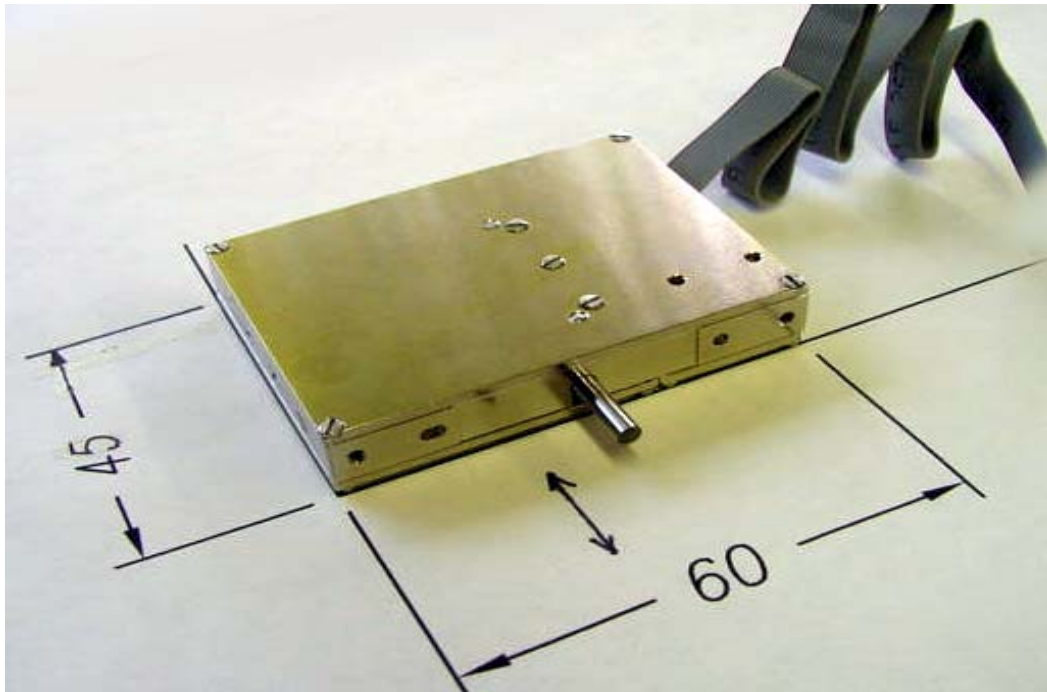




LAL10 Linear Actuator



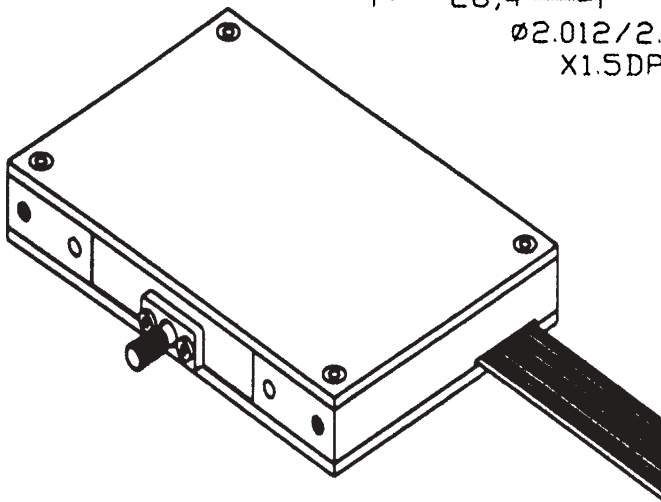
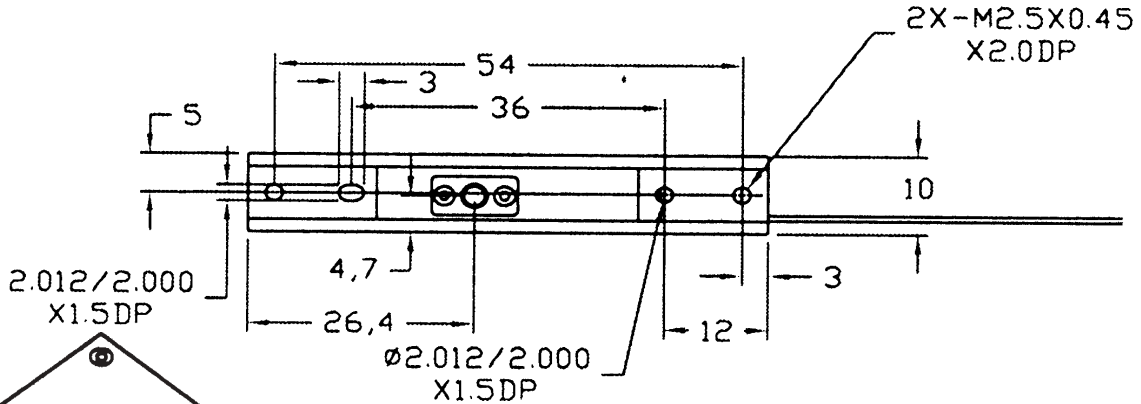
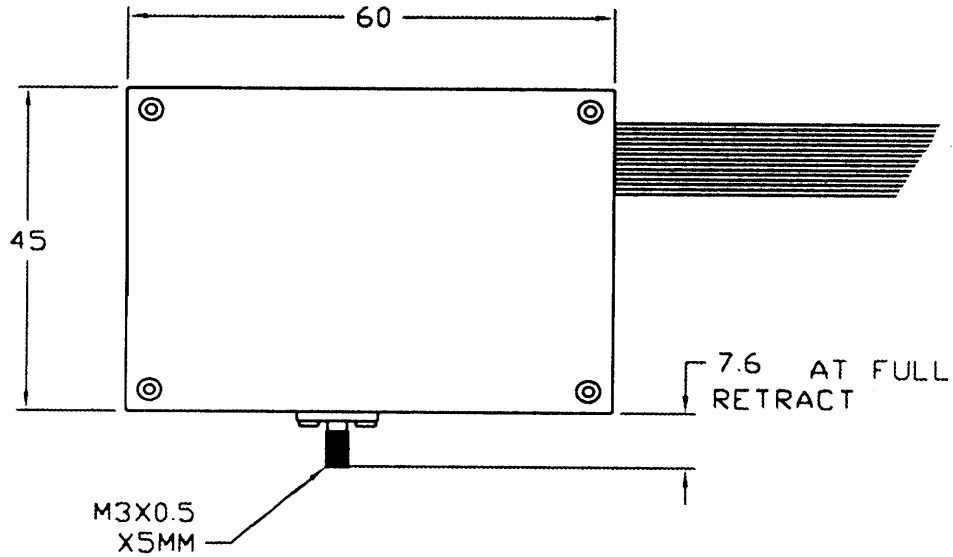
The LA10 series linear actuator has been designed specifically for applications where space is at a premium and as such it measures only 10mm x 60mm x 45mm. Despite its compact proportions it produces a peak force of 550 grams although the total weight is only 100grams. Stroke length is 5mm.

In line with all SMAC products the LAL10 uses the latest in voice coil technology, and its low moving mass coupled to zero backlash and low hysteresis provides the user with the capacity to perform very high speed moves within tightly defined performance envelopes. It can be controlled using either SMAC's proven range of controllers, or any other proprietary servo controller. As an alternative our Smart Driver is capable of converting stepper signals into servo movement wherever a stepper driven system is provided.

The closed loop nature of the system ensures that the position of the actuator is known at all times. Force, velocity and acceleration can all be programmed and monitored, so that the movement profile can be closely controlled and procedures such as "soft land" can be performed with ease.



LAL10 Specifications



LAL10	
Dimensions LxWxH	45mm x 60mm x 10mm
Stroke	5mm
Coil	24 VDC
Peak Force	550 grams
Force Constant	430 grams/amp
Total Weight	100 grams
Moving Mass	20 grams
Encoder Resolution	1 micron

SMAC Benefits

- Low profile construction
- Direct drive voice coil technology
- Force and position measurement
- Closed loop feedback
- Low moving mass = fast acceleration

