

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^{-6} mbar. 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 (GO STAGE)	LLS4545 HV	LLS6545 HV	LLS8545 HV
POSITIONING			
TRAVEL (X)	20 mm	35 mm	50 mm
POSITION SENSOR	Optical Encoder		
SENSOR RESOLUTION	2 nm		
MIN INCREMENTAL MOTION	2 nm		
BIDIRECTIONAL REPEATABILITY	± 100 nm (typ. @ full travel)		
STRAIGHTNESS & FLATNESS	± 2 µm (typ.)		
PITCH	± 150 µrad (typ.)		
YAW	± 150 µrad (typ.)		
MOTION			
MAX OPERATING FORCE (PUSH / PULL)	5 N (min.)		
HOLDING FORCE (WHEN POWER IS OFF)	6 N (min.)		
MAX SPEED (AT NO LOAD)	8 mm/s		
MAX SPEED (AT MAX OPERATING FORCE)	5 mm/s (min.)		
DRIVE TYPE			
MOTOR TYPE	Piezo Drive		
MECHANICAL			
MAX LOAD (IN X,Y OR Z DIRECTION)	0,5 kg		
GUIDE TYPE	Crossed Roller		
SIZE	45x45x14 mm	65x45x14 mm	85x45x14 mm
WEIGHT (W/O CABLE & CONNECTOR)	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-LLS4545HV	One GO Stage HV LLS4545 with Cable and f. D9SUB Connector including: <ul style="list-style-type: none">Air side cable with f. D9SUB & ix Industrial™ connectors.4 M2 screws for mounting the stage to a substrate.
VM-LLS4545HV	One L-Bracket for vertical mounting of the stages, e.g. YZ-configuration, including: <ul style="list-style-type: none">8 M2 screws for mounting two stages to the L-Bracket.

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.