



Baty Velo System Accelerates Quality Checks for Metallo



Customer

Metallo Ltd.

Industry

Precision Milling

Challenge

Replace time-consuming manual inspection of components.

Solution

Baty Velo FV

APPLICATION BACKGROUND

Metallo Ltd. is a CNC subcontract manufacturing business based in Blantyre, South Lanarkshire. The company provides precision milling and turning services and brings together more than a century of combined engineering expertise, supplying machined components to customers across a range of sectors, including electronics, defence, and general manufacturing.

The business supports requirements ranging from prototype parts to production volumes, working with materials such as aluminium, stainless steel, brass, and nickel-based alloys including Inconel. Metallo's focus is on delivering accurate, reliable components and maintaining a responsive service from enquiry through to delivery.

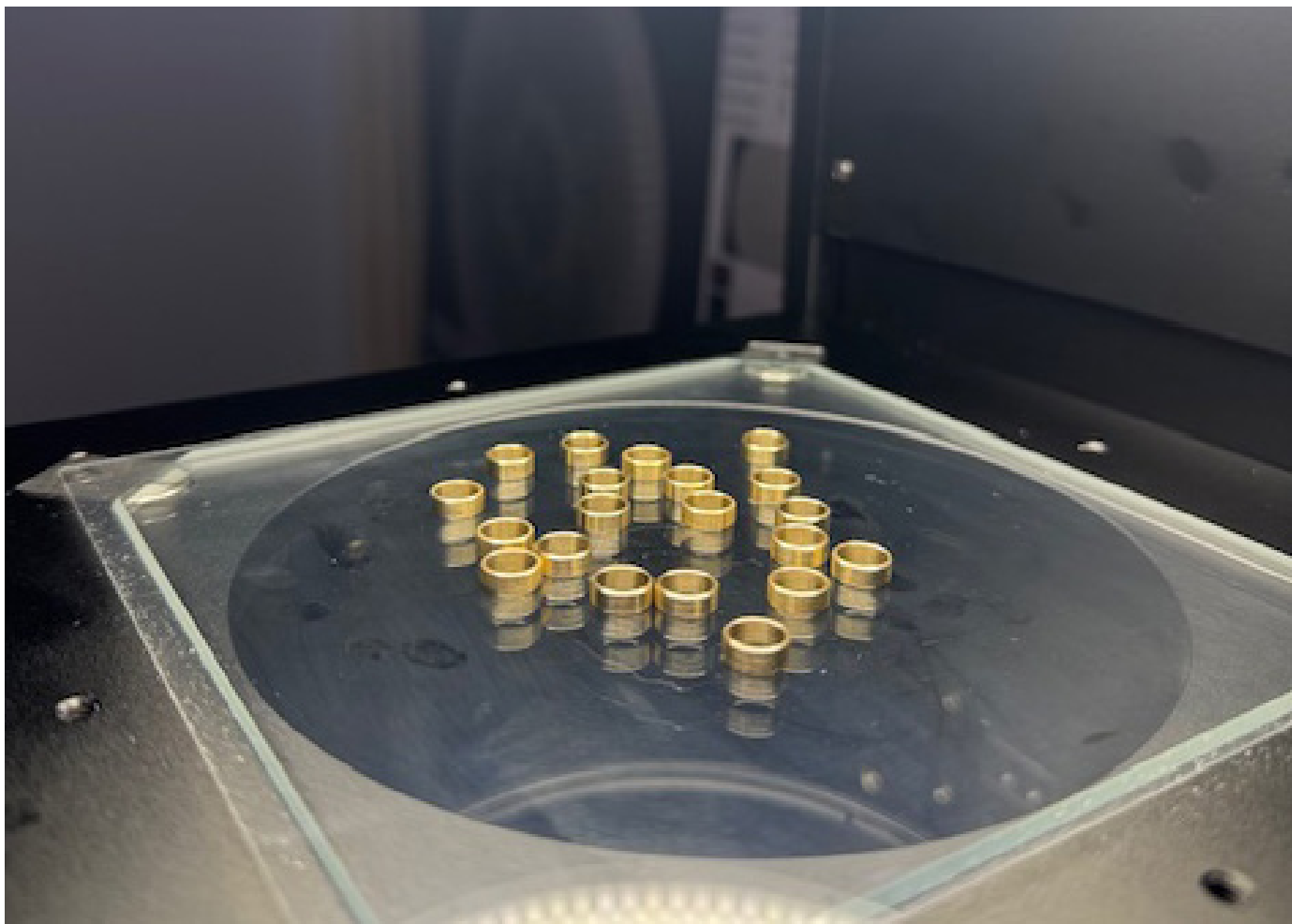
Given the nature of the components produced, consistent quality and accurate inspection are essential. Customers rely on components meeting specification, and any deviation can lead to delays or additional costs.

THE CHALLENGE

Before investing in automated inspection, Metallo relied primarily on manual measurement methods such as shadowgraphs, micrometres, and handheld gauges. While suitable for many applications, these methods were time consuming and dependent on operator technique, leading to a variation in results.

Manual inspection placed a significant strain on the workload of engineers and quality personnel, which slowed down component verification and limited how quickly parts could be approved and released into production.

As demand increased, this approach became a bottleneck within the workflow and reduced the time engineers could dedicate to other critical tasks. Metallo identified the need for a faster, repeatable, and more consistent inspection approach to support ongoing production demands.



THE SOLUTION

To modernise and automate its inspection process, Metallo invested in a Baty Velo FV supplied by Bowers Group.

A compact, automated optical inspection system designed for fast, repeatable measurement of precision components, the Baty Velo FV allows multiple features to be inspected in a single cycle with minimal operator input, helping manufacturers reduce inspection time while improving consistency and accuracy.

The system is utilised by both the engineering and quality departments and is used daily to measure a wide range of components, from parts as small as 1mm in diameter up to components measuring 40mm.

The Velo FV enables automated measurement of multiple features in a single cycle. Components are placed in the system and inspection routines are run with minimal manual input, reducing reliance on traditional measurement tools for many applications.

Since installation, Metallo has reduced inspection times by an average of around 30 percent on parts previously measured manually.

This has helped accelerate production flow and increased confidence in measurement accuracy and consistency. The Velo's straightforward operation has allowed it to be adopted quickly with minimal training.

“A quality inspection which previously took hours is now completed in minutes.”

Comment

Jordan Higgins, Managing Director at Metallo, said: “The quality inspection is no longer a hurdle with the implementation of the Baty Velo. The inspection system is unbelievable in speed and accuracy, and because it is so simple to use, it requires very little training.

“A quality inspection which previously took hours is now completed in minutes, with even more accurate results. Our engineers and quality team are extremely happy with the system, and working with Bowers Group has been a smooth and professional experience from start to finish.”



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