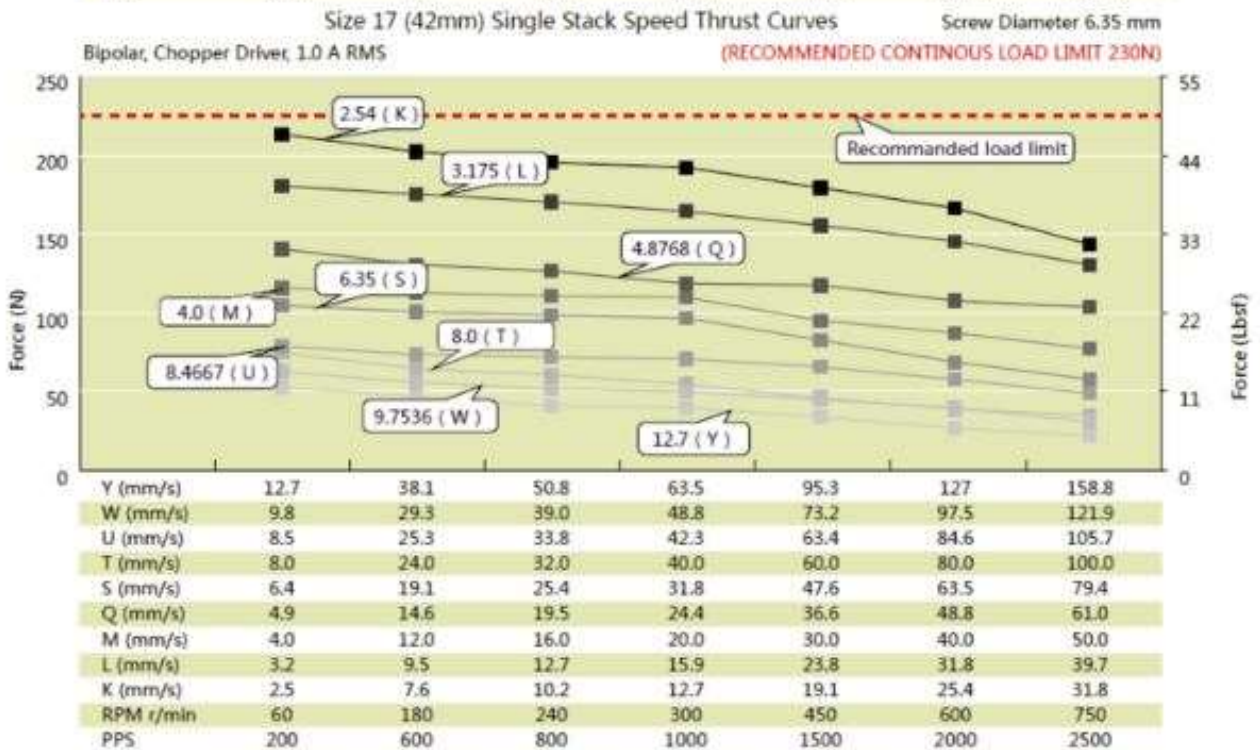
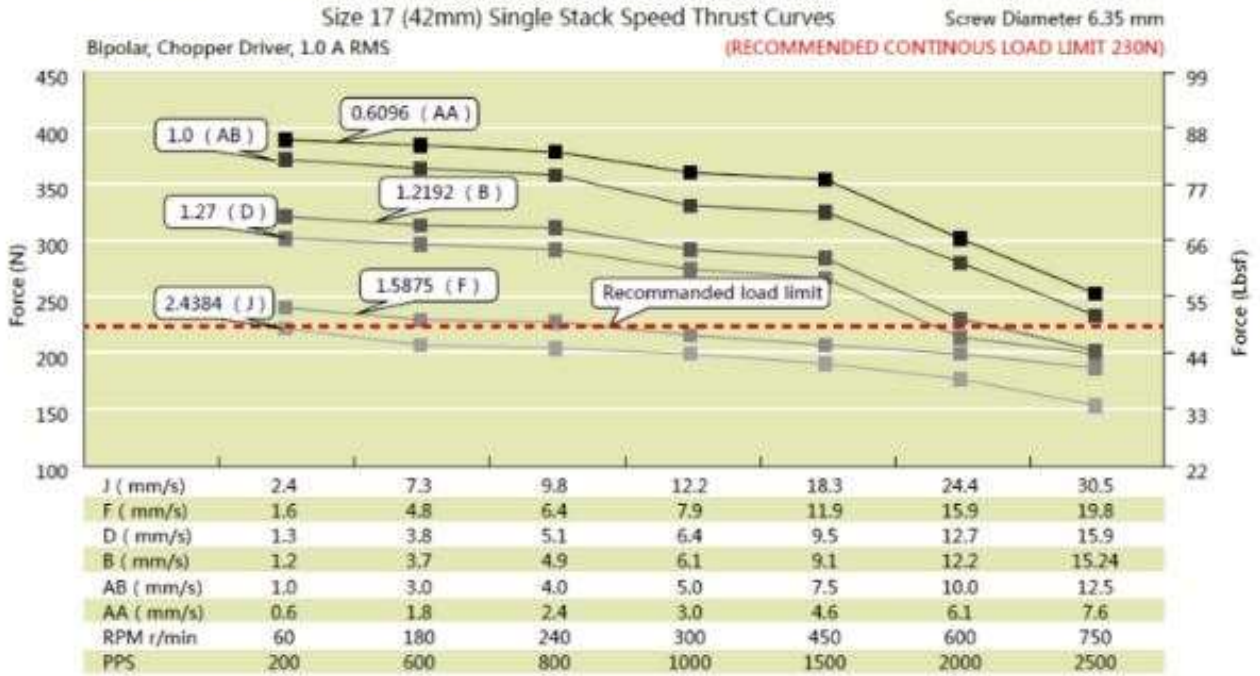


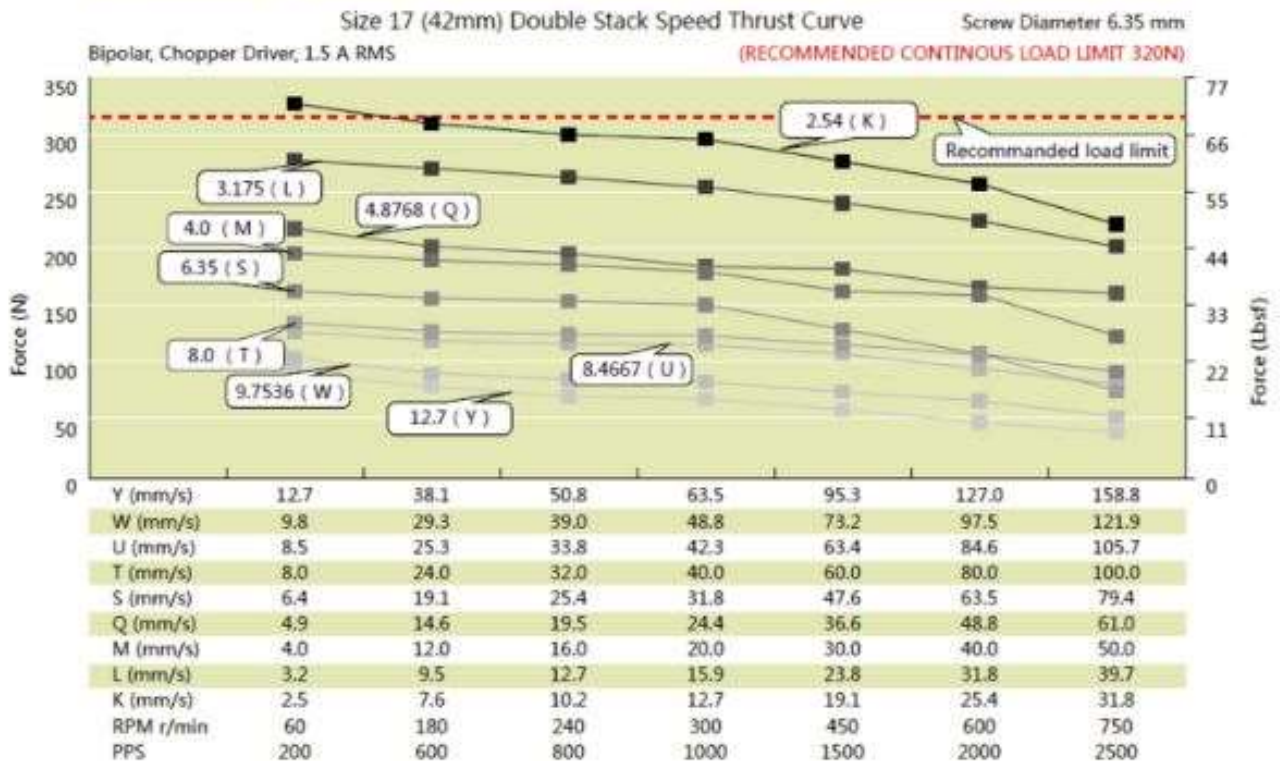
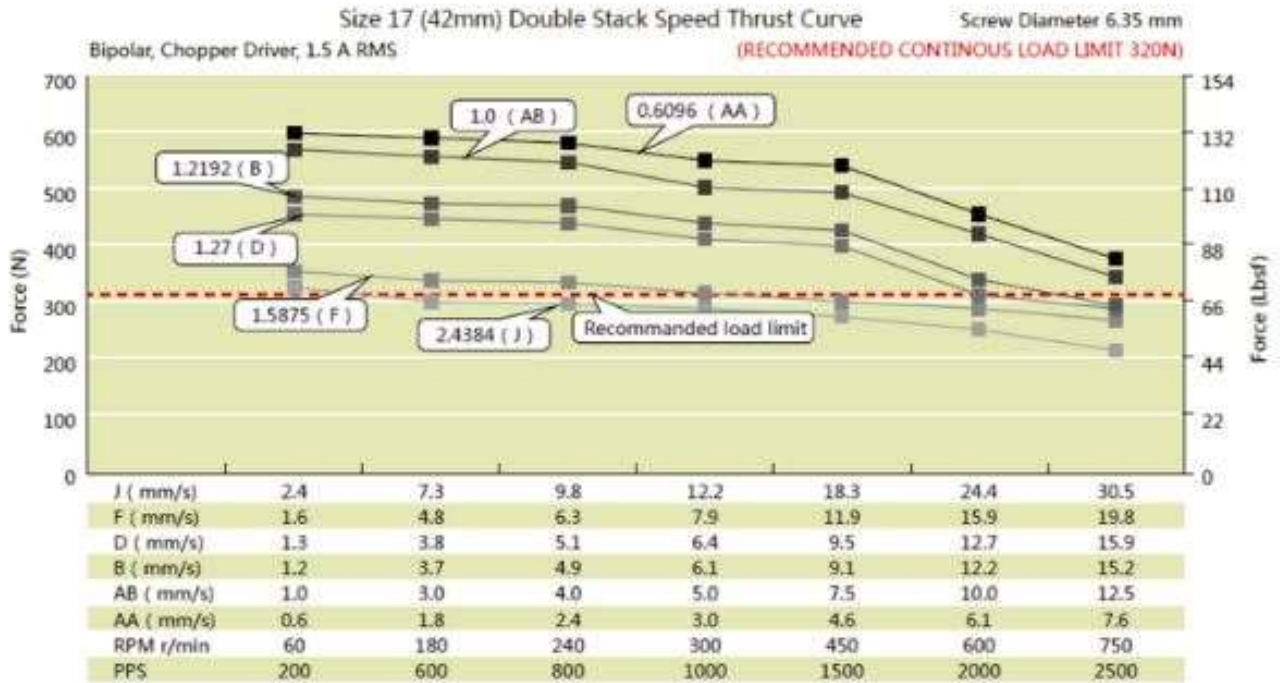
Optional Screw and Step Motor Size

Size A	Stroke B	Motor Length L (mm)	
115	50	34.1	48.1
165	100	34.1	48.1
215	150	34.1	48.1
265	200	34.1	48.1
315	250	34.1	48.1
365	300	34.1	48.1
415	350	34.1	48.1
465	400	34.1	48.1
515	450	34.1	48.1
565	500	34.1	48.1

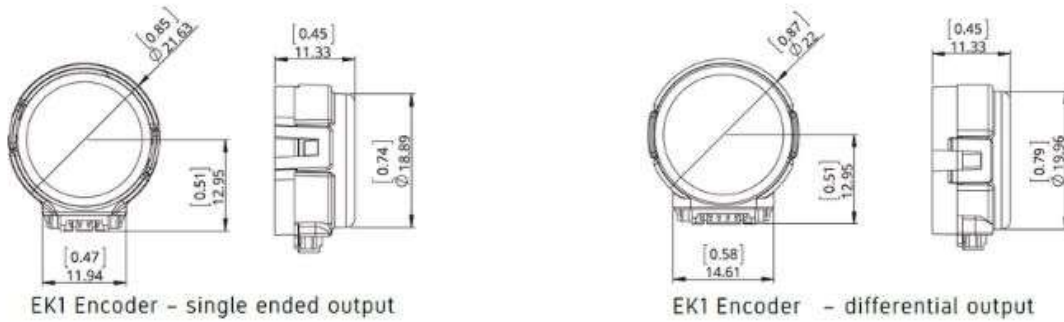


Size 17 (42mm) Performance Curves





NEMA 17 ENCODER OPTIONS



- EK1 Encoder (Used for Size 8, 11, 14, 17 Motor)*No Index

Resolution(CPR)	100	108	120	125	128	200	250	256	300	360	400	500	1000	512	720	800
Single ended output	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Differential output	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P

2 Phase, 4 Wires - Wiring Diagram

