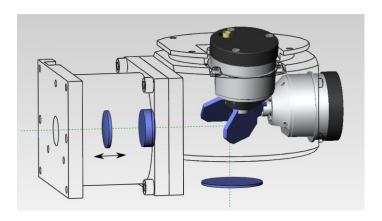


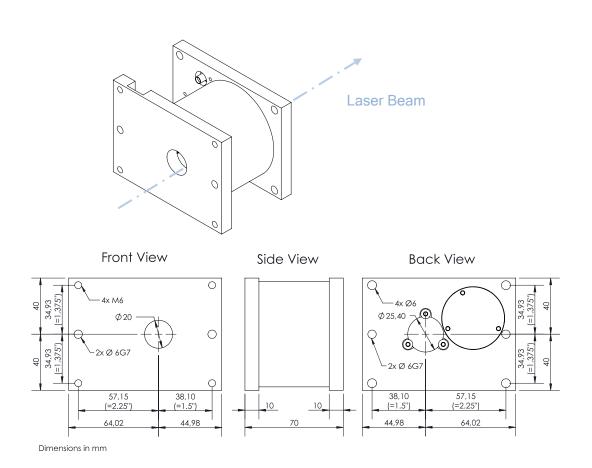
GENERAL

The Elevathor™ is a linear motor shifting a lens. This axis lens shifter allows changing working distance, field and spot size. The z-axis has a travel of 4 mm and a position accuracy of 65 nm. Combined with a rhothor™ deflection system this is a complete 3D deflection solution, allowing three dimensional laser tracking by controlling all axes simultaneously.





DIMENSIONS





GENERAL DATA

Elevathor[™] digital interface

Principle: moving coil
Regulator: digital 18 bit
Amplifier: class D
Position sensor: optical

Mechanical data

Dimension: 109 x 70 x 80 mm

Weight: 0.8 kg
Travel Range: 4 mm

Velocity: up to 0.4 m/sec
Bearing Type: spring bearing
Step width: about 65 nm

Cooling: air cooled, no water cooling required

Free opening: 20 mm

Moving Lens

Diameter: 25 mm, 15 mm, 1 inch or 0.5 inch

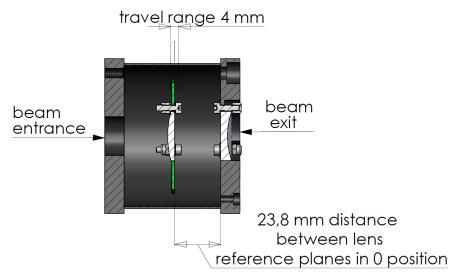
Edge Thickness: 2-5 mm

Fixed Lens

Diameter: 25 mm or 1 inch

Edge Thickness: 2-5 mm

Typical Lens Setup



Connector

A SMA coax connector is used for connection between motor and CUA controller. The Elevathor™ z-axis uses the SDP (Shared Data Power) protocol.