Opto-DesQ V*max*

HECHT
Electronic AG

Fast and **precise** measurement
of complicated geometries.

The fully automatic measurement table Opto-DesQ V*max* is an automatic optical coordinate measuring machine and vision system for various applications. The measuring table is designed very user-friendly, in order to make use of state-of-the-art technologies as easily understandable and efficient as possible for the operator. The measuring table OptoDesQ V*max* is based on a highly precise granite stone with 2 axis, high-dynamic servomotors position the measuring bridge with the camera system.

Range of use

Measuring of flat work pieces such as furniture parts, wood, metal or plastics; reduction of claims due to fast and precise measurement of a big amount of samples; reduction of set-up times and operation costs due to faster measurement of dimensions and drillings.

Function

- Measurement of part size, part squareness, grooves and hole locations on the top and on the edge of the panel, diameter and depth of the hole
- Non-contact optical measurement with camera system and vision software
- Control of actual and planned values, deviations outside of tolerances are highlighted
- Data import for comparison out of dxf drawings, 3D drawings or out of CNC files or database
- Automatic measuring report for archiving in Excel, SQL or PDF format

Optional

- Optical or tactile depth measurement
- Barcode scanner for opening measuring programs directly from network
- Additional customer specific software available
- Automatic creation of measuring programme of machine data for specific machine types
- Data return system available to drill spindle for specific machines
- Creation of measuring programs online directly out of drawings

TECHNICAL DATA

- Resolution: +/- 0.01 mm
- Tolerance: < 0.1 mm
- Measuring range: 2,700 x 1,250 mm
- Part thickness up to 60 mm
- Measuring table is made of high-precision granite stone

1 Data import out of 2D drawings (.dxf files)

The data are imported from a drawing, which helps to create easily measuring programs. Measuring points can be deleted or added. Tolerances are set on a standard, but can be changed individually. The measuring program can be opened with a barcode scanner from the network or by entering a number.
The creation of measuring programs is done on an extra computer in the office.

2 Opto-DesQ Vmax data import Interface for

- Machine data
  (Homag, Weeke, IMA, Biesse, MAW Data)
- 3D drawings
  (Solidworks, Autodesk Inventor, 3E)

The data are uploaded with a post processor and can be changed.

3 Data return system

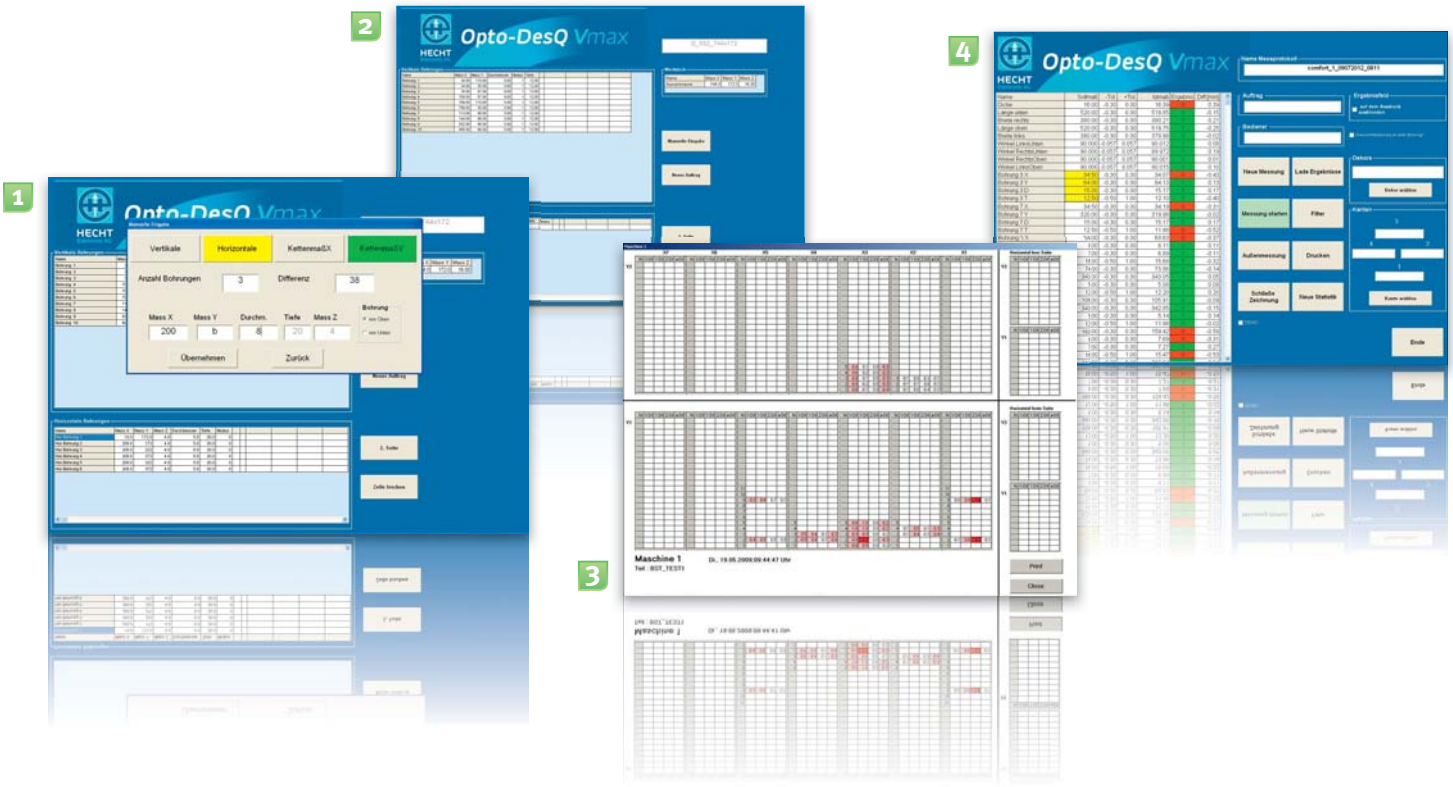
Information for display of spindles data at Hecht Measuring table are the set up data of the machine read in for the measuring program generation is the measuring table able to display after measurement the deviations for each tool.

4 Measuring results

Protocols are archived on the network and up on request printed. Analysis can be done with a SQL database, where the measuring results are stored.

SOFTWARE CHANGES

Customer specific changes of the measuring protocols, entering of machine data or employer number and much more can be adjusted individually. Make use of our experience as market leader.



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