

The G4 Can-Stacks from Haydon Kerk Motion Solutions are the industry's most robust and most powerful linear actuators. The G4 packs a high force in a small package.

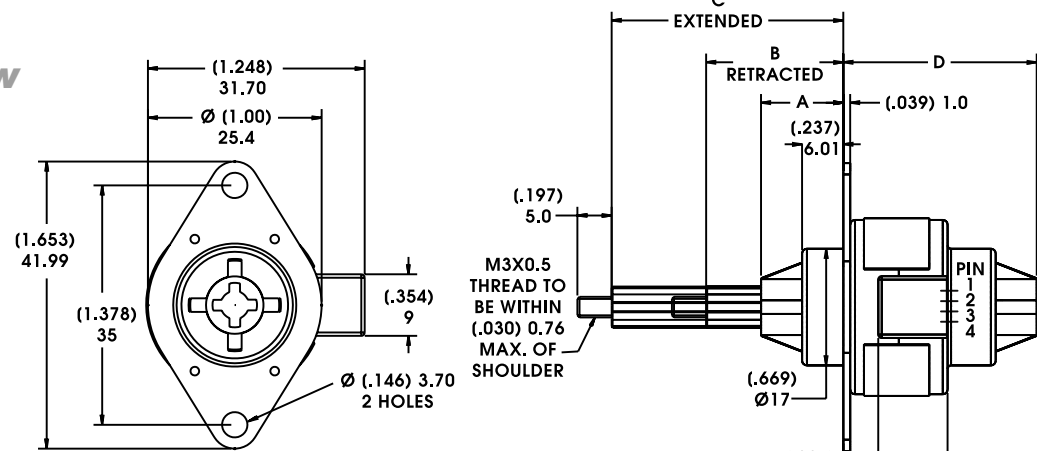
Salient Characteristics

Wiring	Bipolar			
Captive Part No.	2544X-V		2554X-V	
Non-captive Part No.	2534X-V		2584X-V	
External Part No.	E2544X-V		E2554X-V	
Step angle	7.5°		15°	
Operating voltage	5 VDC	12 VDC	5 VDC	12 VDC
Current / phase	385 mA	160 mA	385 mA	160 mA
Resistance / phase	13 Ω	72 Ω	13 Ω	72 Ω
Inductance / phase	10.6 mH	60 mH	8.08 mH	48 mH
Power consumption	3.85 W			
Rotor inertia	1.07 gcm ²			
Temperature rise	135°F Rise (75°C Rise)			
Weight	1.74 oz (49 g)			
Insulation resistance	20 MΩ			

Robust and powerful. These 2 simple words describe the Haydon™ 25000 Series Can-Stacks from Haydon Kerk Motion Solutions. Compared with previous generations from Haydon Kerk and current offerings from other linear actuator companies, the G4 25000 Series generates the highest force in a 25 mm (1 inch) package size. Designed for tough applications, it easily outperforms the competition in performance and durability.

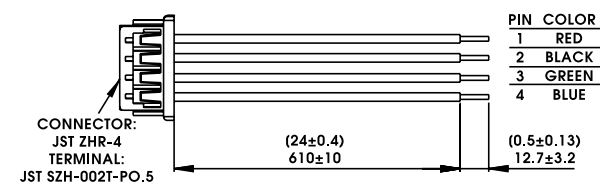
Step	Linear Travel/Step		Order Code I.D.
	inches	mm	
7.5° Angle	0.0005	0.013	3
	0.001	0.0254	1
	0.002	0.051	2
15° Angle	0.001	0.0254	1
	0.002	0.051	2
	0.004	0.102	4

G4 25000 Series: Captive Leadscrew



STROKE (Minimum)	FRONT SLEEVE A	RETRACTED B	EXTENDED C	REAR SLEEVE D	SUFFIX CODE
(.517) 13 mm	(.472±.010) 11.99±0.25	(.787±.025) 19.99±0.64	(1.329±.015) 33.76±0.38	(1.128 Max.) 28.65 Max.	- 913
(.708) 18 mm	(.680±.010) 17.28±0.25	(.994±.025) 25.25±0.64	(1.743±.015) 44.27±0.38	(1.336 Max.) 33.94 Max.	- 918
(.984) 25 mm	(.955±.010) 24.26±0.25	(1.269±.025) 32.23±0.64	(2.293±.015) 58.24±0.38	(1.611 Max.) 40.92 Max.	- 925
(1.22) 31 mm	(1.191±.010) 24.26±0.25	(1.505±.025) 38.23±0.64	(2.765±.015) 70.23±0.38	(1.847 Max.) 46.91 Max.	- 931

G4 25000 Series: Connector and Terminal



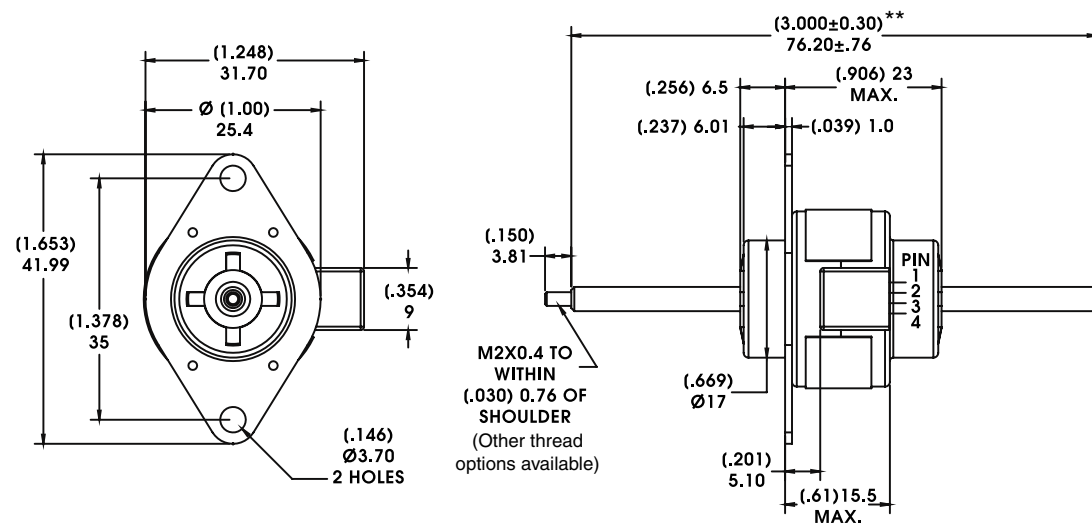
25000 Series Can-Stack Linear Actuators

G4

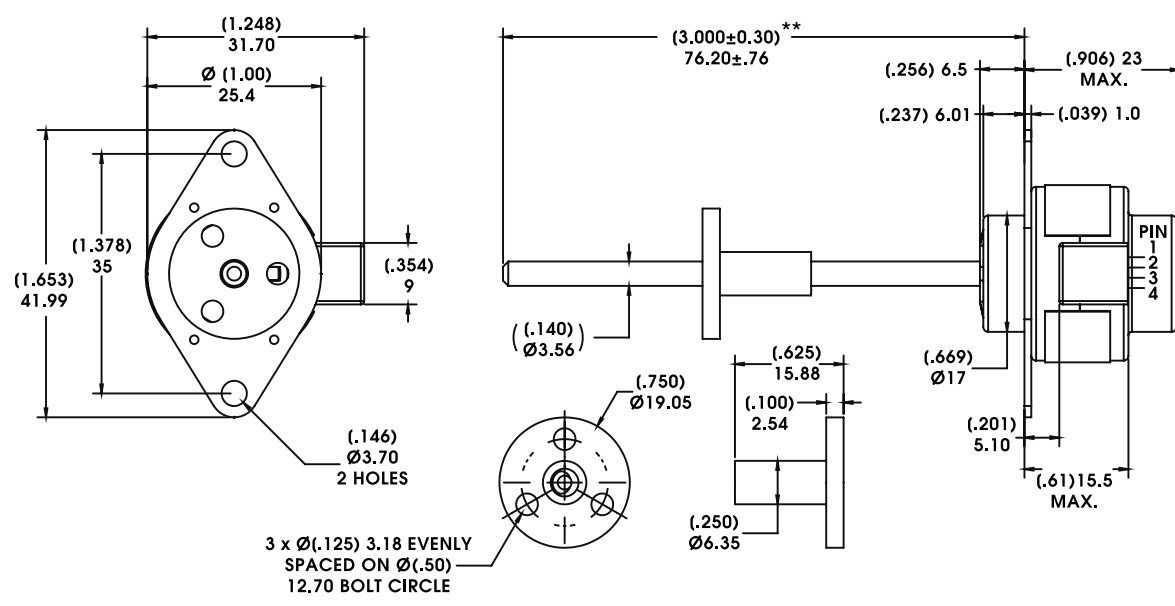
www.HaydonKerk.com



G4 25000 Series: Non-Captive Leadscrew



G4 25000 Series: External Linear Leadscrew



** Other stroke lengths available

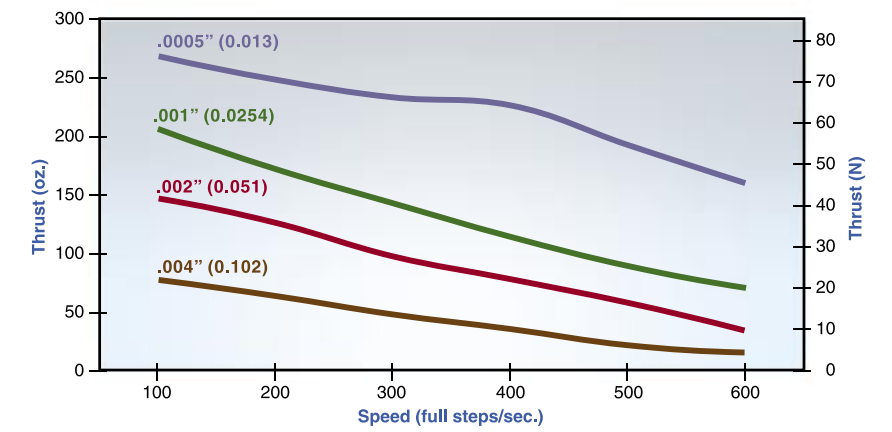
What Makes the G4 Better?

- Enhanced teeth geometry
- High energy neodymium magnets
- Optimized magnetic circuit design
- High-tech engineered polymers
- Oversized output spline (captive style)
- Larger ball bearings

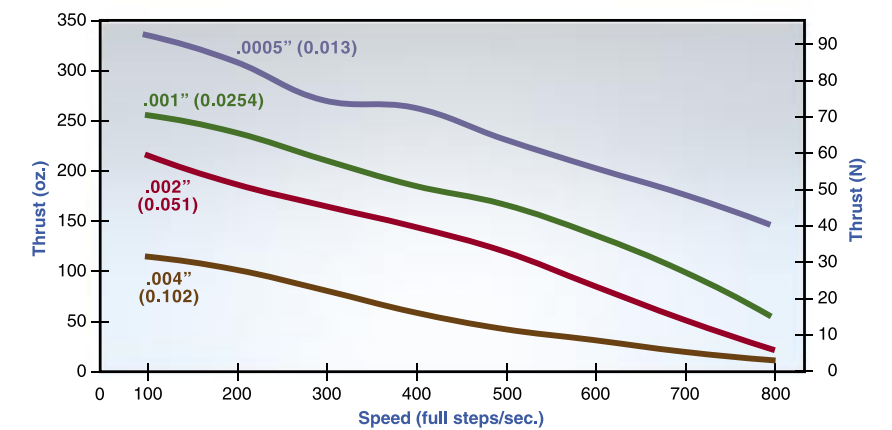
RESULTS...

- Higher output force
- Higher overall performance
- Enhanced reliability and durability

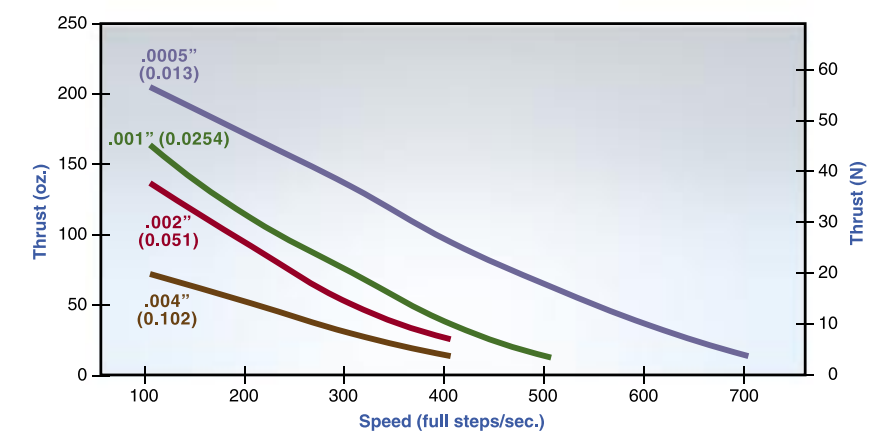
G4 25000 Series: Force vs. Linear Velocity 100% Duty • Chopper Drive



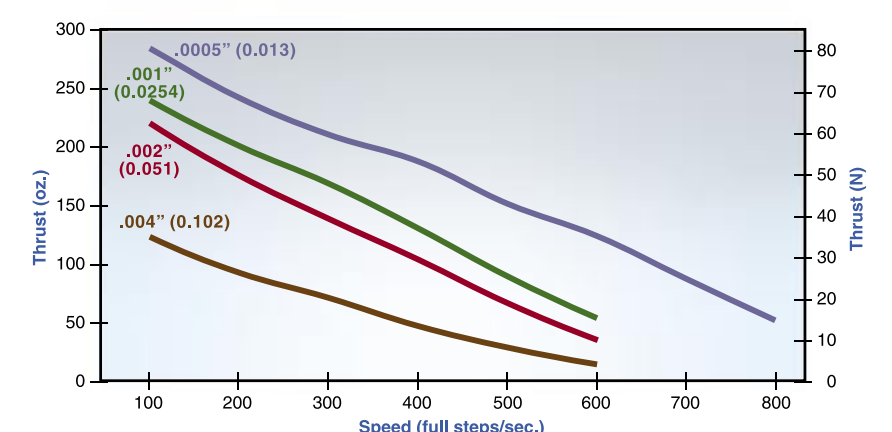
G4 25000 Series: Force vs. Linear Velocity 25% Duty • Chopper Drive



G4 25000 Series: Force vs. Linear Velocity 100% Duty • L/R Drive



G4 25000 Series: Force vs. Linear Velocity 25% Duty • L/R Drive

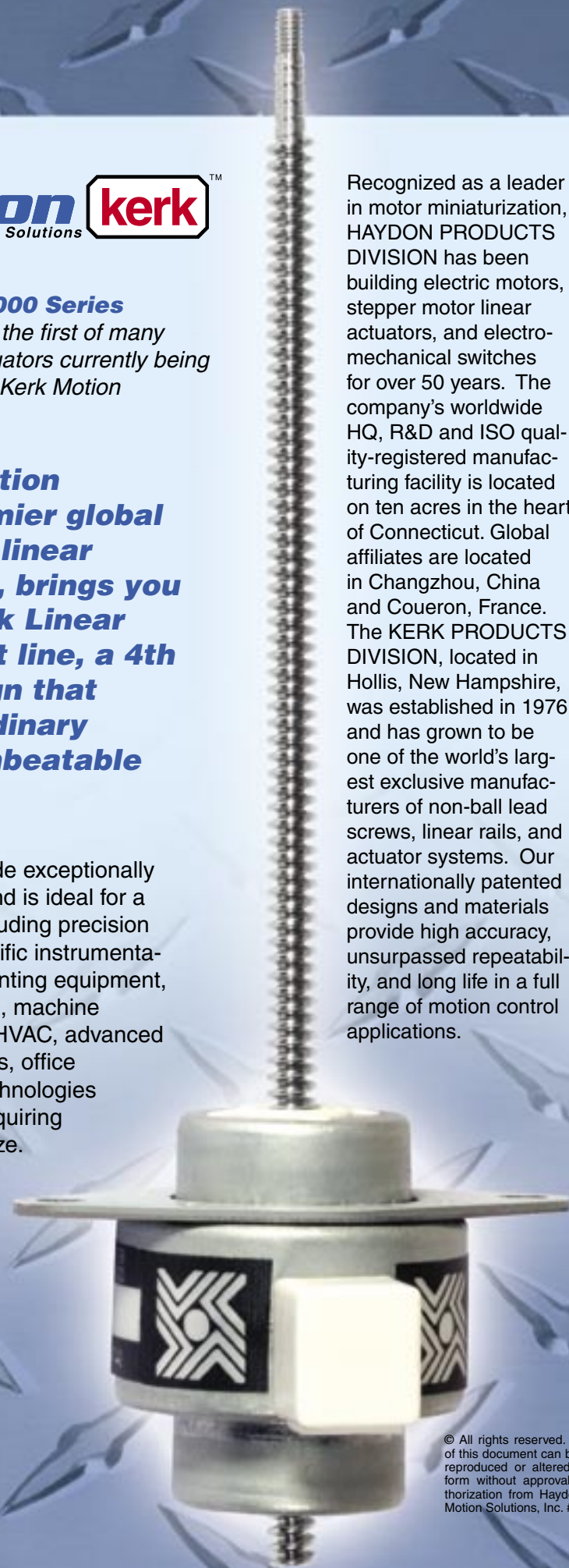




The **G4 Can-Stack 25000 Series** (25 mm diameter body) is the first of many new, innovative linear actuators currently being developed by the Haydon Kerk Motion Solutions.

Haydon Kerk Motion Solutions, a premier global manufacturer of linear motion products, brings you the G4 Can-Stack Linear Actuator product line, a 4th generation design that delivers extraordinary reliability and unbeatable performance.

The G4 Can-Stacks provide exceptionally high force-to-size ratios and is ideal for a variety of applications including precision medical equipment, scientific instrumentation, scanning devices, printing equipment, laboratory instrumentation, machine automation and robotics, HVAC, advanced optics and lighting systems, office equipment, aerospace technologies and other mechanisms requiring high force in a compact size.



Recognized as a leader in motor miniaturization, HAYDON PRODUCTS DIVISION has been building electric motors, stepper motor linear actuators, and electro-mechanical switches for over 50 years. The company's worldwide HQ, R&D and ISO quality-registered manufacturing facility is located on ten acres in the heart of Connecticut. Global affiliates are located in Changzhou, China and Coueron, France. The KERK PRODUCTS DIVISION, located in Hollis, New Hampshire, was established in 1976 and has grown to be one of the world's largest exclusive manufacturers of non-ball lead screws, linear rails, and actuator systems. Our internationally patented designs and materials provide high accuracy, unsurpassed repeatability, and long life in a full range of motion control applications.

© All rights reserved. No part of this document can be used, reproduced or altered in any form without approval or authorization from Haydon Kerk Motion Solutions, Inc. # ho1

Haydon Kerk Motion Solutions, Inc.
www.HaydonKerk.com
 Haydon Products Division
 1500 Meriden Road
 Waterbury, CT 06705
 Telephone: 203.756.7441
 info@HaydonKerk.com
 Kerk Products Division
 1 Kerk Drive
 Hollis, NH 03049
 Telephone: 603.465.7227
 info@HaydonKerk.com

Haydon Linear Motors Co., Ltd.
 Xianlong Industrial Park
 No. 110, Lane 4, Xinyuan Road
 New District, Changzhou, China 213031
 Telephone: 86-519-85113316
 Sales: 86-519-85123096
 info@HaydonKerk.com.cn

Haydon Motion Europe
 57 rue des Vignerons
 44220 Coueron - France
 Telephone: 33 2 40 92 87 51
 info-Europe@HaydonKerk.com



25000 Series Can-Stack Linear Actuators

**Robust and Powerful
 High Performance
 Extended Reliability**

**Advanced 4th Generation
 Technology from the
 World's Leading
 Manufacturer of
 High Precision Linear
 Stepper Motors**

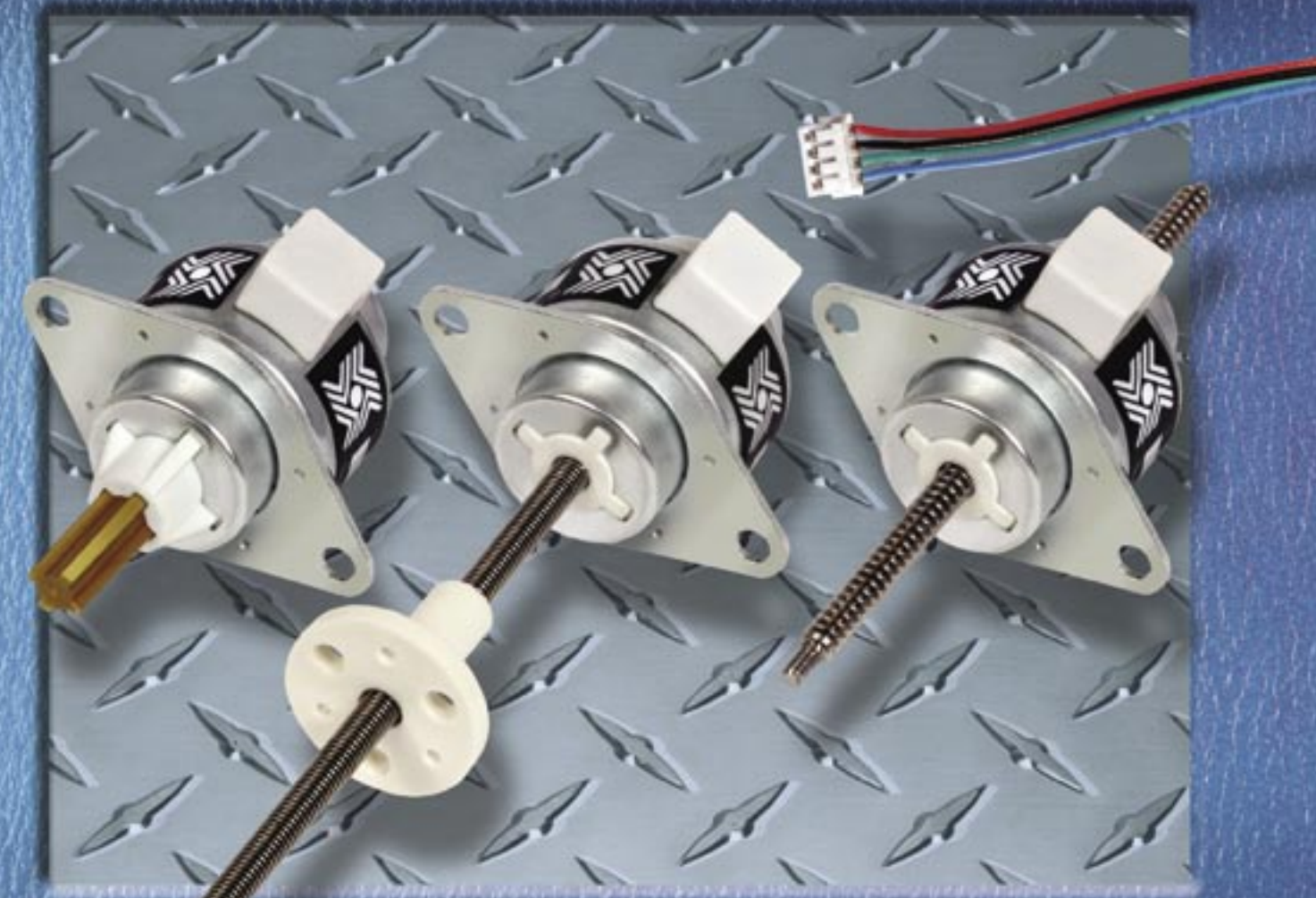


www.HaydonKerk.com



G4

25000 Series Can-Stack Linear Actuators



**Robust and Powerful
 High Performance
 Extended Reliability Stepper Motor**