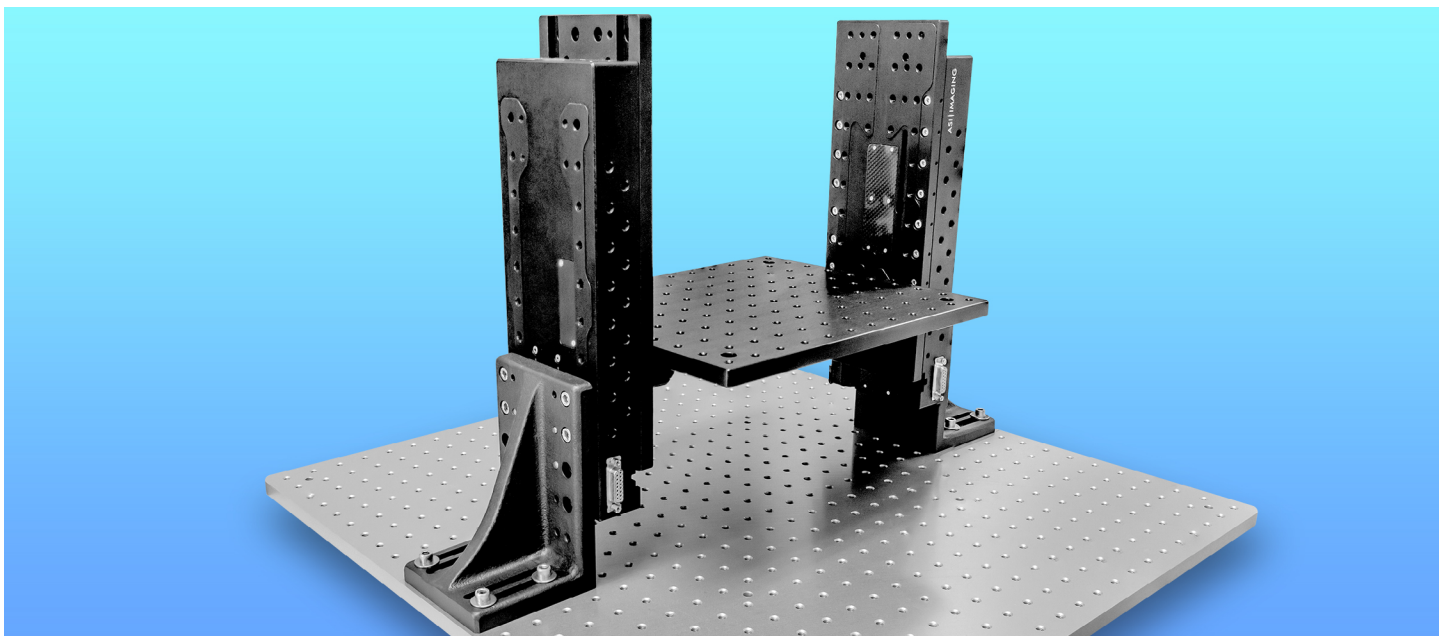




APPLIED SCIENTIFIC
INSTRUMENTATION

LS-100HVY Heavy Lift Stage



LS-100HVY

The LS-100 Heavy Lift Stage (LS-100HVY) is a new model of stage based on ASI's sub-micron accuracy LS linear stages. Designed for applications where speed and accuracy are needed for lifting heavy loads, a single LS-100HVY is capable of moving up to 10 kg with sub-micron accuracy at speeds up to 5.5 mm/s over a range of 100mm.

Configured with two LS-100-HVYs in tandem, weights of 20 kg can be lifted while maintaining speed and accuracy. With clamps to easily mount a breadboard between the two stages, a dual LS-100HVY system can easily lift entire microscope assemblies, very large samples, or whatever heavy lifting needs one might have.

As with all ASI motorized devices, the LS-100HVY can be controlled with simple serial commands or via micromanager; no proprietary software needed.

Specifications

Maximum recommended load (for single stage)	10 kg
Encoder resolution (8 TPI)	11 nm
RMS repeatability (8 TPI)	<0.7 μm
Leadscrew accuracy	0.25 $\mu\text{m}/\text{mm}$
Maximum velocity (8 TPI)	5.5 mm/s
Range of travel	100 mm
Length	300 mm (11.8")
Width	110 mm (4.33")
Height	50 mm (1.97")
Weight	3.8 kg (8.6 lb)