

# HepcoAutomation®

ADVANCED AUTOMATION SOLUTIONS

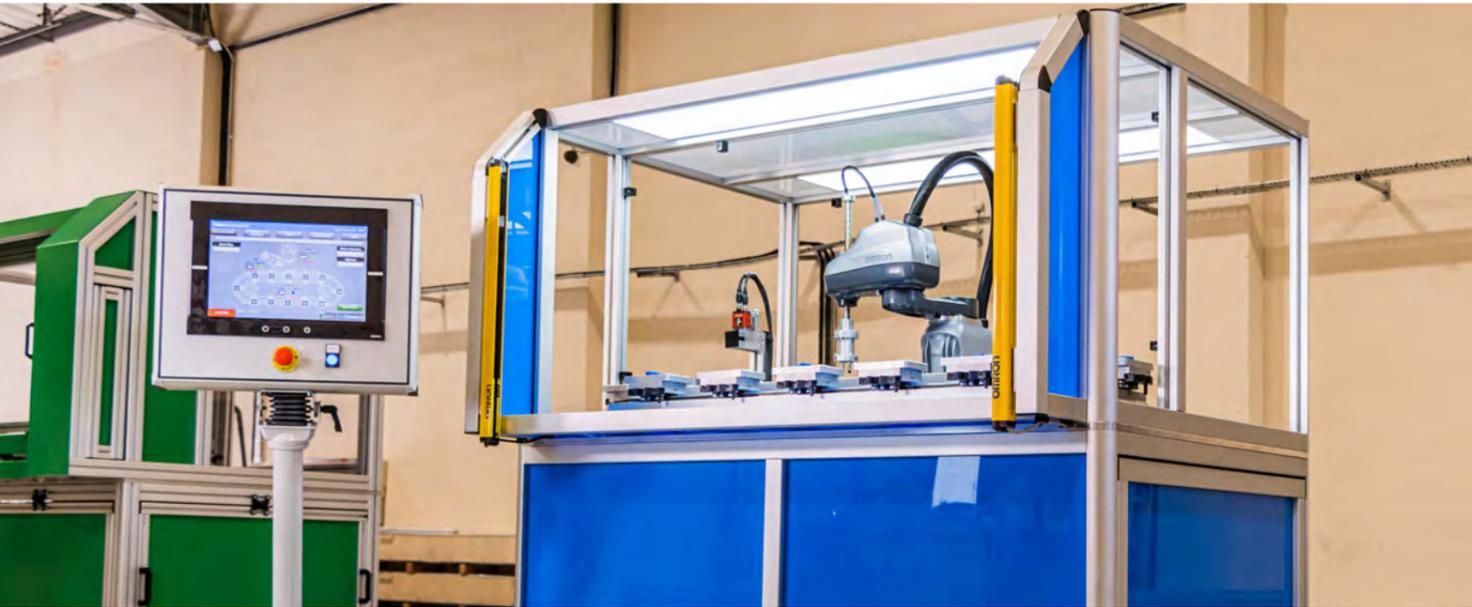


## DTS Production Cell Solutions

[hepcoautomation.com](http://hepcoautomation.com)

# AUTOMATE YOUR PROCESSES

At HepcoAutomation, we provide solutions to move, assemble, and manipulate components throughout the production process.



We supply fully integrated automation solutions, utilising HepcoMotion's range of precision guidance systems, including the mechanical design, machine software and drives & controls.

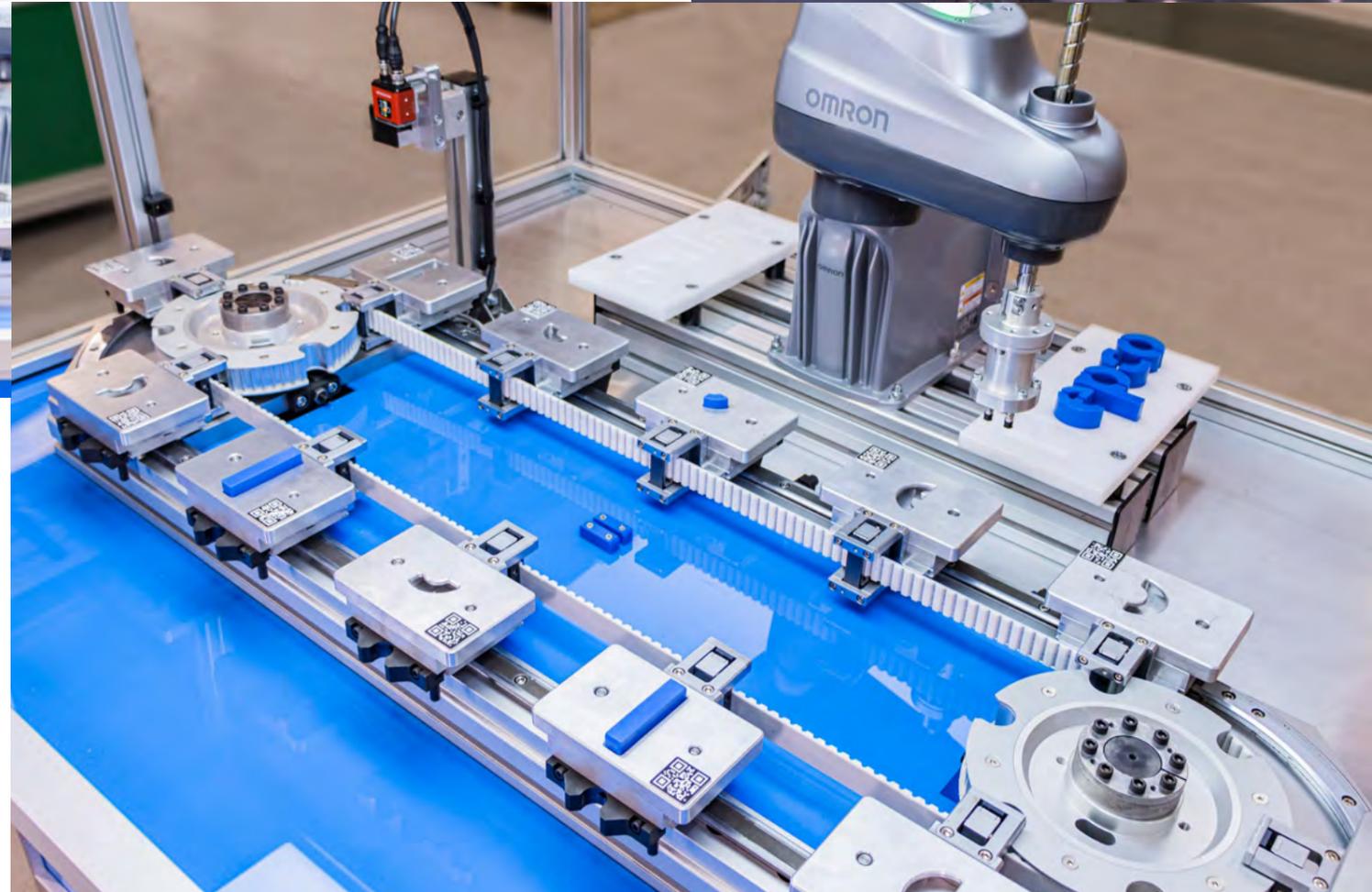


From a ready-to-go driven track system with drives and controls for your own integration, right up to a fully functioning turnkey production cell, we work exactly to your requirements.



High-performance gearboxes, servo drives and controls along with standard integrated software enable complete synchronisation with the DTS transfer process.

All aspects of the mechanical design, machine base, frame and guarding are managed by the HepcoAutomation team, including an installation and commissioning service.



# DTS PRODUCTION CELL SOLUTIONS

Depending on the requirements of your application, we can specify a multitude of peripheral automation devices including robotics, bowl feeders, vision systems and safety devices.

Here are just some of the automation options that you can choose from:

**Robotics** – Robot-ready integration for loading & unloading, pick & place, assembly, screw driving or dispensing functions.

**Robot Grippers** – Specified to meet the requirements of your application.

**Vision Systems** – For use in all types of object inspection, data reading, position/orientation and measurement operations.

**Safety Devices** – Light curtains, laser scanners and machine guarding create a safe working environment for machine operators.

**Work Holding** – Bespoke tooling to suit your product envelope.

**DTS** – Precision transfer system moves products from station to station in an accurate, repeatable, and controlled manner.

**Operator Interaction Points** – Full system control of each axis, allowing changes in positional data and system speeds.

**PLC Controller** – Synchronous control of all machine devices and functionality.

**Gearboxes** – Maximum precision and dynamics, with low backlash and exceptional torque density for any application or performance range.

**Servo Drives** – High-resolution precision motion with multi-turn encoder, built-in safety network and improved loop control, allowing higher machine speeds and productivity.



# DTS TECHNOLOGY FROM HEPCO

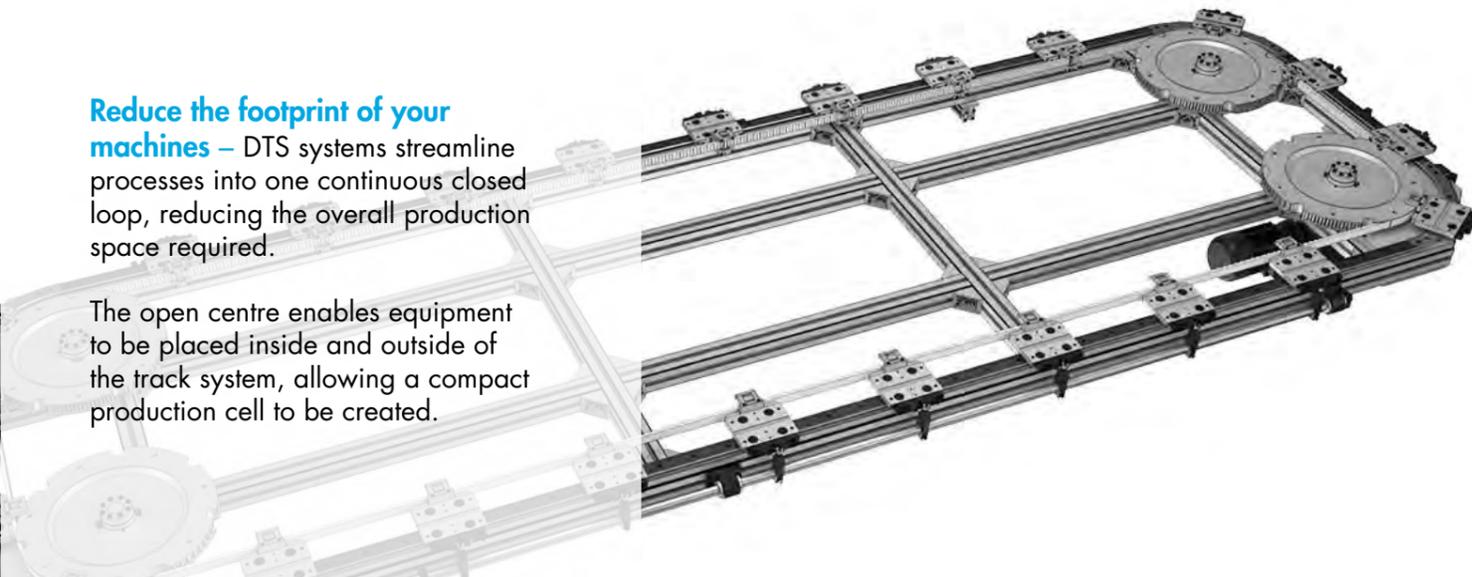
**DTS systems are at the core of modern automation** – Moving products from station to station in a precise repeatable, and controlled manner.

Work is routed dynamically around closed route cells, closely controlling the path of components throughout the entire production process.

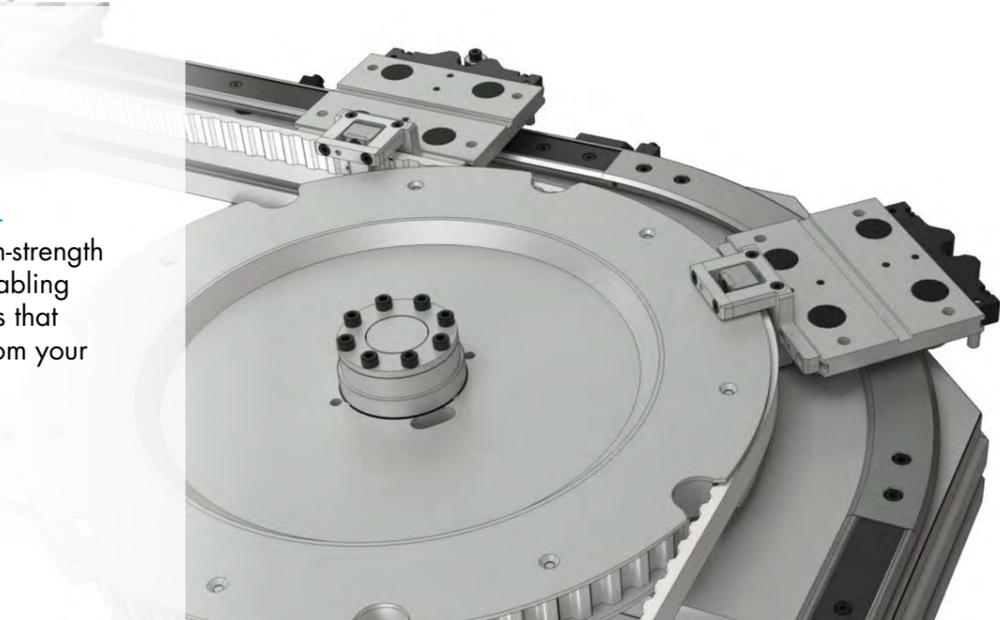


**Reduce the footprint of your machines** – DTS systems streamline processes into one continuous closed loop, reducing the overall production space required.

The open centre enables equipment to be placed inside and outside of the track system, allowing a compact production cell to be created.

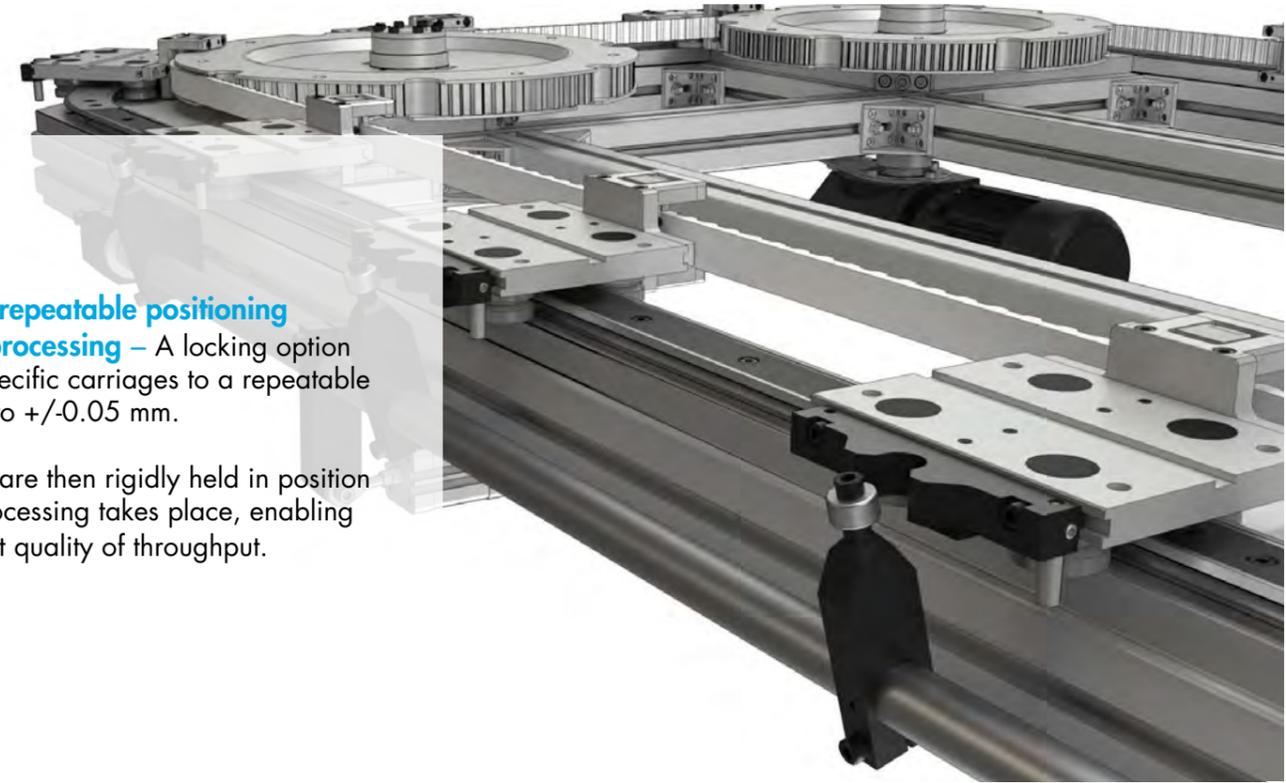


**Achieve higher throughput** – Carriages are driven by a high-strength steel reinforced timing belt, enabling high speeds, and accelerations that provide greater productivity from your machines.



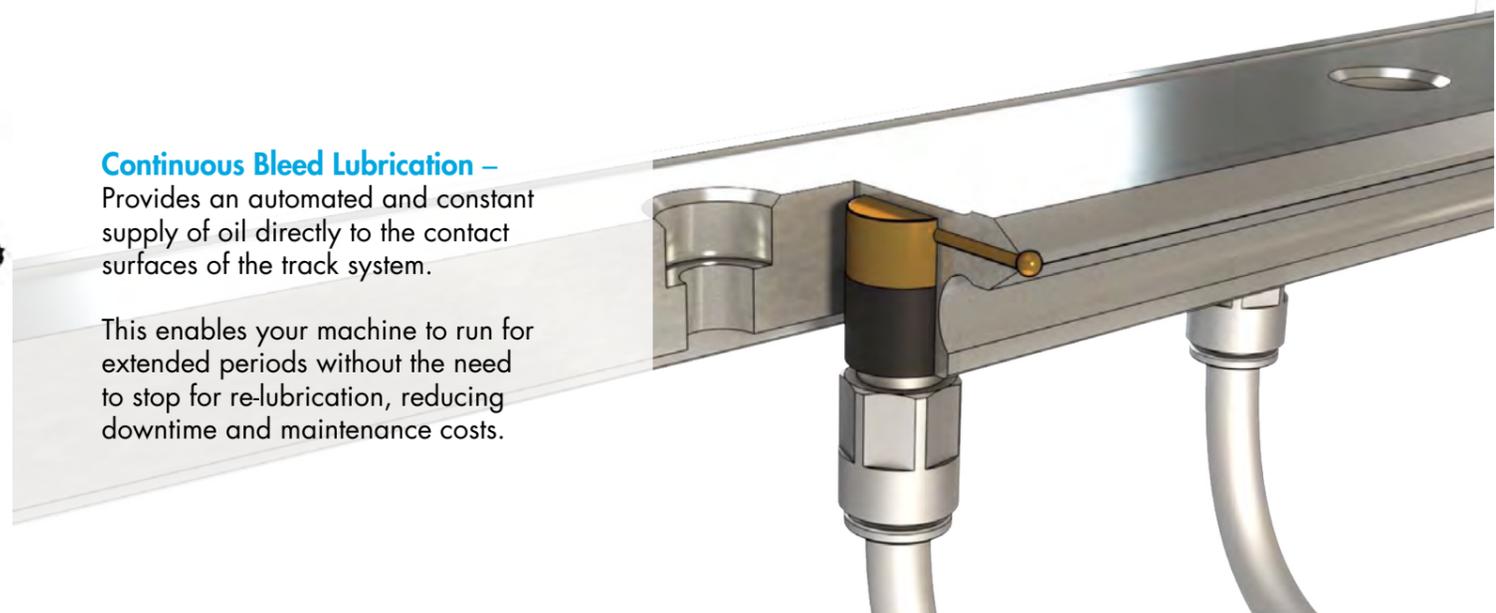
**Precise, repeatable positioning during processing** – A locking option aligns specific carriages to a repeatable position to  $\pm 0.05$  mm.

Products are then rigidly held in position while processing takes place, enabling consistent quality of throughput.



**Continuous Bleed Lubrication** – Provides an automated and constant supply of oil directly to the contact surfaces of the track system.

This enables your machine to run for extended periods without the need to stop for re-lubrication, reducing downtime and maintenance costs.



**Self-cleaning** – Hepco's V guide system is especially well suited to harsh and contaminated environments thanks to its unique wiping action that expels debris.

Dirt is pushed to the outside edge of the bearing, effectively wiping the flanks of the V guide clean as the bearing passes over it, creating an ideal solution for even the harshest environments.



## Initial project meeting

Even if you only have a very rough sketch, our experienced design team will be happy to work with you to develop your ideas.

## Design concept produced



We will then take your ideas, turn them into an achievable concept and present it to you. We have the knowledge and experience to create innovative systems using the latest design techniques.

## 3D working design



Once you have approved our concept, we will produce a detailed 3D working design so you can fully visualise the system. Any final amends can be discussed before manufacturing starts.



## Build and test

We will assemble and test your system from our 100,000 square foot, state-of-the-art premises to make sure your system is working effectively.

## In-house manufacturing



We use components either manufactured by us or from approved partners and suppliers. We have no need to outsource and provide the complete solution for your convenience.

## On-site installation

We provide an on-site commissioning and installation service to ensure a smooth set up at your premises.

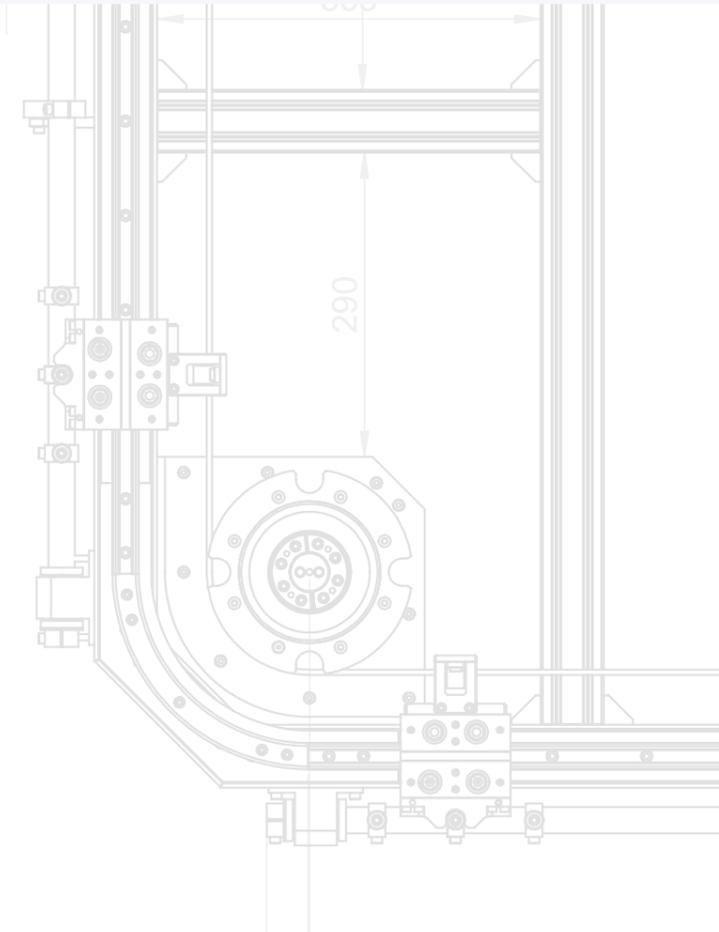


## Training

High quality training is essential for successful operation. HepcoAutomation provides direct customer training on system control devices and software to ensure you get the most from your investment.

## Documentation

Full certification and CE/UKCA marking can be provided to ensure that the machine compliance meets with UK/EU safety and environmental requirements.



## Continuing support

Remote support and real-time monitoring via pre-paid after sales service level agreements. Annual maintenance and service contracts are available.

If you are viewing this content offline, use this QR code to access the digital catalogue to interact with the document:



View our latest DTS applications and product videos by clicking on the thumbnails below:



HepcoAutomation DTS+ Robotics Cell



DTS+ Track System Explainer Video



PRT2 Track System Explainer Video



DTS Automotive Battery Assembly Application



Guitar String Packaging Application



Face Mask Packaging Application

View the DTS and related product catalogues and datasheets by clicking on the thumbnails below:



## CONTACT US TO DISCUSS YOUR APPLICATION



[hepcoautomation.co.uk](http://hepcoautomation.co.uk)



+44 (0) 1952 585 004



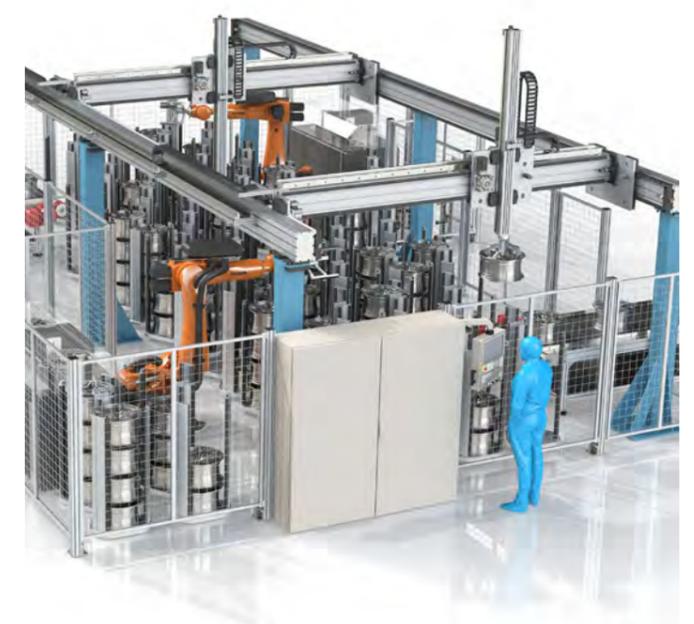
[sales@hepcoautomation.com](mailto:sales@hepcoautomation.com)

## Multi Axes Gantry Solutions

HepcoAutomation can supply automated Gantry and Robotic Solutions designed and constructed around the requirements of your application.

From a light payload moving at high speed to heavy objects to be accurately positioned, there is a solution within our range of standard products.

HepcoAutomation provides a complete solution from initial design to installation, commissioning and documentation services, with the emphasis being on supporting a rapid return on your investment.



## Linear Actuator Solutions

HepcoAutomation can provide Linear Actuator systems complete with integrated drives and controls as a turnkey solution in either single or multi-axis format.

Belt or ball screw driven actuators to suit a wide range of applications from light loads to heavy duty, can be selected from the extensive range of HepcoMotion products.

HepcoAutomation can also offer an on-site commissioning and installation service.

## DTS Production Cell Systems

HepcoAutomation supplies automated turnkey solutions based on Hepco's DTS transfer system technology.

From a 'ready-to-fit standalone DTS system with drives and controls to a fully functioning production cell complete with integrated robotics, vision systems and safety devices.

HepcoAutomation will work exactly to your requirements, managing the mechanical design, machine base, frame, guarding, and any peripheral automation devices required.



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**Unit D5  
Horton Park Industrial Estate  
Horton Wood  
Telford  
TF1 7GX**

**Tel: +44 (0)1952 585004  
E-mail: [sales@hepcoautomation.com](mailto:sales@hepcoautomation.com)**

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