



# CUSTOMER STORY

Discover how Coker Engineering transformed their inspection to move away from manual methods and remove bottlenecks thanks to turned part measurement from VICIVISION UK.

# PROJECT BRIEF

With over 40 years' experience, Coker Engineering is one of the largest engineering companies in the South West of England. Providing precision sub-contract manufacturing services to a wide range of industries, Coker Engineering operates 30 CNC machines from its purpose-built facility in Taunton.



Coker produce more than 250,000 parts per month, with a big emphasis on not only producing quality parts but being able to deliver them quickly to customers.

A key challenge that they faced was in the quality department, with manual inspection methods causing a bottleneck in production and first-off and in-process checks taking time due to the manual nature of the Talyrdon inspection devices they were using.

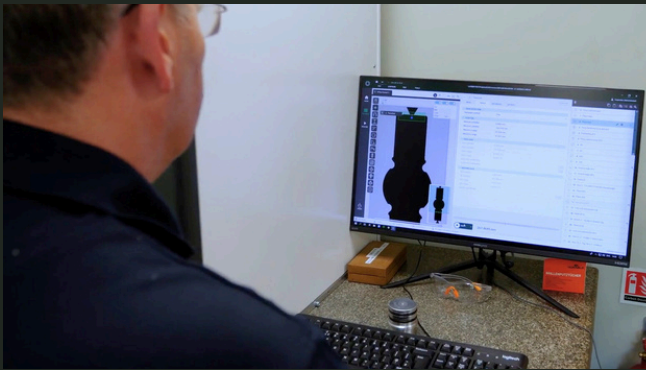
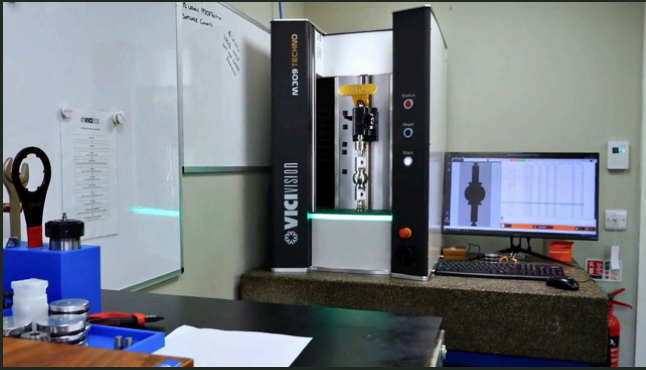
Coker Engineering were looking to improve their inspection processes, to deliver greater speed, accuracy and reliability of their inspection, in particular for the geometric inspection of piston pins.

Giles Throup, Managing Director at Coker Engineering, said: "We were relying on Talyrdon conventional, contact, roundness checking machines. Part of the problem that we had was the manual centring and levelling. Even the most experienced engineers would get multiple decimal places of variation from one measurement to the next on the same part; that's not acceptable.

"We were spending just as much time measuring parts as we were making parts and, as the volume grew and grew, it just wasn't viable. We needed a faster solution."



# THE SOLUTION



Coker Engineering invested in the VICIVISION Techno M309 machine to alleviate their inspection bottleneck and reliably deliver high-quality inspection reports for their customers.

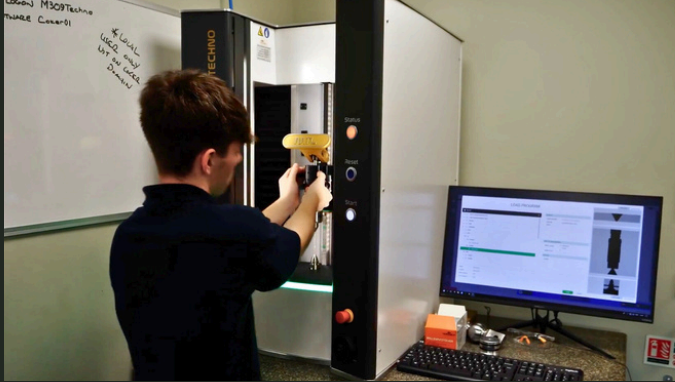
After a tendering process, an on-site demonstration of the M309 convinced Coker Engineering that the VICIVISION was the perfect machine for their requirements, not only to measure the piston pins but to measure a large majority of other components they manufacture as well.

“The number one driving factor behind the investment was its accuracy and repeatability,” Giles said. “The M309 was the machine that was demonstrated to us here on site and it was the results that demonstrated that that piece of kit was on par, if not better, than our Talyrond in terms of accurately and repeatably producing roundness and cylindricity results to the accuracy that we needed.”

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# THE BENEFITS



The VICIVISION has transformed the way Coker Engineering are able to check the quality of their parts straight from the shopfloor and has delivered a return on investment within its first year.

Operators are now able to take their first-off components straight from the CNC machine to the VICIVISION and inspect parts within seconds, reducing machine down-time, improving productivity and reducing lead times for their customers.



Giles said: “The amount of time that we've saved on inspection throughput is hundreds of man hours per year. Not only has that saved us time in the inspection process itself, a massive chunk of that time goes straight back into productivity and production output. So, it's really a double whammy in terms of the saving that it has generated for us.”

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When we were initially looking at the return on investment, we were forecasting it should pay for itself within two years. We're coming up to a year after investment on the VICIVISION and it has already paid for itself.

Jayzee Boyne, Finance Director





Faraday House, Woodyard Lane, Foston, Derbyshire, DE65 5BU  
01283 585933 | [info@vicivision-uk.com](mailto:info@vicivision-uk.com)

