

Lead Screw Driven Stages-NEMA14

Continuous thrust to 52 lbf (230N)

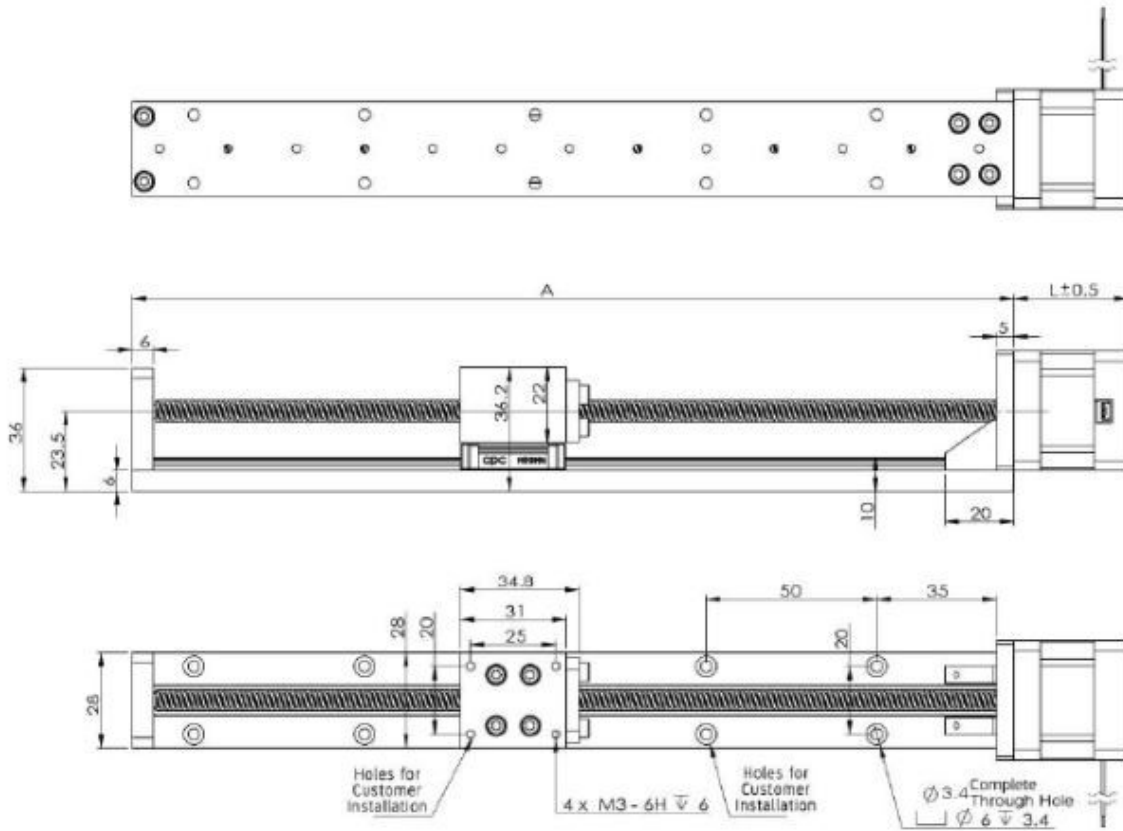


NEMA 14 Motor Characteristics

Motor	Voltage (V)	Current (A)	Resistance (Ω)	Inductance (mH)	Lead Wire No.	Motor Length (mm)
14-2105	6.6	0.5	13.2	14.0	4	34
14-2110	3.3	1.0	3.3	3.6	4	34
14-2115	2.2	1.5	1.5	1.6	4	34
14-2205	12.0	0.5	24.0	29.0	4	46
14-2210	6.0	1.0	6.0	7.2	4	46
14-2215	4.0	1.5	2.7	1.8	4	46

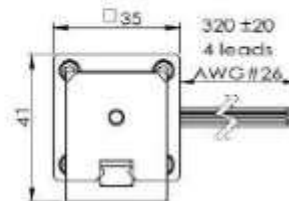
Available Lead Screws and Travel per Step

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	0.33	8.382	U	0.041
0.25	6.35	0.384	9.7536	W	0.048
0.25	6.35	0.5	12.7	Y	0.0635

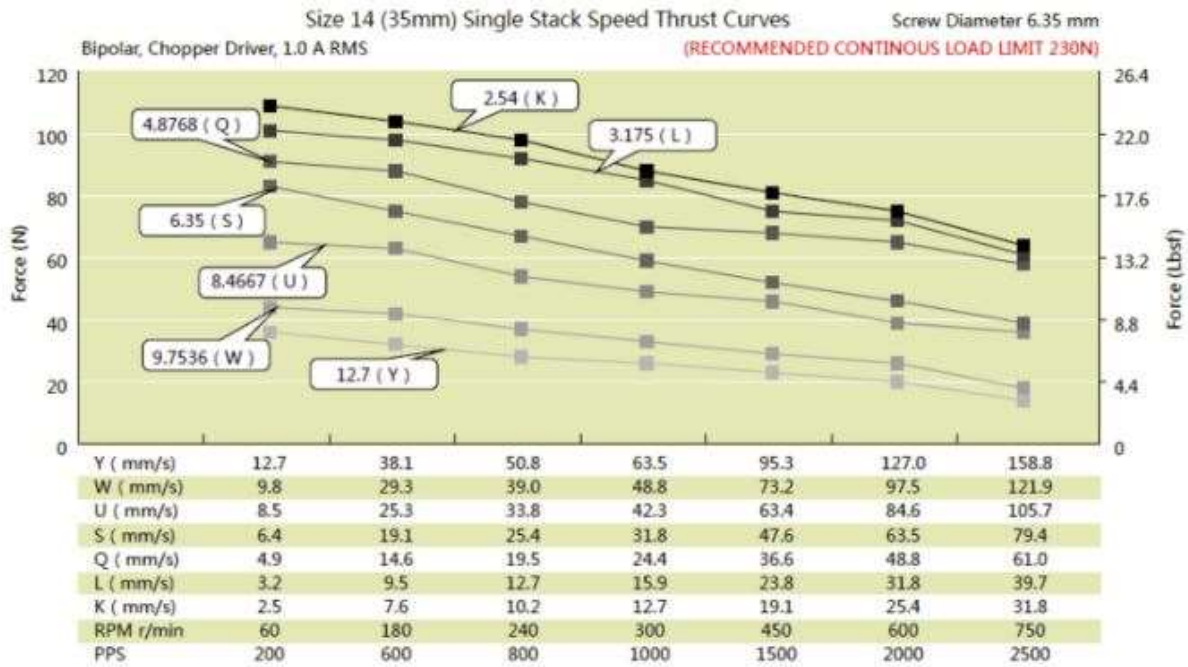
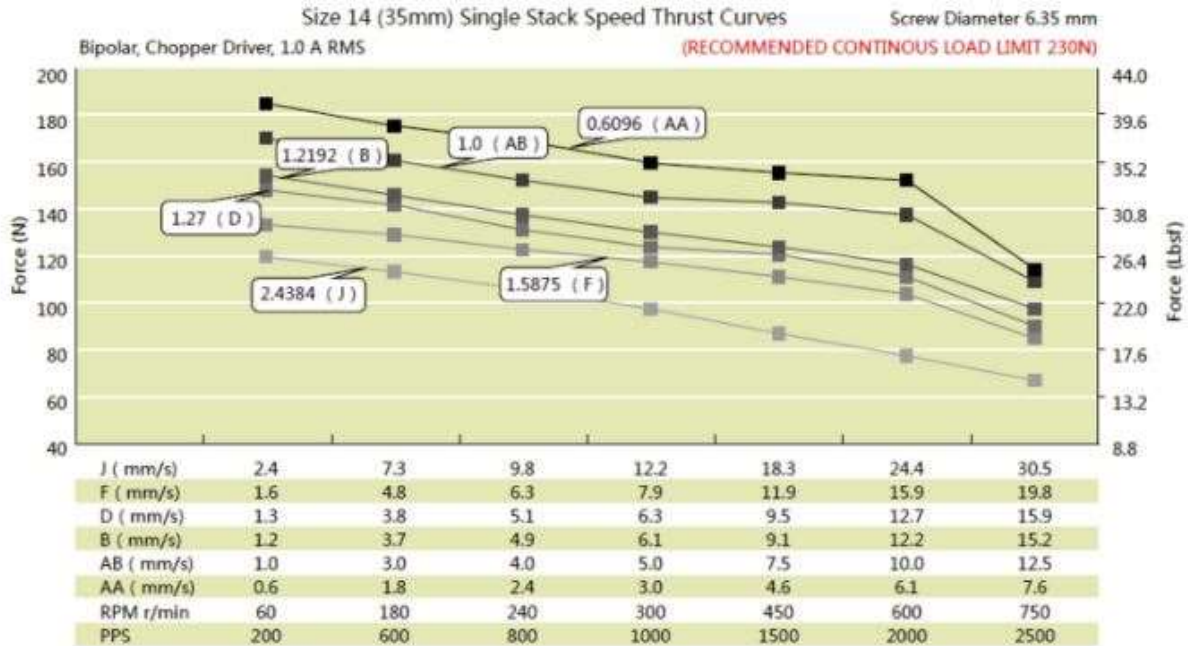


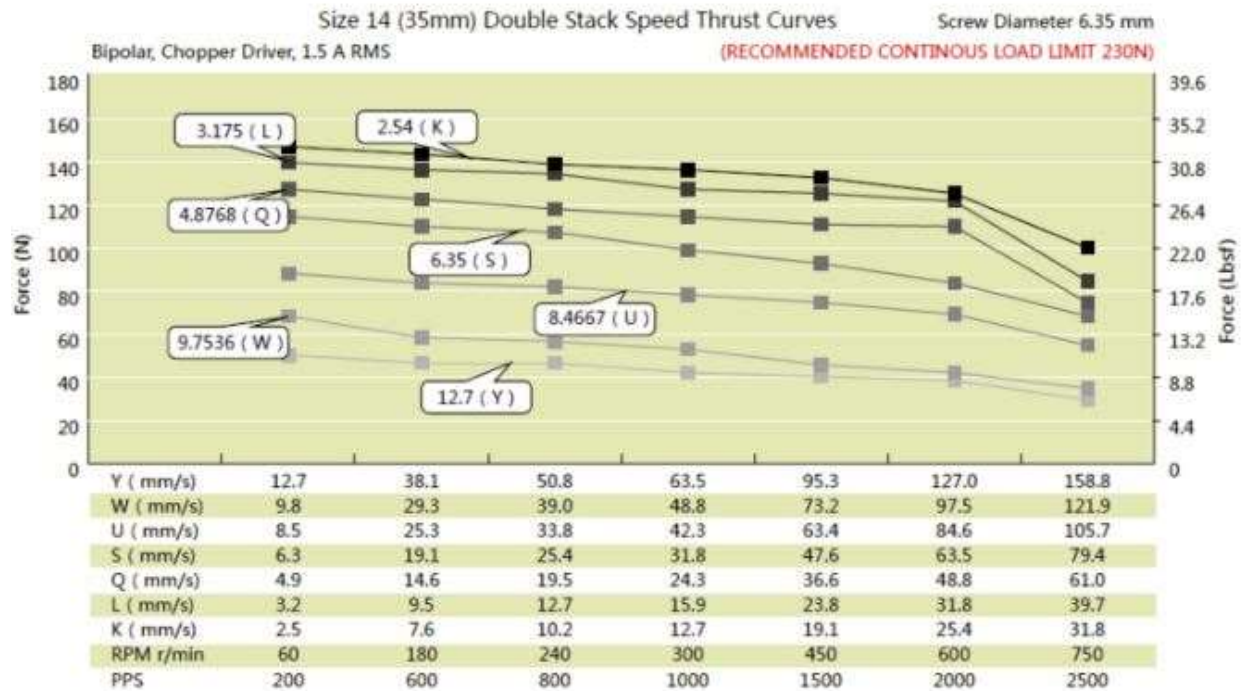
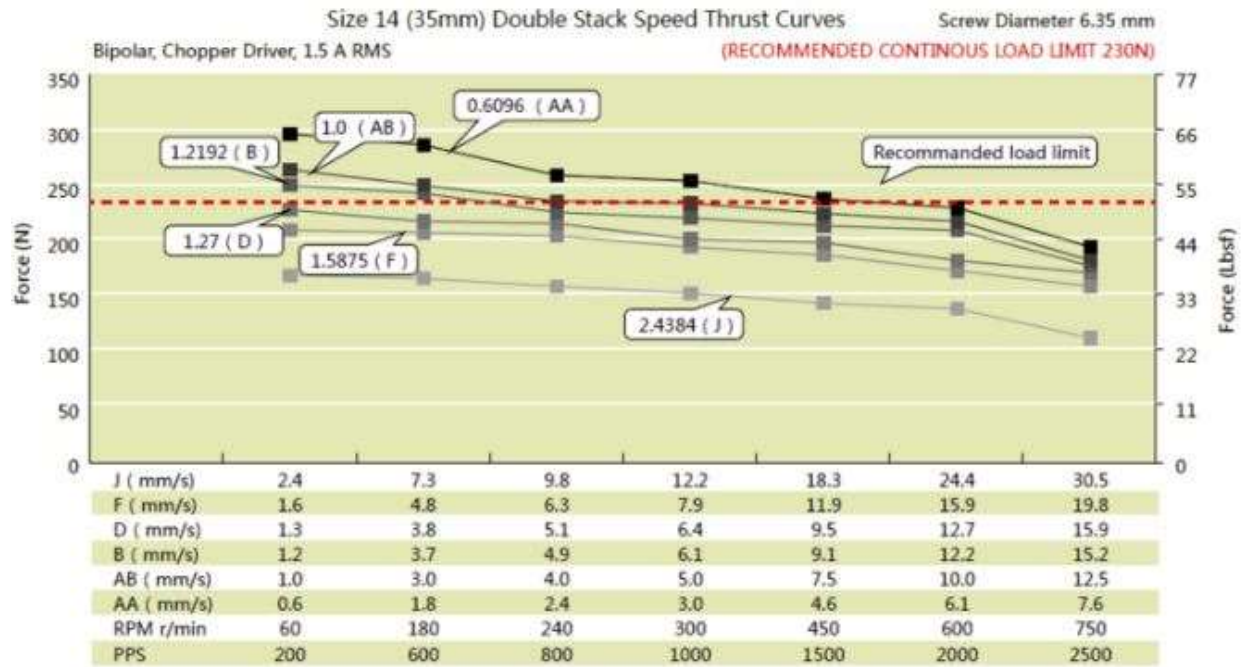
Optional Screw and Step Motor Size

Size A	Stroke B	Motor Length L (mm)	
108	50	33.6	45.6
158	100	33.6	45.6
208	150	33.6	45.6
258	200	33.6	45.6
308	250	33.6	45.6
358	300	33.6	45.6
408	350	33.6	45.6
458	400	33.6	45.6
508	450	33.6	45.6
558	500	33.6	45.6

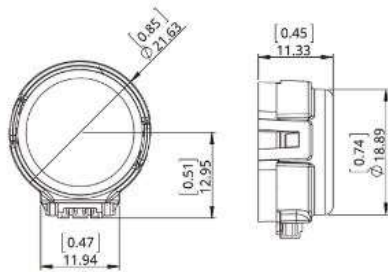


Size 14 (35mm) Performance Curves

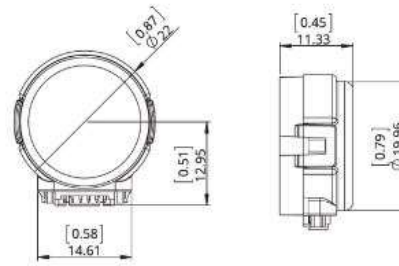




NEMA 14 ENCODER OPTIONS



EK1 Encoder - single ended output



EK1 Encoder - differential output

- 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

