

CrossCheck™ Laser Profile Sensor; “The Universal Non-Contact CMM”

The [CrossCheck™ Laser Profile Sensor](#) is a Micrometer, Depth Gage, Caliper, and Height Gages all in one! A single laser profile sensor can at the same time measure shape-based parameters like thickness, step height, width, angle, radius, location, gap and depth. The affordable CrossCheck™ 3D laser measurement system is used by R&D, Engineering, Production, Quality and Maintenance personnel to validate product dimensions and tolerances. CrossCheck™ will increase the volume of parts inspected by one operator, provide more key measurements per station, reduce measurement inconsistency and improve the Six Sigma quality process by measuring to a standard deviation 3-4 times better than manual gages.

([Vocus/PRWEB](#)) September 17, 2009 -- Micrometers, Depth Gages, Calipers, and Height Gages are widely used and well accepted to inspect part tolerance for QA (Quality Assurance). State of the art Laser Profile Sensors are also proven and highly accepted. They are used on CMM (Coordinate Measurement Machines) as well as Online & Offline inspection systems to help Six Sigma programs identify and remove errors in the production process. In most cases a single [CrossCheck™ Laser Profile Sensor](#) can replace all manual gages while at the same time measure a parts shape-based parameters like thickness, step height, width, angle, radius, location, gap and depth. Eliminating the hand held gages and generating automatic reports for part tolerance, increases throughput and helps automate the process.

“ CrossCheck™ pre-calibrated sensors are easy to use and perfect to inspect the geometry of parts or components ”

“ The software Shape Tool calipers, are like virtual micrometers that allow an operator to measure complex features like step height, radius and width at the same time with high repeatability and precision ”

A QA department operator can now speed up the inspection process, eliminate sources of human error like reading and data transcription, and conduct several measurement calculations instantly. The fact that the CrossCheck™ Measurement System is non-contact, insures a stable reading every time and in most cases can improve the repeatability and standard deviation by 3 to 4 times that of a manual gage.

“CrossCheck™ pre-calibrated sensors are easy to use and perfect to inspect the geometry of parts or components” says Mike Snow, Product Manager. “The software Shape Tool calipers, are like virtual micrometers that allow an operator to measure complex features like step height, radius and width at the same time with high repeatability and precision”.

The entire organization now benefits from the CrossCheck™ high resolution, low cost 3D laser measurement system. R&D, Engineering, Production, Quality and Maintenance personnel use CrossCheck™ to validate product dimensions and tolerances. Metrology & Calibration Service companies can use CrossCheck™ to verify components and parts for all types of industry including automotive, aerospace, rubber, plastics, wood, metal and building materials.



CROSS CHECK
Laser Profile Measurement

The CrossCheck™ laser sensor is the primary measurement device while the CrossCheck Software provides users with simple to use “shape tools” that act as virtual micrometers. The [Shape Tools](#) are used to fit data to a Circle, Rectangle, Vertex, Line, Gap, Bump or Step Change. Shape tools are used to set up tolerances and calculate real-time product dimensions to control thickness, radius, diameter, height, width, angle, gap, depth and location of key features. The Master Profile Comparison tool captures a parts profile to specific break points chosen by the operator and guarantees the shape of a part stays within the actual profile limits. Bytewise has designed the CrossCheck™ product line for a wide variety of factory automation applications including process control, part inspection, robotic guidance, and shape check.

An Ecommerce Online Store is now open for users to purchase [CrossCheck™ Laser Profile Sensors](#). A complete non-contact 3D measurement system includes one or two CrossCheck™ profile sensor(s), controller and software. Users can purchase a starter kit for \$9950.00 or build their own system starting at \$9490.00. The CrossCheck™ software can set up Pass/Fail trigger alerts and output two analog feedback control loops for direct machine control. Data can be collected and stored to a file while the user can retrieve multiple recipes for product lines that vary in size and dimension. Programmers can utilize raw data X-Y coordinates and Shape Tool tolerances via TELNET over an Ethernet protocol. The product is backed by a 30 Day No Risk Evaluation period and one year manufactures warranty.

About Bytewise Company

Bytewise is a premier supplier of non-contact, profile measurement systems since 1989. Located in Columbus, Georgia, [Bytewise](#) specializes in measurement solutions for the tire, extrusion, roll forming, forging, casting, and web process industries.

CrossCheck™ 3D line laser sensors solve everyday measurement problems for scientific and factory applications. To purchase or get more information on the [CrossCheck™ Laser Profile Sensor](#) contact Michael Snow at Bytewise 1150 Brookstone Centre Parkway, Columbus GA, 31904. Telephone (678) 807-8400, FAX (706) 323-0178. www.BytewiseSensors.com