

The image shows a close-up of industrial machinery, likely a robotic arm or assembly line component, with a teal color overlay. The machinery features various metal parts, bolts, and a cylindrical actuator. On the right side, there are several circular adjustment knobs and a small panel with icons, including a warning symbol and a directional arrow. The overall scene is industrial and technical.

HepcoMotion®

System Solutions
Your route to improved system
manufacturing efficiency

Why choose HepcoMotion® System Solutions?

- HepcoMotion® is a world leader in linear motion
- More than 40 years of applications knowledge
- Extensive product range - optimum solutions
- Tailored systems – meet exact needs and budget
- Highly competitive prices

From placing precision components and fine assembly processes to transporting heavy components between machine tools, we have the products and manufacturing resources to engineer a cost effective solution.

What do we do?

Basically you tell us what you want to achieve and we'll suggest the best solution. The process involves:-

- Selecting the best HepcoMotion® products for the application and customising them if necessary
- Designing and manufacturing all frames, mounting plates, cable chains, motor flanges and linking elements
- Recommending the best drive method
- Selecting the right size product for trouble-free system life and minimal maintenance
- Matching speed and load with required accuracy.

And we don't just address linear motion; the solution can be based on rotary motion or, for even greater flexibility, a combination of the two.



HepcoMotion® HDS2

X, Z Gantry being commissioned for glass production tool handling, using HepcoMotion Heavy Duty System (HDS2) as part of complete system.



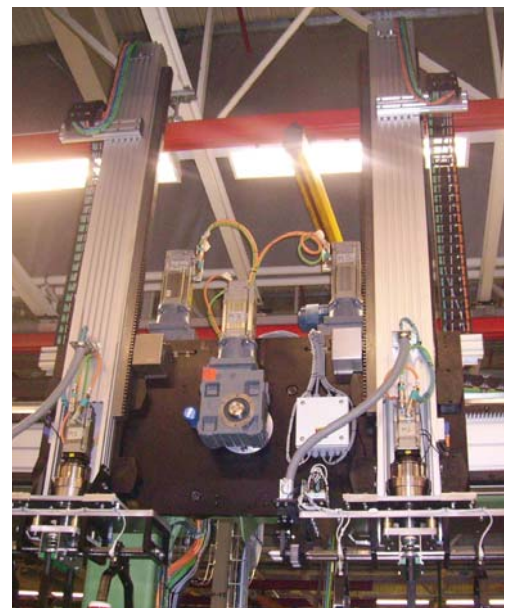
HepcoMotion® PRT2 / DLS

HepcoMotion Ring & Track (PRT2) and (DLS) Driven Actuator system under test in our Tiverton factory.



HepcoMotion® HDS2

HepcoMotion construction beams, slides, rack drive and bearings combined to build X, Z Gantry system for picking and placing heavy lorry crankshafts between machining centres.





HepcoMotion® **SDM**

Compact single axis ballscrew driven unit (HepcoMotion SDM) with additional guidance system for increased moment load capacity. Systems can be configured with other Linear Actuators from the HepcoMotion range.



HepcoMotion® **DTS**

Driven Track System (HepcoMotion DTS) includes a number of carriages normally used as workstations. Systems are fully factory tested and supplied complete with pulleys, belt and machine frame.

Track configuration can be either oval or rectangular in shape.

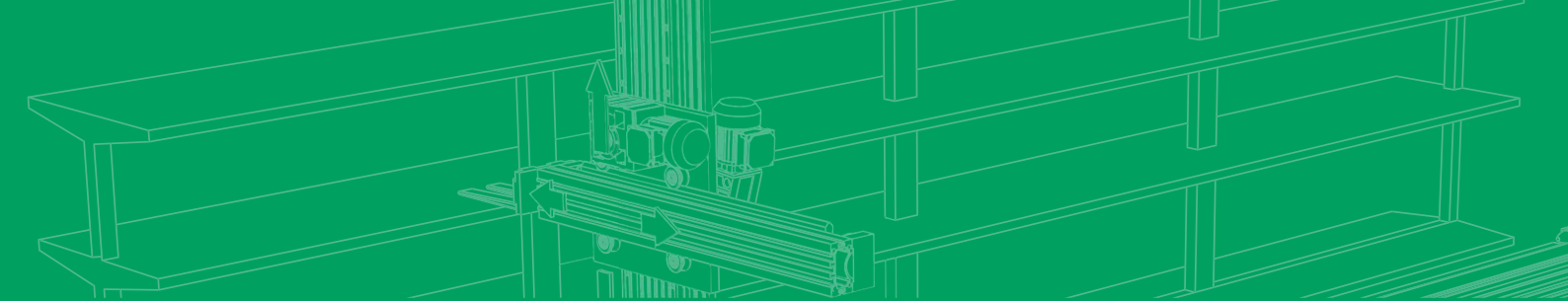


HepcoMotion® **HDS2**

X, Z Gantry using HepcoMotion Heavy Duty components (HDS2) and bespoke telescopic Z axis to accommodate overhead height restriction.

4-metre X axis. Single edge rack slides mounted on to HepcoMotion HB25 Heavy Duty Beam.





HepcoMotion® SBD / PSD / MCS

This engineered solution demonstrates the ease in which two pairs of geared HepcoMotion SBD 30–100 actuators can be paired and used in conjunction with a HepcoMotion PSD80 lead screw actuator to achieve a cost effective rigid, high performance X, Y, Z configuration. MCS used to create a rigid mounting frame.



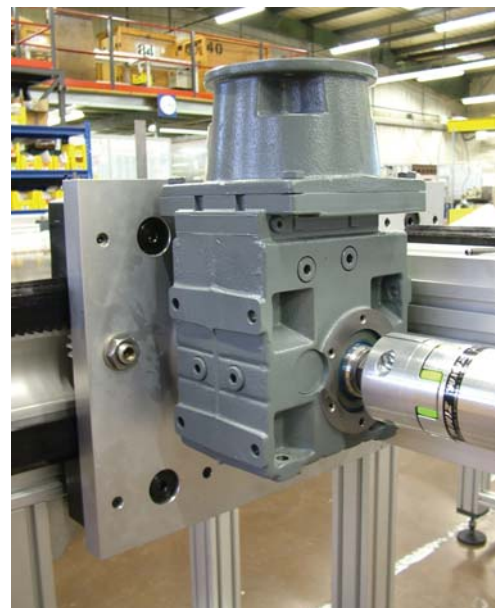
HepcoMotion® HDLS / HDS2

HepcoMotion HDLS & HDS2 used as the main structure to create a wide span X, Y system with linked X axis. Gear box and drive shaft supplied as part of engineered package.



HepcoMotion® HDS2

HepcoMotion HDS2 Heavy Duty rack driven axis, directly linked through helical bevel gearbox and drive shaft.



What are the choices?

HepcoMotion® will recommend the best product, or combination of products to suit your application. Our designers will produce 3D CAD drawings on receipt of your order instructions for your approval. You can either supply your own motors and controllers or work with our trusted system integration partner, SmartDrive Ltd. Typically your system would be based on one, or several, of the following HepcoMotion products.

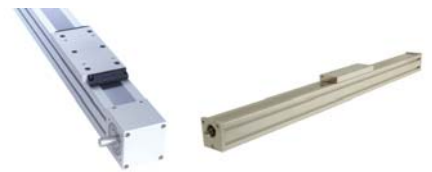
HDS2 - Heavy Duty System

- The obvious choice for XYZ and XZ gantries – highly flexible system with many options.
- Three beam sizes, gantries up to 6m; longer lengths easily achieved; support legs if needed
- Rack driven axis with vee bearings/slide to suit
- Automatic lubrication system
- Z-axis options, telescopic system and compact beam rack, ballscrew or belt driven



SBD/SDM – Sealed Belt or Ballscrew Driven Actuators

- Ideal for hostile environments
- Recirculating ball guide technology for supreme rigidity
- Range of sizes and options
- Extra long belt driven system as standard
- Easy motor mounting
- Fully compatible with MCS frame building system



DLS - Driven Linear System

- Complete package for linear transmission and positioning
- Particularly suitable for hostile conditions
- Based on the HepcoMotion vee-guide technology
- Standard length up to 8m, longer available
- Double row cap sealed bearings for long system life
- Quiet, trouble-free operation



PDU2 - Profile Driven Unit

- Belt driven system and a popular choice for a high performance & exceptionally long life
- Sealed units for lower load applications
- Patented Herculane®, low friction wheel technology for smooth and quiet movement
- High moment load version available



GV3 - Linear Guidance and Transmission System

- Suitable from small to heavy loads, slow to high speed
- Huge range of sizes, types and ancillary components
- Three grades of precision
- Exceptional reliability



PRT2 - Ring Slides and Track System

- Exceptional choice of components, sizes and options
- Clear leader in guided circular motion
- Choice of small to large rings with a number of gear drive options
- Ideal for multiple work stations
- Limitless variation of open paths and circuits



DTS - Driven Track System

- A complete integrated package, based on the proven PRT2 product
- Ready to be incorporated into a continuous positioning or dedicated assembly machine
- Unlimited straight length – oval or rectangular configuration
- Driven by pulleys and a timing belt - New scroll drive option available



MCS – Machine Construction System

- Wide range of profiles and accessories
- 3D frame design and build service
- Profiles allow fixing of HepcoMotion linear systems
- Cost effective machine structure, compared with welded steel frame



This is just a selection of the product choices available.

Go to www.HepcoMotion.com to see our complete range as well as application photos and videos.

HepcoMotion®

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