

GO Stage HV

High Vacuum

Precision Motion

Nanometer Resolution Motion in High Vacuum

The PRECIBEO GO 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 female D9SUB connector. Each stage also comes with an air side female D9SUB to ix-Industrial cable.



Connect the vacuum side 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	45HV-5N	45HV-10N	65HV-5N	65HV-10N	85HV-5N	85HV-10N	
POSITIONING							
TRAVEL (X)	20 mm		35 mm		50 mm		
POSITION SENSOR	Optical						
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 (LIFT)	5 N	10 N	5 N	10 N	5 N	10 N	(min.)
HOLDING FORCE (@NO POWER)	6 N	11 N	6 N	11 N	6 N	11 N	(min.)
MAX SPEED (@NO LOAD)	8 mm/s	8 mm/s	8 mm/s	8 mm/s	8 mm/s	8 mm/s	
MAX SPEED (@MAX FORCE)	5 mm/s	1 mm/s	5 mm/s	1 mm/s	5 mm/s	1 mm/s	(min.)
DRIVE TYPE							
MOTOR TYPE	Piezo Drive						
MECHANICAL							
MAX LOAD	2 kg						
GUIDE TYPE	Crossed Roller Bearings						
SIZE	45x45x14 mm		65x45x14 mm		85x45x14 mm		
WEIGHT (W/O CABLE)	75 g (+-10%)		105 g (+-10%)		135 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-LS4545HV-5N/10N	One GO Stage LS4545 HV with vacuum & air side cables and 4 M2 screws for mounting.
GO-LS6545HV-5N/10N	One GO Stage LS6545 HV with vacuum & air side cables and 4 M2 screws for mounting.
GO-LS8545HV-5N/10N	One GO Stage LS8545 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.