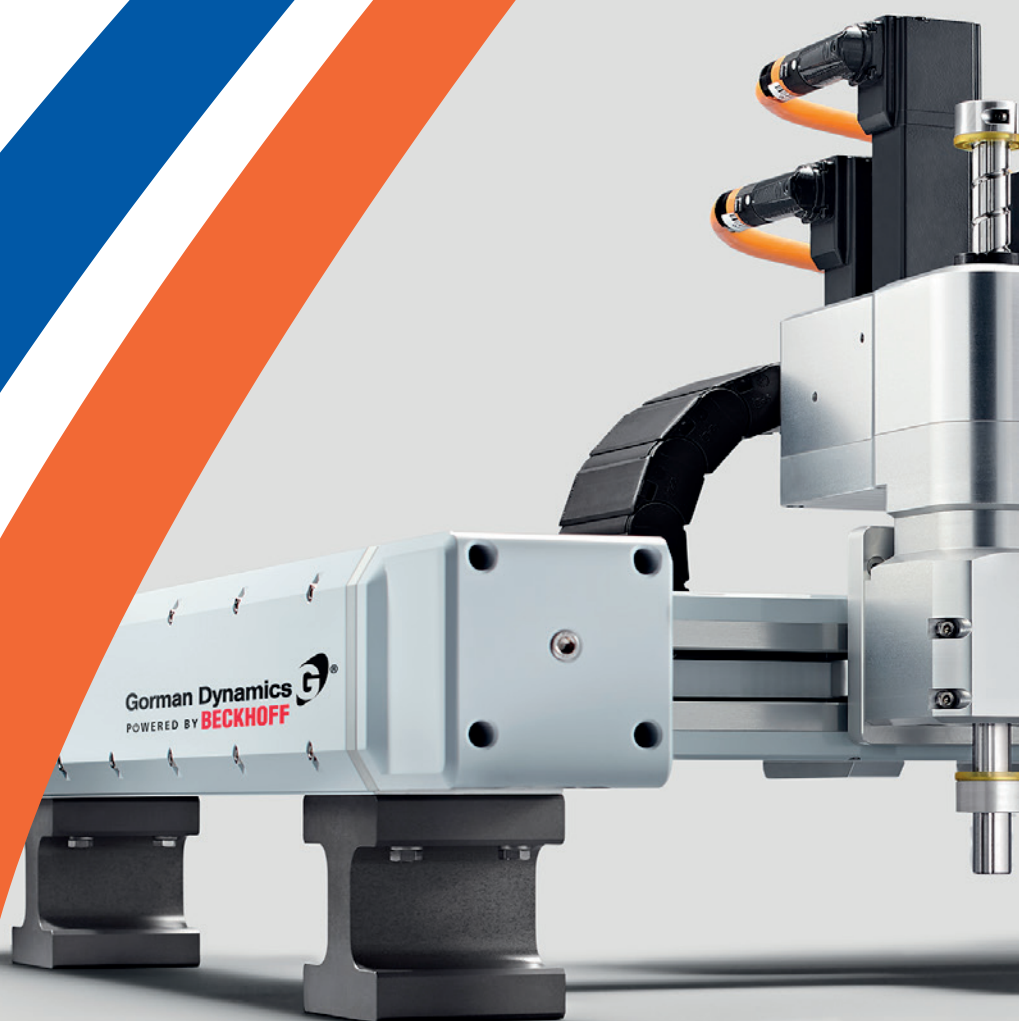


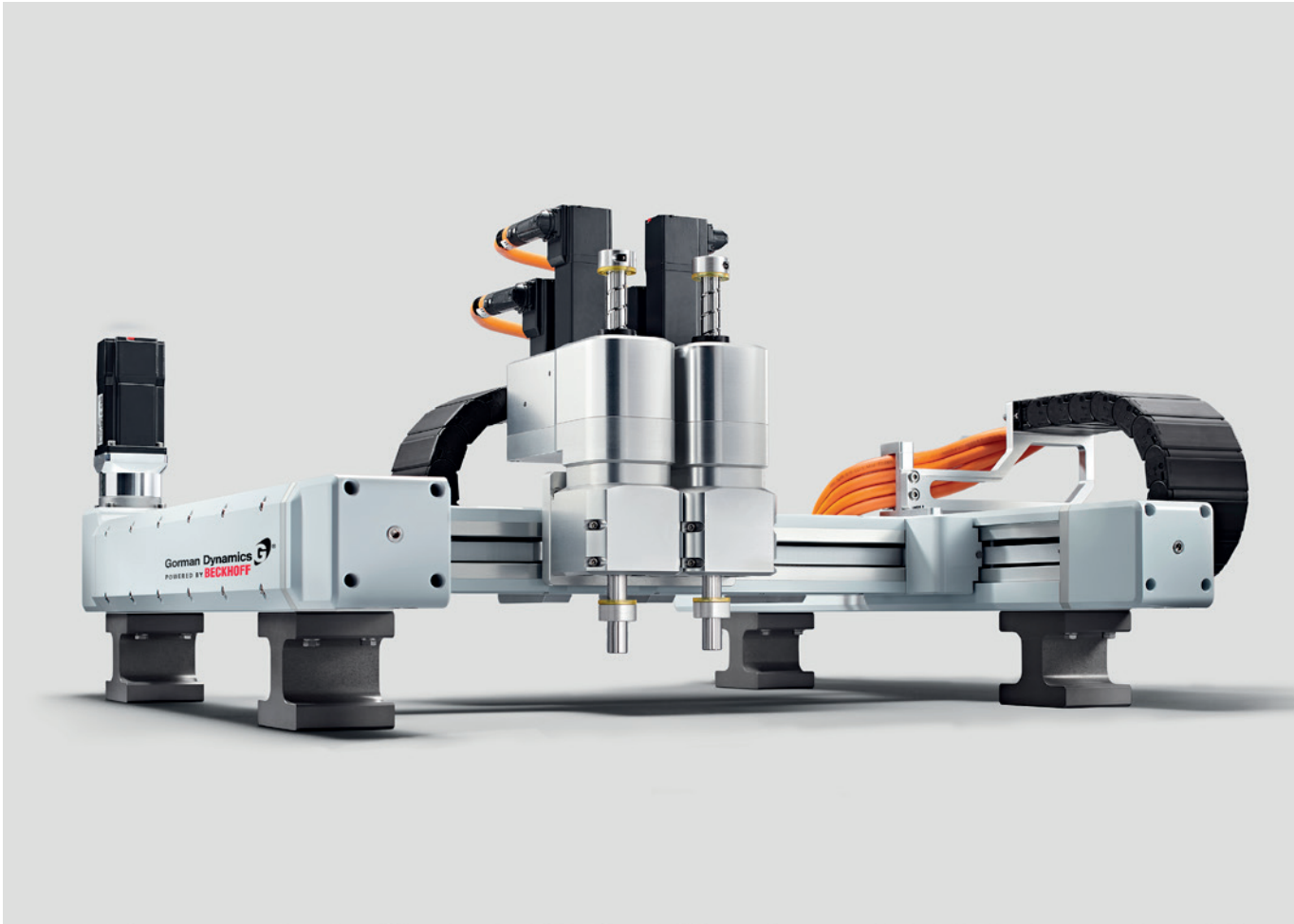
Product Technical Data Sheets

Planar Surface Gantry (HG60)



**Gorman
Dynamics**

INTELLIGENT AUTOMATION... YOUR PARTNER IN MOTION



Planar Surface Gantry (HG60)

Overview

The versatile HG60 Planar surface gantry is a robust handling system designed for large working areas and high loads of 12kg's.

Designed for a number of high-speed machine application with speeds of 1.2m/s while maintaining production quality with an accuracy of 0.005mm

Ready to use gantry with a unique plug and play experience greatly reducing programming and commission times.

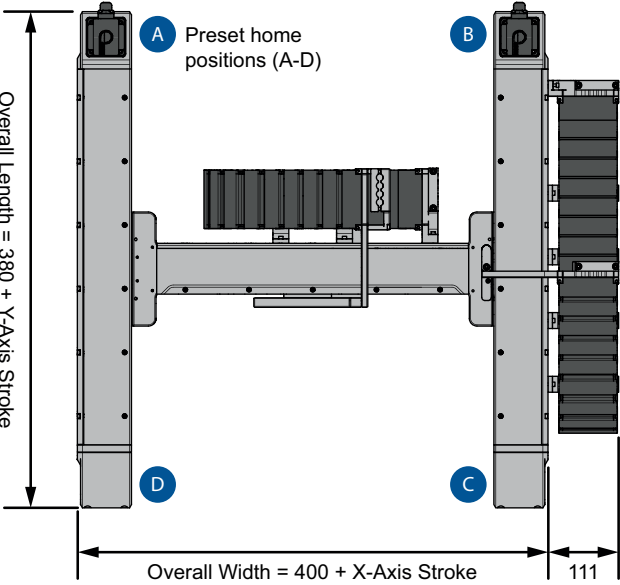
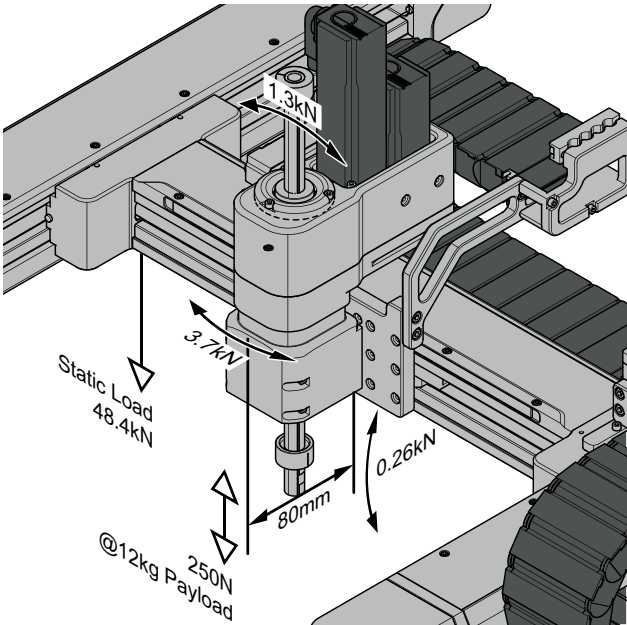
Key Features

- Designed for high precision, high load, continuous operation with highly accurate positional repeatability.
- Multi-turn absolute encoders.
- 4 preset (A/B/C/D), or fully user configurable home positions.
- Mounting design allows optional modules to be fitted in various configurations to suit a wide range of applications.
- Supports up to 4 additional servo-driven modules as standard, expandable to 54 additional drives in total.
- Fully programmable control via supplied Easy Teach Software. All units are supplied pre-tuned.
- Zero-maintenance bearings and easy-change drive belts.
- 100% Duty Cycle.

Specifications

HG60	STROKE	STROKE	BRAKE
	100 – 1200 – X Stroke (mm)	100 – 1200 – Y Stroke (mm)	S – No Brake B – With Brake

EXAMPLES	1200mm X-Stroke, 800mm Y-Stroke with brake
HG60-1200-800-B	

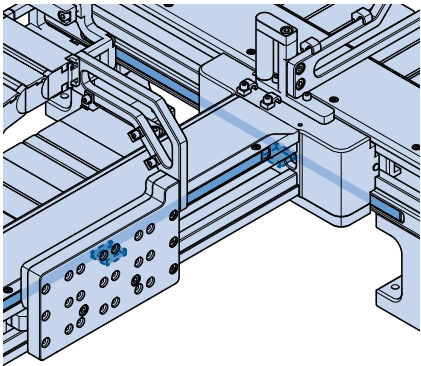


DRIVE TYPE	Twin servo motor belt drive	MAXIMUM PAYLOAD (kg)	20
ENCODER TYPE	Multi-turn absolute	MAXIMUM HORIZONTAL ACCELERATION (m/s ²)	12
X & Y-AXIS STROKE (mm)	100-1200* in increments of 100	MAXIMUM HORIZONTAL SPEED (m/s)	1.8
MASS (g)	= (13.224 x (X stroke in mm)) + (29.706 x (Y stroke in mm)) + 15551.03	POSITIONAL REPEATABILITY (mm)	± 0.005

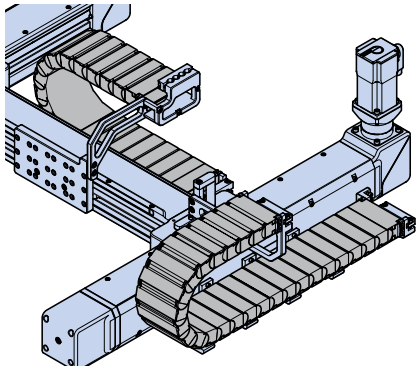
* An additional 3mm over-travel is available on each axis, unlockable via software.

Incorporated Technology

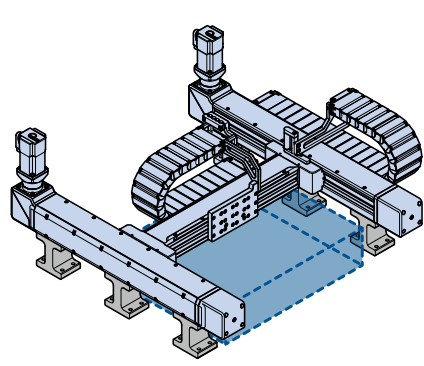
For maximum flexibility and ease of incorporation, the Planar Surface Gantry includes the following:



- Best machine performance with robust magnetic linear encoder
- Absolute position feedback delivers accuracy of 0.005mm
- High precision saves energy and increases reliability with enhanced output



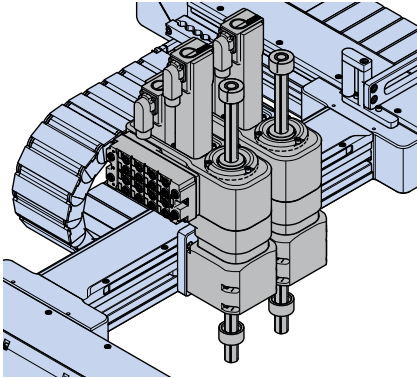
- Incorporated cable track allows for clean cable and pneumatic run management out of the box
- Quick release for rapid installation and maintenance access



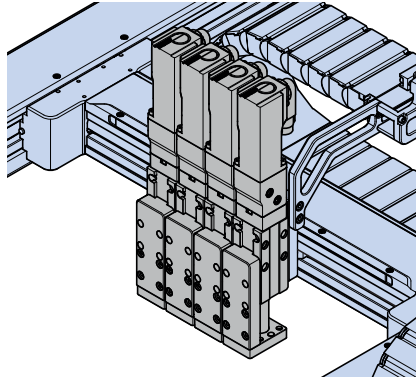
- Structural mounting feet can be made to order for fast installation and integration
- All axes can be controlled simultaneously, for maximum flexibility, with full range of movements supported by the gantry

Optional Modules

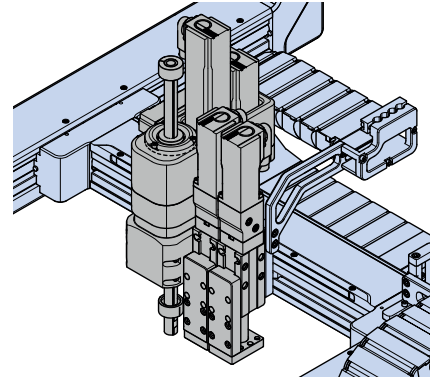
A range of optional motion devices can be fitted to the HG60s carriage plate to provide Z axis functionality. Some example configurations are shown below. Please refer associated specification sheets for further information.



2 off ZU with optional I/O interface

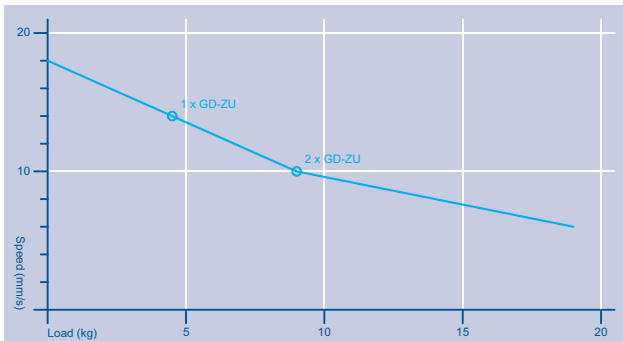


4 off SC40-SD-50

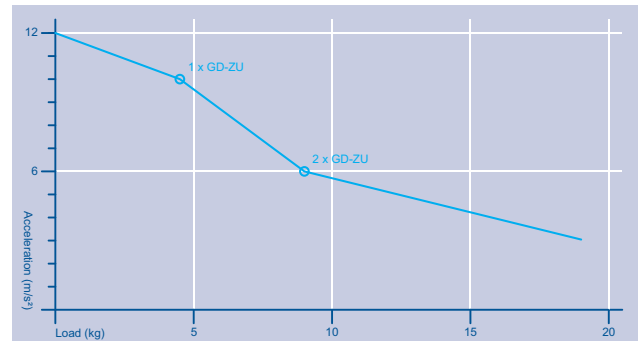


ZU and 2 off SC40-SD-50

Performance Data



Speed vs Load



Acceleration vs Load

Automation made easy

Designed with versatility in mind, Gorman Dynamics modular system and intuitive software solution enables seamless integration.

Without the need for intricate and time-consuming programming, our intention is to create a truly integrated platform for all of your automated needs.

Gorman Dynamics have made being better easier.



**Gorman
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