



# **TESA MICRO-HITE 3D DCC**

**POWER, VELOCITY,  
ACCURACY THROUGH  
AUTOMATION**



# **NEW**

**MICRO-HITE 3D DCC  
WITH MOTORIZED PROBE HEAD  
03939142**

**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.

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 PCd mis 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.

## PCd mis metrology software

The MH3D DCC comes with PCd mis 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.



TESA micro-hite dcc 3D  
SWISS MADE



## 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.

## Machine versions

**03939142****03939140**

TESASTAR-i	03939030	-	●
TESASTAR-m	03939051	●	-
M8 Adapter	03969365	●	-
Touch trigger probe	03939072	●	-
Styli-kit	03969063	●	-
TESASTAR-ae interface	03939102	●	-
Cable kit	03969100	●	-
Machine stand	82-2901	●	●
Calibration sphere	03969011	●	●
SMP 350 controller	M.1604.6014	●	●
Joystick	M.1604.6011	●	●
PC DELL with Windows XP - 17"	03960023	●	●
PCDMIS PRO software	03960183	●	●

## 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 + 4L / 1000) mm
Acceleration	1730 mm/s <sup>2</sup>
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°C to 35°C
Electromagnetic compatibility	Yes
Masse	350 kg
Overall dimensions (X/Y/Z)	1160 x 1030 x 2320 mm
Maximum part weight	227 kg
Inspection report	ISO
Garanty	1 year



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