ARTIMUS ROBOTICS

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C-Series Contracting HASEL Actuator

C-5015-06-08-B-ACAC-50-096

Key Metrics

Actuation Type	Contracting
Series	C-Series
Model Number	C-5015
Part Number	C-5015-06-08-B-ACAC-50-096
Actuator Stack Quantity	8
Pouches Per Actuator	6
Mounting	Rigid end-mount brackets
Weight	204g
Voltage Range	2kV – 8kV
Blocking Force	240N (@8kV, <1% Strain)
Free Stroke	7mm (@8kV)
Typical Lifetime	10^4 – 10^6 cycles

Available Accessories

- High voltage power supply
- Standalone control software
- Acrylic mounting stand
- 200g demonstration weight

Features

- Electrically controlled
- Direct linear analog motion
- Soft, compliant structure
- High bandwidth
- Intelligent self-sensing
- Cost-effective materials
- Silent operation
- Fast actuation speeds
- Compact size
- Lightweight and portable
- Modular
- Easily customizable

Customizable Characteristics: Actuator stack quantity (force), pouches per actuator (stroke), pouch dimensions, actuator dimensions, mounting, encapsulation

HASEL actuators are the first linear contracting actuators to operate using electrohydraulic principles. Designed and manufactured in Boulder, Colorado, HASEL actuators are used in multiple industries including **automotive, industrial automation, medical devices, aerospace, and defense**.

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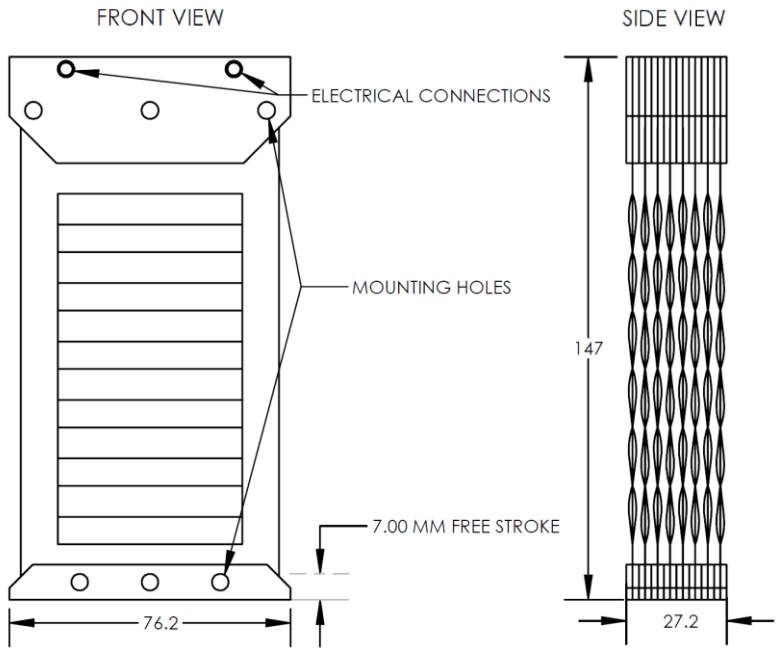
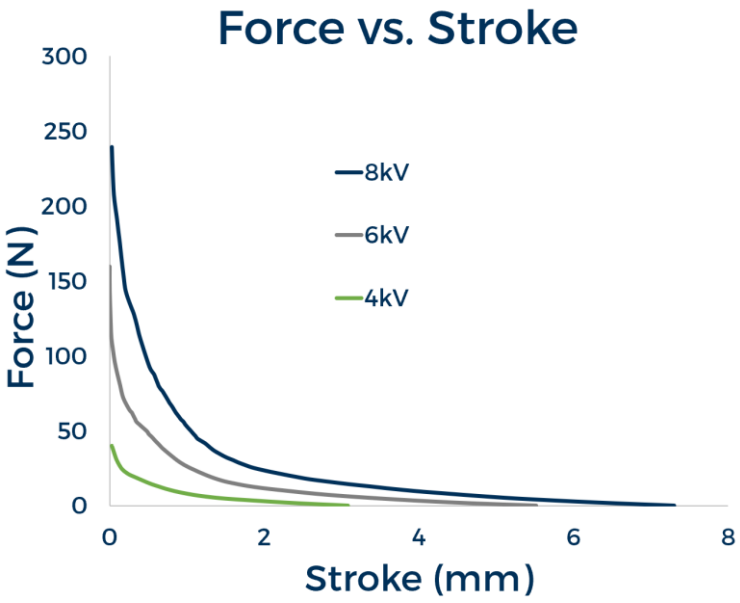
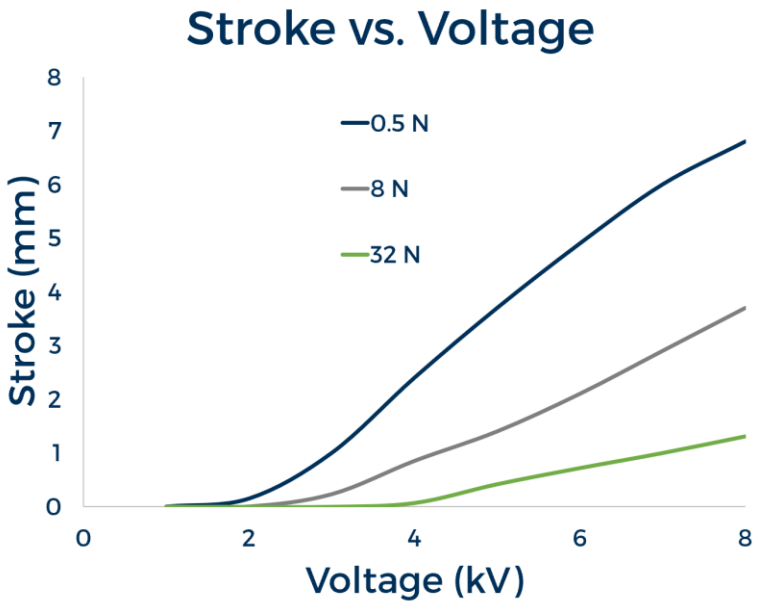


A stack of linearly contracting C-5015 actuators is held together with 5x M4 plastic bolts and 2x brass threaded rods. The threaded rods provide a means for external electrical connections. The number of actuators within the stack can be varied to suit the desired size or performance characteristics.

Typical Performance





Actuator **force** and **stroke** are controllable through input **voltage.**

Artimus Robotics specializes in engineering actuators and systems for challenging applications. Not sure if it's a fit for you? Fill out our **Application Assistant** so our engineers can evaluate and recommend a custom solution.

The information presented in this document is based on test results using custom electronics. It is believed to be accurate and reliable, but application conditions may adversely affect performance and lifetime. It is the responsibility of the user to determine suitability of the product for intended use.

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