



Piezo LEGS® X-Axis Precision Stages



Key features

- 8, 16 or 25 mm total travel
- 6 N or 20 N stall-force classes
- 40 nm encoder resolution
- ± 40 nm repeatability
- Load capacity up to 3 kg
- Stable holding without continuous motor

Product Description

The Piezo LEGS® X-Axis Precision Stage family provides closed-loop, single-axis motion across three travel classes. Five models offer total travel ranges of 8, 16 or 25 mm, with a choice of 6 N or 20 N stall force depending on the selected platform.

All models combine 40 nm optical encoder resolution, ± 40 nm positioning repeatability and direct-drive mechanical holding. With no gears, spindles or conventional transmission components, the stages provide compact, precise and stable positioning with minimal mechanical complexity.

Application:

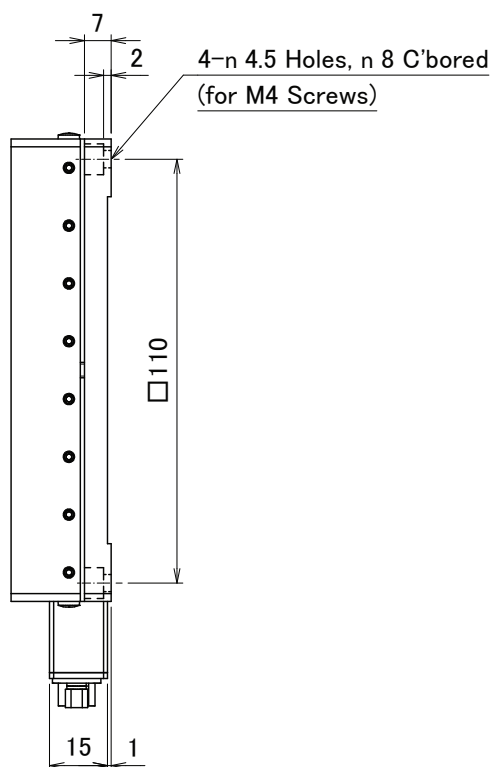
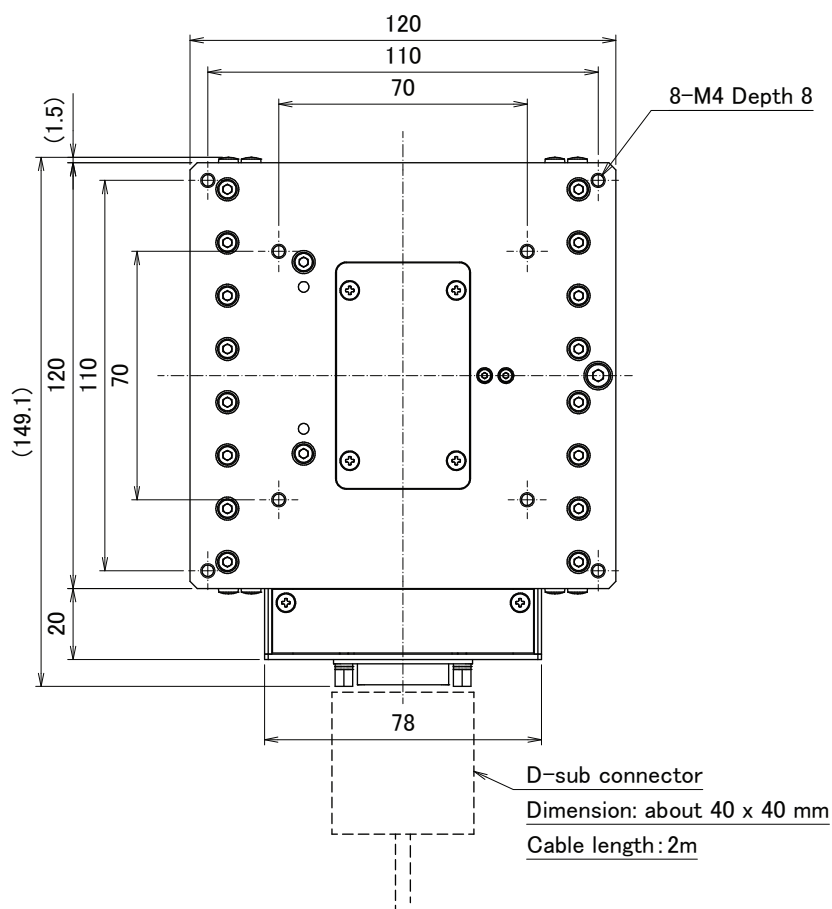
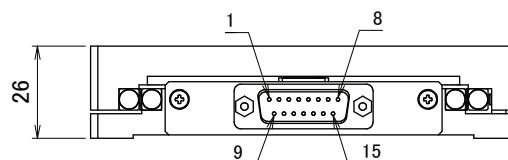
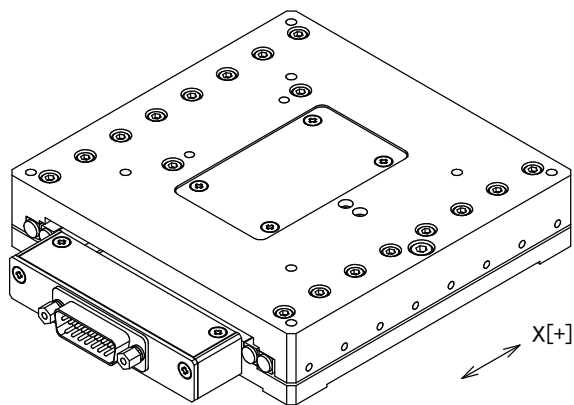
- Optical component and sensor alignment
- Laser alignment and beam positioning
- Precision scanning and mapping
- X-ray and analytical instrumentation
- Microscope sample or component positioning



External Dimensions

LLS-X-06-25-C-E40

LLS-X-20-25-C-E40



SWEDEN
Stationsgatan 14
SE-753 40 Uppsala

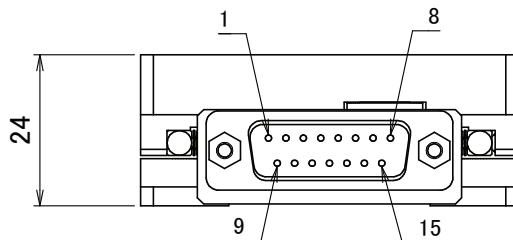
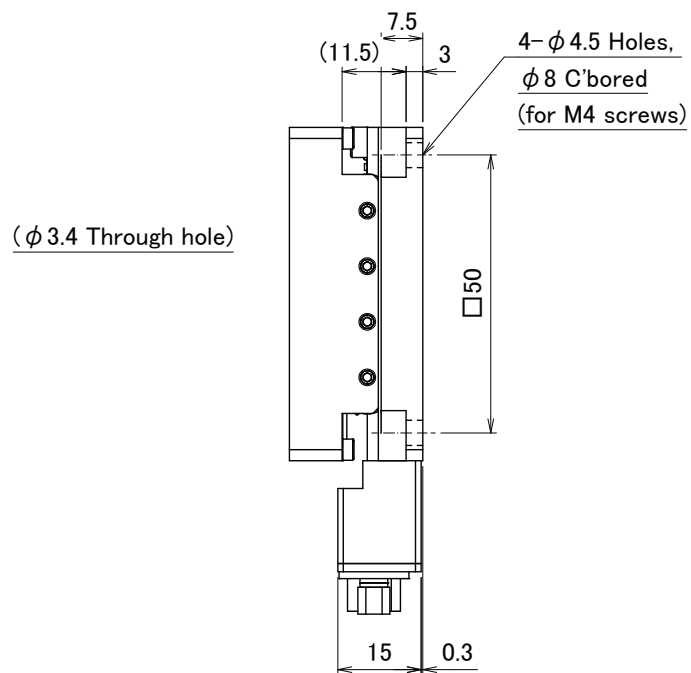
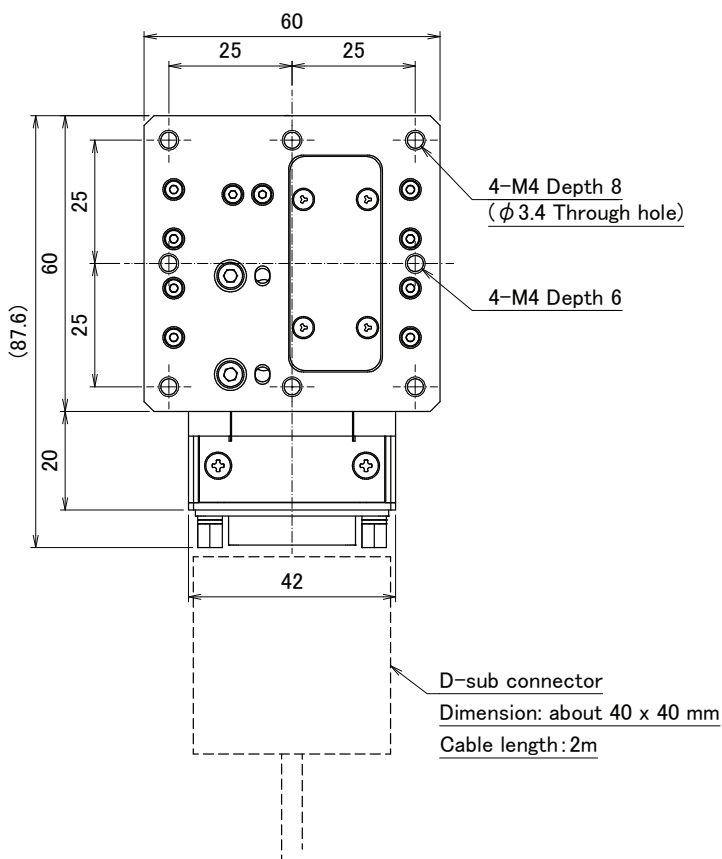
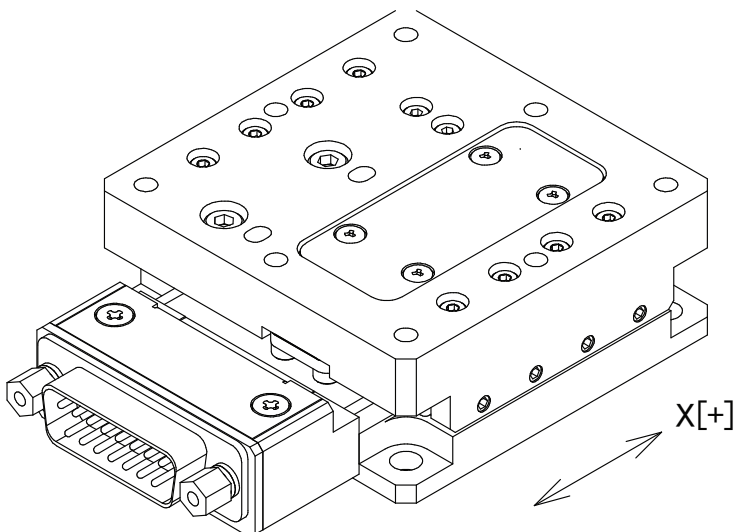
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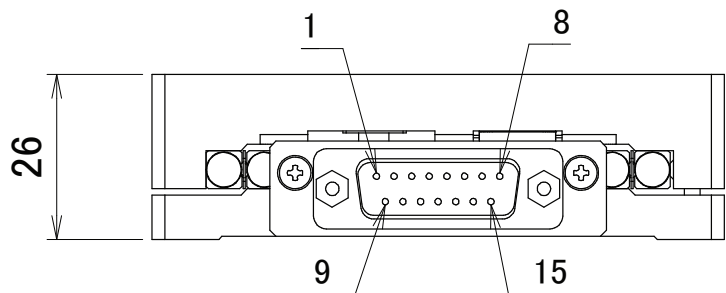
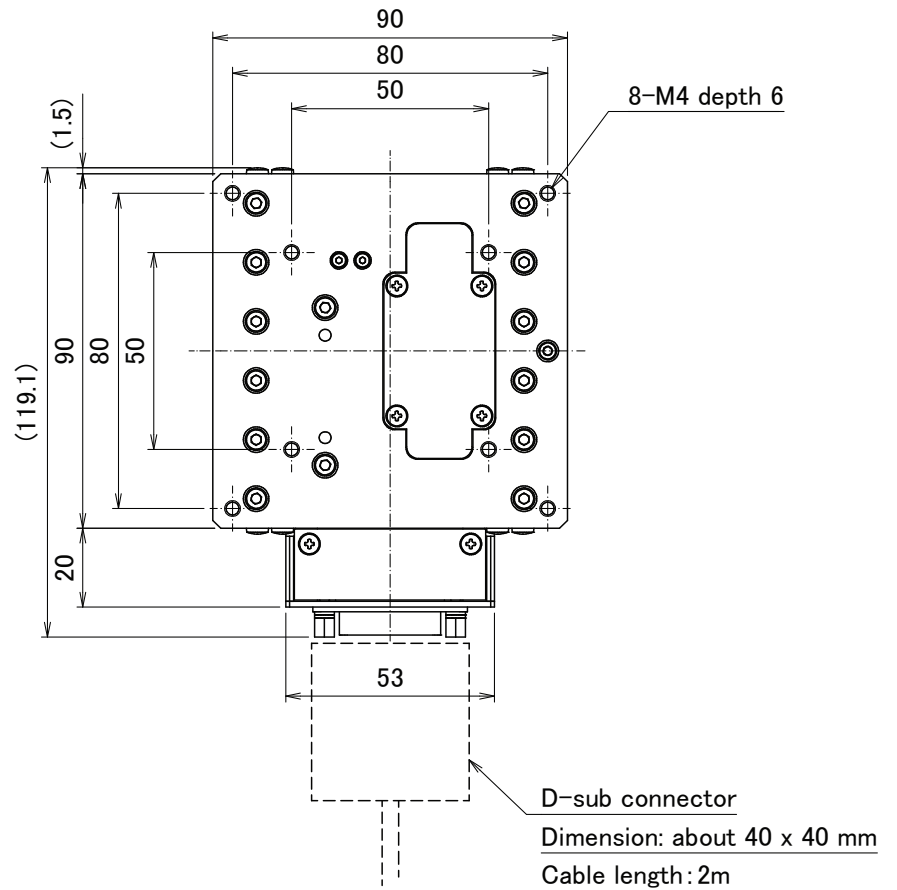
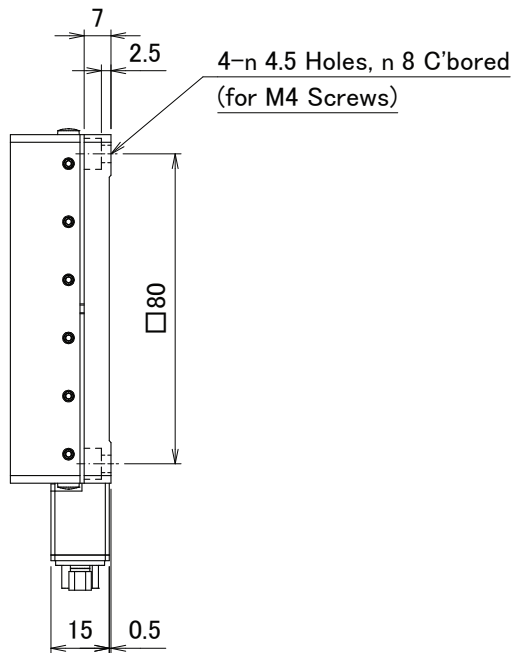
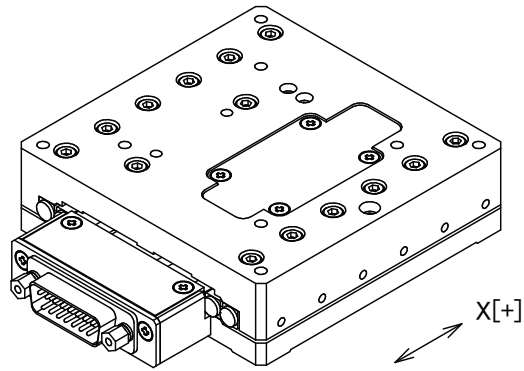
External Dimensions



External Dimensions

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Technical specifications

Model	Motion range	Stall force	Load	Max Speed	Weight
LLS-X-06-16-C-E40	±4 mm (8 mm total)	6 N	1 kg	5 mm/s	250 g
LLS-X-20-16-C-E40	±8 mm (16 mm total)	6 N	2 kg	5 mm/s	650 g
LLS-X-06-25-C-E40	±8 mm (16 mm total)	20 N	2 kg	5 mm/s	650 g
LLS-X-20-25-C-E40	±12.5 mm (25 mm total)	6 N	3 kg	5 mm/s	1.0 kg
LLS-X-06-25-C-E40	±8 mm (16 mm total)	20 N	3 kg	5 mm/s	1.0 kg

Shared platform specification

Specification	Family specification
Encoder resolution	40 nm
Positioning repeatability	±40 nm
Body material	Aluminium
Recommended controller	PMSD401
Stage cable	CKS-20, 2 m; inclusion quantity to be confirmed

