BMW: GOM Inspect as standard software installed

Location/Country: Dingolfing, Germany
GOM System: ATOS Triple Scan / ATOS Plus / TRITOP
GOM Inspect usage: 3D-Viewer and Evaluation Software
Main area of business: Automobile manufacturer

BMW has installed GOM Inspect as standard 3D viewer and evaluation software on hundreds of computers in the plants of the BMW Group throughout the world.

The robot measurement cell allows unmanned and time-saving inspection of sheet metal components ranging from lock plates to complete side panels.

Optical 3D coordinate measuring technology from GOM is used for quality assurance in design and tool-making departments, press shops, car body shops and close to production lines in nearly all BMW plants worldwide.

For example the press shop at BMW's Dingolfing plant relies on optical metrology systems, including automation and standardization for inspection of sheet-metal components.

3D coordinate measuring technology is offering here, high time-saving potential as sensor, automation and inspection software all come from a single-source provider. Besides the automated measurement processes that have been continuously developed in close collaboration between BMW and GOM, another positive aspect of all the GOM optical metrology systems in use at BMW is high transparency.

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Automated measurement solutions achieve higher throughput and repeatability in industrial production processes. The measurement data can be analyzed immediately and compared directly with the CAD data. Deviations to CAD are highlighted in color and thus problematic areas are easy to recognize, enabling targeted improvements to be made to the manufacturing process.

AS the free 3D software GOM Inspect operates on hundreds of computers throughout the group and, in addition, resides on BMW’s internal network server – along with 28,000 completed metrology projects. This information can be accessed by all colleagues and departments involved, saving significant time in component evaluation discussions. This way 3D data is archived rather than storing the physical components.

The collaborative relationship between BMW and the GOM automation team has proved highly successful – not only the Dingolfing workers value the professional support they receive with sensor, automation and data evaluation from a single source partner.

Quality Manager
Quality Control Press Shop
BMW Dingolfing