



Boneham & Turner Achieves New Levels of Accuracy with Baty Venture FV



Customer
Boneham & Turner Ltd.

Industry
Precision Engineered Parts



Challenge
To reduce inspection errors on batch measurements.



Solution
Baty Venture FV 3020



APPLICATION BACKGROUND

Boneham & Turner, a well-established precision engineering company with over 106 years of expertise, specialise in precision-engineered jig and fixture tooling, as well as the manufacture of highly accurate and complex custom shims.

With a long-standing reputation for quality and expertise, the company serves industries that demand the highest standards of precision and reliability, including aerospace, automotive, defence, and motorsport. In these sectors, even the slightest variation in component tolerances can lead to significant operational challenges, which is why Boneham & Turner's products are designed to meet the most stringent specifications.

THE CHALLENGE

As Boneham & Turner continue to grow and meet the increasingly rigorous demands of its clients, the company has experienced increasing challenges in its inspection processes. One of the key

issues arose with the inspection of micro pins, which were particularly difficult to measure in batches larger than five.

This limitation not only slowed down their workflow but also left room for potential errors during the inspection phase. With the need for higher precision and faster turnaround times, the company identified a lack of adequate inspection equipment as a significant bottleneck in its operations.

This deficiency led to repeated inspection errors, compromising efficiency and consistency, and highlighted the urgent need for more advanced, reliable measurement solutions to maintain the quality standards expected by its clients.

THE SOLUTION

To address the challenges they were facing, Boneham & Turner made a strategic investment in a range of

high-precision measurement tools from Bowers Group. This included the new Baty Venture FV 3020, an instant, non-contact measuring system designed for precision inspection, offering fast and accurate measurement of complex components through advanced vision technology.

Brought in to enhance its in-process checks and final inspections, with a focus on critical components such as dowel pins, drill bushes, and shims, the Baty Venture FV 3020 has been particularly effective for Boneham & Turner's batch inspection process. The system's sophisticated vision measurement technology has drastically improved the speed of inspections whilst maintaining the very highest standards of precision. Its ability to quickly and accurately measure multiple complex geometries simultaneously has enabled the team to conduct batch inspections more efficiently, handling larger volumes while maintaining strict quality standards.

The Baty Venture FV 3020 is a versatile, fully automated, non-contact measuring system designed for precision inspections. With advanced vision technology and easy-to-use software, it offers accurate measurements for complex components and geometries, making batch inspections more efficient across various materials.

Its user-friendly interface allowed the team at Boneham & Turner to quickly master its operation. With high-magnification and advanced lighting, it continues to deliver clear, reliable results, helping to significantly better part quality.

The Venture FV has also improved repeatability and streamlined the inspection process, leading to faster, more consistent outcomes, eliminating potential errors and maintaining high standards of quality.

COMMENT

Stacy Denton Beaumont, Group General Manager at Boneham & Turner said: "Many of our customers require parts to very intense specifications. Previously, we could only inspect a maximum batch of 5 micro pins at a time, but with the Baty Venture FV 3020 now we can check significantly larger quantities quickly and reliably, maintaining very tight tolerances.

We've experienced higher levels of repeatability, a faster inspection process, and overall improvement in the quality of our parts. With the right equipment in place, we've reduced return rates and eliminated repeated inspection errors."

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