

DOMINO PRINTING SCIENCES

Managing specification, design and build of prototype systems

THE CHALLENGE >

Domino Printing Sciences needed to develop a handling system that allowed for accurate laser coding and code verification on both hard and soft packs on a production line – at speeds of up to 500 parts per minute – for one of its multinational customers.

The reliable presentation of the packs to both the laser and vision systems was critical to prevent bad codes and therefore false rejects.

The packs needed to be controlled by lifting them from the existing conveyor and feeding them into an indexing wheel for the laser printer and camera stations.

At 500 parts per minute, this only allowed 73 milliseconds for the packs to be correctly coded and verified – and rejected if necessary.

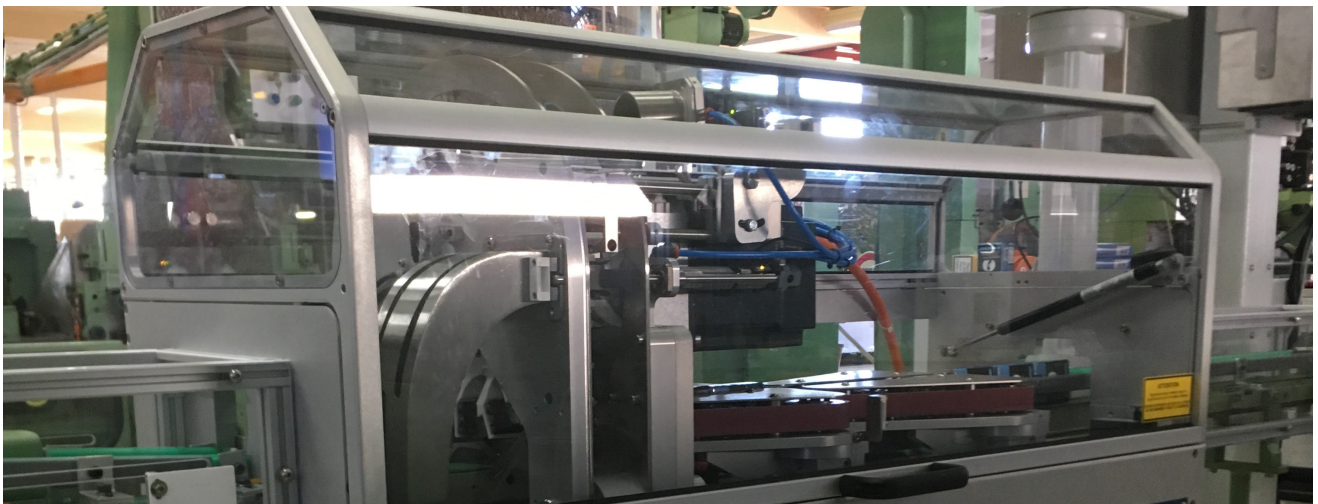
THE SOLUTION >

CDP project managed the specification, design and build of the prototype systems – targeting time, quality and risk.

As well as ensuring the marketing and technical specifications were complete and met the needs of the major stakeholders, we identified and specified all the necessary regulatory requirements.

We worked with third parties to create a design package for transfer to manufacture – including all the required mechanical, electrical, optical and regulatory specifications and documentation.

We also worked with the manufacturer on the build and test of the system and the software development, as well as the factory testing of the two prototypes.



BENEFIT TO CLIENT >

CDP's project management kept the work on track and made sure it was high quality.

Critically, we also managed risk and ensured the resultant two prototypes were designed, manufactured and tested in such a way that risks of failure were exposed, mitigated and controlled as far as possible.

This ensured the technology was as reliable as possible in what was a high-speed, low-cost and therefore high-fidelity application.

After the first two prototypes were installed, Domino went on to supply two further systems – with projects for over a dozen more ongoing.