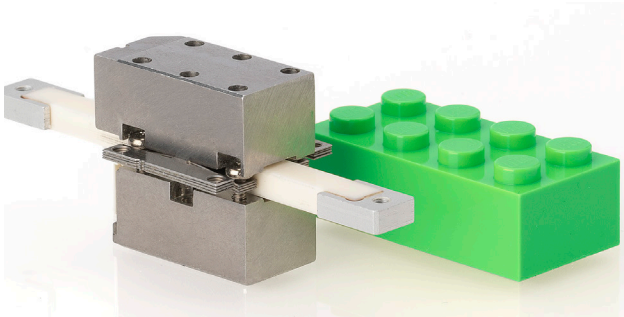




Acuvi LEGS® LT20C Piezo Linear Actuator



Key features

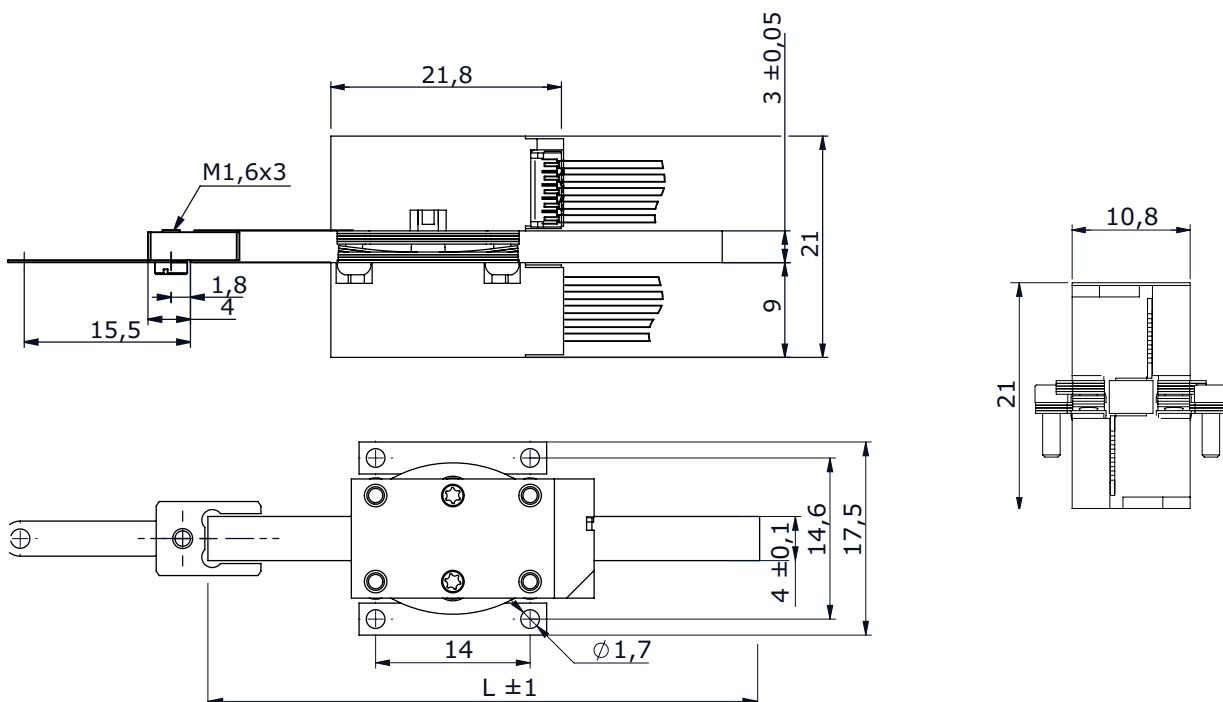
- Non-magnetic
- 20 N force
- Sub nanometer precision
- Direct drive and no backlash
- No power draw in hold position
- Unparalleled size to force ratio

Product Description

The LT20C linear motor is designed for a wide range of OEM applications in vacuum environments. The primary focus of the design is on ease of integration. The exceptional high-speed dynamics and nanometer resolution make it suitable for numerous applications. The motor is ideally suited for move and hold applications or for automatic adjustments.

In the hold position, the motor consumes no power. The drive technology is direct, eliminating the need for gears or lead screws to generate linear motion. The motor is free from mechanical play or backlash. Additionally, the LT20C linear motor is available in a standard version (A) and a non-magnetic vacuum-capable version (D).

Product Dimensions (mm)



Acuvi LEGS® LT20C Piezo Linear Actuator Specifications

| TYPE | NON-MAGNETIC (C) |
|-------------------------------------|---------------------|
| Maximum stroke | 74.5 mm |
| Maximum speed (driver dependent) | 24 mm/s |
| Minimum speed (driver dependent) | 1 nm/s |
| Max operating frequency | 3 kHz |
| Minimal incremental motion | 0.5 nm |
| Stall force | 20 N |
| Holding force | >20 N |
| Vacuum | No |
| Non-magnetic | Yes |
| Operating voltage | 42-48 V |
| Power consumption | 10 mW/Hz |
| Mechanical size L x H x D | 22 x 21.8 x 10.8 mm |
| Weight with 50 mm drive rod | 29 g |
| Material in motor housing | Arcap |
| Operating temperature (recommended) | -20 to +70°C |
| Storage temperature | -50 to 85°C |

All specifications are subject to change without notice. Latest data sheets are available on acuvi.com

Controllers

PMD301 1-axis micro-step driver/controller - max 3 kHz, RS485 or USB
PMD401 1-axis micro-step driver/controller - stackable PCB, max 1.5 kHz, RS485 or SPI

Accessories

Starter Kit PMD401 controller, motor cables, USB-to-RS485 cable, and power supply
Piezo Drive lab software downloadable from acuvi.com

