



Delta Robotics



Introduction

The PCE GROUP of Companies

The PCE GROUP of Companies manufacture a comprehensive range of world-class automation solutions, across a multitude of industries, from part feeding equipment to complete turnkey production lines.

From our modern industrial production facilities in Suffolk (HQ) and Leicestershire, **The PCE GROUP** have complete in-house skills and capabilities to Design, Project Manage, Manufacture, Program, Install, Commission and Service; resulting in shorter project lead times, optimised efficiency and throughput and a swift Return on Investment.

Our automation solutions are skilfully crafted from quality materials, which stand the test of time; delivering exceptional value and longevity to our customers.

Winners of a coveted and prestigious Queens Award for Enterprise in 2020, for International Export, we export across the UK, Europe, North, Central and South America.



We look forward to becoming *your partner in automation...*



Delta Robotics

Delta Robots are typically deployed in an inverted location, ceiling mounted to the automation cell or processing line. They have typically 3 'legs' and a central rotational drive to the End of Arm Tooling (EOAT)

These robots are often used in conjunction with vision systems that allow the parts to be picked, to be tracked in real-time, along with their orientation upon an incoming conveyor for example.

The controller performs the complex calculation from all the inputs to guide the Delta robot to pick a part dynamically 'on the fly' and placing them either into a prescribed orientation for downstream automation processes, such as an array for subsequent picking or placing onto a pallet or within a tray .

Loads are generally low, maximum payloads of the robot typically <8kg, with high acceleration forces and smaller distance of movement. Like SCARA systems, parts can be rotated but not tilted or manipulated as with an articulated robot. Delta

robots are very fast, some cells can operate at >180 picks per minute, though the ultimate speed will depend upon part weight, distance moved and enough parts to pick.

Many Delta systems are used in food and pharmaceutical processing industries, with specialised EOAT for picking up challenging payloads.

The PCE Project Team are on hand to design and manage your project from design to delivery; as well as to provide our unrivalled aftercare.



PCE GROUP

Ellough Road, Beccles

Suffolk

NR34 7TE, UK

sales@pce-automation.co.uk

www.pce-group.co.uk

Your partner in automation....

