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High-Tech Machines

ENGLISH

Your strategic partner for high-tech precision tools, spare parts and moulds for mass production

AHTMM 100

Non-contact, automatic, precise optical device for measuring punches using a confocal microscope and an optical micrometer.

Advantages of the device:

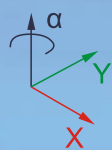
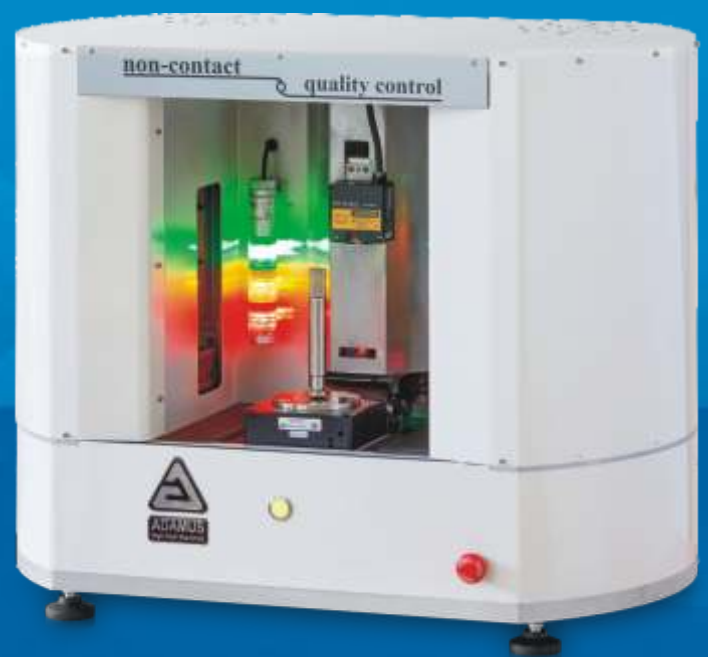
- Precise non-contact measurement
- Clear, graphic presentation of punch measurement
- Loaded CAD files
- Implemented punch database
- Generation of measurement certificates
- Easy-to-operate and compact design.

Most commercial solutions incorporate a considerable number of constraints, which have an effect on the access to surfaces being measured. This solution proposes a measurement in the vertical position ie with one node being imposed towards the Z axis . This type of approach ensures unlimited access to measuring surfaces and points and is only possible due to the application of modern non-contact sensory systems.

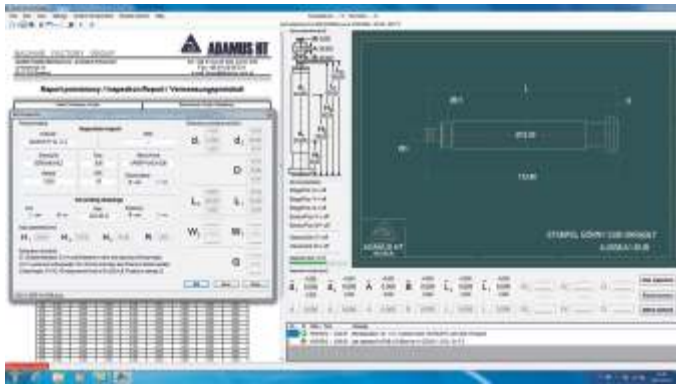
Due to the application of a precise confocal microscope in the Z axis, the light reflected from a measured object is led through the optical system to the photosensitive system and is recognised spectrally. This unique method of measurement allows precise measurement of the pathway and distance from both light- reflecting and light - diffusing surfaces.

The role of the optical micrometer is not only to measure the diameter of the punch defined by the operator but also to determine the XY position of a measured object, its concentricity and the height of the punch front. Minimum range of motion for the linear drive is being defined by the maximum punch height, which is 157.00mm

The accuracy of the optical micrometer results directly from the application of a precision linear drive with a positioning accuracy of <1 μm .

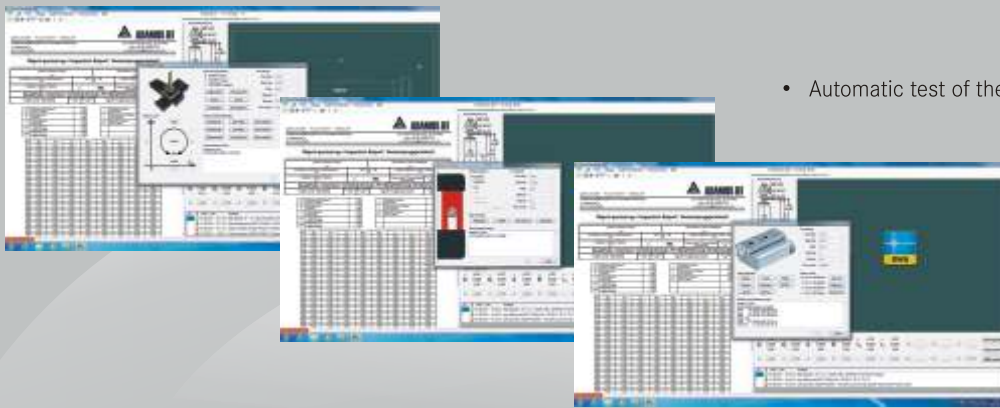


- Three degrees of freedom: X, Y + rotation α
- Linear drive in axes X, Y and Z axes
- Application of the confocal microscope in Z axis
- Measurement in Y axis by means of the optical micrometer

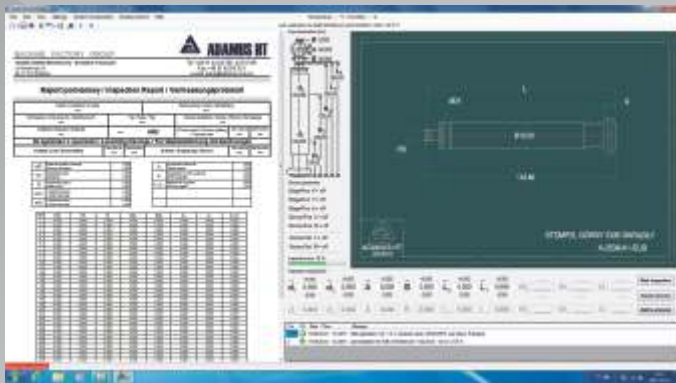


Control:

- Quality Control Application
- Operating mode: automatic or manual
- Punch library – ready-made templates with applied characteristics
- Applied characteristics
- Optional: measurement of stencils

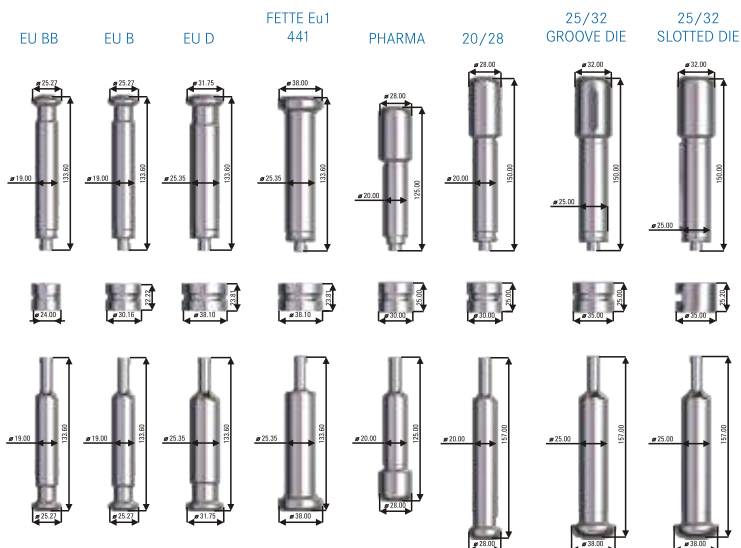


- Automatic test of the device



- File preview in CAD
- Generation of results in the form of measurement protocol
- Possibility to perform statistical analysis
- Data archiving

Type of measured punches



Technical data:

- Measurement range: diameter = 40 mm; height = 125-157 mm
- Measurement repeatability:
 - X axis = $\pm 0,001$ mm
 - Z axis = $\pm 0,001$ mm
- Measurement time: 17-25 sec
- PC - Windows 7; MAC
- Net Framework 4
- Maximum weight of a measured punch: 10 kg
- Device's operating temperature: $20^{\circ}\text{C} \pm 1^{\circ}\text{K}$
- Power supply: 220-240 V / 110V; 50-60Hz
- Control system is available in the following languages: English, German, Polish, Czech, Romanian, Russian and Spanish.



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