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V5 Integrated and FTA based inspection and programming with Simulation

Abstract

DRIVE your V5 Measurements with METROLOGIC V5 Inspection Solutions.

METROLOGIC GROUP is a CAA V5 Gold partner that operates in the field of quality control with main customers in the automotive and aerospace industries. Metrologic Group is the first independent software company developing a 3D measuring application embedded in V5 and named METROLOGIC V5 INSPECTION SOLUTIONS. With the goal of improving the performances of 3D Coordinate Measuring Machines (CMM) as well as any other 3D measuring devices (Trackers, portable arms, photogrametry,) and increasing the DESIGN and FT&A interpretation power, Metrologic V5 Inspection is more than an embedded inspection application: this is your direct link in between the Design and Quality Control departments benefiting from a seamless integration in V5.

The METROLOGIC V5 Based application enables inspection departments to develop and fully simulate the offline process program created with the Silma V5, which offers a complete Offline programming solution that includes collision detection and a very detailed virtual environment for optimum offline programming. Workbench, It is designed not only to measure the part but it also contains a complete analysis module to compare the parts to the Catia V5 data in real time or offline.

The METROLOGIC V5 application allows users to record a program on-line at the CMM or to execute an existing CatProcess. In this "teach-in mode" the CMM path is learned from CMM moves and once the program is recorded users can run the program automatically on that CMM or on a similar CMM.

This V5 application also increases programming efficiency by providing users with the ability to directly access tolerances from the CAD model and by automatically generating inspection results that can be printed out, stored into CATIA Inspection Process or exported to any SPC (Statistical Process Control) software packages.

Several major customers in the world already use METROLOG V5 on-line CMM software.

It is designed to be connected directly to any type and brand of 3D coordinate measuring machines, portable measuring and laser tracker systems