

APPLICATION NOTE / USER CASE STUDY

Manufacturing company buys a workshop CMM instead of multiple hand gauges.

Introduction

Metparts are a manufacturing company based in Leicester who produce bonding, ultrasonic and specialised textile machinery under the Sewsystems name. Also, they are subcontractors providing on-demand CNC machining, engineering design, manufacture, and parts assembly services under the Metparts brand.

With an increase in workload there was a requirement to increase the measurement and inspection capabilities of the companies and they reviewed the instruments they would need and flexibility for further growth. Having looked at the manual instruments such as bore gauges, height gauges, calliper gauges they decided to look for a single product for all the tasks and chose the Deltron CMM.



AN523 Vision Deltron

“Shall we spend thousands on hand gauges, or shall we invest in one system that does everything?”

John Padkin Metparts

About Optimax

Optimax is one of the UK's leading independent production metrology, optical inspection and force testing specialists.

We offer a technical and solution-based approach to our customer's industrial inspection and measurement applications.

With UKAS accreditation and an experienced team of qualified engineers, we also provide calibration, service, repairs, upgrades and training.

Contact us to find out more about how we can support your production metrology and visual inspection requirements.

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Easy to use Deltron Solution Solves the Problem

Metparts are committed to delivering the highest quality engineered products to the maximum accuracy both for their subcontract customers and internally for their Sewsystems range. Their requirements are for an easy-to-use measurement system that can be used by multiple users to measure internal and external dimensions to a high degree of accuracy and create a measurement report for internal QA records and for the customer. Having received a measurement solution from Optimax previously, Met Parts were confident in their purchase of the Deltron system.

Significant impact to inspect small and large objects

The flexibility and small footprint of the Deltron has been one of the key benefits to MetParts. Deltron is a robust and accurate CNC coordinate measuring machine, combined with compact footprint, but with substantial construction to ensure stability. This is made possible by its delta mechanism incorporating carbon fibre rod construction, and well developed easy to use software. The system can measure volumes up to 520mm dia. X 300mm high, has fully automated 3-axis CNC control and is always accurate with built in ambient temperature compensation.

The simple use of the system allows it to be used by up to three technicians at MetParts and has become natural and easy to use in a short time. This technique is now common with use this type of set up now as routine in operations - which has been a huge benefit enough said stated John Padkin. The ability to easily produce results has also proved to be an advantage to MetParts meaning that there are measured printed results rather than subjective measurements from manual gauges.

Calibration

The equipment is UKAS calibrated by Optimax, ensuring that it conforms to an internationally recognised standard, providing an independently audited process of verification.

Our thanks to MetParts

"We saw that the Deltron was the most suitable device – really ticking all the boxes. Most competitor equipment is fixed to a stage which would not allow us to fit our workpieces below it. With such a complex process you must have a good view of the components, so the flexibility and manoeuvrability of the articulated arm mount is crucial. The overlay grids also offer useful reference for scale, which is ample for this application."

John Padkin



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