

The New VisionGauge® 600 Series System Checks Turned and Rotationally Symmetrical Parts

The New 600 Series VisionGauge® Digital Optical Comparators are designed to check turned and rotationally symmetrical parts with high accuracy.

POINTE-CLAIRE, QC, CANADA, April 3, 2025 /EINPresswire.com/ -- We are pleased to announce the release of the new [600 Series VisionGauge® inspection & measurement system](#).

This new system is designed first & foremost to inspect & measure turned and rotationally symmetrical parts, such as:

- Screws,
- Bolts
- Rivets



The new 600 Series VisionGauge® inspection & measurement system allows manufacturers to automatically check turned and rotationally symmetrical parts, across a wide range of industries.”

VISIONx, Inc.

- Medical Device manufacturing
- Aerospace



The New 600 Series VisionGauge® inspection & measurement system is a complete benchtop solution that is perfect for checking turned parts

- Shafts
- Other turned or formed parts...

On the 600 Series VisionGauge® system, the part is mounted vertically and the system has two motorized encoded axes: one for part rotation and another for vertical movement (i.e. to move up & down the length of the part).

The system is used across a wide range of industries, including:

- Fastener industry
- Automotive,
- Etc...

It has ultra-bright all-LED programmable & computer-controlled illumination, both transmitted (i.e. back illumination) to verify the part's outline, as well as reflected (i.e. front illumination) to also inspect & measure surface features.

The 600 Series VisionGauge® system has a very high-resolution optical system, with a large depth-of-field and a long working distance and an optical accuracy better than ± 0.00015 " (i.e. 4 μ m). It produces very crisp & clear, high-contrast, high-resolution images.

The 600 Series system has all of VisionGauge®'s advanced software capabilities, including:

1. CAD Auto-Align™: This patented groundbreaking tool automatically aligns a CAD overlay to a specific part, feature or datum(s) during inspection. Within seconds, it produces repeatable results without any operator supervision, drastically reducing inspection time and improving measurement accuracy.
2. CAD Auto-Pass/Fail™: The CAD Auto-Pass/Fail™ tool automatically determines whether a part is within tolerance and measures the deviation from nominal in real time and with great accuracy.
3. Tooth Checker™: Designed to check parts with teeth, the patented Tooth Checker™ tool automatically locates the crests and roots in the inspected part's teeth or threads. It determines, to very high accuracy, if parts fall within their specified tolerance band.
4. VisionGauge® Thread Measurement Tools: VisionGauge®'s advanced thread inspection tools perform automatic measurements on a wide range of parts with threads (not just limited to screws!). These non-contact measurements ensure that the related geometric aspects defining the threads conform to their manufactured specifications.



The VisionGauge® 600 Series system is ideal for checking threaded parts



VisionGauge® by VISIONx, Inc.

The 600 Series VisionGauge® system has the entire set of powerful VisionGauge® measurement tools. It can measure:

- Roundness,
- Runout
- Coaxiality
- Cylindricity
- Parallelism
- And much more!

The 600 Series system also has all of VisionGauge®'s extensive data collection, statistics, charting, data manipulation & exchange and reporting capabilities.

And, like all VisionGauge® systems, it can easily be interfaced to external equipment and machinery, such as an automated cell controller a collaborative robot for automated loading & loading, for full "lights out" operation.

The 600 Series VisionGauge® system is very robust and shop-floor-ready. With its intuitive Windows interface, it's extremely easy to use.

The new 600 Series VisionGauge® inspection & measurement system allows manufacturers to automatically check turned and rotationally symmetrical parts, across a wide range of industries. It allows manufacturers to increase productivity, reduce costs, overcome labor scarcity and get all the benefits of VisionGauge®, 24/7. It provides manufacturers with a real advantage in today's competitive market.

To learn more about the benefits of the [VisionGauge® Digital Optical Comparator](#), please contact us, either by visiting our web site at www.visionxinc.com or by emailing us at info@visionxinc.com.

[VISIONx INC.](#) specializes in automated imaging, visual inspection and high accuracy measurement solutions sold worldwide and is the manufacturer of the VisionGauge® Digital Optical Comparator.

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