Linear Actuator Series 20000, Ø 20 mm (3/4")



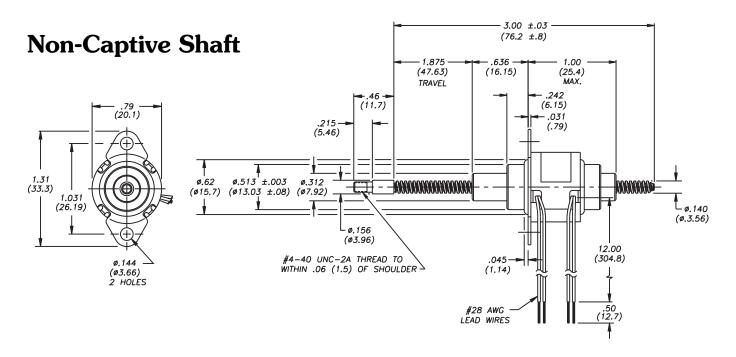
For production volume orders of 10,000 or more see Series Z20000.

Salient Characteristics

Ø 20 mm (.79") motor			
Wiring		Bipolar	
Part No.	Captive	2054X-V	
	Non-captive	2084X-V	
Step angle		15°	
Travel/Step avail.		.001"*, .002", .004"	
Operating voltage		5 VDC	12 VDC
Current/phase		270 mA	113 mA
Resistance/phase		18.5 Ω	106 Ω
Inductance/phase		5.5 mH	32 mH
Power consumption		2.7 W	
Rotor inertia		0.5 gcm ²	
Temperature rise		167°F (75°C)	
Weight		1 oz (28 g)	
Insulation resistance		20 MΩ	

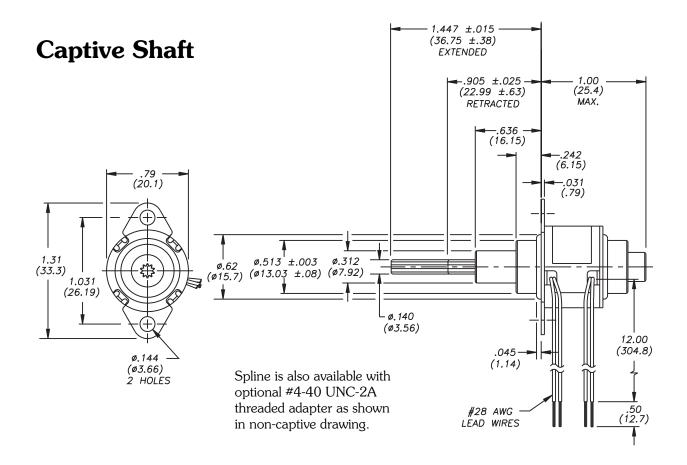
* Special drive considerations may be necessary when leaving shaft fully extended or fully retracted.

Linear Series 20000 Dimensional Drawings

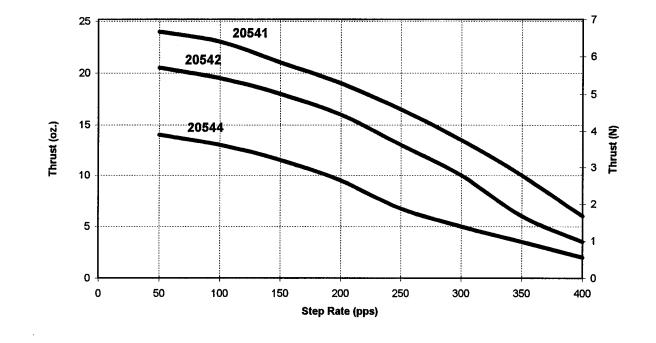


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Linear Series 20000 Dimensional Drawings



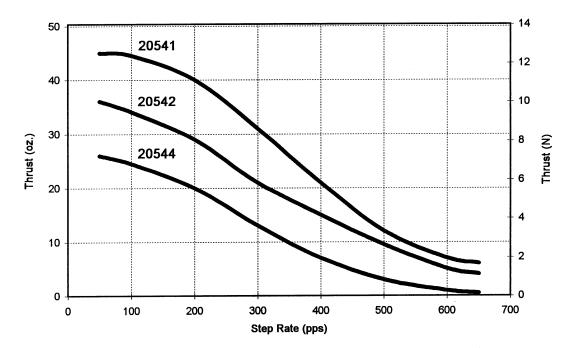
Linear Series 20000 Step Rate vs. Thrust Curves



Bipolar • L/R Drive • 100% Duty Cycle

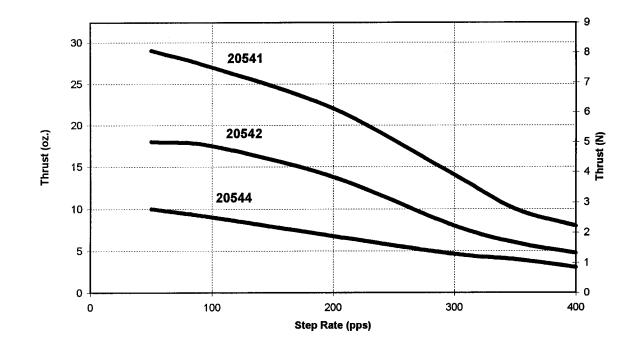
Bipolar • L/R Drive • 25% Duty Cycle

25% duty cycle is obtained by a special winding or by running a standard motor at double the rated voltage.



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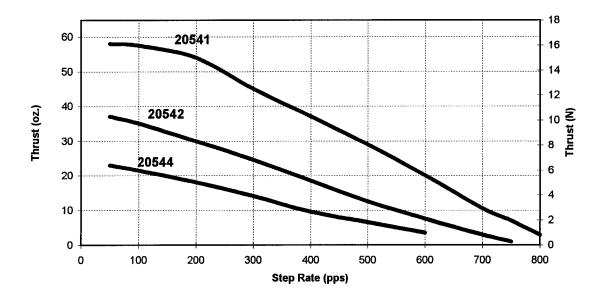
Linear Series 20000 Step Rate vs. Thrust Curves



Bipolar • Chopper Drive • 100% Duty Cycle

Bipolar • Chopper Drive • 25% Duty Cycle

25% duty cycle is obtained by running a standard motor at double the rated current.



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