

High Performance DXF Digital Comparator

Smart_Profile_Matching

Advanced Digital Profile Check Tool for Smart_Projector

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"Thanks to this new software upgrade is now possible to automatically compare any item to a dxf master"

Easy and Smart

The New **Smart_Profile_Matching Software Upgrade** is an automatic Profile Check advanced feature, which can control any item compared to a dxf master; It replaces the use of traditional profile projector that requires the overlay of a glossy sheet on the workpiece to be measured, the Smart_Profile_Matching is able to perform a very fast check of a profile verifying the tolerances within a given range.

A must have upgrade for all the Smart_Projector Users!

Applications

Common test parts include punched and formed parts, injection-molded (plastic and metal) and laser-cut work pieces, die-cast, extrusions, millings, CNC machining.

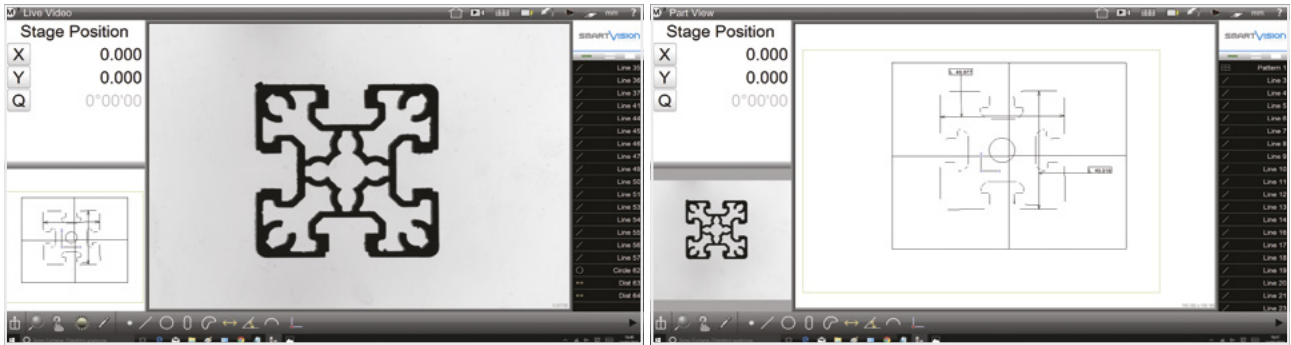


Features and Benefits

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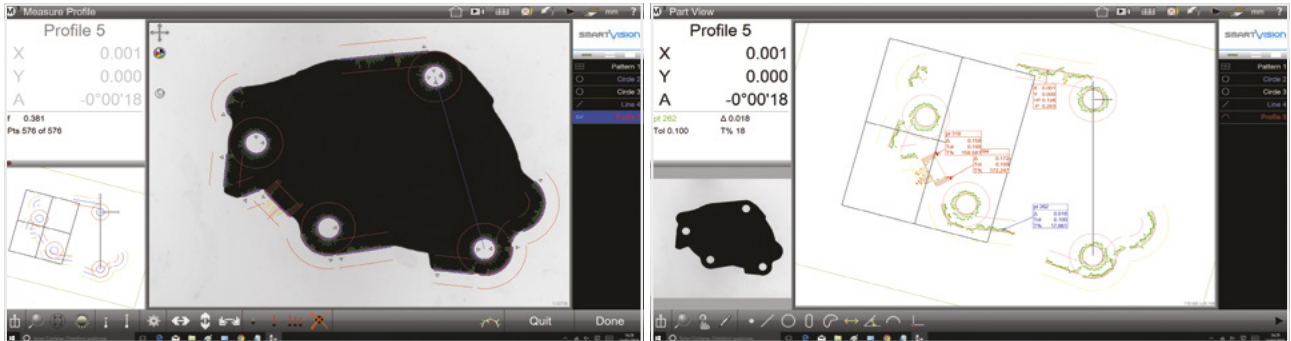
Pattern Teach and Recognition

Teach the system specific image patterns for automatic detection during CNC program playback. Increase the robustness and efficiency of program playback through the soft-fixture part positioning system using the pattern detection mechanism.



Measure Profile Fit

Compare a DXF part overlay file containing position, angle and tolerance data to a corresponding part shown in the live video window. Show resulting color coded tolerance error whiskers in the Part View window and overall profile position, angle and form in the Part Detail window.



Profile tool in video window

Profile measurement completed, result shown

Import DXF Files to Create Video Overlays

Import DXF part files to be displayed as overlays in the Live Video window. Translate, rotate and change the color of your DXF overlay to inspect part fit in the Live Video window. Display tolerance error whiskers for the portions of the part image that do not fall within the user-defined tolerance zones of the original DXF part file. Use the measure distance and measure angle functions to quickly calculate the positional and angular offset between your DXF overlay and the part coordinate system established within the software.

Export Features to DXF

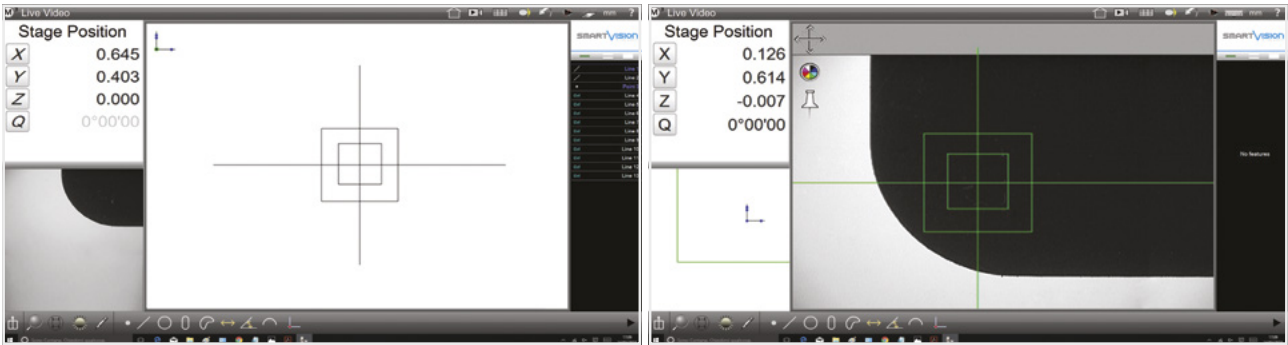
Export features measured with the software in the industry-standard DXF file format for use with other software applications.

Features and Benefits

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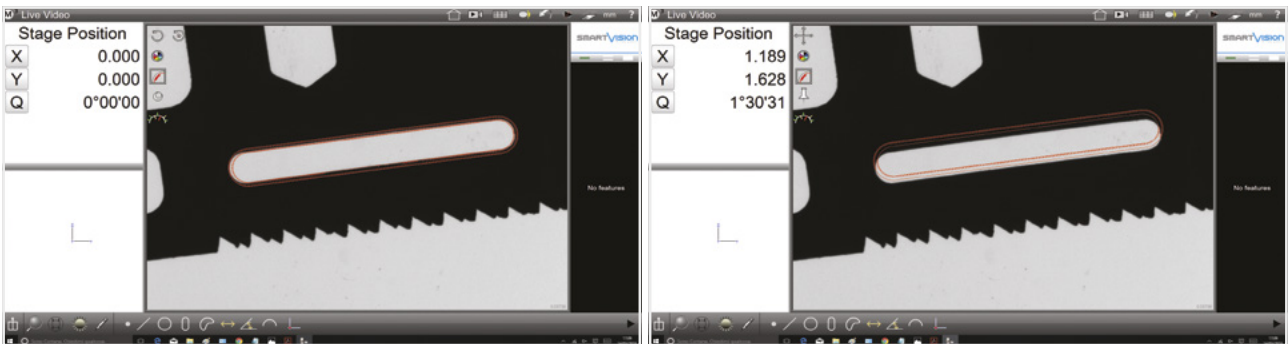
Design Custom DXF Crosshair Probes

Design your own DXF-based crosshair graphic to use it in the software systems. Use the custom crosshair to measure features by translating it in XY space or rotating it around a user-defined data collection point. Change the crosshair color quickly to accommodate various image and lighting conditions.



Create Feature-Based Video Overlays

Use the feature overlay function to create on-screen video charts for quick visual comparisons of measured part features to user-defined tolerance zones. The ability to create circle, line, slot, rectangle and angle feature forms provides the flexibility to support a wide range of applications.



Overlay rotated for part alignment

Error whisker indicate tolerance failures

Multi-Touch Software Control

Pan, rotate and zoom DXF overlays and custom crosshair probes with a simple touch using the expanded Multi-Touch logic function.

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