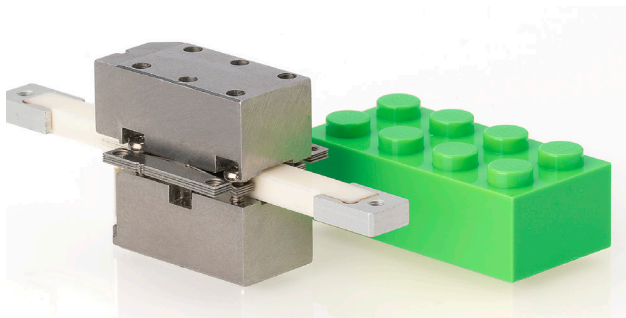




Acuvi LEGS[®] LT20D Piezo Linear Actuator



Key features

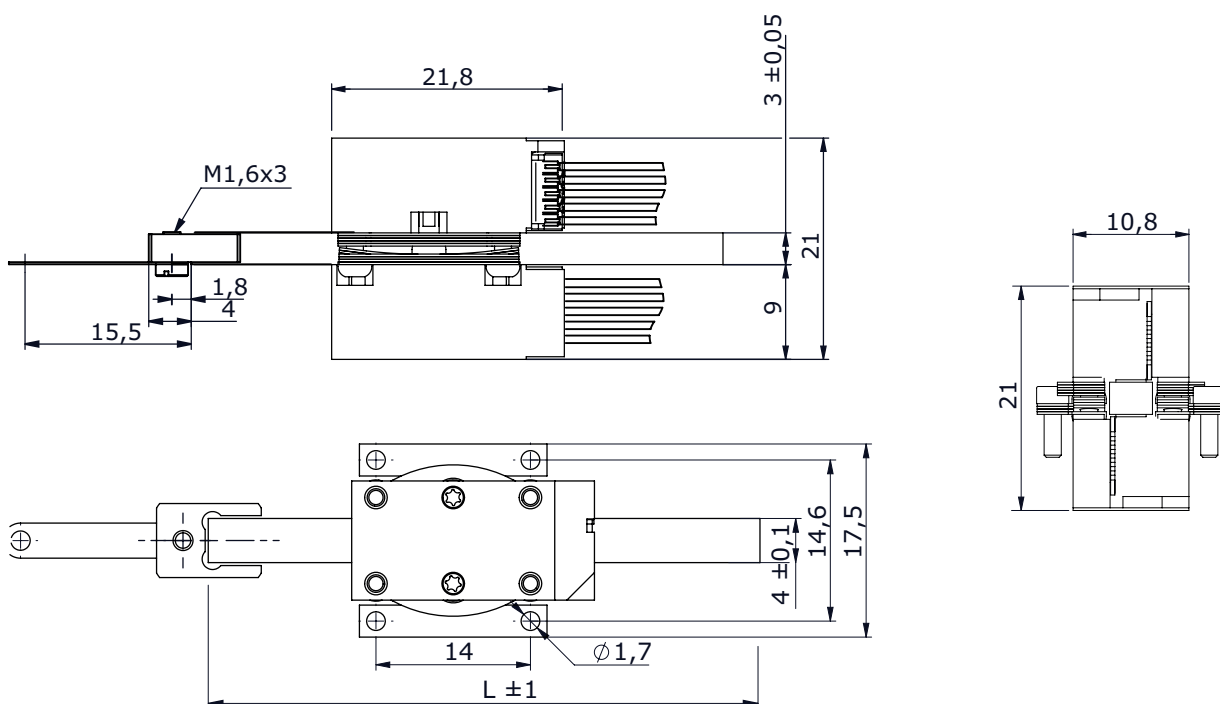
- Vacuum Capable and Non-Magnetic
- 20 N force
- Sub nanometer precision
- Direct drive and no backlash
- No power draw in hold position
- Unparalleled size to force ratio

Product Description

The LT20D linear motor is designed for a wide range of OEM applications in vacuum and magnetic environments. The design emphasis 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 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. The LT20D linear motor is also available in a standard version (A) and a stainless-steel vacuum-capable version (C).

Product Dimensions (mm)



Acuvi LEGS® LT20D Piezo Linear Actuator Specifications

TYPE	NON-MAGNETIC & VACUUM (D)
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	Yes
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

