

GO Elevation Stage HV

Powerful & Precise

Vertical Motion

Nanometer Resolution Vertical Motion in Vacuum

The PRECIBEO GO Elevation Stage HV is built for high vacuum environments down to 10^{-4} Pa. Each stage is fitted with a vacuum side cable (PTFE coated wires in a braided metal sleeve) ended with a D9SUB connector, and comes with an air side D9SUB to ix-Industrial cable.

Connect the vacuum and air side cables to your D9SUB feedthrough, the air side ix-connector to the GO Controller, and you are ready to GO!



Technical Specification

MODEL	ELEVATION HV 5N	ELEVATION HV 10N
POSITIONING		
TRAVEL (Z)	+10 mm	
POSITION SENSOR	Optical Encoder	
SENSOR RESOLUTION	2 nm	
MIN INCREMENTAL MOTION	2 nm	
BIDIRECTIONAL REPEATABILITY	+/- 100 nm (typ. @ full travel)	
STRAIGHTNESS & FLATNESS	+/- 2 μ m (typ.)	
PITCH	+/- 150 μ rad (typ.)	
YAW	+/- 150 μ rad (typ.)	
MOTION		
MAX OPERATING FORCE (PUSH / PULL)	5 N (min.)	10 N (min.)
HOLDING FORCE (WHEN POWER IS OFF)	6 N (min.)	11 N (min.)
MAX SPEED (AT NO LOAD)	8 mm/s	8 mm/s
MAX SPEED (AT MAX OPERATING FORCE)	5 mm/s (min.)	1 mm/s (min.)
DRIVE TYPE		
MOTOR TYPE	Piezo Drive	
MECHANICAL		
MAX LOAD	0,5 kg	1 kg
GUIDE TYPE	Crossed Roller Bearings	
SIZE	45x45x38 mm	
WEIGHT (W/O CABLE & CONNECTOR)	160 g (+/-10%)	
MISCELLANEOUS		
VACUUM SIDE CABLE	0,5 m cable (+/-5%) with f. D9SUB connector	
AIR SIDE CABLE	2 m cable (+/-5%) with f. D9SUB & ix Industrial™ connectors	
MATERIAL	Aluminum	

Order Information

Please contact us by phone (+46 18 700 13 40) or email (sales@precibeo.com) for any enquiries.

PRODUCT	DESCRIPTION
GO-ELEHV-5N/10N	One GO Elevation Stage HV with vacuum & air side cables and 4 M2 screws for mounting.

Disclaimer: Specifications of the product do not constitute a warranty of the properties. They are intended for information purposes only and are subject to change.