

Material Handling

Application Profile

Pick and Place with Accuracy and Speed



Challenge

A high duty and high speed pick and place application required a system that was simple in design, easy to mount, and provided trouble free motion.

Application Description

The entire system is picking and placing pistons for pumps. The system moves up and down (vertically) twice and also forward and backward (horizontally) for a total of 7 meters within a 7 second time period. This cycle is repeated 500 times for one setting and operates 24 hours per day. The loads are relatively light, with the Z axis specifically carrying 10kg.

Solution

The Hepco Driven Linear System (DLS) combined with the Heavy Duty Compact Beam was the perfect choice for this demanding system. The X axis 7 meter travel is comprised of two DLS4 units running in parallel which are linked with a drive shaft and is servo motor driven.

The 2 meter Y axis motion is again achieved by the use of a DLS. However, running parallel is an outboard support unit that provides sufficient rigidity and accuracy to ensure the components are located accurately.

The Heavy Duty Compact Beam (HDCB) is utilized in the Z axis 1 meter stroke. It is rack driven with slides on all four edges which also provides accurate no-plant movement.

Products Used

HepcoMotion DLS4, belt driven

HepcoMotion HDCB - Z Axis

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