



P R E S S R E L E A S E

MANUAL 2-D INSPECTION BECOMES FASTER AND MORE ACCURATE

Modern electronics supports and simplifies non-CNC metrology

If manual inspection of two-dimensional components on a measuring machine, optical profile projector or measuring microscope is too time consuming or not sufficiently precise, the new QUADRA-CHEK 2000 from HEIDENHAIN can solve the problem. Equipped with embedded evaluation software and a high resolution, 7-inch, hardened colour touchscreen, the unit has a built-in power supply, rugged aluminium housing and fanless cooling. It is therefore ideal for applications on the shop floor as well as in the inspection room.

Neil Prescott, Managing Director of HEIDENHAIN (GB) comments, "This is a high quality hardware and software solution dedicated to 2-D metrology applications, manufactured by our parent group in Germany and supported from our Burgess Hill technical centre. For the user, the system offers a high level of functionality and reliable operation combined with long-term service back-up."

Point acquisition using X and Y handwheels, and perhaps also stage rotation, is easy using crosshairs or via a connected optical edge detector. The latter,

operator-independent mode enables a high level of repeatability and significantly reduces measurement uncertainty by eliminating subjective error. Predefined geometry tools record the coordinates of two-dimensional features such as points, lines, circles, slots and squares and measure the distances and angles between them. A 'Measure Magic' function simplifies inspection further by using the acquired points to recognise, select and fit the geometry automatically.

When dealing with complex contours and repetitive inspection, a user can automatically record the measuring routine and run it at any time. QUADRA-CHEK 2000 keeps track of the presets, sequence of measurements, tolerances and data output commands. When the recorded program is executed again, the unit displays on-screen user guidance detailing all of the features to be measured.

The menu-driven software is context-sensitive, showing only those functions that are available in the current measuring situation. Results are captured and displayed graphically. On completion of the inspection routine, an integrated reporting function makes it easy to create a PDF, CSV or printout of the measurement and tolerance results. Users can even create and import their own bespoke report templates.

USB and Ethernet ports are included for data and firmware communication and for integration of the unit into a manufacturer's network. Flexibility of mounting is provided by a multi- or twin-position tilting stand.

Photograph attached:

The QUADRA-CHEK 2000 with Multi-Pos stand from HEIDENHAIN. The scratch-resistant touchscreen GUI supports multi-touch gesture control and can be used by an operator wearing gloves.

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