Thornbury Manufacturing (TLM)

Precision, productivity and compliance Case Study

Sisma Easy, Laser Marker

Customer Profile

Thornbury Manufacturing Ltd is a UK precision engineering specialist serving the medical sector with high-quality moulded and assembled components. ISO 13485 certified, the company delivers traceable, compliant manufacturing from its Plymouth facility. With broad expertise across plastics, metal and assembly, it supports complex medical production requirements at scale.

Challenge

Thornbury needed a reliable marking method for medical components that met strict traceability and regulatory standards. Existing pad printing lacked consistency and accuracy, especially on sensitive plastic materials.

Solution

Laser Lines delivered a Sisma Easy laser marking workstation with a 20W MOPA laser for precise, controlled marking. Adjustable pulse parameters ensured high-quality results without damaging delicate materials. Integrated vision alignment improved placement accuracy and reduced operator errors. Custom fixturing and jig design streamlined part positioning. Sample testing, training and consultative support ensured smooth integration and future scalability.

Impact

Thornbury achieved consistent, compliant marking across multiple materials and production volumes. Marking accuracy improved significantly, supporting full traceability and audit requirements. Production speed increased while maintaining quality standards. The solution enabled flexibility for new medical projects and materials. Enhanced reliability reduced rework and operator dependency. The partnership strengthened long-term manufacturing capability.

Thornbury Manufacturing Ltd

"We've got another project in the pipeline and Laser Lines is already helping us with samples. They're not just a supplier—they're a long-term partner" - Michael Walsh, sales director at TML

Key Takeaways:

100% marking accuracy

Up to 100,000 parts/year marked

ISO 13485 traceability compliance achieved

Faster marking cycle times

Zero material damage on sensitive plastics

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Laser Lines Limited,
Beaumont Close, banbury, OX16 1TH, Oxfordshire
info@laserlies.co.uk, +44 (0) 1295672500