



Piezo LEGS® Goniometric Precision Stages



Key features

- 70.5 or 95.5 mm rotation-centre height
- $\pm 1^\circ$ angular travel
- 0.2 arcsec resolution
- ± 0.2 arcsec repeatability
- 2.4 or 3.6°/s maximum speed
- 2 kg load capacity

Product Description

The Piezo LEGS® Goniometric Precision Stage family provides controlled angular positioning around a defined centre of rotation.

Two models offer rotation-centre heights of 70.5 mm or 95.5 mm. Both provide $\pm 1^\circ$ angular travel, 0.2 arcsecond optical encoder resolution and ± 0.2 arcsecond positioning repeatability.

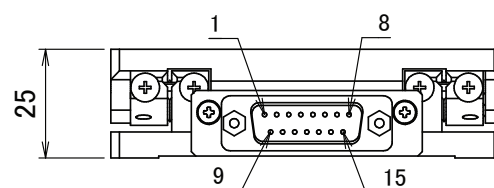
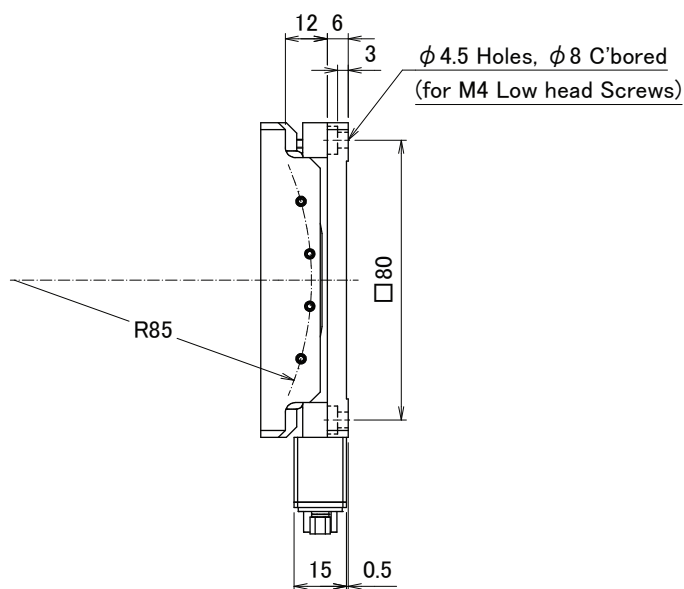
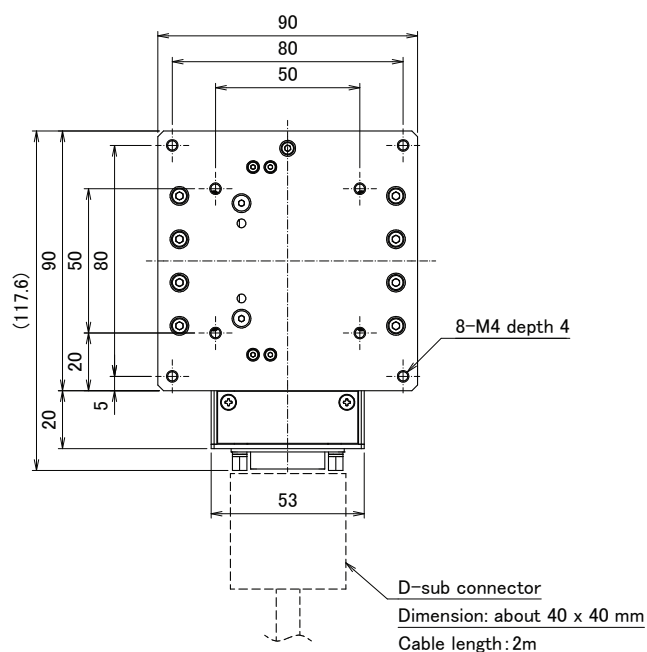
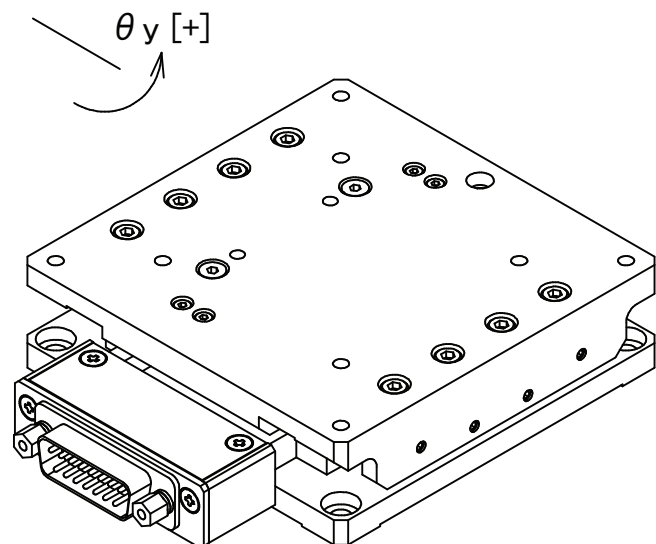
The defined rotation geometry allows an optical component, sample or analytical element to be tilted while maintaining alignment around the required point of interest. Piezo LEGS® direct-drive technology provides precise adjustment, reduced mechanical complexity and stable holding without continuous motor power.

Application:

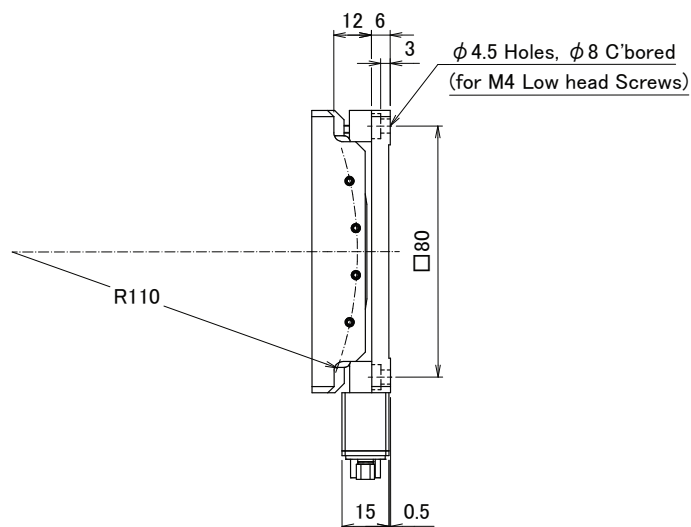
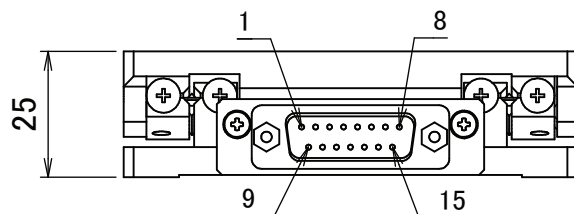
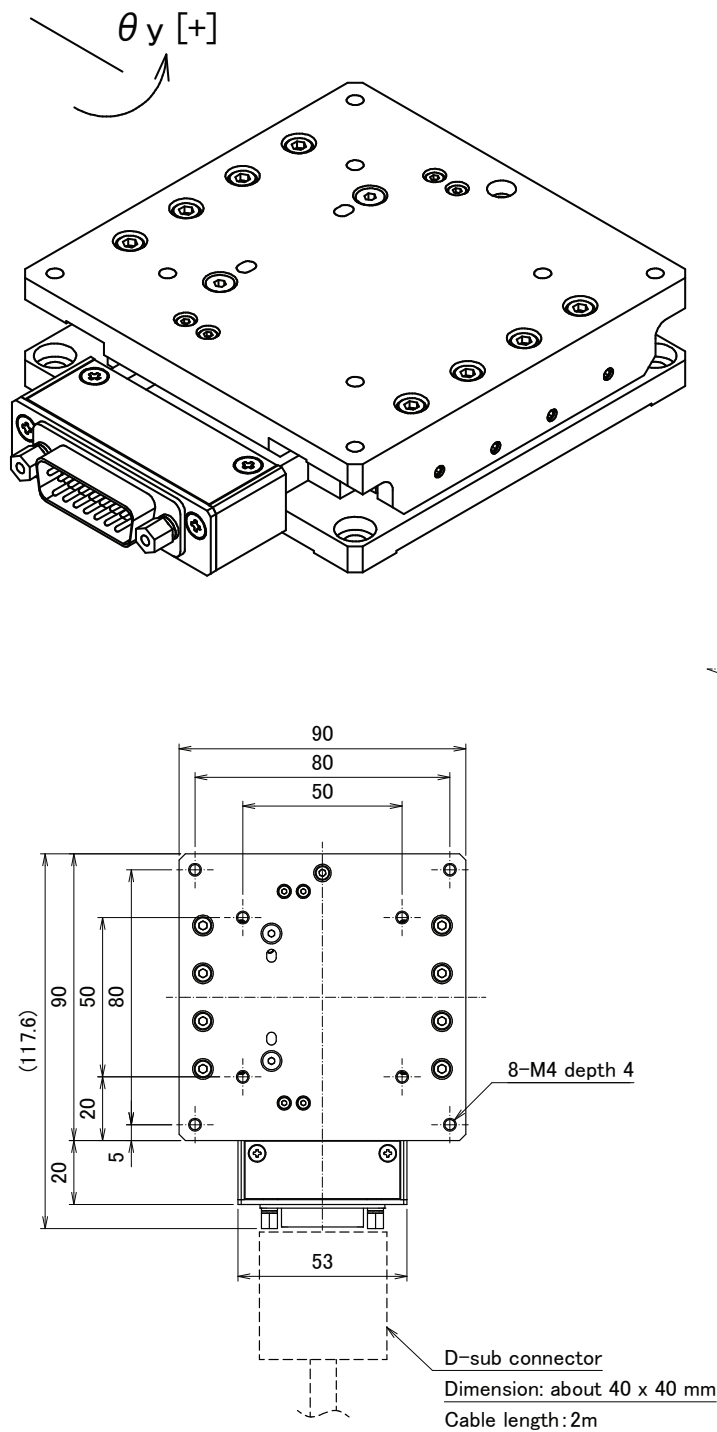
- Beamline and optical-axis alignment
- Mirror, prism and crystal orientation
- Detector and sample tilt adjustment
- Diffraction and spectroscopy instruments
- Precision angular metrology



External Dimensions LRGS-705-20-2-C-E40



External Dimensions LRGS-955-20-2-C-E40



Technical specifications

Model	Motion range	Stall force	Load	Max Speed	Weight
LRGS-705-20-2-C-E40	$\pm 1^\circ$ (2° total)	20 N actuator stall force	2 kg	3.6°/s	650 g
LRGS-955-20-2-C-E40	$\pm 1^\circ$ (2° total)	20 N actuator stall force	2 kg	3.6°/s	650 g

Shared platform specification

Specification	Family specification
Encoder resolution	0.2 arcsec
Positioning repeatability	± 0.2 arcsec
Body material	Aluminium
Recommended controller	PMSD401
Stage cable	CKS-20, 2 m; inclusion quantity to be confirmed