

Stepper Motor Linear Actuators



Partners







Certifications







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Helix Linear Technologies, Inc., Beachwood, Ohio USA

Company

Helix Linear Technologies is a global manufacturer of linear actuators, lead screws and ball screws. Serving clients in the ærospace, medical, life science, security, semiconductor, and defense industries, we focus on helping our customers achieve their application and profitability goals. Our innovative product design and world-class engineering capabilities solve real-world linear motion issues, building a foundation for our client's long-term success.

Culture

Our culture is rooted in agility, responsiveness, and teamwork. Our team comprises happy, competitive professionals who are experts in manufacturing innovative electromechanical linear motion solutions. We strive to exceed our customers' expectations in all interactions and are committed to continuous improvement.

History

Helix Linear Technologies was founded in 2011 to meet the growing demand for high-precision lead screws in the electromechanical actuation industry. Our rapid growth and expanded product lines now include end-to-end linear actuator solutions, providing our clients with customized options and fully integrated solutions.

Market Segments Served



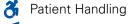


Packaging

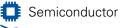


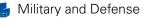




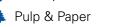


Entertainment















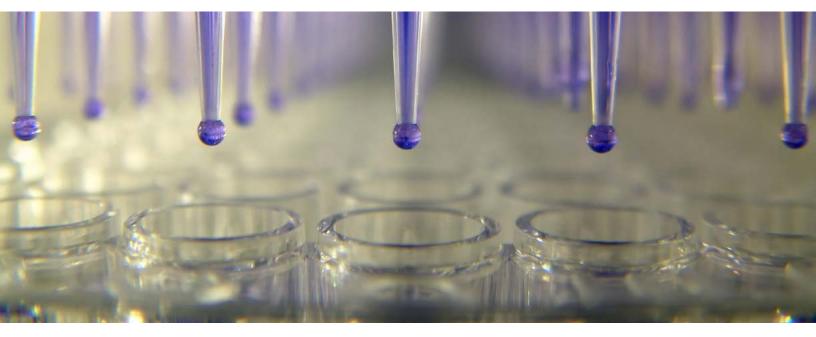
Captive Stepper Motor Linear Actuators **Overview**





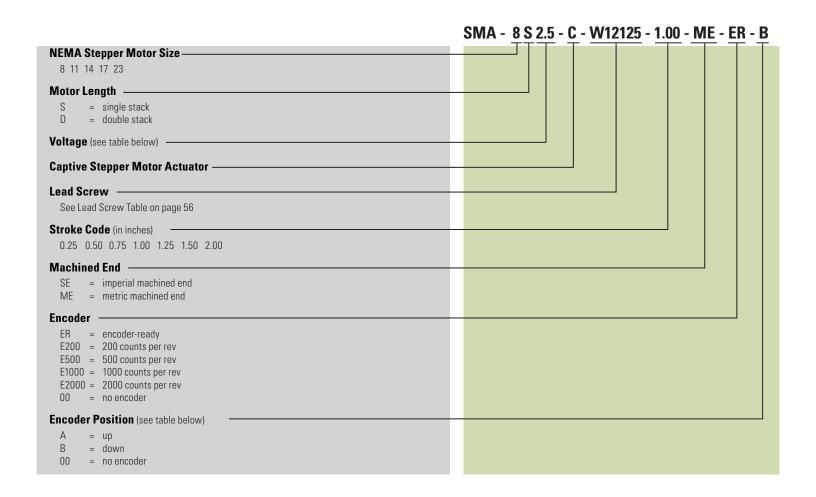
In a captive linear actuator design, the lead screw is connected to a spline shaft that passes through a spline bushing to keep it from rotating. The spline bushing prevents the lead screw from rotating but allows enough clearance for the shaft to move axially as the lead screw is driven back and forth with a corresponding clockwise and counterclockwise turn of the motor. The anti-rotation feature is inherent in the design and creates a stand-alone unit that pushes and pulls whatever device it is attached to. Because it is independent, this actuator can also provide a push force without being attached to anything. For this reason, it's an excellent choice for push-button applications where the return motion is handled by a spring pre-load or influenced by gravity.

Captive stepper motor linear actuators from Helix Linear Technologies are available in NEMA sizes 8, 11, 14, 17, and 23 with single and double stack options.



Captive Stepper Motor Linear Actuators Part Number Configuration Guide

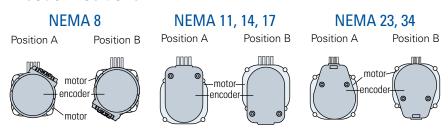




Available Motor Voltages

Motor Size	Available Voltages				
NEMA 8	2.5	5	7.5		
NEMA 11	2.1	5	12		
NEMA 14	2.33	5	12		
NEMA 17	2.33	5	12		
NEMA 23	3.25	5	12		

Encoder Positions



Non-Captive Stepper Motor Linear Actuators **Overview**





In a non-captive actuator linear actuator, the lead screw does not have an anti-rotation feature. Instead, external mechanical components separate from the motor are introduced into the design to keep the lead screw from rotating. As a result, the lead screw moves back and forth axially by restricting its rotation, which then drives the device it is attached to back and forth.

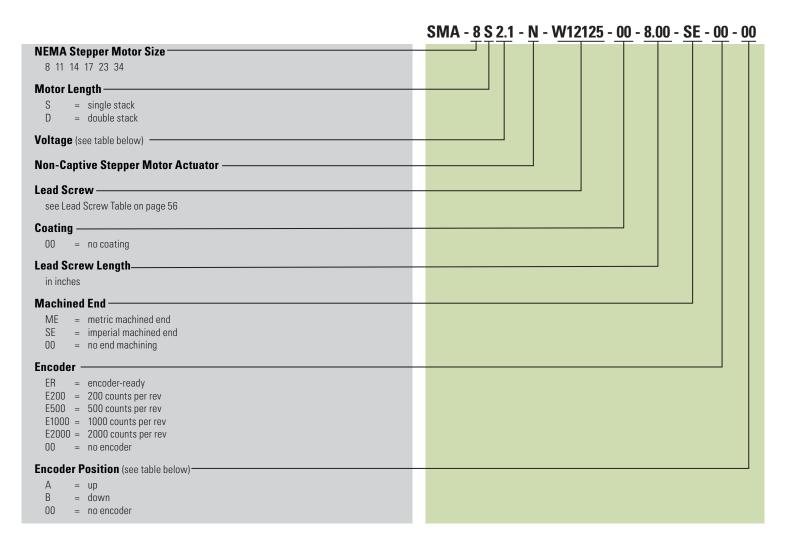
A non-captive actuator is more straightforward and compact than a captive linear actuator. It is an excellent option when the machine design already includes a built-in guide mechanism or anti-rotation feature. In some specific applications, the lead screw can be provided in longer lengths, supported at each end, and held in tension.

Non-captive stepper motor linear actuators from Helix Linear Technologies are available in NEMA sizes 8, 11, 14, 17, 23, and 34 with single and double stack options.



Non-Captive Stepper Motor Linear Actuators Part Number Configuration Guide





Available Motor Voltages

Motor Size	Available Voltages					
NEMA 8	2.5	5	7.5			
NEMA 11	2.1	5	12			
NEMA 14	2.33	5	12			
NEMA 17	2.33	5	12			
NEMA 23	3.25	5	12			
NEMA 34	2.85	5	12			

Encoder Positions

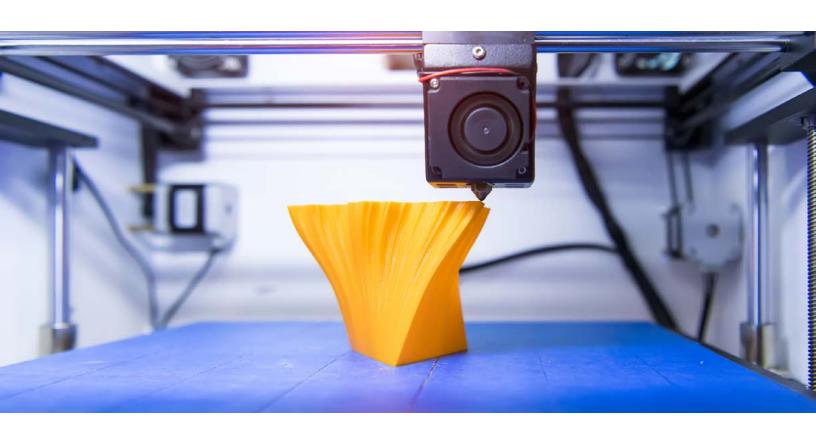
NEMA 8 NEMA 23, 34 NEMA 11, 14, 17 Position A Position B Position A Position B Position A Position B motor motor motorencoder

External Stepper Motor Linear Actuators Overview



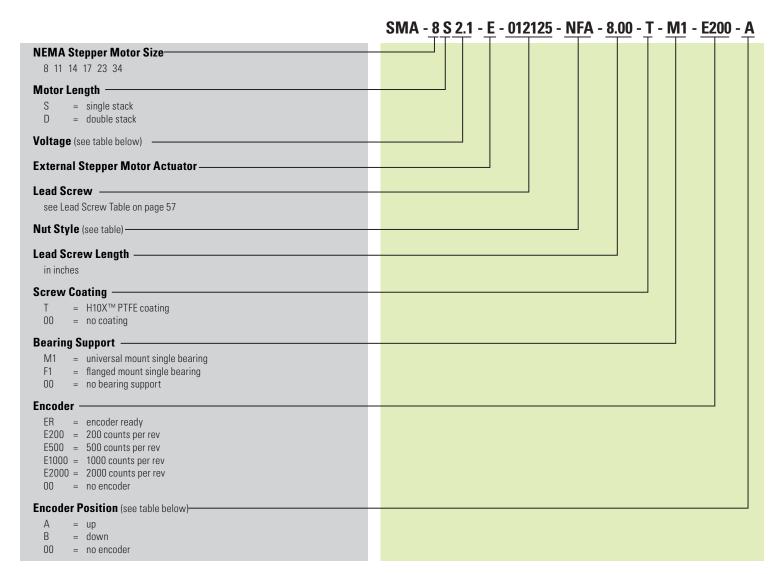


External stepper motor linear actuators feature a lead screw that is press-fit directly into the rotor of the motor. As a result, the threaded screw rotates outside of the motor body and is paired with a mating nut. This design configuration eliminates the coupling between the motor and lead screw, saving valuable design space and increasing stroke length. External stepper motor linear actuators from Helix Linear Technologies are also highly configurable with a wide range of standard lead options and numerous freewheeling and anti-backlash nuts styles. Rotation prevention of the nut is necessary to create highresolution linear motion.



External Stepper Motor Linear Actuators Part Number Configuration Guide





Available Motor Voltages

Motor Size	Available Voltages					
NEMA 8	2.5	5	7.5			
NEMA 11	2.1	5	12			
NEMA 14	2.33	5	12			
NEMA 17	2.33	5	12			
NEMA 23	3.25	5	12			
NEMA 34	2.85	5	12			

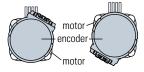
Nut Style Matrix

Style	Threaded	Flanged
Standard	NTA	NFA
Anti-Backlash Axial	ATA	AFA
Anti-Backlash Radial	RTA	RFA
Anti-Backlash Torsional	KTA	KFA

Encoder Positions

Position A Position B motor-

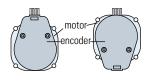
NEMA8



NEMA 11, 14, 17, 23 Position A Position B -motorencoder-

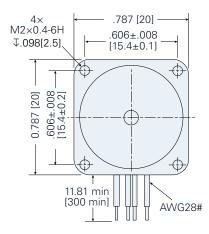
NEMA 34

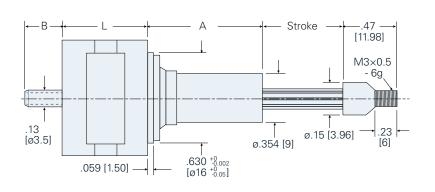
Position A Position B



Captive Stepper Motor Linear Actuator





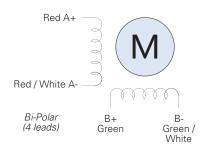


Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ Temperature Rise: 167° F (75° C) 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	I	L
	V	А	Ω	mH	OZ	g	W	in	mm
	2.5	0.49	5.1	1.5	1.5	43	4.2	1.18	30
Single Stack	5	0.24	20.4	6.7	1.5	43	4.2	1.18	30
	7.5	0.16	45.9	39	1.5	43	4.2	1.18	30
	2.5	1.9	1.1	1.1	2.4	68	7.5	1.496	38
Double Stack	5	0.75	6.7	5.8	2.4	68	7.5	1.496	38
	7.5	0.35	34.8	35.6	2.4	68	7.5	1.496	38

Stroke Codes

Stroke	Str	oke	ļ ,	4	В		
Code	in	mm	in	mm	in	mm	
0.35	.35	9.0	.44	11.1	.06	1.6	
0.50	.50	12.7	.58	14.8	.21	5.3	
0.75	.75	19.1	.83	21.2	.46	11.6	
1.00	1.00	25.4	1.08	27.5	.72	17.9	
1.25	1.25	31.8	1.33	33.9	.96	24.3	
1.50	1.50	38.1	1.58	40.2	1.20	30.7	











Captive Stepper Motor Linear Actuator

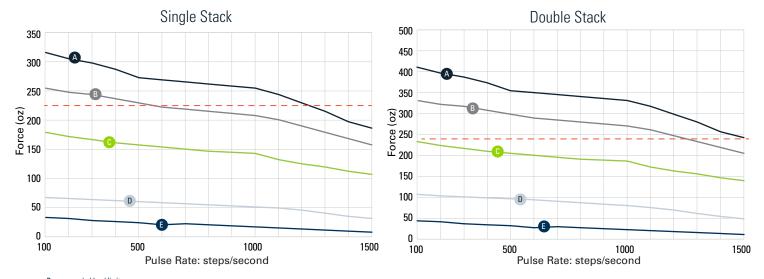


Screw Specifications

Screw	Dian	neter	Le	ad	Travel per Step		
Code	in	mm	in	mm	in	mm	
W12012	.140	3.6	.012	0.3048	.00006	.001524	A
W12024	.140	3.6	.024	0.6096	.00012	.003048	B
W12039	.140	3.6	.03937	1	.000197	.005	0
W12048	.140	3.6	.048	1.2192	.00024	.006096	
W12078	.140	3.6	.07874	2	.000394	.010	
W12096	.140	3.6	.096	2.4384	.00048	.012192	D
W12157	.140	3.6	.15748	4	.000787	.020	
W12315	.140	3.6	.31496	8	.001575	.040	3

Native units: imperial metric

Force v Pulse Rate Charts



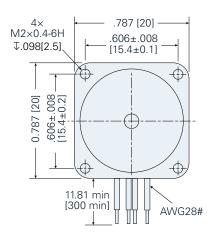
- - - = Recommended load limit

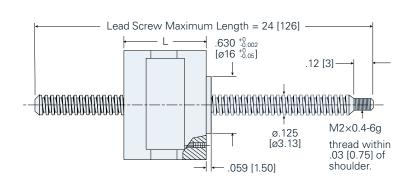
Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



Non-Captive Stepper Motor Linear Actuator

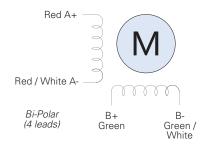






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	L (n	nax)
	V	А	Ω	mH	OZ	g	W	in	mm
	2.5	0.49	5.1	1.5	1.5	43	4.2	1.18	30
Single Stack	5	0.24	20.4	6.7	1.5	43	4.2	1.18	30
	7.5	0.16	45.9	39	1.5	43	4.2	1.18	30
	2.5	1.9	1.1	1.1	2.4	68	7.5	1.496	38
Double Stack	5	0.75	6.7	5.8	2.4	68	7.5	1.496	38
	7.5	0.35	34.8	35.6	2.4	68	7.5	1.496	38











Non-Captive Stepper Motor Linear Actuator

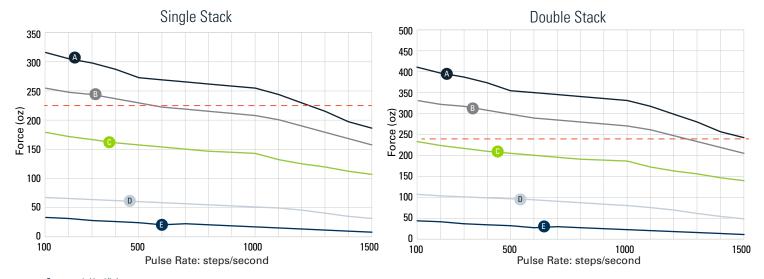


Screw Specifications

Screw	Dian	neter	Le	ad	Travel per Step		
Code	in	mm	in	mm	in	mm	
W12012	.140	3.6	.012	0.3048	.00006	.001524	A
W12024	.140	3.6	.024	0.6096	.00012	.003048	B
W12039	.140	3.6	.03937	1	.000197	.005	0
W12048	.140	3.6	.048	1.2192	.00024	.006096	
W12078	.140	3.6	.07874	2	.000394	.010	
W12096	.140	3.6	.096	2.4384	.00048	.012192	D
W12157	.140	3.6	.15748	4	.000787	.020	
W12315	.140	3.6	.31496	8	.001575	.040	3

Native units: imperial metric

Force v Pulse Rate Charts

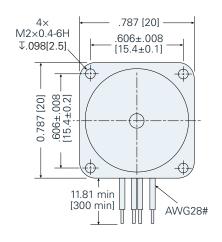


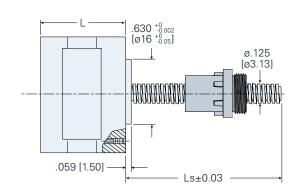
- -= Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



External Stepper Motor Linear Actuator







Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mo We	otor ight	Power Input	I	-
Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
	2.5	0.49	5.1	1.5	1.5	43	4.2	1.18	30
Single Stack	5	0.24	20.4	6.7	1.5	43	4.2	1.18	30
	7.5	0.16	45.9	39	1.5	43	4.2	1.18	30
	2.5	1.9	1.1	1.1	2.4	68	7.5	1.496	38
Double Stack	5	0.75	6.7	5.8	2.4	68	7.5	1.496	38
	7.5	0.35	34.8	35.6	2.4	68	7.5	1.496	38









External Stepper Motor Linear Actuator

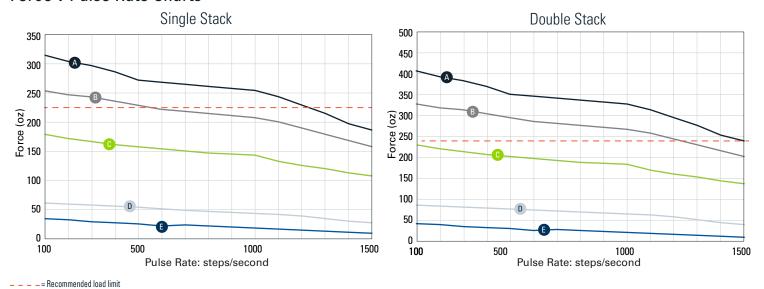


Screw Specifications

Screw	Dian	neter	Le	ad	Travel per Step		
Code	in	mm	in	mm	in	mm	
012012	.125	3.13	.012	0.3048	.00006	.001524	A
012019	.125	3.13	.01969	0.5	.000098	.0025	
012024	.125	3.13	.024	0.6096	.00012	.003048	В
012039	.125	3.13	.03937	1	.000197	.005	C
012048	.125	3.13	.048	1.2192	.00024	.006096	
012062	.125	3.13	.0625	1.5875	.000313	.007938	
012078	.125	3.13	.07874	2	.000394	.010	
012096	.125	3.13	.096	2.4384	.00048	.012192	
012125	.125	3.13	.125	3.175	.000625	.015875	D
012157	.125	3.13	.15748	4	.000787	.020	
012314	.125	3.13	.31496	8	.001575	.040	(3)

Native units: imperial metric

Force v Pulse Rate Charts



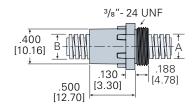
Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.





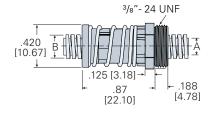
Standard Freewheeling Nut (NTA) - Threaded



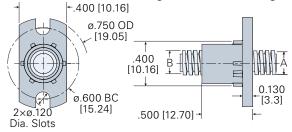


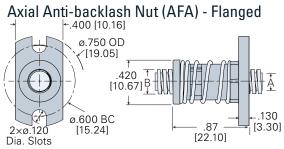
Axial Anti-backlash Nut (ATA) - Threaded





Standard Freewheeling Nut (NFA) - Flanged



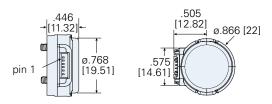




Accessories

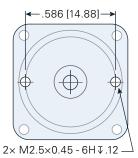


Encoder

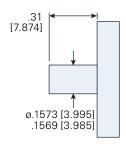


Encoder-Ready Options

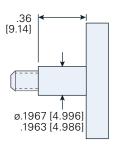
Rear View



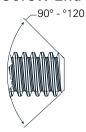
External

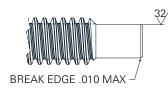


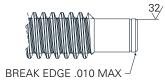
Non-Captive & Captive

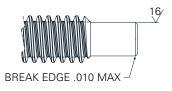


Screw End Machining

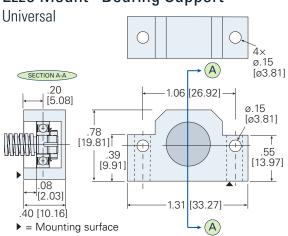




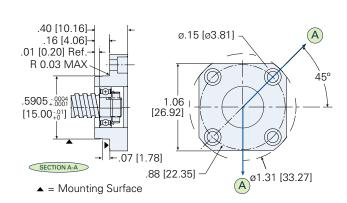




Ezze Mount[™] Bearing Support

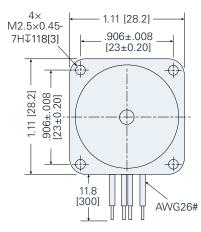


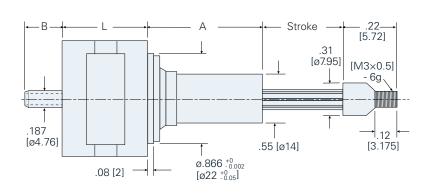
Flanged



Captive Stepper Motor Linear Actuator





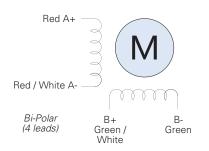


Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mo We	tor ight	Power Input	I	
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	2.1	1.00	2.1	1.5	4.2	119	4.2	1.26	32.2
	5	0.42	11.9	6.7	4.2	119	4.2	1.26	32.2
	12	0.18	68.6	39	4.2	119	4.2	1.26	32.2
	2.1	1.90	1.1	1.1	6.35	180	7.5	1.81	46
Double Stack	5	0.75	6.7	5.8	6.35	180	7.5	1.81	46
	12	0.35	34.8	35.6	6.35	180	7.5	1.81	46

Stroke Codes

Stroke	Str	oke	A	A	В		
Code	in	mm	in	mm	in	mm	
0.50	.50	12.7	.82	20.5	.07	1.7	
0.75	.75	19.1	1.05	26.8	.32	8.0	
1.00	1.00	25.4	1.30	33.2	.57	14.4	
1.25	1.25	31.8	1.55	39.5	.82	20.7	
1.50	1.50	38.1	1.80	45.9	1.07	27.1	
2.00	2.00	50.8	2.30	58.6	1.57	39.8	











Captive Stepper Motor Linear Actuator



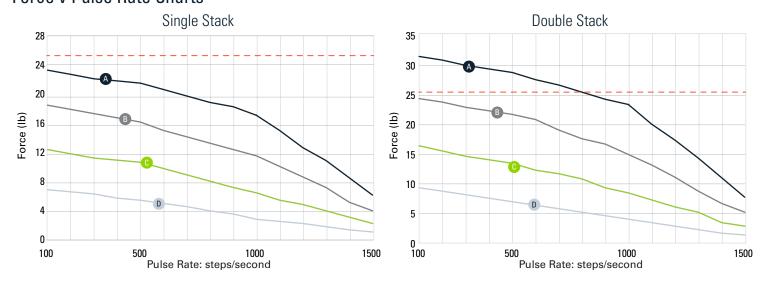
Screw Specifications

Screw	Dian	neter	Le	ad	Travel per Step		
Code	in	mm	in	mm	in	mm	
W18025	.1875	4.76	.025	0.635	.000125	0.003175	A
W18050	.1875	4.76	.050	1.27	.00025	0.00635	В
W18100	.1875	4.76	.100	2.54	.00050	0.01270	C
W18200	.1875	4.76	.200	5.08	.00100	0.02540	D
W18400	.1875	4.76	.400	10.16	.002	0.0508	

Native units: imperial

metric

Force v Pulse Rate Charts



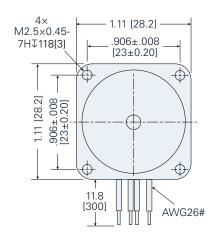
- - - = Recommended load limit

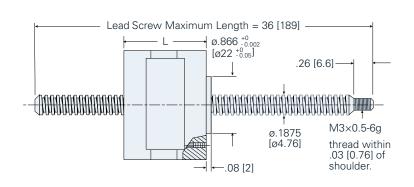
Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



Non-Captive Stepper Motor Linear Actuator

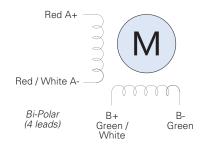






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	I	L
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
	2.1	1.00	2.1	1.5	4.2	119	4.2	1.26	32.2
Single Stack	5	0.42	11.9	6.7	4.2	119	4.2	1.26	32.2
	12	0.18	68.6	39	4.2	119	4.2	1.26	32.2
	2.1	1.90	1.1	1.1	6.35	180	7.5	1.81	46
Double Stack	5	0.75	6.7	5.8	6.35	180	7.5	1.81	46
	12	0.35	34.8	35.6	6.35	180	7.5	1.81	46











Non-Captive Stepper Motor Linear Actuator



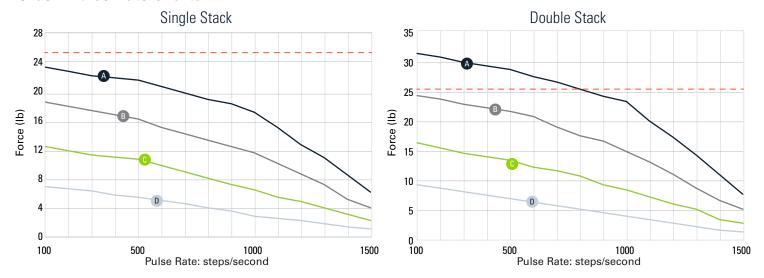
Screw Specifications

Screw	Dian	neter	Le	ad	Travel per Step		
Code	in	mm	in	mm	in	mm	
W18025	.1875	4.76	.025	0.635	.000125	0.003175	
W18050	.1875	4.76	.050	1.27	.00025	0.00635	
W18100	.1875	4.76	.100	2.54	.00050	0.01270	
W18200	.1875	4.76	.200	5.08	.00100	0.02540	(
W18400	.1875	4.76	.400	10.16	.002	0.0508	

Native units: imperial

metric

Force v Pulse Rate Charts



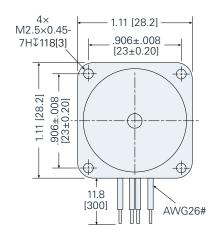
- - - = Recommended load limit

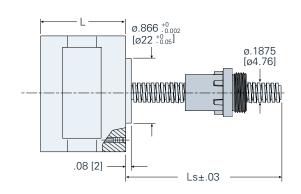
Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



External Stepper Motor Linear Actuator

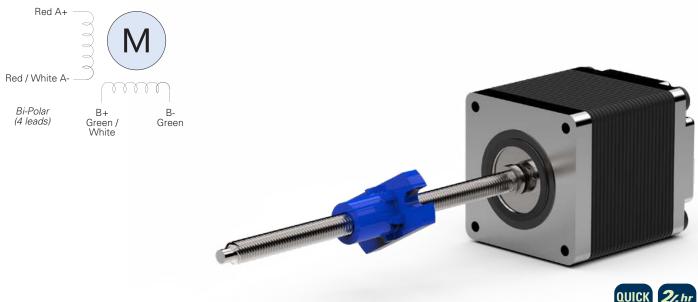






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	I	L
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	2.1	1.00	2.1	1.5	4.2	119	4.2	1.26	32.2
	5	0.42	11.9	6.7	4.2	119	4.2	1.26	32.2
	12	0.18	68.6	39	4.2	119	4.2	1.26	32.2
	2.1	1.90	1.1	1.1	6.35	180	7.5	1.81	46
Double Stack	5	0.75	6.7	5.8	6.35	180	7.5	1.81	46
	12	0.35	34.8	35.6	6.35	180	7.5	1.81	46



External Stepper Motor Linear Actuator

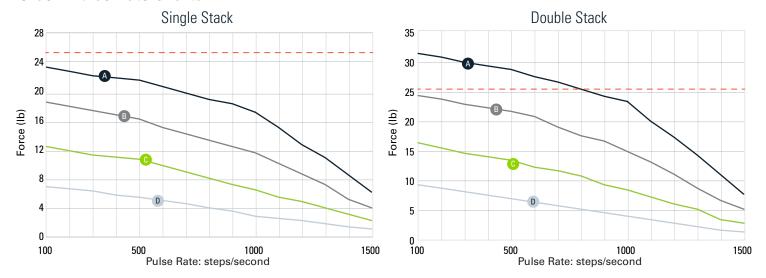


Screw Specifications

Screw	Diameter		Le	ad	Travel per Step		
Code	in	mm	in	mm	in	mm	
018025	.1875	4.76	.025	0.635	.000125	0.003175	
018050	.1875	4.76	.050	1.27	.00025	0.00635	
018100	.1875	4.76	.100	2.54	.00050	0.01270	
018200	.1875	4.76	.200	5.08	.00100	0.02540	

Native units: imperial metric

Force v Pulse Rate Charts



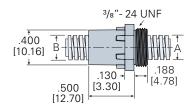
- - - = Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.





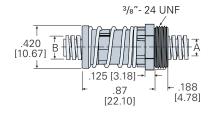
Standard Freewheeling Nut (NTA) - Threaded



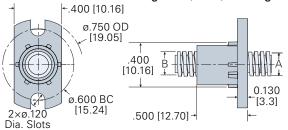


Axial Anti-backlash Nut (ATA) - Threaded

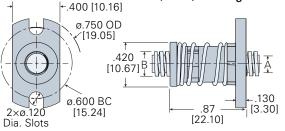


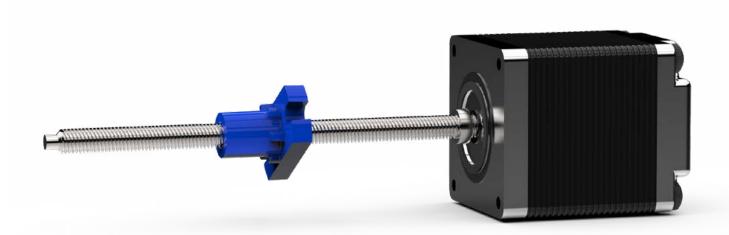


Standard Freewheeling Nut (NFA) - Flanged



Axial Anti-backlash Nut (AFA) - Flanged







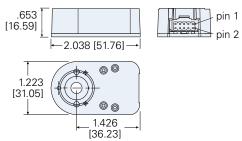




Accessories

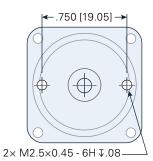


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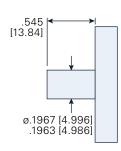


Encoder-Ready Options

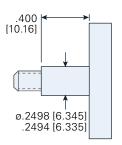
Rear View



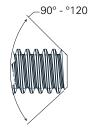
External

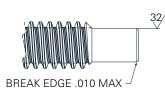


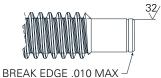
Non-Captive & Captive

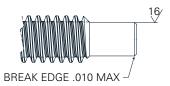


Screw End Machining

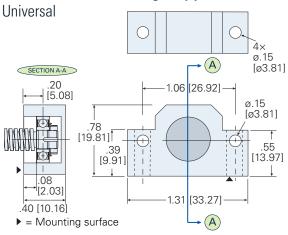




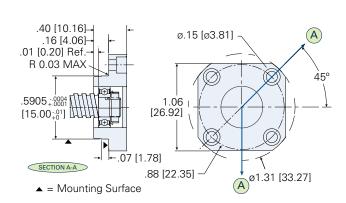




Ezze Mount™ Bearing Support

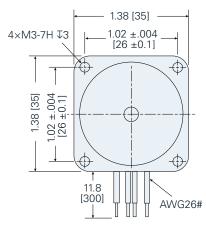


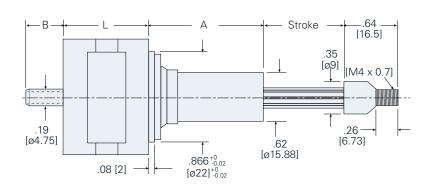
Flanged



Captive Stepper Motor Linear Actuator





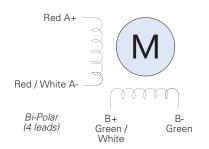


Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	I	L
Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
	2.33	1.25	1.86	2.8	5.7	162	5.7	1.36	34.5
Single Stack	5	0.57	8.8	13	5.7	162	5.7	1.36	34.5
	12	0.24	50.5	60	5.7	162	5.7	1.36	34.5
	2.33	2.0	1.2	1.95	8.47	240	9.1	1.89	48
Double Stack	5	0.91	5.5	7.63	8.47	240	9.1	1.89	48
	12	0.38	31.6	65.1	8.47	240	9.1	1.89	48

Stroke Codes

Stroke	Str	oke	Į ,	A	E	3
Code	in	mm	in	mm	in	mm
0.50	.50	12.7	.82	20.8	.04	1
0.75	.75	19.1	1.07	27.2	.29	7.4
1.00	1.00	25.4	1.32	33.5	.54	13.7
1.25	1.25	31.8	1.57	39.9	.79	20.1
1.50	1.50	38.1	1.82	46.2	1.04	26.4
2.00	2.00	50.8	2.32	58.9	1.54	39.1











Captive Stepper Motor Linear Actuator

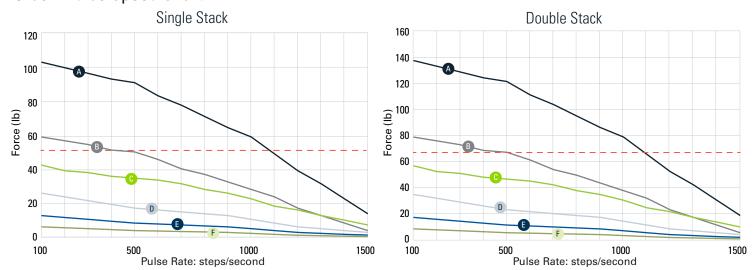


Screw Specification

Screw	Dian	neter	Le	ad	Travel	oer Step	
Code	in	mm	in	mm	in	mm	
W25024	.219	5.6	.024	0.6096	.00012	0.003048	A
W25031	.219	5.6	.03125	0.79375	.000156	0.003969	B
W25039	.219	5.6	.03937	1	.000197	0.005	
W25048	.219	5.6	.048	1.2192	.00024	0.006096	
W25050	.219	5.6	.050	1.27	.00025	0.00635	
W25062	.219	5.6	.0625	1.5875	.0003125	0.0079375	
W25096	.219	5.6	.096	2.438	.00048	0.012192	C
W25100	.219	5.6	.100	2.54	.0005	0.0127	
W25125	.219	5.6	.125	3.175	.000625	0.015875	D
W25192	.219	5.6	.192	4.877	.00096	0.024384	
W25250	.219	5.6	.250	6.35	.00125	0.03175	(3)
W25384	.219	5.6	.384	9.754	.00192	0.048768	
W25500	.219	5.6	.500	12.7	.0025	0.0635	F
W25999	.219	5.6	1.000	25.4	.005	0.127	

Native units:
imperial

Force v Pulse Speed Chart



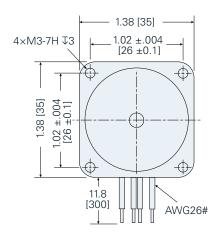
_ _ _ = Recommended load limit

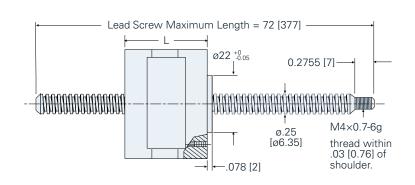
Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.

metric



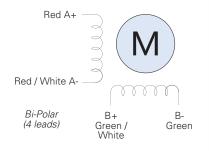






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	I	L
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	2.33	1.25	1.86	2.8	5.7	162	5.7	1.36	34.5
	5	0.57	8.8	13	5.7	162	5.7	1.36	34.5
	12	0.24	50.5	60	5.7	162	5.7	1.36	34.5
	2.33	2.00	1.2	1.95	8.47	240	9.1	1.89	48
Double Stack	5	0.91	5.5	7.63	8.47	240	9.1	1.89	48
	12	0.38	31.6	65.1	8.47	240	9.1	1.89	48











Non-Captive Stepper Motor Linear Actuator

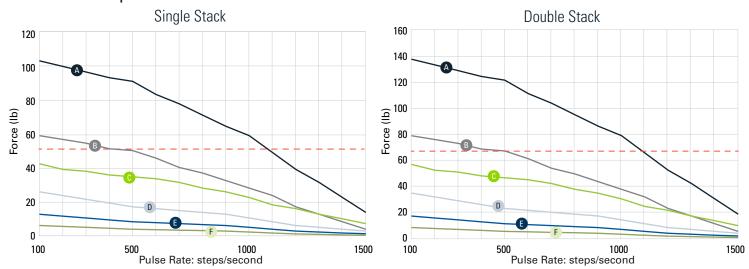


Screw Specification

Screw	Dian	neter	Le	ad	Travel	oer Step	
Code	in	mm	in	mm	in	mm	
W25024	.219	5.6	.024	0.6096	.00012	0.003048	A
W25031	.219	5.6	.03125	0.79375	.000156	0.003969	B
W25039	.219	5.6	.03937	1	.000197	0.005	
W25048	.219	5.6	.048	1.2192	.00024	0.006096	
W25050	.219	5.6	.050	1.27	.00025	0.00635	
W25062	.219	5.6	.0625	1.5875	.0003125	0.0079375	
W25096	.219	5.6	.096	2.438	.00048	0.012192	C
W25100	.219	5.6	.100	2.54	.0005	0.0127	
W25125	.219	5.6	.125	3.175	.000625	0.015875	D
W25192	.219	5.6	.192	4.877	.00096	0.024384	
W25250	.219	5.6	.250	6.35	.00125	0.03175	(3)
W25384	.219	5.6	.384	9.754	.00192	0.048768	
W25500	.219	5.6	.500	12.7	.0025	0.0635	F
W25999	.219	5.6	1.000	25.4	.005	0.127	

imperial Native units:

Force v Pulse Speed Chart



- - - = Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.

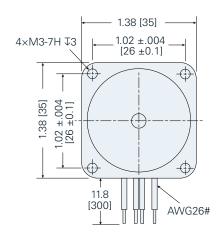
> Don't see what you're looking for? Custom options available. Contact us for details.

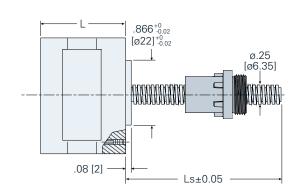


metric

External Stepper Motor Linear Actuator







Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ Temperature Rise: 167°F (75°C) 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mo We	otor ight	Power Input	I	L
	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	2.33	1.25	1.86	2.8	5.7	162	5.7	1.36	34.5
	5	0.57	8.8	13	5.7	162	5.7	1.36	34.5
	12	0.24	50.5	60	5.7	162	5.7	1.36	34.5
Double Stack	2.33	2.0	1.2	1.95	8.47	240	9.1	1.89	48
	5	0.91	5.5	7.63	8.47	240	9.1	1.89	48
	12	0.38	31.6	65.1	8.47	240	9.1	1.89	48









External Stepper Motor Linear Actuator



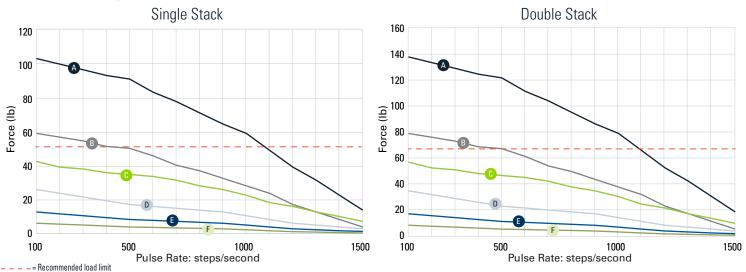
Screw Specifications

Screw	Diameter		L	ead	Travel p	oer Step	
Code	in	mm	in	mm	in	mm	
025024	.250	6.35	.024	0.6096	.00012	0.003048	A
025031	.250	6.35	.03125	0.79375	.000156	0.003969	B
025039	.250	6.35	.03937	1	.000197	0.005	
025048	.250	6.35	.048	1.2192	.00024	0.006096	
025050	.250	6.35	.050	1.27	.00025	0.00635	
025062	.250	6.35	.0625	1.5875	.0003125	0.0079375	
025096	.250	6.35	.096	2.438	.00048	0.012192	C
025100	.250	6.35	.100	2.54	.0005	0.0127	
025125	.250	6.35	.125	3.175	.000625	0.015875	D
025192	.250	6.35	.192	4.877	.00096	0.024384	
025196	.250	6.35	.19685	5	.00098	0.025	
025250	.250	6.35	.250	6.35	.00125	0.03175	3
025384	.250	6.35	.384	9.754	.00192	0.048768	
025393	.250	6.35	.3937	10	.00197	0.050	
025500	.250	6.35	.500	12.7	.0025	0.0635	F
025750	.250	6.35	.750	19.05	.00375	0.09525	
025999	.250	6.35	1.000	25.4	.005	0.127	

Native units:
imperial

metric

Force v Pulse Speed Chart



Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.

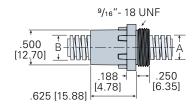


External - Nut Options



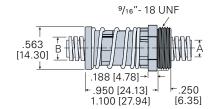
Standard Freewheeling Nut (NTA) - Threaded



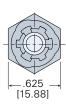


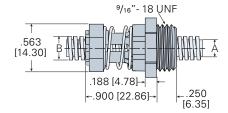
Axial Anti-backlash Nut (ATA) - Threaded





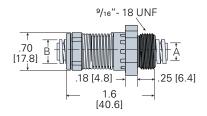
Radial Anti-backlash Nut (RTA) - Threaded



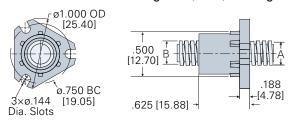


Torsional Anti-backlash Nut (KTA) - Threaded

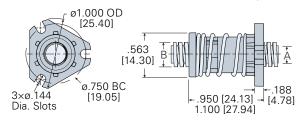




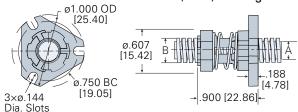
Standard Freewheeling Nut (NFA) - Flanged



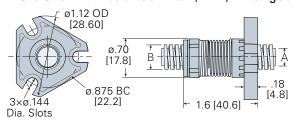
Axial Anti-backlash Nut (AFA) - Flanged



Radial Anti-backlash Nut (RFA) - Flanged



Torsional Anti-backlash Nut (KFA) - Flanged





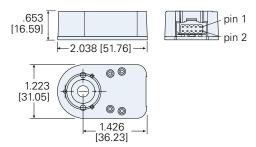




Accessories

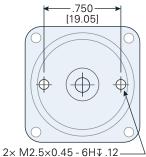


Encoder

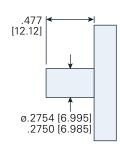


Encoder-Ready Options

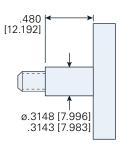
Rear View



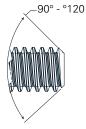
External

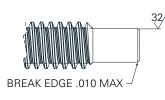


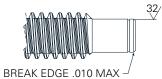
Non-Captive & Captive

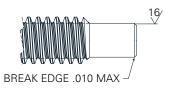


Screw End Machining

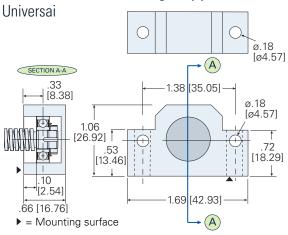




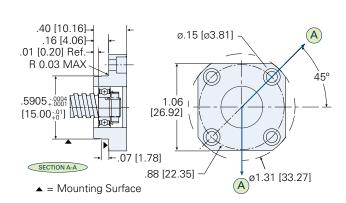




Ezze Mount™ Bearing Support

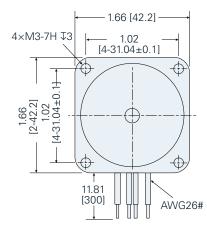


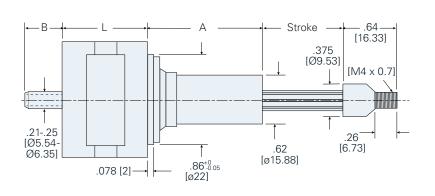
Flanged



Captive Stepper Motor Linear Actuator





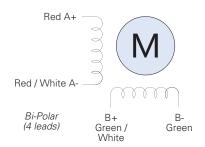


Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ Temperature Rise: 167° F (75° C) 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mc We	otor ight	Power Input	I	L
	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	2.33	1.50	1.56	1.9	8.5	241	13	1.33	33.8
	5	0.70	7.2	10.6	8.5	241	13	1.33	33.8
	12	0.29	41.5	73.3	8.5	241	13	1.33	33.8
	2.33	2.60	0.9	1.33	12.4	352	14	1.88	47.75
Double Stack	5	1.30	3.8	6.6	12.4	352	14	1.88	47.75
	12	0.55	21.9	45.1	12.4	352	14	1.88	47.75

Stroke Codes

	Str	oke	ļ ,	A	В		
Stroke Code	in	mm	in	mm	in	mm	
0.50	.50	12.7	.79	19.8	.02	0.51	
0.75	.75	19.1	1.03	26.2	.27	6.86	
1.00	1.00	25.4	1.28	32.5	.52	13.21	
1.25	1.25	31.8	1.53	38.9	.77	19.56	
1.50	1.50	38.1	1.78	45.2	1.02	25.91	
2.00	2.00	50.8	2.28	57.9	1.52	38.61	











Captive Stepper Motor Linear Actuator

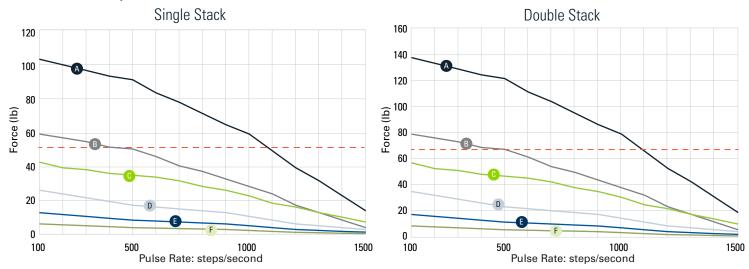


Screw Specification

Screw	Dian	neter	Le	ead	Travel per Step		
Code	in	mm	in	mm	in	mm	
W25024	.219	5.6	.024	0.6096	.00012	0.003048	A
W25031	.219	5.6	.03125	0.79375	.000156	0.003969	B
W25039	.219	5.6	.03937	1	.000197	0.005	
W25048	.219	5.6	.048	1.2192	.00024	0.006096	
W25050	.219	5.6	.050	1.27	.00025	0.00635	
W25062	.219	5.6	.0625	1.5875	.0003125	0.0079375	
W25096	.219	5.6	.096	2.438	.00048	0.012192	C
W25100	.219	5.6	.100	2.54	.0005	0.0127	
W25125	.219	5.6	.125	3.175	.000625	0.015875	D
W25192	.219	5.6	.192	4.877	.00096	0.024384	
W25250	.219	5.6	.250	6.35	.00125	0.03175	(
W25384	.219	5.6	.384	9.754	.00192	0.048768	
W25500	.219	5.6	.500	12.7	.0025	0.0635	F
W25999	.219	5.6	1.000	25.4	.005	0.127	

Native units: imperial metric

Force v Pulse Speed Chart

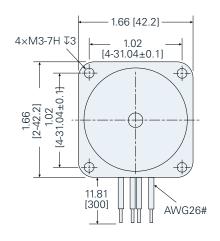


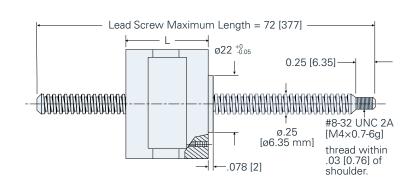
- - - = Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



Non-Captive Stepper Motor Linear Actuator

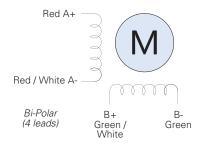






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mo We	otor ight	Power Input	I	_
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	2.33	1.50	1.56	1.9	8.5	241	13	1.33	33.8
	5	0.70	7.2	10.6	8.5	241	13	1.33	33.8
	12	0.29	41.5	73.3	8.5	241	13	1.33	33.8
	2.33	2.6	0.9	1.33	12.4	352	14	1.88	47.75
Double Stack	5	1.3	3.8	6.6	12.4	352	14	1.88	47.75
	12	0.55	21.9	45.1	12.4	352	14	1.88	47.75











Non-Captive Stepper Motor Linear Actuator

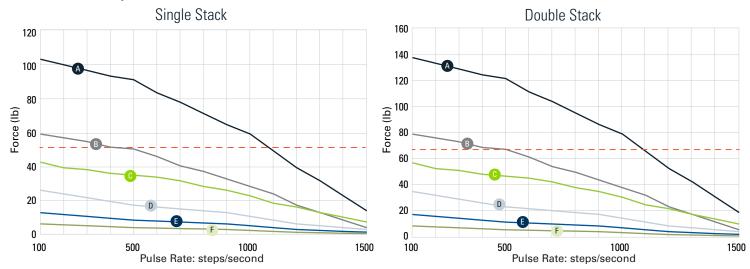


Screw Specification

Screw	Dian	neter	Le	ad	Travel	oer Step	
Code	in	mm	in	mm	in	mm	
W25024	.219	5.6	.024	0.6096	.00012	0.003048	A
W25031	.219	5.6	.03125	0.79375	.000156	0.003969	B
W25039	.219	5.6	.03937	1	.000197	0.005	
W25048	.219	5.6	.048	1.2192	.00024	0.006096	
W25050	.219	5.6	.050	1.27	.00025	0.00635	
W25062	.219	5.6	.0625	1.5875	.0003125	0.0079375	
W25096	.219	5.6	.096	2.438	.00048	0.012192	C
W25100	.219	5.6	.100	2.54	.0005	0.0127	
W25125	.219	5.6	.125	3.175	.000625	0.015875	D
W25192	.219	5.6	.192	4.877	.00096	0.024384	
W25250	.219	5.6	.250	6.35	.00125	0.03175	(3)
W25384	.219	5.6	.384	9.754	.00192	0.048768	
W25500	.219	5.6	.500	12.7	.0025	0.0635	F
W25999	.219	5.6	1.000	25.4	.005	0.127	

Native units: imperial metric

Force v Pulse Speed Chart

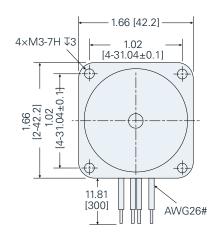


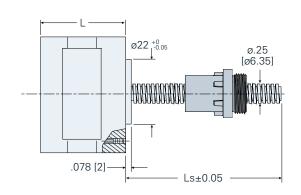
- - - = Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



External Stepper Motor Linear Actuator

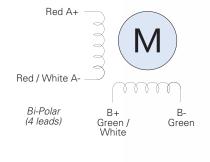






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	I	L
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
	2.33	1.50	1.56	1.9	8.5	241	13	1.33	33.8
Single Stack	5	0.70	7.2	10.6	8.5	241	13	1.33	33.8
	12	0.29	41.5	73.3	8.5	241	13	1.33	33.8
	2.33	2.6	0.9	1.33	12.4	352	14	1.88	47.75
Double Stack	5	1.3	3.8	6.6	12.4	352	14	1.88	47.75
	12	0.55	21.9	45.1	12.4	352	14	1.88	47.75











External Stepper Motor Linear Actuator



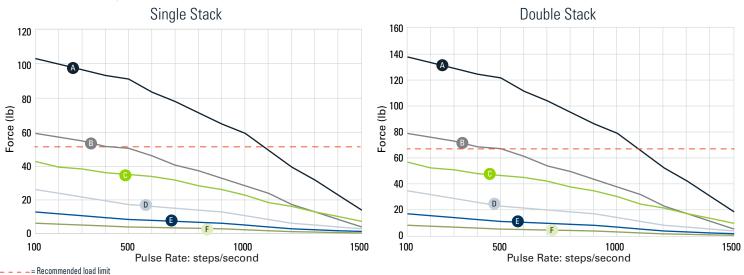
Screw Specifications

Screw	Diam	neter	L	ead	Travel	oer Step	
Code	in	mm	in	mm	in	mm	
025024	.250	6.35	.024	0.6096	.00012	0.003048	A
025031	.250	6.35	.03125	0.79375	.000156	0.003969	В
025039	.250	6.35	.03937	1	.000197	0.005	
025048	.250	6.35	.048	1.2192	.00024	0.006096	
025050	.250	6.35	.050	1.27	.00025	0.00635	
025062	.250	6.35	.0625	1.5875	.0003125	0.0079375	
025096	.250	6.35	.096	2.438	.00048	0.012192	C
025100	.250	6.35	.100	2.54	.0005	0.0127	
025125	.250	6.35	.125	3.175	.000625	0.015875	D
025192	.250	6.35	.192	4.877	.00096	0.024384	
025196	.250	6.35	.19685	5	.00098	0.025	
025250	.250	6.35	.250	6.35	.00125	0.03175	•
025384	.250	6.35	.384	9.754	.00192	0.048768	
025393	.250	6.35	.3937	10	.00197	0.050	
025500	.250	6.35	.500	12.7	.0025	0.0635	F
025750	.250	6.35	.750	19.05	.00375	0.09525	
025999	.250	6.35	1.000	25.4	.005	0.127	

Native units: imperial

metric

Force v Pulse Speed Chart



Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.

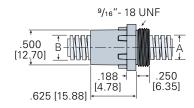


External - Nut Options



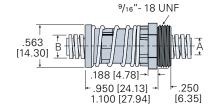
Standard Freewheeling Nut (NTA) - Threaded



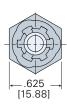


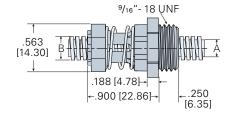
Axial Anti-backlash Nut (ATA) - Threaded





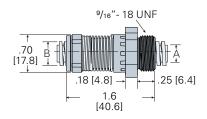
Radial Anti-backlash Nut (RTA) - Threaded



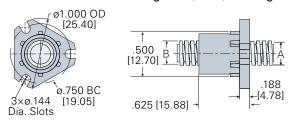


Torsional Anti-backlash Nut (KTA) - Threaded

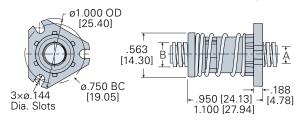




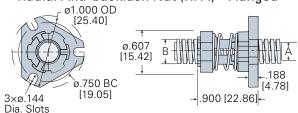
Standard Freewheeling Nut (NFA) - Flanged



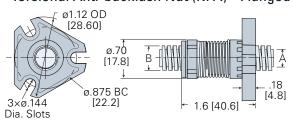
Axial Anti-backlash Nut (AFA) - Flanged



Radial Anti-backlash Nut (RFA) - Flanged



Torsional Anti-backlash Nut (KFA) - Flanged





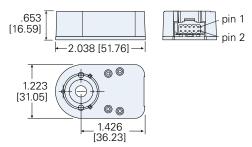




Accessories

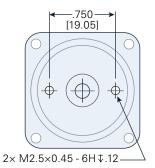


Encoder

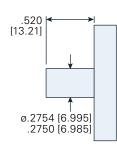


Encoder-Ready Options

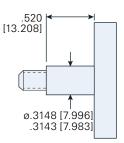
Rear View



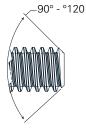


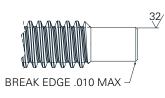


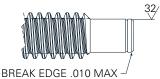
Non-Captive & Captive

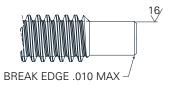


Screw End Machining

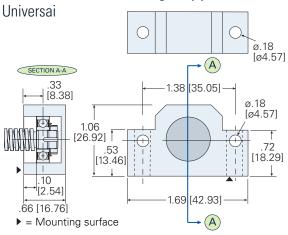




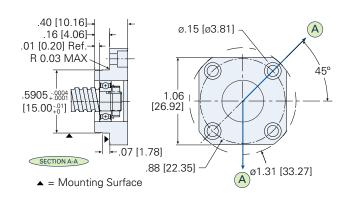




Ezze Mount™ Bearing Support

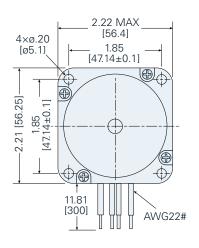


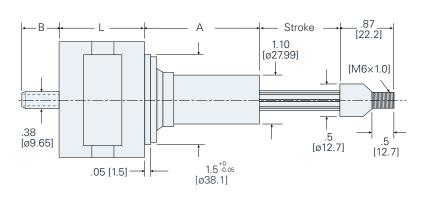
Flanged



Captive Stepper Motor Linear Actuator





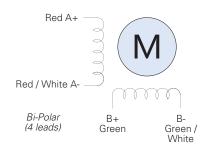


Motor Specifications

Bipolar Wiring1.8° Step AngleInsulation Resistance: 20 MΩ	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mo We	otor ight	Power Input	I	-
Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	3.25	2	1.63	3.5	18	511	13	1.78	45.2
	5	1.3	3.85	10.5	18	511	13	1.78	45.2
	12	0.54	22.2	47	18	511	13	1.78	45.2
	3.25	3.32	0.98	1.33	33.8	958	14	2.60	66.0
Double Stack	5	2.16	2.31	6.6	33.8	958	14	2.60	66.0
	12	0.9	13.33	45.1	33.8	958	14	2.60	66.0

Stroke Codes

Stroke	Str	oke	ļ ,	A	E	3
Code	in	mm	in	mm	in	mm
0.50	.50	12.7	1.01	25.7	0.06	1.5
0.75	.75	19.1	1.26	32.0	0.31	7.9
1.00	1.00	25.4	1.51	38.4	0.56	14.2
1.25	1.25	31.8	1.76	44.7	0.81	20.6
1.50	1.50	38.1	2.01	51.1	1.06	26.9
2.00	2.00	50.8	2.51	63.8	1.56	39.6











Captive Stepper Motor Linear Actuator

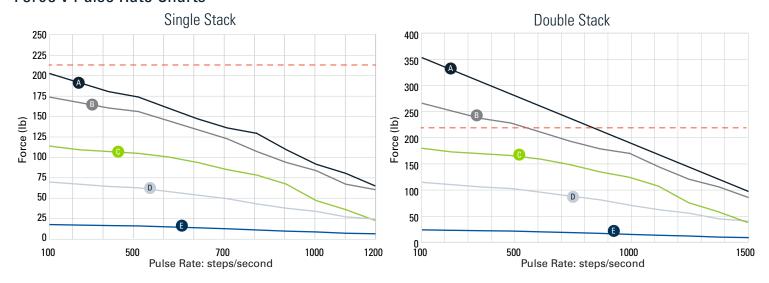


Screw Specifications

Screw	Diam	neter	Le	ad	Travel	per Step	
Code	in	mm	in	mm	in	mm	
W37050	.375	9.53	.050	1.27	.00025	0.00635	
W37062	.375	9.53	.0625	1.5875	.0003125	0.0079375	
W37083	.375	9.53	.08334	2.117	.000417	0.010584	
W37100	.375	9.53	.100	2.54	.0005	0.0127	
W37125	.375	9.53	.125	3.175	.000625	0.015875	
W37166	.375	9.53	.16666	4.233	.000833	0.021166	
W37200	.375	9.53	.200	5.08	.001	0.0254	
W37250	.375	9.53	.250	6.35	.00125	0.03175	
W37400	.375	9.53	.400	10.16	.002	0.0508	
W37999	.375	9.53	1.000	25.4	.005	0.127	

Native units: imperial metric

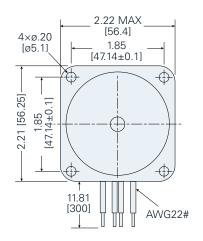
Force v Pulse Rate Charts

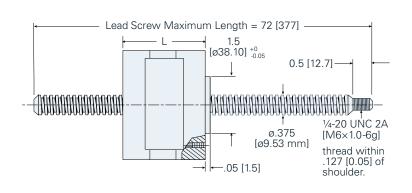


- - - = Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



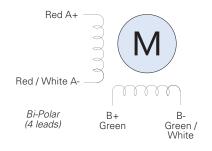






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mo We	otor ight	Power Input	l	-
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	3.25	2	1.63	3.5	18	511	13	1.78	45.2
	5	1.3	3.85	10.5	18	511	13	1.78	45.2
	12	0.54	22.2	47	18	511	13	1.78	45.2
	3.25	3.32	0.98	1.33	33.8	958	14	2.60	66.0
Double Stack	5	2.16	2.31	6.6	33.8	958	14	2.60	66.0
	12	0.9	13.33	45.1	33.8	958	14	2.60	66.0











Non-Captive Stepper Motor Linear Actuator

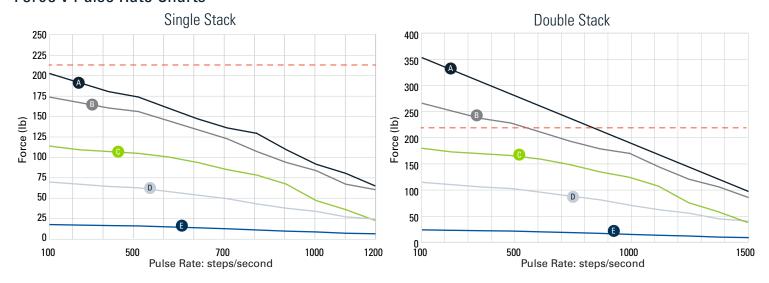


Screw Specifications

Screw	Diam	neter	Le	ad	Travel	per Step	
Code	in	mm	in	mm	in	mm	
W37050	.375	9.53	.050	1.27	.00025	0.00635	
W37062	.375	9.53	.0625	1.5875	.0003125	0.0079375	
W37083	.375	9.53	.08334	2.117	.000417	0.010584	
W37100	.375	9.53	.100	2.54	.0005	0.0127	
W37125	.375	9.53	.125	3.175	.000625	0.015875	
W37166	.375	9.53	.16666	4.233	.000833	0.021166	
W37200	.375	9.53	.200	5.08	.001	0.0254	
W37250	.375	9.53	.250	6.35	.00125	0.03175	
W37400	.375	9.53	.400	10.16	.002	0.0508	
W37999	.375	9.53	1.000	25.4	.005	0.127	

Native units:
imperial metric

Force v Pulse Rate Charts

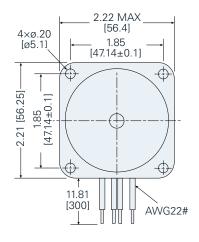


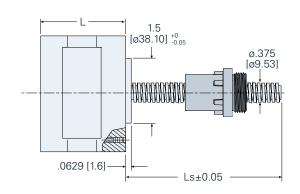
- - - = Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.



External Stepper Motor Linear Actuator

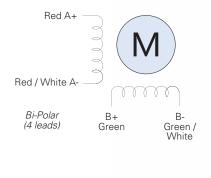






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Mo We	otor ight	Power Input	l	-
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
Single Stack	3.25	2	1.63	3.5	18	511	13	1.78	45.2
	5	1.3	3.85	10.5	18	511	13	1.78	45.2
	12	0.54	22.2	47	18	511	13	1.78	45.2
	3.25	3.32	0.98	1.33	33.8	958	14	2.60	66.0
Double Stack	5	2.16	2.31	6.6	33.8	958	14	2.60	66.0
	12	0.9	13.33	45.1	33.8	958	14	2.60	66.0











External Stepper Motor Linear Actuator

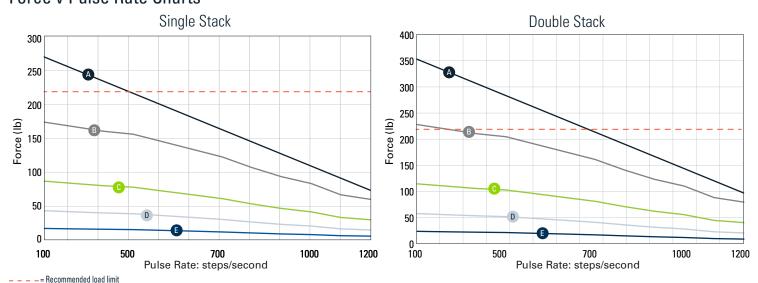


Screw Specifications

Screw	Dian	neter	Le	ad	Travel p	oer Step	
Code	in	mm	in	mm	in	mm	
037050	.375	9.53	.050	1.27	.00025	0.00635	
037062	.375	9.53	.0625	1.5875	.0003125	0.0079375	
037083	.375	9.53	.08334	2.117	.000417	0.010584	
037100	.375	9.53	.100	2.54	.0005	0.0127	В
037125	.375	9.53	.125	3.175	.000625	0.015875	
037166	.375	9.53	.16666	4.233	.000833	0.021166	
037196	.375	9.53	.19685	5	.00098	0.025	
037200	.375	9.53	.200	5.08	.001	0.0254	
037250	.375	9.53	.250	6.35	.00125	0.03175	C
037393	.375	9.53	.3937	10	.00197	0.050	D
037400	.375	9.53	.400	10.16	.002	0.0508	
037472	.375	9.53	.47244	12	.002362	0.060	
037590	.375	9.53	.59055	15	.002953	0.075	
037999	.375	9.53	1.000	25.4	.005	0.127	3
037M30	.375	9.53	1.1811	30	.005906	0.150	

Native units:
imperial

Force v Pulse Rate Charts



Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.

Don't see what you're looking for? Custom options available. Contact us for details.

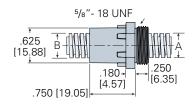


metric



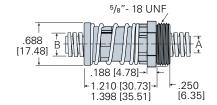
Standard Freewheeling Nut (NTA) - Threaded



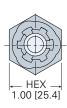


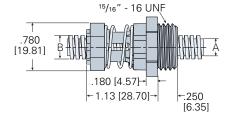
Axial Anti-backlash Nut (ATA) - Threaded





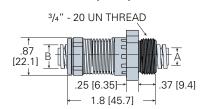
Radial Anti-backlash Nut (RTA) - Threaded



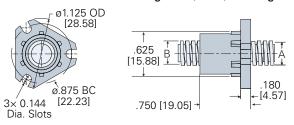


Torsional Anti-backlash Nut (KTA) - Threaded

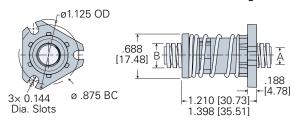




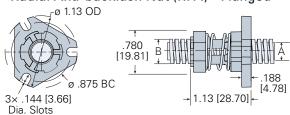
Standard Freewheeling Nut (NFA) - Flanged



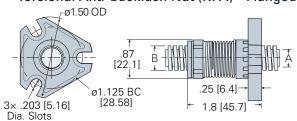
Axial Anti-backlash Nut (AFA) - Flanged



Radial Anti-backlash Nut (RFA) - Flanged



Torsional Anti-backlash Nut (KFA) - Flanged







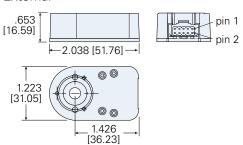


Accessories

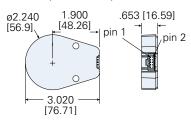


Encoder



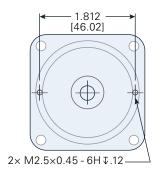


Non-Captive & Captive

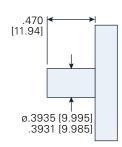


Encoder-Ready Options

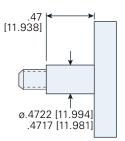
Rear View



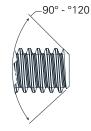
External

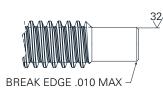


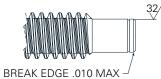
Non-Captive & Captive

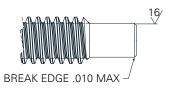


Screw End Machining

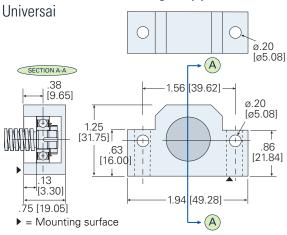




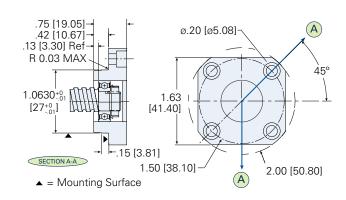




Ezze Mount™ Bearing Support

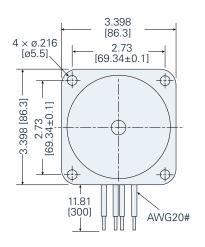


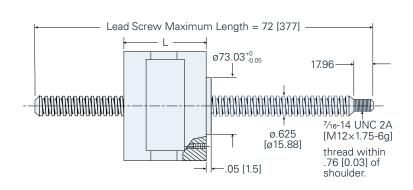
Flanged



Non-Captive Stepper Motor Linear Actuator

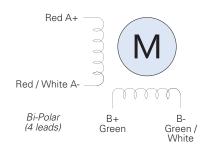






Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase		otor ight	Power Input	I	-
• Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
	2.85	5.47	.52	2.86	5.07	2.3	31.2	3.0929	78.560
Single Stack	5	3.12	1.6	8.8	5.07	2.3	31.2	3.0929	78.560
	12	1.3	9.23	51	5.07	2.3	31.2	3.0929	78.560











Non-Captive Stepper Motor Linear Actuator

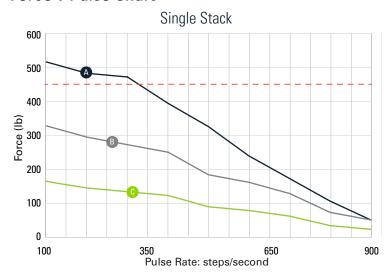


Screw Specifications

Screw	Diameter		Le	ad	Travel p	er Step	
Code	in	mm	in	mm	in	mm	
W62100	.625	15.88	.100	2.54	.0005	0.0127	A
W62250	.625	15.88	.250	6.35	.00125	0.03175	B
W62500	.625	15.88	.500	12.7	.0025	0.0635	C

Force v Pulse Chart

Native units: imperial



metric

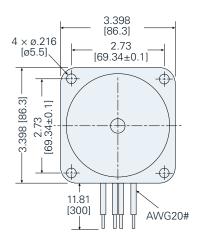
- -= Recommended load limit Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.

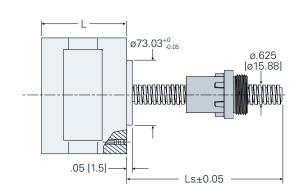




External Stepper Motor Linear Actuator

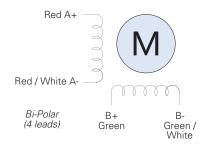


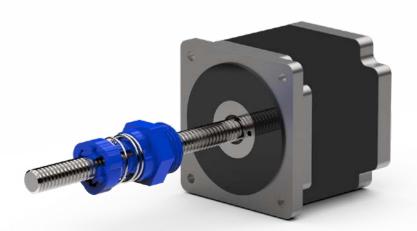




Motor Specifications

 Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ 	Voltage	Current	Resistance/ Phase	Inductance/ Phase	Motor Weight		Power Input	L	
Temperature Rise: 167°F (75°C)	V	А	Ω	mH	OZ	g	W	in	mm
	2.85	5.47	.52	2.86	5.07	2.3	31.2	3.0929	78.560
Single Stack	5	3.12	1.6	8.8	5.07	2.3	31.2	3.0929	78.560
	12	1.3	9.23	51	5.07	2.3	31.2	3.0929	78.560











External Stepper Motor Linear Actuator



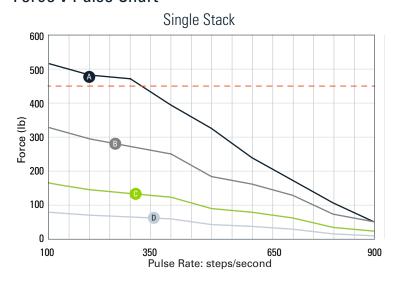
Screw Specifications

Screw	Dian	neter	Le	ad	Travel per Step		
Code	in	mm	in	mm	in	mm	
062100	.625	15.88	.100	2.54	.0005	0.0127	A
062250	.625	15.88	.250	6.35	.00125	0.03175	В
062500	.625	15.88	.500	12.7	.0025	0.0635	C
062750	.625	15.88	.750	19.05	.00375	0.09525	
062999	.625	15.88	1.000	25.4	.005	0.127	D

Native units: imperial

metric

Force v Pulse Chart



- - - = Recommended load limit

Speed charts are based on using bi-polar motors with chopper drives at 100% duty cycle. Chopper drive curves were created using full steps on a 5 volt motor and a 40v power supply.

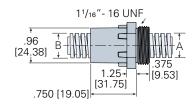


External - Nut Options



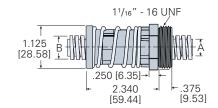
Standard Freewheeling Nut (NTA) - Threaded



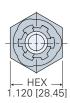


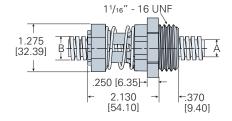
Axial Anti-backlash Nut (ATA) - Threaded



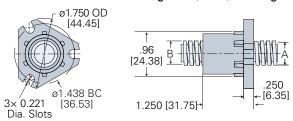


Radial Anti-backlash Nut (RTA) - Threaded

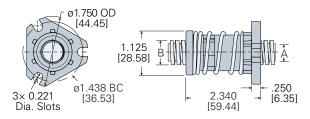




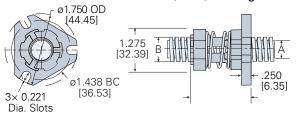
Standard Freewheeling Nut (NFA) - Flanged



Axial Anti-backlash Nut (AFA) - Flanged



Radial Anti-backlash Nut (RFA) - Flanged





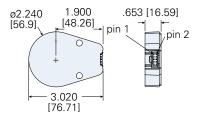




Accessories

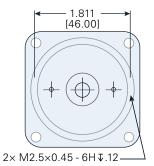


Encoder

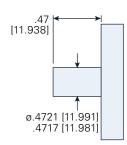


Encoder-Ready Options

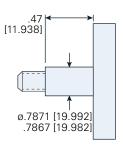
Rear View



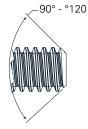
External

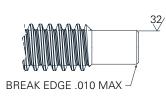


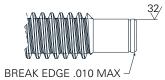
Non-Captive & Captive

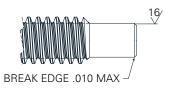


Screw End Machining

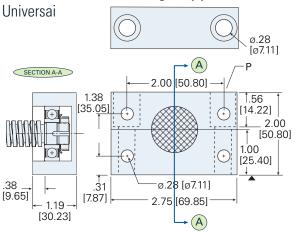




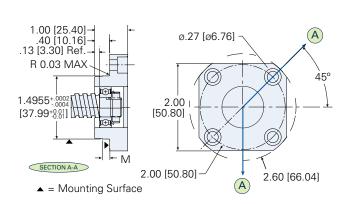




Ezze Mount™ Bearing Support



Flanged



Available Lead Screws

Captive and Non-Captive Stepper Motor Linear Actuators



L	ead	Travel pe	er Step						
in	mm	in	mm	NEMA 8	NEMA 11	NEMA 14	NEMA 17	NEMA 23	NEMA 34
.012	0.3048	.00006	.001524	W12012					
.01969	0.5	.000098	.0025	W12019					
.024	0.6096	.00012	.003048	W12024		W25024	W25024		
.025	0.635	.000125	.003175		W18025				
.03125	0.79375	.000156	.003969			W25031	W25031		
.03937	1	.000197	.005	W12039		W25039	W25039		
.048	1.2192	.00024	.006096	W12048		W25048	W25048		
.050	1.27	.00025	.00635		W18050	W25050	W25050	W37050	
.0625	1.5875	.000313	.007938			W25062	W25062	W37062	
.07874	2	.000394	.010	W12078					
.08334	2.1168	.000417	.010584					W37083	
.096	2.4384	.00048	.012192	W12096		W25096	W25096		
.100	2.54	.0005	.0127		W18100	W25100	W25100	W37100	W62100
.125	3.175	.000625	.015875			W25125	W25125	W37125	
.15748	4	.000787	.020	W12157					
.16666	4.2332	.000833	.021166					W37166	
.192	4.8768	.00096	.024384			W25192	W25192		
.200	5.08	.001	.0254		W18200			W37200	
.250	6.35	.00125	.03175			W25250	W25250	W37250	W62250
.31496	8	.001575	.040	W12314					
.384	9.7536	.00192	.048768			W25384	W25384		
.400	10.16	.002	.0508		W18400			W37400	
.500	12.7	.0025	.0635			W25500	W25500		W62500
1.000	25.4	.005	.127			W25999	W25999	W37999	

^{*} only available with External Stepper Motor Linear Actuators

Available Lead Screws

External Stepper Motor Linear Actuators



Le	ead	Travel pe	er Step						
in	mm	in	mm	NEMA 8	NEMA 11	NEMA 14	NEMA 17	NEMA 23	NEMA 34
.012	0.3048	.00006	.001524	012012					
.01969	0.5	.000098	.0025	012019					
.024	0.6096	.00012	.003048	012024		025024	025024		
.025	0.635	.000125	.003175		018025				
.03125	0.79375	.000156	.003969			025031	025031		
.03937	1	.000197	.005	012039		025039	025039		
.048	1.2192	.00024	.006096	012048		025048	025048		
.050	1.27	.00025	.00635		018050	025050	025050	037050	
.0625	1.5875	.000313	.007938	012062*		025062	025062	037062	
.07874	2	.000394	.010	012078					
.08334	2.1168	.000417	.010584					037083	
.096	2.4384	.00048	.012192	012096		025096	025096		
.100	2.54	.0005	.0127		018100	025100	025100	037100	062100
.125	3.175	.000625	.015875	012125*		025125	025125	037125	
.15748	4	.000787	.020	012157					
.16666	4.2332	.000833	.021166					037166	
.192	4.8768	.00096	.024384			025192	025192		
.19685	5	.000984	.025			025196*	025196*	037196*	
.200	5.08	.001	.0254		018200			037200	
.250	6.35	.00125	.03175			025250	025250	037250	062250
.31496	8	.001575	.040	012314					
.384	9.7536	.00192	.048768			025384	025384		
.3937	10	.001969	.050			025393*	025393*	037393*	
.400	10.16	.002	.0508		018400			037400	
.47244	12	.002362	.060					037472*	
.500	12.7	.0025	.0635			025500	025500		062500
.59055	15	.002953	.075					037590*	
.750	19.05	.00375	.09525			025750*	025750*		062750*
1.000	25.4	.005	.127			025999	025999	037999	062999*
1.1811	30	.005906	.150					037M30*	

Native units:

imperial

metric

^{*} only available with External Stepper Motor Linear Actuators