

ELEVATING STANDARDS: PENTAGON PLASTICS' STRATEGIC SHIFT TO ENHANCED MEASUREMENT CAPABILITIES

Pentagon Plastics Group plc are a well-established plastic injection moulder and mould tool manufacturer based in West Sussex, UK.

With over fifty years of experience, Pentagon offers a full turnkey solution for plastic injection moulding, including design assistance, development, mould tooling solutions, plastic injection moulding, and post moulding services.

Operating under the ISO9001:2015 quality management system, Pentagon serves a wide range of industry sectors with bespoke technical moulding and mould tooling services.

Pentagon were looking for a solution to automate its quality control processes.

The Requirement

Recognising the need to improve efficiency, Pentagon were looking for a solution to automate its quality control processes for both moulded products and tool manufacture, moving away from manual methods of measurement.

In addition, the company was experiencing a significant increase in customer requirements for quality reporting, a service that traditionally relied on extensive manual processes.

They needed equipment that was simple and flexible

so tooling engineers could measure their own work at various stages of the tool build accurately, efficiently, and with repeatability.

The enhanced measurement capability offered by probe technology was especially important for Pentagon; this would enable them to deliver the level of inspection and detailed reporting required by their customer base.

Finally, practical considerations regarding the equipment's size were paramount, ensuring seamless integration into Pentagon's existing plant machinery layout.

The Solution

Pentagon invested in Vision Engineering's LVC 400 Series fully automated video measurement system and Deltron CNC Coordinate Measuring Machine.

The Vision Engineering team demonstrated a thorough understanding of Pentagon's needs from the outset.

The process from initial contact to placing an order took some time; the Vision Engineering team supported and guided Pentagon through the journey with a commitment to finding the right solutions tailored to their specific requirements.

The business needs, investment parameters, and the confidence instilled by the level of detail offered by Vision Engineering collectively drove the final decision.

“Working with Vision Engineering has been an efficient and professional experience.

From initial discussion through to machine installation and equipment training, the sales team were friendly and knowledgeable, offering sound advice and ensuring that all our business needs were met through investment recommendations.

Post-sales support was delivered in a timely manner with thorough training on both machines that we purchased. We continue to feel supported beyond purchase completion.”

Vision Engineering’s metrology solutions have enabled Pentagon to improve its quality control capabilities, streamlining processes, and meeting the growing demands of its customers. The partnership demonstrates Vision Engineering’s commitment to delivering tailored solutions and exceptional support, further solidifying its position as a trusted partner in the manufacturing industry.

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