



OPTICAL  
MEASURING  
MACHINES



**60**

million in  
revenue



**260**

employees  
worldwide



**06**

branches  
worldwide



**40**

specialized  
center



**10**

patents  
filed



**100%**

renewable  
energy



**38**

average  
age



**2** **partners**

Pecchioli research  
Gre snc



## SINCE 1977 SPECIALISTS IN INDUSTRIAL AUTOMATION

VICIVISION is a brand of VICI & C. S.p.A., a family-run industrial company with a strong international presence.

Founded with the aim of offering advanced technological solutions, the company began its operations by assembling electronic boards, then specialized, starting in the late 1980s, in the design and construction of automated lines for the automotive sector.

In the following years, the growing demand for optical measurement systems in the industrial field led to a new strategic development: **in 1999, VICIVISION was established**, a brand of optical measuring machines dedicated to the dimensional inspection of shafts and turned components in the industrial sector.

Expansion continued in 2016 with the opening of VICIVISION America to serve the North and Central American markets offering dedicated sales, training, technical service, and ongoing local support.

Over the years, the company has transformed industrial metrology into a fast, automated process that is directly accessible on the production floor. Today, VICIVISION represent a global benchmark in optical measurement for turned and plastic components, integrating precision, speed, and intelligent automation.

PRECISION  
AND SPEED,  
WITHOUT  
COMPROMISE



VICIVISION machines are designed for those who produce cylindrical and rotational components and require speed, precision, and continuous control.

**FAST AND EASY**

Measure turned parts in just a few seconds with a single click.

**RELIABLE**

Goodbye human errors: results are always repeatable.

**VERSATILE AND COMPLETE**

All dimensional inspections in a single machine.

**DIRECTLY ON THE PRODUCTION FLOOR**

100% guaranteed quality without leaving the shop floor..

**REDUCED DOWNTIME,  
SCRAP, AND WASTE**

With VICIVISION, measuring in the workshop becomes easy and reliable. Every machine delivers fast results with exceptional accuracy, integrating directly into the production cycle.

*"VICIVISION represented a turning point for our entire company, and therefore for all our staff. Its versatility is such that it allows operators at Bavieri to independently check, at any moment during production, the performance of the machine. Measuring the part and its diameter guarantees tolerances below one hundredth of a millimeter. We can also continuously check roundness, cylindricity, and coaxiality of all turned components. Vici performs all these operations in just 34 seconds." Bavieri Alfeo s.r.l. - Italy*

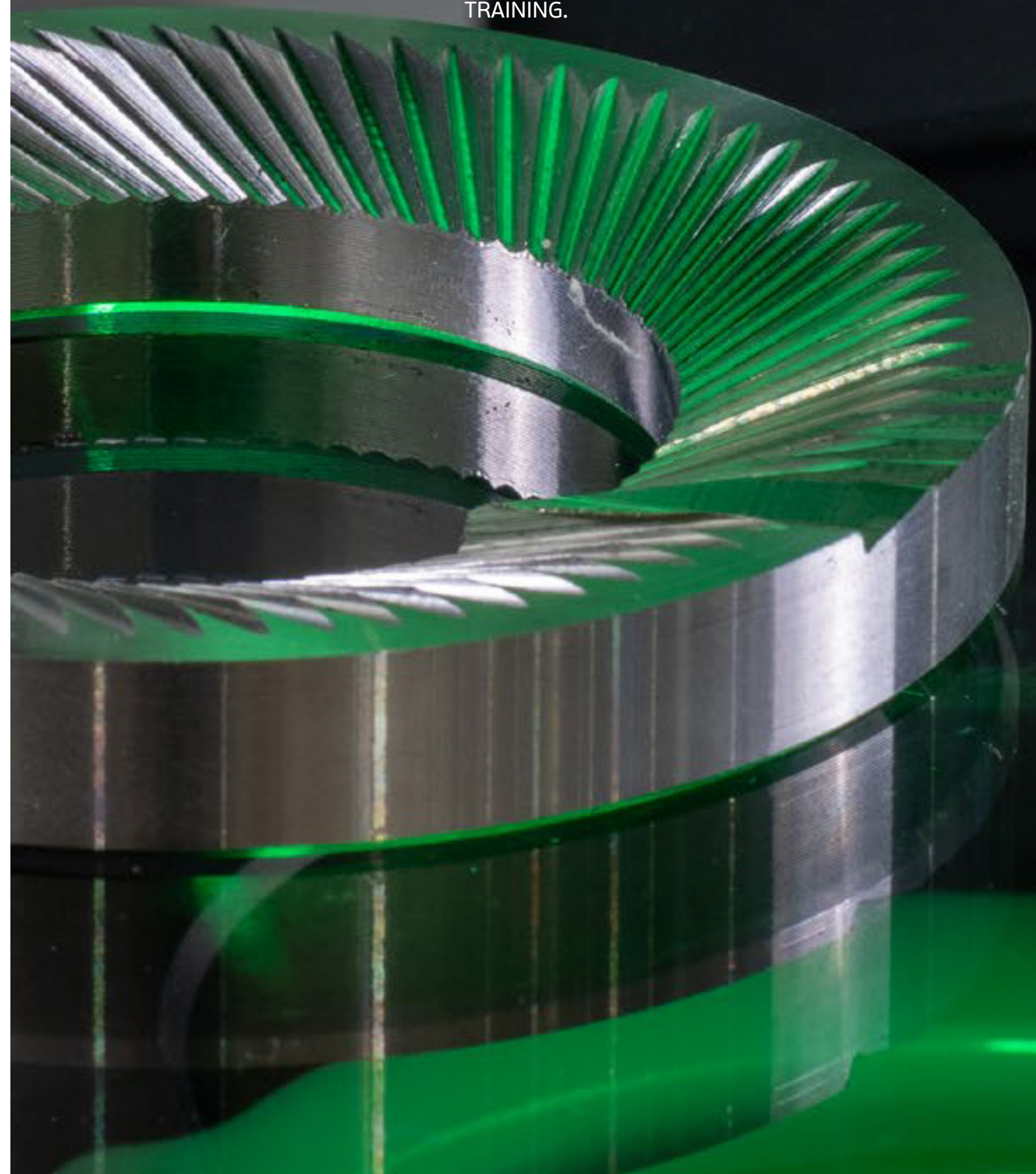
*"Today, five VICIVISION systems directly support our production. We operate various cold forming, threading, rolling, and machining machines, and we have reduced measurement times to just 30 to 50 seconds depending on the type of part. Thanks to the dimensional inspections carried out with VICIVISION, we guarantee complete traceability of the process, from the first to the last component."*

Novicril s.a., Spain

QUALITY  
CONTROL  
SIMPLIFIED

AUTOMATIC MEASUREMENT.  
IMMEDIATE RESULTS. ZERO  
ERRORS.

NO NEED FOR MANUAL  
INSTRUMENTS AND COMPLEX  
TRAINING.



# WHY CHOOSE VICIVISION

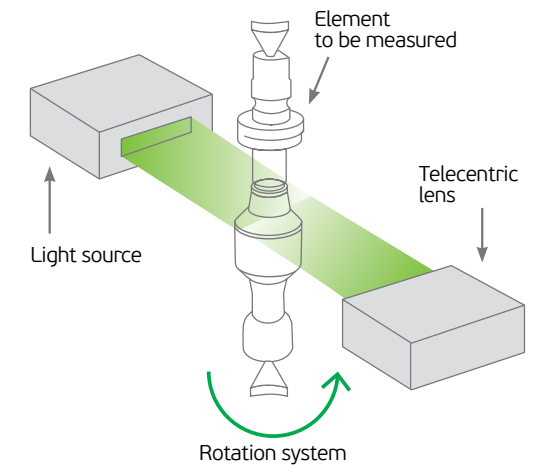
IMMEDIATE AND PRECISE MEASUREMENTS, DIRECTLY ON THE PRODUCTION FLOOR.



# FAST, ACCURATE, RELIABLE

Using manual instruments, quality control can easily become an operation prone to errors. VICIVISION MTL machines embody the experience of thousands of customers worldwide.

A single instrument combines the functions of profile projectors, micrometers, and limit gauges, eliminating human error during measurement acquisition and enabling the management of the collected data.



## STATIC MEASUREMENTS

- diameter
- length
- angle
- radius
- chamfer

## DYNAMIC MEASUREMENTS

- coaxiality
- run-out
- circularity
- cylindricity
- conicity

## THREAD MEASUREMENTS

- nominal diameter
- pitch diameter
- minor diameter
- flank angle
- pitch
- thread height

## NUT MEASUREMENTS

- wrench size
- asymmetry
- keying

## PROFILE MEASUREMENTS

- comparison with DXF
- DXF export

## CONTACT MEASUREMENT

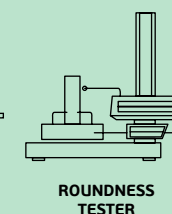
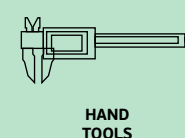
- total axial run-out
- undercuts
- keyways: depth, width, length

## THREAD MEASUREMENTS

- cams
- eccentrics
- turbines

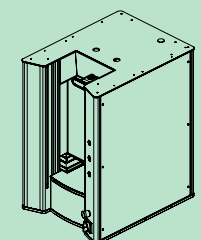
## Traditional measurement system

- 10 to 30 minutes of measurement time.
- Data dependent on human intervention.
- Difficult to use.
- Need for data collection.



## VICIVISION measurement system

- 30 to 60 seconds of measurement time.
- Eliminates operator error.
- One-button automatic cycle.
- Automatic data collection.



# APPLICATIONS



## AUTOMOTIVE

**Components for internal combustion and electric motors such as transmission shafts, pistons, camshafts, crankshafts, valves, turbines, etc., and other industry components.**

### TYPICAL CHALLENGE

The need to measure production parts quickly and accurately in large volumes, ensuring 100% compliance and reducing scrap in automated production lines.

### SOLUTION

VICIVISION solves the problem by performing complete inspections in just a few seconds directly in-line, eliminating human errors even on complex components without dedicated instruments or software.



## AEROSPACE

**Fuel tubes, actuator components, and precision turned parts.**

### TYPICAL CHALLENGE

Ensuring traceability and absolute quality on critical parts with tight dimensional tolerances, complying with aerospace standards, and measuring large components.

### SOLUTION

VICIVISION provides high-precision optical measurements on every part, accelerating process control by tracing every measurement detail on components up to 250 mm in diameter and 2000 mm in height.



## MEDICAL AND DENTAL

**Orthopedic implants (bone screws, prosthetic components, etc.), dental implants (abutments, screws, etc.), and medical devices (syringes, needles, containers, files, etc.).**

### TYPICAL CHALLENGE

Ensuring dimensional precision on micro-components with small and complex details to guarantee regulatory compliance.

### SOLUTION

VICIVISION optical measurement enables the verification of micro-geometries (threads, radii, hexagons) without contact and in a repeatable manner, essential in the medical sector where errors are unacceptable. In addition, software specifically developed for industry ensures the traceability of every requirement related to stringent regulations.



## HYDRAULICS, FLUID POWER AND PNEUMATICS

**Fittings, valves, pistons, eccentric shafts, nozzles, etc.**

### TYPICAL CHALLENGE

Ensuring the performance of components that, if out of tolerance, could cause pressure losses or malfunctions.

### SOLUTION

VICIVISION enables automatic inspection of these parts directly on the shop floor, ensuring dimensional quality and immediately identifying defective parts before assembly.



## PRECISION MECHANICS AND WATCHMAKING

**Miniaturized shafts, pins, dowels, and turned micromechanical components.**

### TYPICAL CHALLENGE

Measuring micro-sized parts with extremely tight tolerances without deforming them.

### SOLUTION

VICIVISION, with high-resolution telecentric optics, enables the measurement of diameters and shapes of micro-components with high accuracy and without contact, supporting the quality requirements of the industry.



## ROBOTICS AND AUTOMATION

**Motion transmission components (linear actuators, ball screws, etc.), electric motor parts, cams, precision pins and dowels, etc.**

### TYPICAL CHALLENGE

Loss of geometric precision such as roundness errors, concentricity issues, and runout.

### SOLUTION

VICIVISION optical measuring machines automatically inspect roundness, concentricity, and runout of cylindrical components directly in production. Fast, non-contact measurement allows deviations to be identified immediately, and the process is corrected before out-of-tolerance parts are produced.

# SIMPLE, PRECISE, ACCESSIBLE

THE FIRST STEP INTO THE WORLD  
OF PRECISION OPTICAL MEASUREMENT.

## PRIMA/SERIES

From 60 to 140 mm in diameter, from 300 to 900 mm in length.

### ADVANTAGEOUS ON THE SHOP FLOOR

An optical shopfloor measuring system that boosts productivity, speeds up inspections, and reduces scrap and machine downtime.

It combines 90% of the most used measuring instruments into a single solution, delivering a fast return on investment.

### DESIGNED FOR EVERYDAY USE

The real image of the piece and the large working area provide a clear and immediate view.

The retractable sensors keep the space clear during loading and unloading, while the ergonomic lever with a wide grip allows both left- and right-handed operators to clamp or release the part without obstructing the view.



306 PRIMA



614 PRIMA

# QUALITY WITHOUT COMPROMISE

TOP-LEVEL PERFORMANCE COMBINED  
IN A MODULAR RANGE



## TECHNO/SERIES

From 40 to 180 mm in diameter, from 300 to 2000 mm in length.

### IMPROVES PRODUCTIVITY

Enables operators to perform inspections independently and allows tools to be adjusted before they go out of tolerance, reducing scrap.

### DIRECT INSPECTION ON THE SHOP FLOOR

Each part can be measured in just a few seconds, even in small batches, thanks to rapid format changeover and immediate setup.

### VERSATILE AND POWERFUL

A single machine can serve multiple workstations while maintaining objective measurements. Very high-resolution images and a load capacity of up to 90 kg make it possible to handle even large-sized parts.



M304 TECHNO



M1218 TECHNO

# LARGE DIAMETERS

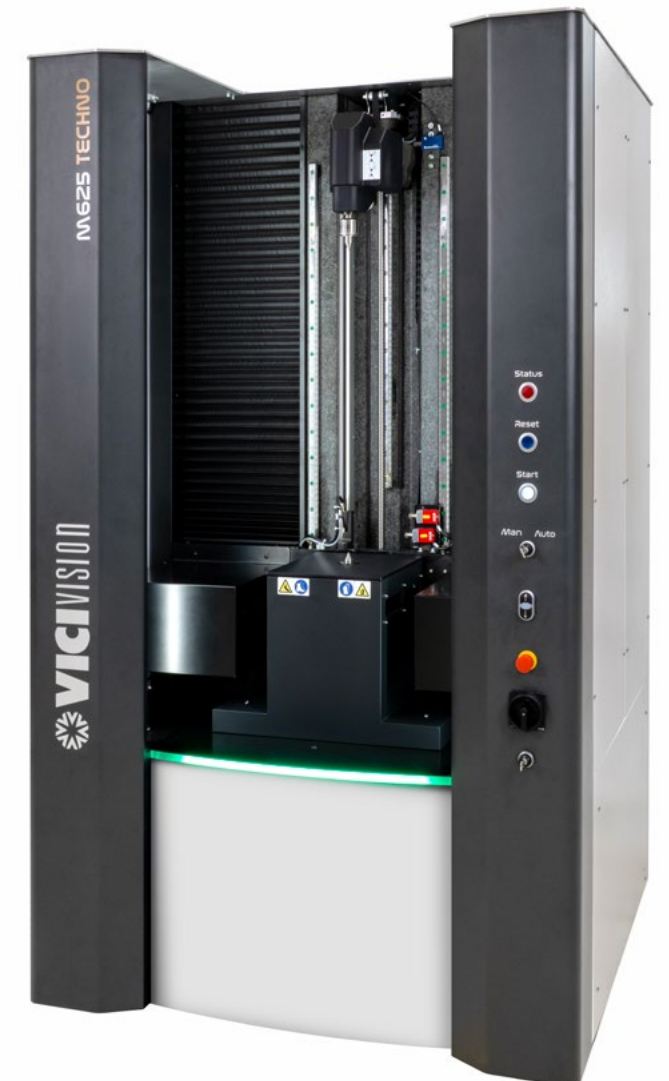
HIGH PERFORMANCE  
FOR MEASURING  
PARTICULARLY  
LARGE AND HEAVY  
PARTS.



## TECHNO/SERIES

Up to 250 mm in diameter and 600 mm in height.

The M652 TECHNO is designed for the dimensional inspection of components up to 600 mm in height, 250 mm in diameter, and weighing up to 200 kg, ensuring reliable performance even on particularly demanding parts. The high-precision optical configuration guarantees stable and repeatable measurements, while the reinforced mechanical structure allows operations to be carried out with complete safety, even on massive components. Designed for those who require high precision on components with significant dimensions and weight, the M625 TECHNO represents a modern and robust solution, ideal for ensuring consistent quality in industrial applications that demand the highest level of reliability.



M625 TECHNO

# MAXIMUM PRECISION ON THE SMALLEST DETAILS

A SPECIFIC SOLUTION  
FOR BIOMEDICAL IMPLANTOLOGY,  
WATCHMAKING, AND  
MICROMECHANICS IN GENERAL.



## X/SERIES

From 8 to 60 mm in diameter, from 100 to 300 mm in length.

### IDEAL FOR MICRO-COMPONENTS

The X Series is designed for the measurement of dental implants, biomedical components, watchmaking parts, eyewear components, and micromechanical parts. Its ultra-high resolution makes it possible to detect even the smallest details, delivering precision that is unmatched in the industry.

### DESIGNED FOR MAXIMUM PRACTICALITY

Direct access simplifies the loading and unloading of even the most delicate parts. The stationary-part configuration with moving optics prevents vibrations and accidental drops, while the enclosed design avoids the loss of micro-components.



X5



X360

# AUTOMATED SOLUTIONS

OPTICAL MEASUREMENT  
MEETS AUTOMATION.

## FLOW/SERIES

From dental and biomedical micro-components to micromechanical parts.

### PATENTED SOLUTIONS

A patented, automatic, and efficient solution designed to deliver the highest level of precision in the inspection of dental implants, biomedical components, watchmaking parts, eyewear components, and micromechanical parts. Perfect for those who demand high quality standards without compromising productivity.

### INTELLIGENT AUTOMATION, CONTINUOUS CONTROL

Integration with automatic loading and unloading systems transforms the measurement of micro-components into a continuous, uninterrupted process.

Automatic part selection and scrap management ensure consistent production flows, minimizing operator intervention and maximizing the overall efficiency of the production line.



X5 FLOW

# DEDICATED AUTOMATED SOLUTIONS FOR VALVES

COMPLETE AND AUTOMATIC  
INSPECTION OF VALVES FOR  
INTERNAL COMBUSTION ENGINES (ICE).

## AUTOMATION/SERIES

The synergy between automation and optical measurement technology.

### PP6

#### PICK & PLACE MACHINE FOR VALVE MEASUREMENT

PP6 is a compact and high-speed machine for the static measurement of ICE valve profiles, already adopted in various production lines. It operates in both directions and is equipped with a pick-up/off-load station for the automatic transfer of valves. With simple configuration, it handles both passenger car and truck valves and sends PLC signals for the ejection and separation of out-of-tolerance valves.

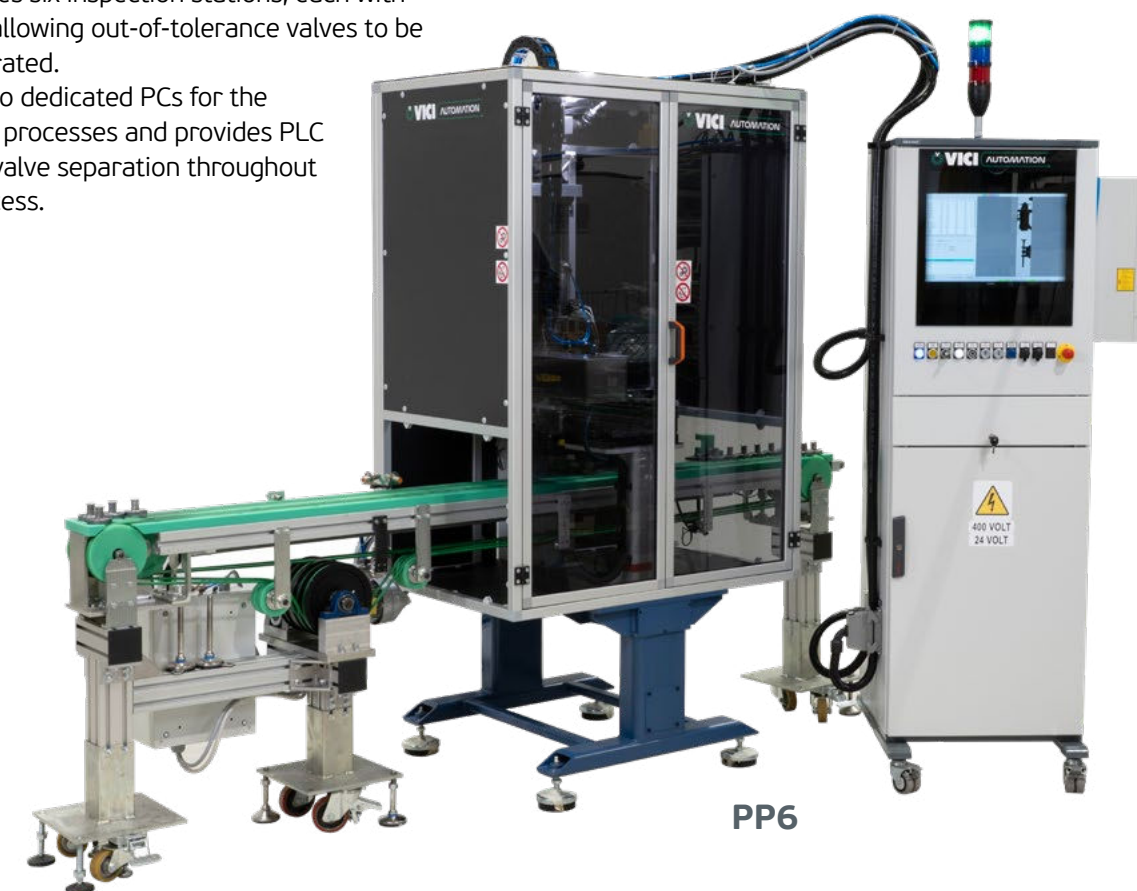


### MVI

#### MACHINE FOR VALVE SURFACE AND DIMENSIONAL INSPECTION

MVI is a compact and fast machine that performs static measurements on ICE valve profiles while also inspecting their surfaces and is already used in various production lines. It is available in multiple configurations, with different operating directions, with or without dimensional inspection, and with or without pick-up/off-load functionality. It can be adapted for both passenger car and truck valves in the MVI 850Evo and 450T versions. The machine includes six inspection stations, each with its own reject line, allowing out-of-tolerance valves to be automatically separated.

The system uses two dedicated PCs for the different inspection processes and provides PLC signals to manage valve separation throughout the production process.



PP6

# EVEN MORE COMPLETE

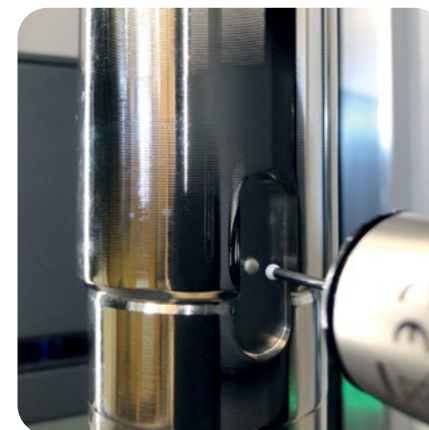
VICIVISION MEASURING MACHINES FROM THE TECHNO SERIES CAN BE EQUIPPED WITH ADDITIONAL SENSORS THAT MAKE IT POSSIBLE TO DETECT DETAILS NOT ACCESSIBLE THROUGH OPTICAL MEASUREMENT ALONE.

The VICIVISION experience combines the speed of optical measurement with the capabilities offered by the touch probe and the confocal sensor.

## Touch Probe

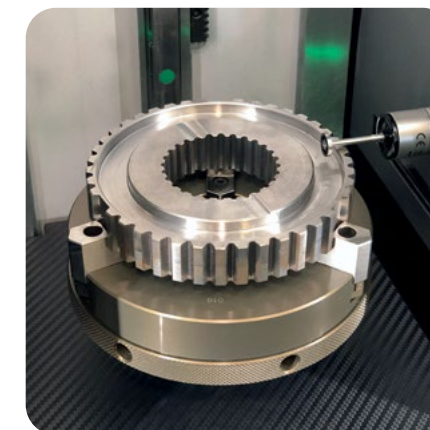
The touch probe for contact measurement offers more measurement possibilities for shafts and turned parts within the same measurement cycle, saving time directly on the shop floor.

With a single machine, in addition to all the measurements already detected by the optical system, it is possible to measure undercuts, total axial run-out, and keyways.



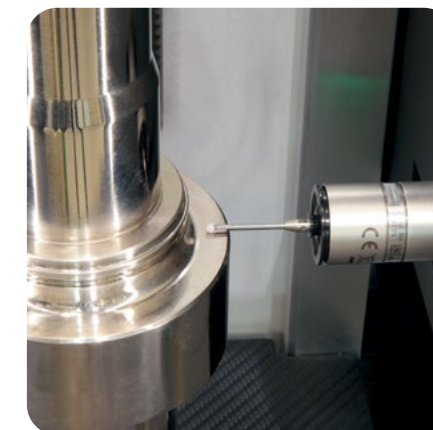
### KEYWAYS

Measure keyways directly in the machine without having to remove the part.



### UNDERCUTS

Many dimensions originate on portions of the part that are not visible with optics. Detect these points with the touch probe on the same instrument.

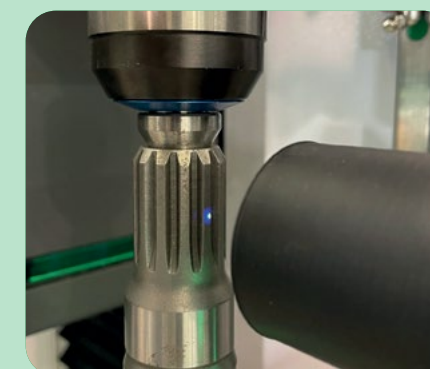
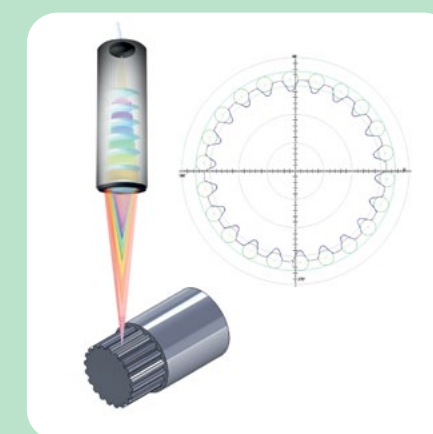


### TOTAL AXIAL RUN-OUT

Measure total axial run-out using the correct method for the best possible results.

## Confocal

The confocal function makes it possible to verify the conformity of splined shafts with extreme speed. By reconstructing the entire profile, it is possible to detect the internal diameter, the run-out thread height, and the run-out pitch diameter, which are typical dimensions of these components.



### SPLINED SHAFTS

Verify the conformity of a splined shaft in just a few seconds using the confocal option.

# DREAM, THE VICIVISION SOFTWARE

REDUCE TRAINING TIME  
IN PROGRAMMING

## Simplified graphical interface

Forget the manual, simplify  
the steps, and speed up  
programming.

## Multitrend: the entire production process at a glance

Keep track of the drift of multiple  
measurements simultaneously  
and in real time. Take timely  
action with tool correction to  
eliminate scrap parts.



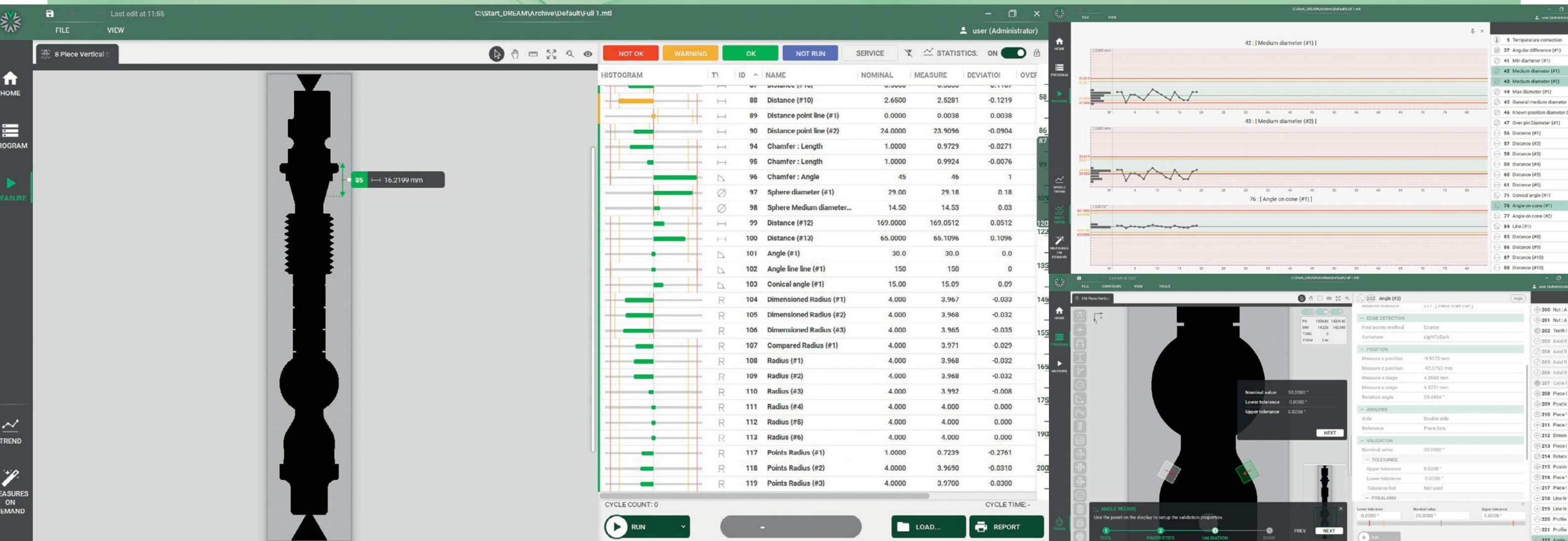
## Let VIVIAN guide you

VIVIAN is the virtual assistant developed  
by VICIVISION to guide operators in a  
simple, clear, and immediate way.

Thanks to advanced Retrieval Augmented  
Generation technology, VIVIAN  
interprets user requests and provides  
instructions based directly on the official  
documentation, transforming even the  
most complex operations into an intuitive  
process accessible to everyone.

Designed to operate without an  
internet connection and with minimal  
computational resources, VIVIAN provides  
continuous support for system use, helps  
resolve minor operational issues, and  
drastically reduces personnel training  
times.

Perfect for those looking to optimize  
production efficiency, VIVIAN supports  
operators step by step in configuring  
measurements, creating programs, and  
solving minor issues. It is a reliable guide,  
always available, enabling users to quickly  
acquire skills and accelerate the learning  
process.

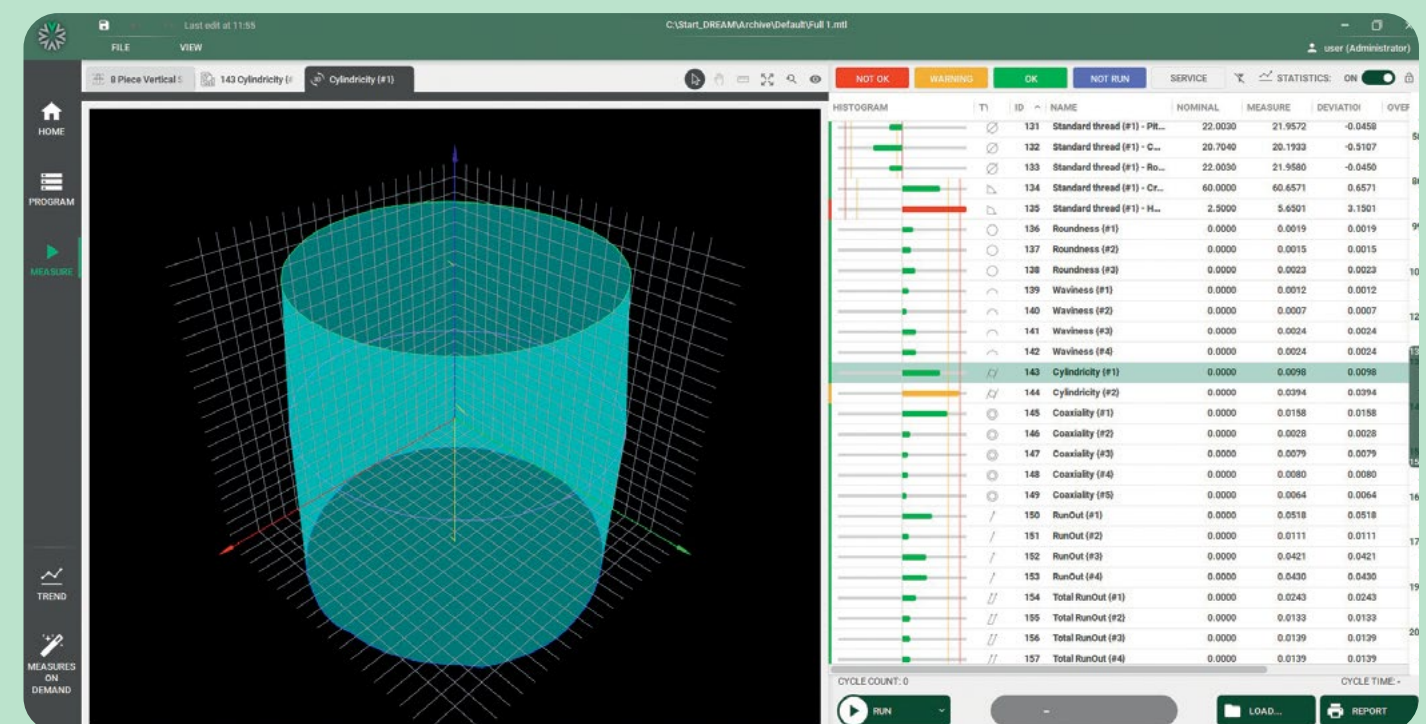
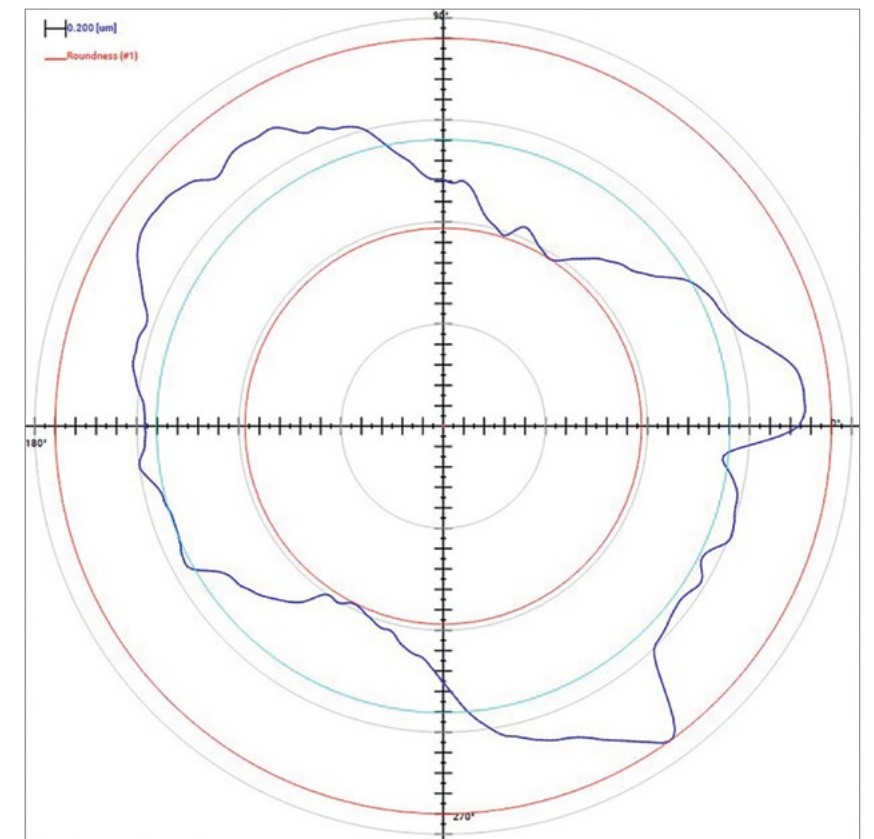


# MEASURING FORM ERRORS ON THE SHOP FLOOR

VICIVISION PERFORMS FORM MEASUREMENTS DIRECTLY IN PRODUCTION ENVIRONMENTS, WHERE SPECIFIC INSTRUMENTS SUCH AS ROUNDNESS TESTERS WOULD BE AFFECTED BY ENVIRONMENTAL CONDITIONS.

In just a few seconds, it is possible to perform:

**CIRCULARITY**  
**AXIAL AND RADIAL RUN-OUT**  
**COAXIALITY**  
**CYLINDRICITY**



Thanks to multi-rotation and software filtering systems, it is possible to obtain form measurements even on threaded elements such as bolts and pins.

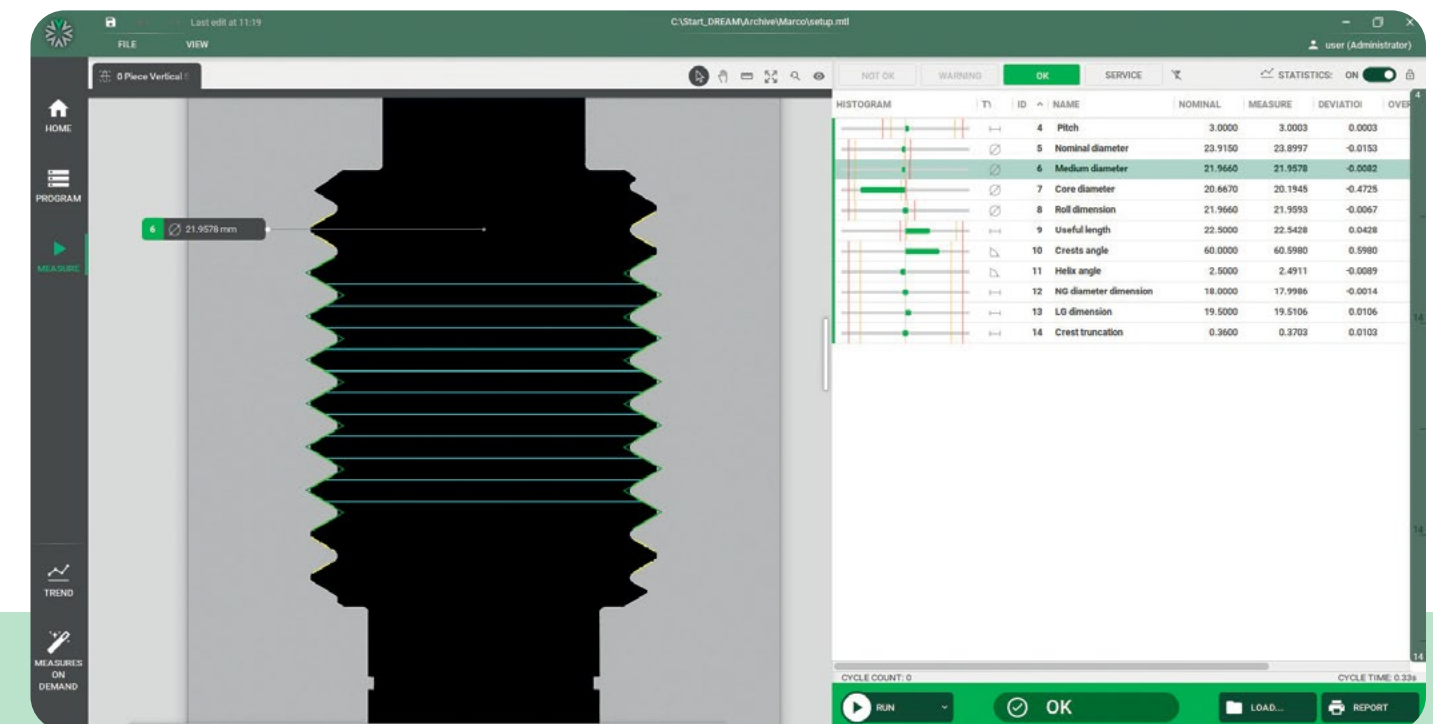
# MEASURING THREADS

A DEDICATED TOOL FOR THE MEASUREMENT  
AND VALIDATION OF THREADS.

## All the software tools for thread measurement

With VICIVISION MTL, it is possible to measure different types of threads in just a few seconds. To enable simple and fast programming

for standard threads, the machine includes preloaded tables with nominal values and tolerances. Various measurements can be taken on threads, such as pitch, nominal diameter, minor diameter, flank angle, lead angle, and measurement over wires.



## Threads produced by cutting or thread rolling?

VICIVISION has developed its thread measurement tools in collaboration with its customers. For each parameter, it is possible to validate either the average value of the entire thread or, alternatively, validate each individual thread crest, highlighting which

parts of the thread are within tolerance, which are at the limit, and which are out of tolerance. Validation of the average value is ideal for manufacturers producing threads through chip removal machining. Validation of individual thread crests is recommended for thread rolling processes, where roller wear can result in part of the thread being compliant and another part being out of tolerance.

# SPECIAL APPLICATIONS

VICIVISION SOFTWARE INCLUDES DEDICATED TOOLS FOR THE MEASUREMENT OF: CAMSHAFTS, ECCENTRIC SHAFTS, AND TURBINES.

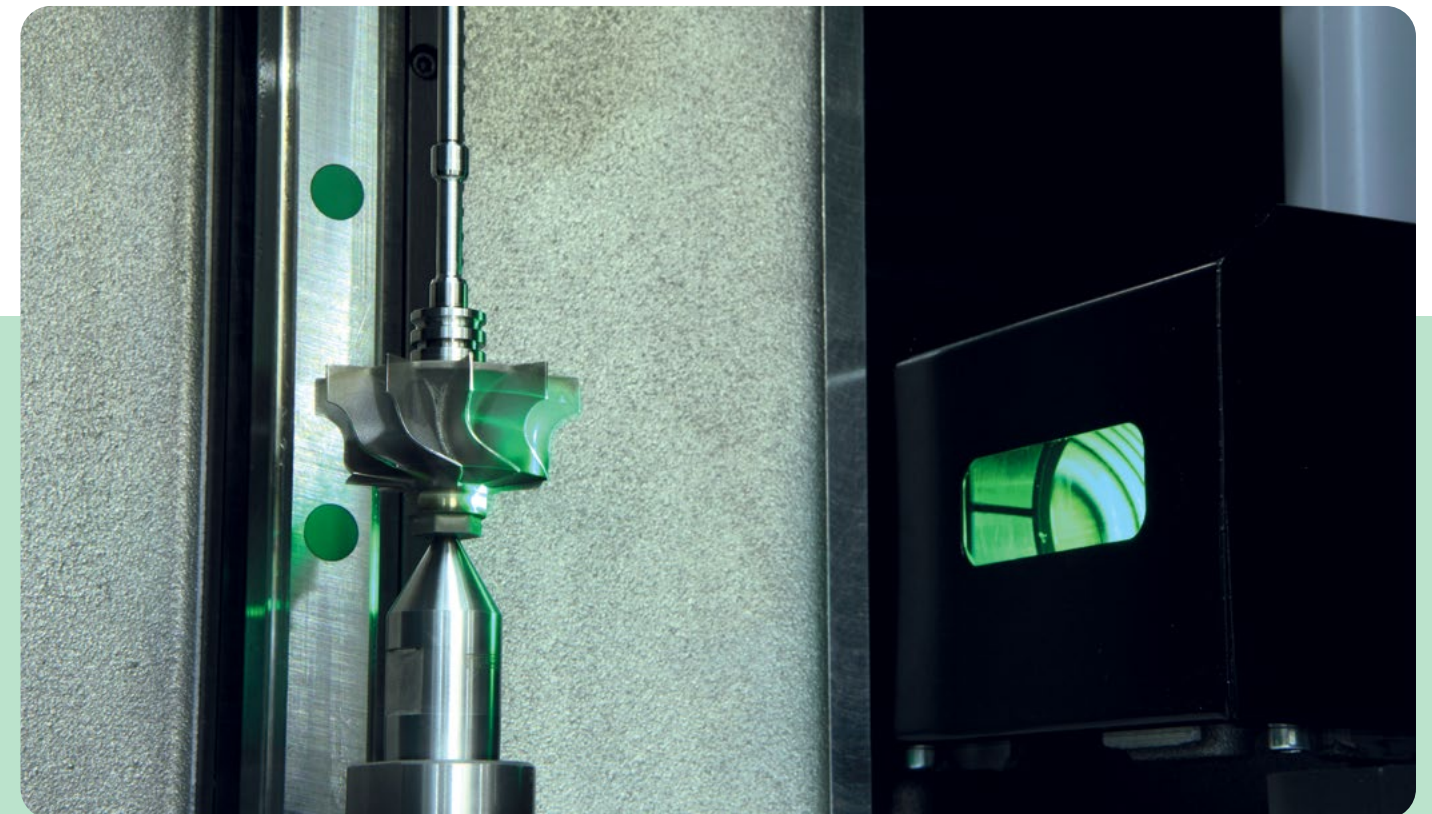
## Measuring camshafts

Simply enter a few parameters, such as the cam base radius, the type of follower, and the motion law, to obtain:

- validation of the base radius;
- the maximum cam lift;
- the deviation of the calculated profile from the theoretical profile;
- velocity deviation;
- acceleration deviation;
- run-out of the base profile.

## Measuring shafts with eccentrics

Dozens of solutions are available for measuring eccentric journals (pins), including form measurements such as circularity, cylindricity, run-out, and calculation of the eccentricity value.



## Measuring turbines

Dedicated functions make it possible to determine the position of the known diameter on the rotating impeller. Likewise, it is possible to compare the part profile with its corresponding DXF file.

# MULTIPLY PRODUCTIVITY

AUTOMATION, TOOL COMPENSATION,  
INTEGRATION WITH ROBOTIC SYSTEMS,  
AND INTELLIGENT SOLUTIONS.

## Automatic tool parameter compensation

The Tool Wear Compensation function allows production parameters to be corrected, eliminating human error in data transcription. The software reads CSV files, processes them, calculates compensations, and makes the data available to a PLC through Profinet or Profibus nodes, with the aim of implementing tool wear compensation.

The measurement system automatically

collects data and generates a report in PDF format. The data can also be exported and saved in CSV format.



## Integration possibilities with robots

VICIVISION measurement systems can be integrated into automated production lines to monitor the entire manufacturing process through robotic part loading and the use of communication protocols such as Profinet, Profibus, Ethernet, and others.

## Pneumatic, electric, and smart tailstocks

VICIVISION tailstocks are designed to adapt to different levels of automation and production requirements.

The pneumatic version is ideal for parts with constant height and is simple and fast to use, even manually.

The electric version offers greater flexibility for parts of varying dimensions and can be integrated into robotic cells.

The smart version adds automatic height control and full robot management, ensuring precision, safety, and operational continuity in the most advanced production lines.



# EFFICIENCY AND SPEED IN CHANGEOVERS

Every production changeover requires measuring the first parts to set up the machining center correctly. With a VICIVISION machine installed directly on the shop floor, this operation takes just a few minutes, eliminating the need to use the metrology room. The result is time savings of up to one hour and an immediate increase in productivity.

## Instant program recall with QR codes

Simply scan a QR code or barcode to instantly load the correct measurement program. This feature also allows additional information, such as the operator's name, machining cycle, and batch number, to be recorded, making every inspection faster, more accurate, and fully traceable.



## Flexible fixturing for every application

A wide range of Morse Taper 2 (MT2) accessories allows virtually any workpiece to be clamped quickly and securely. Centers in various sizes, tailstocks, chucks, and automation systems with pneumatic or electric tailstocks enable the machine to be configured for any production requirement, improving operator convenience, inspection speed, and measurement accuracy.

# DESIGNED FOR THE PRODUCTION ENVIRONMENT

## On-board calibration standard

The integrated step master ensures the correct operation of the instrument under all conditions by automatically compensating for temperature variations.

This allows the machine to be used directly on the shop floor while consistently maintaining maximum measurement accuracy.



## Intelligent thermal control

A temperature sensor continuously monitors both the environment and the part, ensuring dimensional stability even during the thermal changes typical of production.

The result is reliable and consistent inspection without the need to move parts to the metrology room.

## Automatic contact temperature sensor

The VICIVISION automatic contact temperature sensor enables fast and reliable temperature measurement of any workpiece without interrupting the production process.

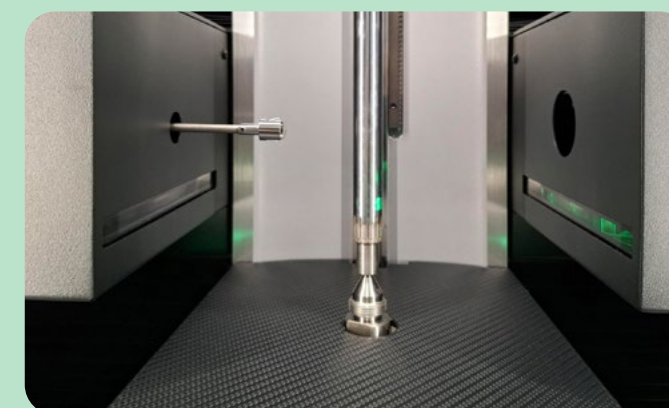
The sensor measures temperature regardless of the material or size of the component, comparing nominal values with actual measurements to ensure compliance with process specifications.



## Simple and Precise Clamping

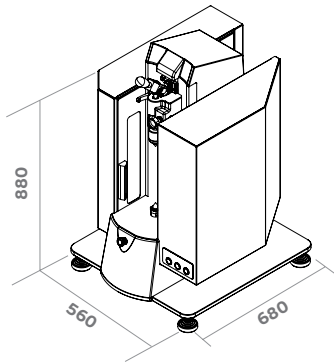
The tailstock slides on prismatic guideways with recirculating ball bearing blocks, ensuring long-term stability and consistent accuracy.

The rack-and-pinion system enables quick and intuitive adjustment, while the interchangeable Morse Taper 2 (MT2) clamping accessories provide maximum versatility for measuring a wide range of workpieces.

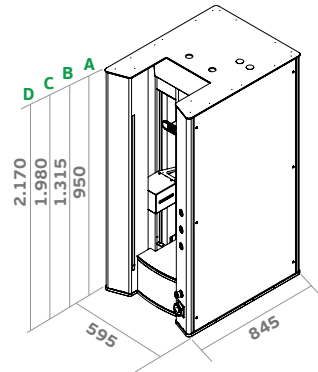


# SPECIFICATIONS

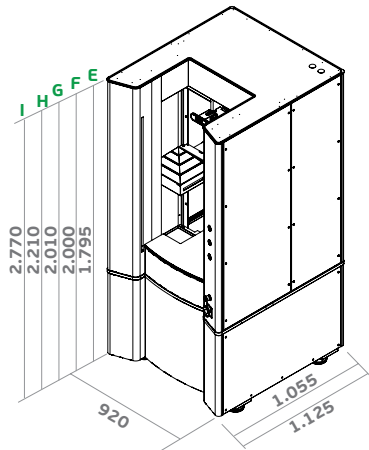
LAYOUT 1



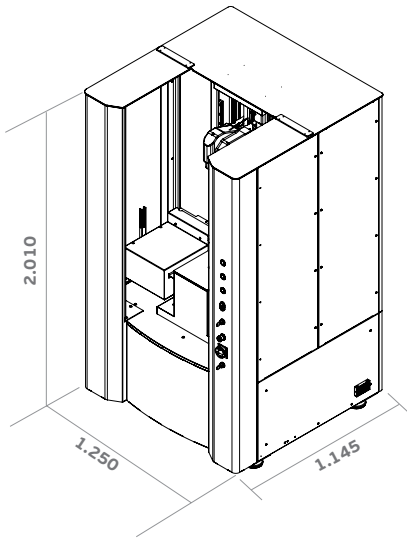
LAYOUT 2



LAYOUT 3



LAYOUT 4



|              | Layout     | Measuring field |  | Max. loadable sizes | Accuracy <sup>(1)</sup><br>ø - L           | Repeatability <sup>(2)</sup><br>ø - L | Size LxPxH        | Power supply |           |               |
|--------------|------------|-----------------|--|---------------------|--------------------------------------------|---------------------------------------|-------------------|--------------|-----------|---------------|
|              |            |                 |  |                     |                                            |                                       |                   | Voltage      | Frequency | Nominal power |
| MTL X5       | LAYOUT 1   | 100x16 mm       |  | 270x90 mm - 3 kg    | (1,5+0,01 D[mm]) µm<br>(4+0,01 L[mm]) µm   | 0,4 µm / 3 µm                         | 560x660x860 mm    | 230 V        | 50/60 Hz  | 1,73 A        |
| MTL X10      | LAYOUT 1   | 100x8 mm        |  | 270x90 mm - 3 kg    |                                            |                                       | 560x660x860 mm    |              |           |               |
| MTL X360     | LAYOUT 2/A | 300x60 mm       |  | 300x120 mm - 10 kg  | (1+0,02 D[mm]) µm<br>(3+0,02 L[mm]) µm     | 0,3 µm / 1.2 µm                       | 595x845x950 mm    | 230 V        | 50/60 Hz  | 1,73 A        |
| 306 PRIMA    | LAYOUT 2/A | 300x60 mm       |  | 300x120 mm - 10 kg  |                                            |                                       | 595x845x950 mm    |              |           |               |
| 309 PRIMA    | LAYOUT 2/A | 300x90 mm       |  | 300x120 mm - 30 kg  | (1,5+0,02 D[mm]) µm<br>(3,5+0,02 L[mm]) µm | 0,4 µm / 3 µm                         | 595x845x950 mm    | 230 V        | 50/60 Hz  | 1,73 A        |
| 314 PRIMA    | LAYOUT 3/E | 300x140 mm      |  | 300x240 mm - 30 kg  |                                            |                                       | 920x1055x1795 mm  |              |           |               |
| 606 PRIMA    | LAYOUT 2/B | 600x60 mm       |  | 625x120 mm - 30 kg  |                                            |                                       | 595x845x1315 mm   |              |           |               |
| 609 PRIMA    | LAYOUT 2/B | 600x90 mm       |  | 625x120 mm - 30 kg  |                                            |                                       | 595x845x1315 mm   |              |           |               |
| 614 PRIMA    | LAYOUT 3/F | 600x140 mm      |  | 625x240 mm - 30 kg  |                                            |                                       | 920x1055x2000 mm  |              |           |               |
| M304 TECHNO  | LAYOUT 2/A | 300x40 mm       |  | 300x120 mm - 10 kg  | (1+0,02 D[mm]) µm<br>(3+0,02 L[mm]) µm     | 0,3 µm / 1.2 µm                       | 595x845x950 mm    | 230 V        | 50/60 Hz  | 1,73 A        |
| M306 TECHNO  | LAYOUT 2/A | 300x60 mm       |  | 300x120 mm - 10 kg  |                                            |                                       | 595x845x950 mm    |              |           |               |
| M309 TECHNO  | LAYOUT 2/A | 300x90 mm       |  | 300x120 mm - 30 kg  |                                            |                                       | 595x845x950 mm    |              |           |               |
| M314 TECHNO  | LAYOUT 3/E | 300x140 mm      |  | 300x240 mm - 30 kg  |                                            |                                       | 920x1055x1795 mm  |              |           |               |
| M318 TECHNO  | LAYOUT 3/E | 300x180 mm      |  | 300x240 mm - 30 kg  |                                            |                                       | 920x1055x1795 mm  |              |           |               |
| M604 TECHNO  | LAYOUT 2/B | 600x40 mm       |  | 625x120 mm - 30 kg  | (1+0,02 D[mm]) µm<br>(3+0,02 L[mm]) µm     | 0,3 µm / 1.2 µm                       | 595x845x1315 mm   | 230 V        | 50/60 Hz  | 1,73 A        |
| M606 TECHNO  | LAYOUT 2/B | 600x60 mm       |  | 625x120 mm - 30 kg  |                                            |                                       | 595x845x1315 mm   |              |           |               |
| M609 TECHNO  | LAYOUT 2/B | 600x90 mm       |  | 625x120 mm - 30 kg  |                                            |                                       | 595x845x1315 mm   |              |           |               |
| M614 TECHNO  | LAYOUT 3/F | 600x140 mm      |  | 625x240 mm - 30 kg  |                                            |                                       | 920x1055x2000 mm  |              |           |               |
| M618 TECHNO  | LAYOUT 3/F | 600x180 mm      |  | 625x240 mm - 30 kg  |                                            |                                       | 920x1055x2000 mm  |              |           |               |
| M625 TECHNO  | LAYOUT 4   | 600x250 mm      |  | 600x300 mm - 200 kg | (1,5+0,02 D[mm]) µm<br>(4+0,02 L[mm]) µm   | 0,8 µm / 2,5 µm                       | 1250x1145x2010 mm | 230 V        | 50/60 Hz  | 1,73 A        |
| M906 TECHNO  | LAYOUT 2/C | 900x60 mm       |  | 925x120 mm - 30 kg  |                                            |                                       | 595x845x1980 mm   |              |           |               |
| M909 TECHNO  | LAYOUT 2/C | 900x90 mm       |  | 925x120 mm - 30 kg  | (1+0,02 D[mm]) µm<br>(3+0,02 L[mm]) µm     | 0,3 µm / 1.2 µm                       | 595x845x1980 mm   | 230 V        | 50/60 Hz  | 1,73 A        |
| M914 TECHNO  | LAYOUT 3/F | 900x140 mm      |  | 925x240 mm - 60 kg  |                                            |                                       | 920x1055x2000 mm  |              |           |               |
| M918 TECHNO  | LAYOUT 3/F | 900x180 mm      |  | 925x240 mm - 60 kg  |                                            |                                       | 920x1055x2000 mm  |              |           |               |
| M1209 TECHNO | LAYOUT 2/D | 1250x90 mm      |  | 1300x120 mm - 30 kg |                                            |                                       | 595x845x2170 mm   |              |           |               |
| M1214 TECHNO | LAYOUT 3/G | 1250x140 mm     |  | 1300x240 mm - 60 kg | (1,5+0,01 D[mm]) µm<br>(4+0,01 L[mm]) µm   | 0,4 µm / 3 µm                         | 920x1055x2010 mm  | 230 V        | 50/60 Hz  | 1,73 A        |
| M1218 TECHNO | LAYOUT 3/G | 1250x180 mm     |  | 1300x240 mm - 60 kg |                                            |                                       | 920x1055x2010 mm  |              |           |               |
| M2018 TECHNO | LAYOUT 3/I | 2000x180 mm     |  | 2000x240 mm - 60 kg |                                            |                                       | 920x1125x2770 mm  |              |           |               |

(1) Maximum permissible error according to EN ISO 10360-7, specifically applied to optical measuring machines for shafts, referring to artifacts certified by an EN ISO 17025 accredited laboratory (plus calibration master uncertainties U(d): 0.5 µm and U(l): 1 µm), made of steel, with ground surfaces and standard geometry. Environmental conditions: 20 ± 0.5°C, maximum thermal gradient 0.5 K/h. The estimated uncertainty considers a coverage factor K=2, corresponding to a confidence level of approximately 95%.

(2) Repeatability calculated over 10 repetitions on ground surfaces.

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