



HepcoMotion®

HGS
gantry solutions

HEPCO®
www.HepcoMotion.com

Introducing

HepcoMotion® Gantry Solutions

HepcoMotion offers a range of gantries constructed around the requirements of your application utilising proven elements and sound design principles. From a light payload, high speed to a heavy payload to be positioned, there is a solution within our range of standard packages.

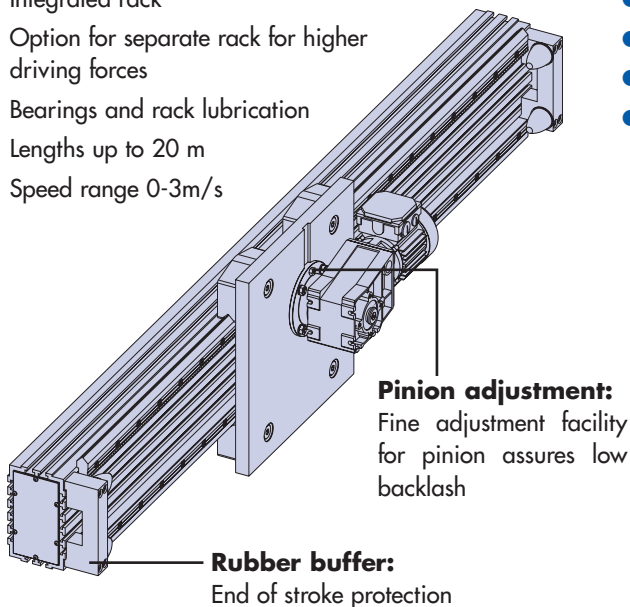
Our scope of supply is wide and includes all mechanical elements, legs, XZ beams, slide, bearings, rack & pinion, belt drives, cable chains etc. to part components supply for the customer to mount their own support structure.

This document outlines general principles and areas of use. For specific details please contact our technical support team who will be happy to prepare a design layout utilising standard HepcoMotion packages.

X axis solutions

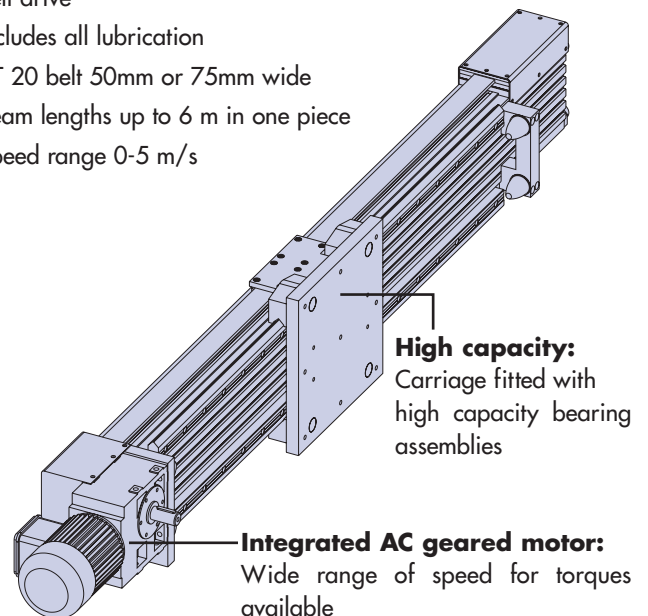
Heavy Duty HB25 beam

- Rack and pinion drive
- Integrated rack
- Option for separate rack for higher driving forces
- Bearings and rack lubrication
- Lengths up to 20 m
- Speed range 0-3m/s



HDLS

- Belt drive
- Includes all lubrication
- AT 20 belt 50mm or 75mm wide
- Beam lengths up to 6 m in one piece
- Speed range 0-5 m/s

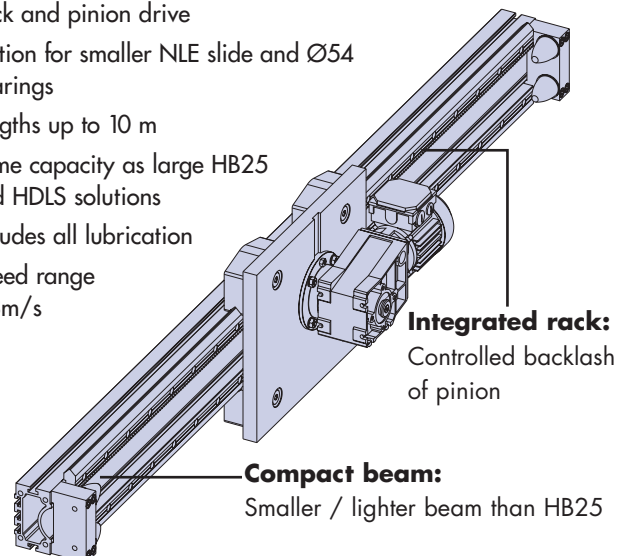


The table below shows stroke and payload ranges. These figures depend on many factors such as speed and accuracy required. However these give an idea of the wide range of X axis solutions HepcoMotion can offer.

X axis solutions			
Drive type	Stroke range	Speed range	Payload range
Rack	Unlimited	0 – 3 m/s	0 – 2250kg
Belt	0 – 10m	0 – 5 m/s	0 – 1500kg

Heavy Duty compact beam HB25C

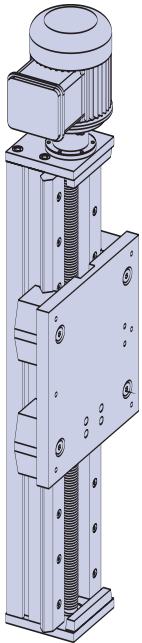
- Smaller beam for lighter loads
- Rack and pinion drive
- Option for smaller NLE slide and Ø54 bearings
- Lengths up to 10 m
- Same capacity as large HB25 and HDLS solutions
- Includes all lubrication
- Speed range 0-3m/s



Z axis solutions

Many of the elements used as an X axis could, be incorporated into Z axis installations. As with the X axis, the choice of a particular solution will depend very much on the payload being carried, speed, accuracy of placement during cycle and stroke distance. Please contact our technical support department for advice and design support.

Ballscrew drive axis



- Ballscrew drive
- High accuracy positioning
- High payload capacity
- Option of HDFS or HDCS
- Strokes up to 3 m
- In line motor attachment
- Bellows option

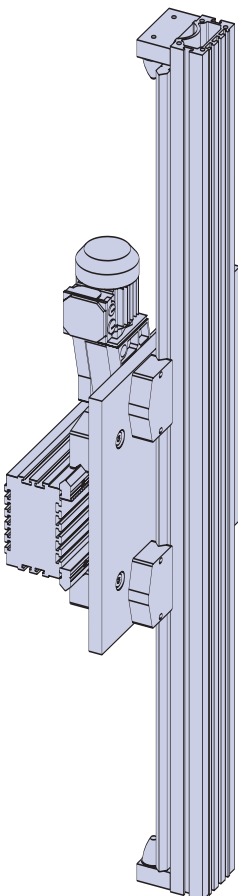
Again the table below shows stroke and payload ranges. These give an idea of the wide range of Z axis solutions HepcoMotion can offer.

Z axis solutions		
Drive type	Stroke range	Payload range
Telescopic	0 – 2m	0 – 60kg
Belt	0 – 3.5m	0 – 120kg
Rack	0 – 3.5m	0 – 300kg
Screw	0 – 3m	0 – 1000kg

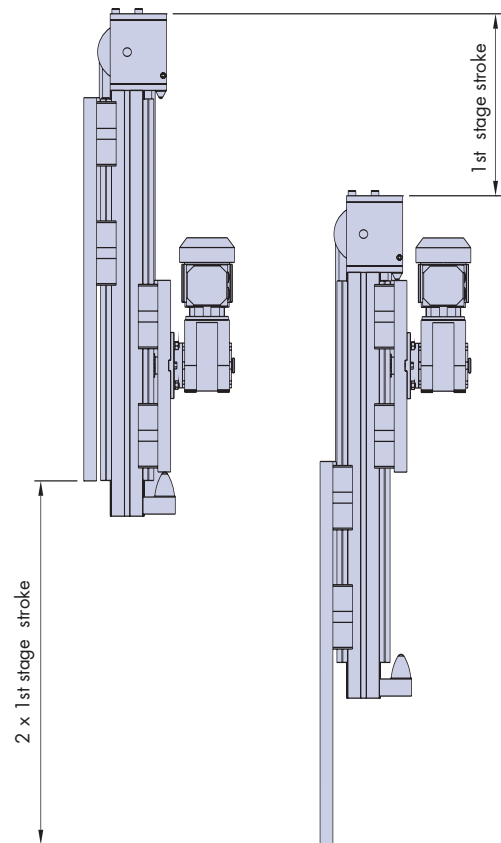
Telescopic axis

- Heavy Duty compact beam
- 2 stage telescopic action
- Ø64 vee bearings
- Strokes up to 2m
- Payload range 0-60 kg

Rack Drive Axis



- Rack and pinion drive
- Integrated rack
- Option for HB25 or HDCB beam
- Strokes up to 3.5 m
- Speed range 0-3 m/s
- Combined X - Z carriage
- Rigid Z axis mounting
- Includes all lubrication
- Rubber buffers

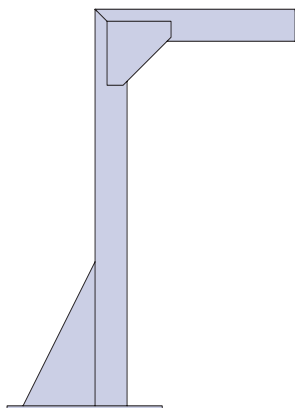


The solutions covered are from HepcoMotion's standard range. HepcoMotion is happy to discuss your application and provide customers with a custom solution that will meet their exact requirements. Please contact our technical support team with your application details.

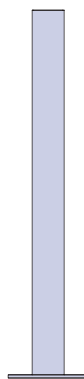
Gantry Support Legs

For most applications we will utilise steel box section 200mm x 200mm sq, painted to your requirements.

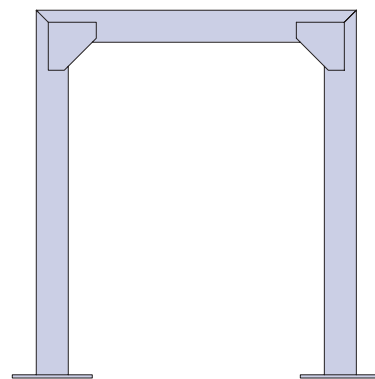
We offer 3 basic support leg constructions which will meet the requirements of most designs. Legs are supplied with jacking screws to simplify levelling.



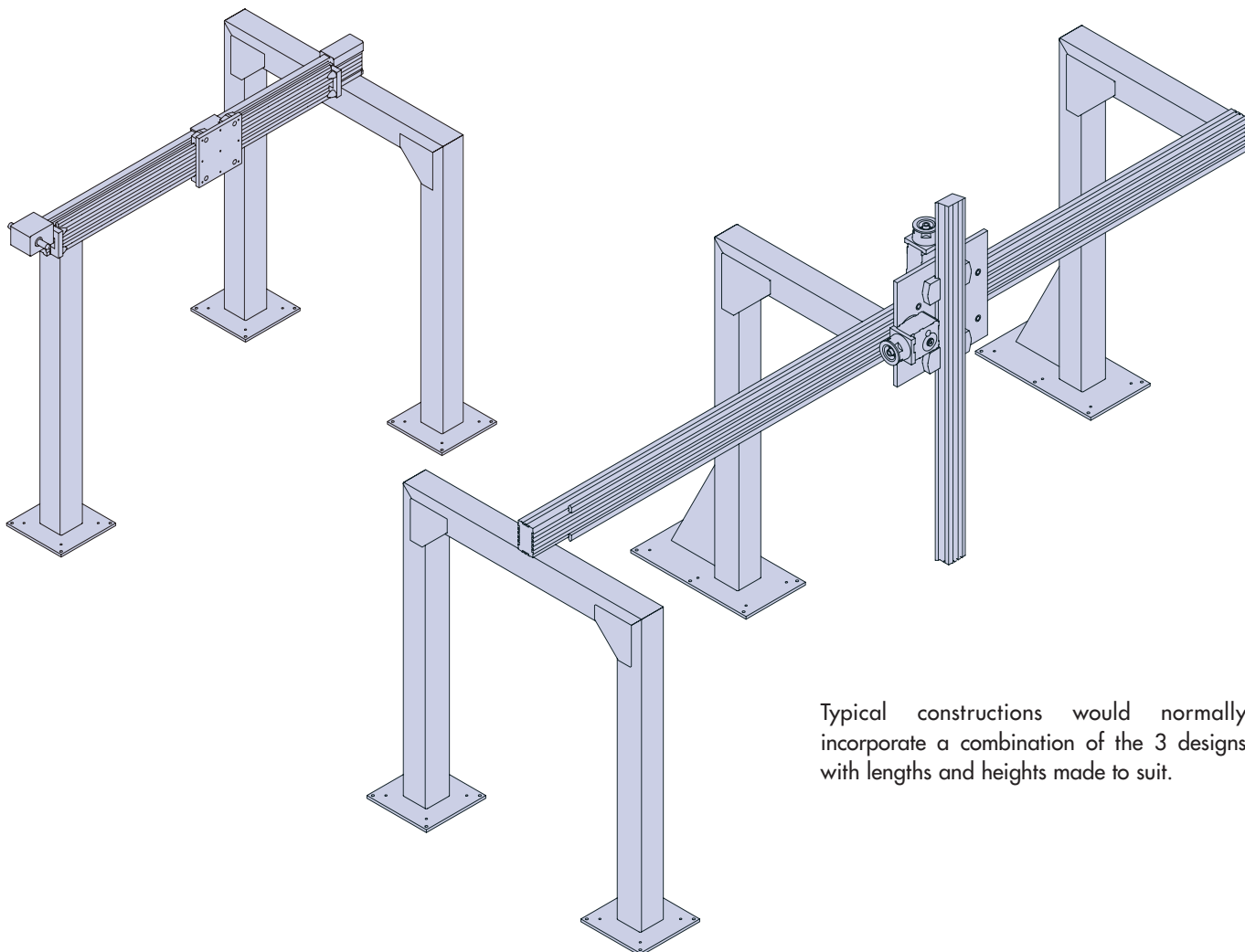
Cantilever



Single



Goalpost



Typical constructions would normally incorporate a combination of the 3 designs with lengths and heights made to suit.

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