



TESA MICRO-HITE 3D DCC

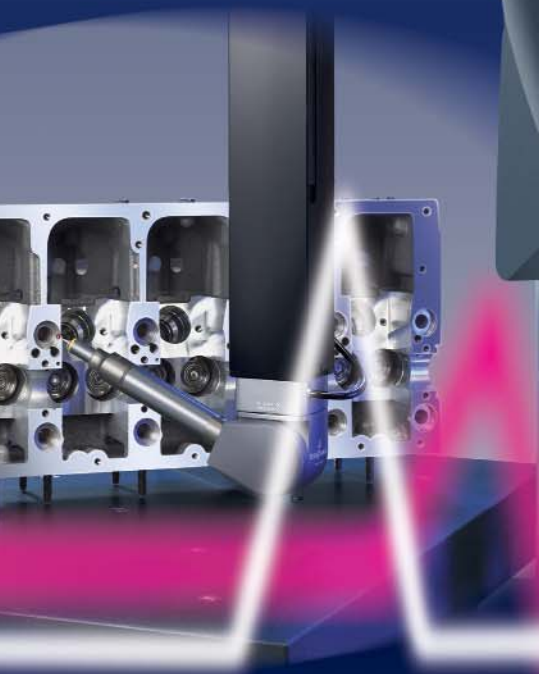
**POWER, VELOCITY,
ACCURACY THROUGH
AUTOMATION**

HEXAGON METROLOGY



TESA MICRO-HITE 3D DCC

**THE FIRST MOTORISED MMT MADE BY TESA
THAT PROVIDES EXCELLENT PERFORMANCES**



HEXAGON METROLOGY

The new TESA MICRO-HITE 3D DCC is the first motorised coordinate measuring machine (CMM) designed within the HEXAGON's Metrology Division and produced in Switzerland.

This addition to the manually operated TESA MICRO-HITE 3D is distributed under the brand names TESA, Brown & Sharpe, C.E. Johansson and Sheffield.

Automation being the ideal solution for all part measurements that require high speed and high accuracy, the development of this DCC version as next logical step was to become obvious to TESA.

Through a clever use of HEXAGON Group's synergy effects, our engineers could design this new model very quickly. The machine is equipped with the enterprise-wide PCDmis metrology software from WILCOX – the reference worldwide.

The centre of gravity of the patented Tricision® bridge design is significantly lowered and the skids are positioned so as to ensure a minimum deflection. This results in enhanced precision and repeatability.

Since all mechanical components have the same coefficient of linear expansion, the machine is virtually insensitive to temperature variations and can equally be implemented on the shop floor or the measurement laboratory.

The concept

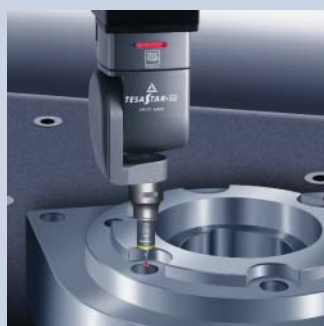
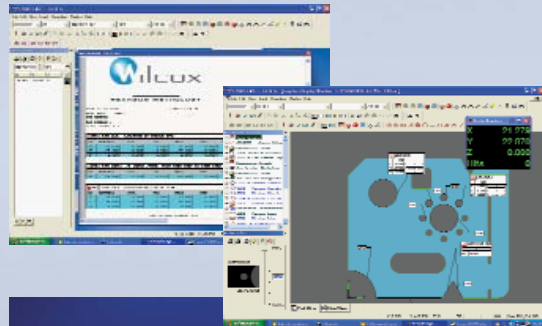
This latest release from TESA was to be the response to three relevant sales arguments:

- Be accessible to all.
- Provide the solution to every metrology application.
- Offer the best price/performance relationship.

With their today's ability to produce series of features integrating advanced technology, TESA have designed and manufactured all guiding parts along with the probe heads, whether manual or motorised, besides a full range of top-quality accessories. Thereby, the company could fulfil its goals in terms of performances and manufacturing cost control.

PCDmis metrology software

The MH3D DCC comes with PCDmis PRO – the well-known metrology software. This powerful processing tool can easily handle all needed functions. Using intuitive interactive graphics programming, this unique software is particularly user-friendly for anyone who cares for dimensional inspection.



A comprehensive system

With the MH3D DCC equipped with a wide variety of accessories, including a rack for probe exchange along with either model of the TESASTAR probe heads, TESA have taken a step in the world of automated high-performance 3D measurement. Each measuring machine is Swiss Made.

STANDARD ACCESSORIES

- TESASTAR-i probe head
- Machine stand
- Calibration sphere
- Styli Kit
- SMP 350 controller
- Joystick
- Processor: Celeron 2.6 GHz / 256 MB RAM / 40 GB / CD drive
- Windows XP software
- LCD colour monitor
- PCDmis PRO metrology software

TECHNICAL DATA

Measuring spans (X/Y/Z)
440 x 490 x 390 mm

Repeatability limit (ISO MPE-p)
3,5 µm

Uncertainty of measurement (ISO MPE-e)
(3 + 4 • L/1000) mm

Acceleration
1730 mm/s²

Velocity
350 mm/s

Air pressure
4 bars

Air consumption
21 NL/min

Power supply
115-230 Vac, 50-60 Hz

Working temperature range
20°C ±1°C

Operating temperature range
10 à 35°C

Electromagnetic compatibility

Masse
350 kg

Overall dimensions (X/Y/Z)
1160 x 1030 x 2320 mm

Maximum part weight
227 kg

Inspection report
ISO

Warranty
1 year



Optional

- TESASTAR-m probe head
- TESASTAR-r AUTOCHANGE rack
- Monitoring electronics for motorised probe head
- Touch probes for TESASTAR-m
- PCDmis CAD software
- PCDmis CAD++ software

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