



# The ultimate measuring devices for turned parts



Discover accuracy, precision and industrial quality control with the full range of VICIVISION measurement technologies.





# High precision

contactless measurement on the shopfloor

“ The benefits are its speed, its consistency and its performance. We can put our parts through the VICIVISION knowing it will be quick and it will measure all the key features that we need. For any company looking for a shaft vision machine, don't buy anything until you've looked at VICIVISION UK. It's opened doors we could never have imagined before. ”

Stephen Doyle, Sales & Marketing Manager, Trust Precision Engineering



## The way we manufacture has changed. **The way we measure is changing.**

Speed is of the essence. Customers are increasingly wanting their parts faster, right-first-time and at a price point that appeals.

It's a tricky combination to get right and manufacturers are looking for new solutions that can help them achieve this elusive trio of fast lead times, quality and cost.

VICIVISION UK's range of optical measurement machines offer one potential solution, delivering instant inspection for all part requirements in a matter of seconds.

The technology, which is built into a compact footprint, is easy to position next to sliding head lathes for speed of movement, providing repeatable accurate measurement of valves, cams and cylinders.

Advanced optics and software are embedded into all of our machines to measure turned components with the highest levels of precision, guaranteeing that parts meet exacting tolerances expected by modern-day industry at the first time of asking.

Repeatability is also key. Automated measurement routines can be quickly devised and implemented to deliver consistent results, eliminating the risk of human error in the process.

The popularity of this emerging technology is growing fast, with VICIVISION machines currently in use on shopfloors across the UK and Ireland, supporting companies involved in automotive, aerospace, construction, medical and renewables.

Our machines are not confined to a narrow range of part dimensions either. They span over a large spectrum, from the intricate world of micro-components to the robust realm of large machine parts.

### Data to make the right decisions

We live in a world where data is increasingly important and VICIVISION can meet this requirement by producing customisable reports to facilitate real-time decision making.

This means shopfloor staff can track key metrics to help them identify issues and areas of improvement, optimising throughput and eliminating guesswork that can often prove so costly.

At our state-of-the-art demonstration centre in Derbyshire, you will be able to explore our full range of VICIVISION machines and begin to understand how they can help you minimise downtime, disruption and scrap through the power of instant accurate measurement.

### Will you invest in the ultimate measuring device for turned parts?



# The benefits of VICIVISION optical measurement for turned parts

## Speed of measurement

VICIVISION provides full part measurement in a matter of seconds, allowing operators to instantly adjust lathe parameters. This real-time insight, coupled with 100% inspection, keeps production flowing smoothly and optimises output volume.

## Repeatable inspection

Automated measurement routines ensure that part inspection is highly repeatable and consistent, eliminating the risk of human error and standardising measurement results regardless of user skill.

## Improved accuracy & precision

Advanced optics and software ensures turned parts are measured with high levels of precision, guaranteeing that parts are manufactured to the correct tolerances every time to improve productivity and reduce errors and waste.

## Comprehensive measurement reports

VICIVISION delivers customisable reports to facilitate data-driven decision making. Track key metrics to identify areas within production for improvement, optimisation and consistency, eliminating guesswork from the shopfloor.

## Designed for the shopfloor

Designed for the rigours of the shopfloor, VICIVISION machines integrate seamlessly into existing production lines alongside sliding head lathes. A compact footprint and robust construction combats even the harshest of environments.

## Reduced downtime, scrap & waste

Minimise downtime, scrap and waste by scrutinising real-time data from lathe operations. Check first-off components instantly, meaning minimal disruption to manufacturing and that parts are being made to specification.

## Measure all turned parts

VICIVISION is the perfect solution for measuring a wide range of turned parts, including threads, fasteners, crankshafts, camshafts, dental implants, turbines and much more.



# Traditional inspection vs. VICIVISION optical measurement

The way you measure your products has a dramatic effect on your production quality and productivity.

## Increase inspection efficiency

Measuring products on traditional measurement systems, such as manual gauges and shadowgraphs, uses valuable inspection time and relies on sensors having physical contact with a component. This can limit measurement capabilities, increase the risk of damaging or moving delicate and flexible components and add up to a significant loss of productivity. Consider the following measurement comparison of the same component.

### Traditional inspection

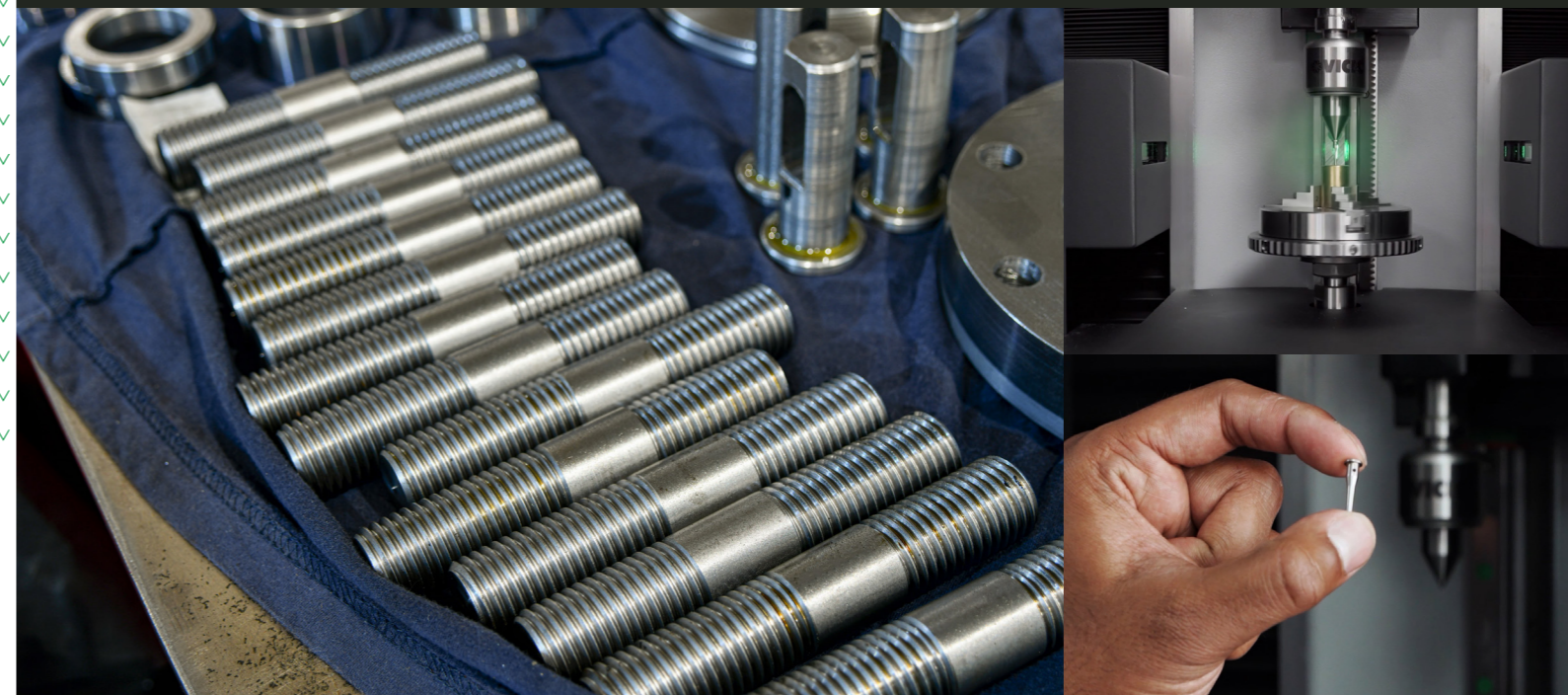
Component Features	Number of Features Measured	Time
12	8	4 Minutes

Optical measurement systems provide a new dimension to component analysis, offering a more complete, versatile and comprehensive approach to the inspection of a component with even greater levels of efficiency. See below.

### VICIVISION optical measurement

Component Features	Number of Features Measured	Time
12	12	45 seconds

See VICIVISION in action



# The perfect partner for your sliding head lathe

Having inspection capabilities alongside your sliding head lathe allows you to quickly check parts and gives you confidence that parts are being made to specification.

As engineering and manufacturing industries continue to advance, guaranteeing high-quality, right-first-time components is vital to remain competitive within the market.

It is imperative to pick up any inaccuracies in parts as early as possible in the manufacturing process, particularly for first-off components so as to reduce waste and scrap.

VICIVISION's optical measurement systems are purposefully designed for the shopfloor, featuring temperature compensation and a robust build to withstand the harshest of manufacturing environments.

With sub-micron repeatability and minimal training required, any user can carry out inspections on the VICIVISION machine with pre-determined measurement programmes to ensure minimal downtime in production.



**Built for the shopfloor**



**Temperature compensation**



**Prevents the '8 Wastes'**



**Instant part inspection**



**User friendly**



**Immediate results**



# Measure any size parts

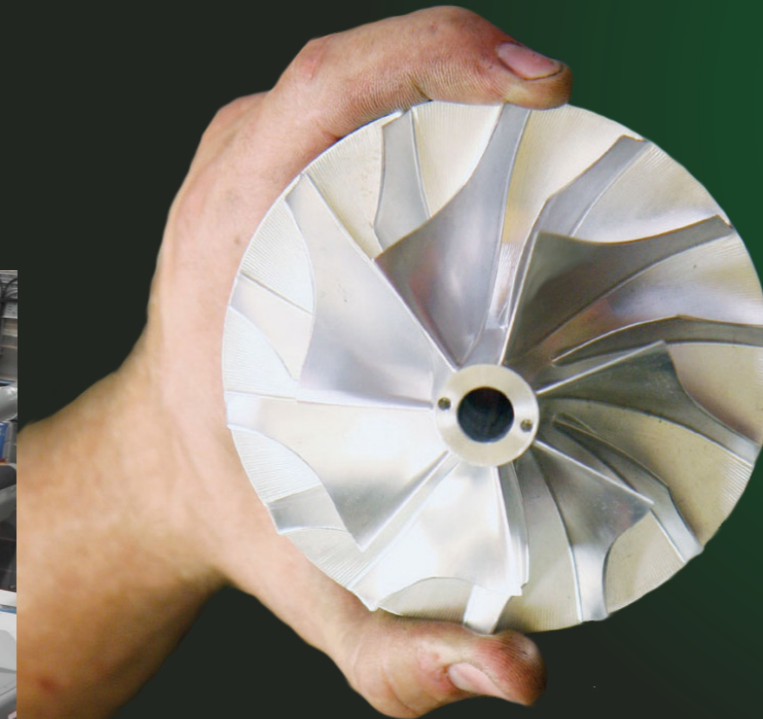
2000mm+

Bridging the gap between small and large components.

VICIVISION optical measurement machines are not confined to a narrow range of part dimensions. They span over a large spectrum, from the intricate world of micro-components to the robust realm of large machine parts.

Whether it's the demanding precision of the oil and gas sector, the cutting-edge technology of aerospace, the life-critical accuracy of medical devices, or the robust demands of automotive manufacturing, VICIVISION machines expertly measure all sizes of turned parts.

With a diameter range of up to 240mm and lengths ranging from 0.1mm to two metres, VICIVISION machines effortlessly accommodate a diverse array of components.



0.1mm → 240mm+

Measure part lengths from 0.1mm to 2000mm+ and diameters up to 240mm+



0.1mm



# PRIMA Range

Detect hundreds of measurements in seconds.

PRIMA is the perfect tool to start your turned part measurement journey, providing an easy-to-use system to measure hundreds of features on threads, screws and bolts in a matter of seconds.

Efficiently programme the PRIMA for streamlined measurement processes with a simplified interface and Dream software. The Vivian measurement assistant wizard guides users step-by-step, reducing learning time for efficient measurement.

## Key Features:

- High-resolution optical camera for full-part clarity.
- Capable of measuring parts of varying shapes and dimensions.
- Instant reporting provides measurement insights in seconds.
- Precision clamping secures parts just like a sliding head lathe.
- Automated measurement routines eliminate risk of human error.
- Robust design and built-in temperature compensation suited for shopfloor environments.

## PRIMA 300 Series

**PRIMA 300 Series from £189 per week\***

\*Indicative price for base machine only, subject to credit approval

### Specifications:

<b>Measuring Field:</b>	ranges from 300 x 60mm to 300 x 140mm
<b>Accuracy:</b>	1.5+D[(mm)/200] μm 3.5+L[(mm)/200] μm
<b>Repeatability:</b>	0.4 μm / 2 μm

## PRIMA 600 Series

**PRIMA 600 Series from £226 per week\***

\*Indicative price for base machine only, subject to credit approval

### Specifications:

<b>Measuring Field:</b>	ranges from 600 x 60mm to 600 x 140mm
<b>Accuracy:</b>	1.5+D[(mm)/200] μm 3.5+L[(mm)/200] μm
<b>Repeatability:</b>	0.4 μm / 2 μm



Industry 4.0. Ready



# Techno Range

Achieve unrivalled accuracy and benchmark reliability in measuring cylindrical parts with the Techno range, which ticks all the boxes for achieving lean manufacturing.

The Techno range from VICIVISION is designed specifically for measuring turned parts, such as those used in the automotive, aerospace and medical industries. From large turned components to micro parts, Techno provides measurement flexibility to meet your inspection requirements.

## Key Features:

- High-resolution cameras to capture the minutest of features.
- Wide measurement scope to suit all part sizes and requirements.
- Robust design and built-in temperature compensation suited for shopfloor environments.
- Measurement accuracy of 1 micron to meet strict industry requirements.
- Advanced LED lighting system provides optimal illumination for accurate measurements.
- Precision clamping secures parts just like a sliding head lathe.

## Techno M300 Series

Techno M300 Series from £205 per week\*

\*Indicative price for base machine only, subject to credit approval

### Specifications:

<b>Measuring Field:</b>	ranges from 300 x 40mm to 300 x 180mm
<b>Accuracy:</b>	1+D[(mm)/200] μm 3+L[(mm)/200] μm
<b>Repeatability:</b>	0.3 μm / 1,2 μm

## Techno M1200 Series

Techno M1200 Series from £417 per week\*

\*Indicative price for base machine only, subject to credit approval

### Specifications:

<b>Measuring Field:</b>	ranges from 1250 x 90mm to 2000 x 180mm
<b>Accuracy:</b>	1.5+D[(mm)/100] μm 4+L[(mm)/100] μm
<b>Repeatability:</b>	0.4 μm / 3 μm



Industry 4.0. Ready





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