

TESA Micro-Hite 3D 454, **Recorder Machine Version**

The Recorder coordinate measuring machine is the latest development in the whole range of small TESA MICRO-HITE 3D. An added functionality makes it possible for the operator to control the servomotors in the three coordinate axes, but also to reproduce a programme sequence of the machine displacements in the automatic mode. Each displacement can either be operated manually or using the joystick. No preliminary programming is needed.

Through the evolution of their manual CMM, TESA provide today a flexible and user-friendly machine version for hand-operated and/or automated measurements.

Main Features

- Fast and easy workpiece alignment.
- Point-to-point part probing or manual scanning.
- ZMouse for significant time savings.
- Manual displacement in the 3 coordinate axes.
- Automatic reproduction of the manual machine displacement.



TESA micro-hite 4 • 5 • 4







General

CMM with moving bridge.

Measuring systems along with air bearing guiding in the three axes.



volume (X/Y/Z)440 x 490 x 390 mm

Measuring



TESA-REFLEX Recorder: 0,001 mm or 0.00001 in



Manual probing probing movements.

Manual or motorised execution of a part programme.



Light alloy machine base: granite measuring table.



Opto-electronic measuring systems based on incremental glass scales



(system)



Manual version: 760 mm/sec. Motorised version: 200 mm/sec.

TESA-REFLEX Recorder Control Panel



154 x 116 mm display field with illuminated

background



7-decade display (digits) plus sign for

the measured values. Icon-based graphical User interface.



RS232

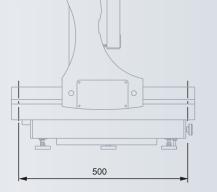


Manual mode: MPE_E* (3 + 4 L/1000) μm

 $MPE_P = 3 \mu m$ Motorised mode: (2,5 + 3,9 L/1000) µm $\dot{M}PE_p = 2 \mu m$

* L in mm

Additional technical Data on the page opposite.





COORDINATE MEASURING MACHINES



Workpiece-oriented features
Overall dimensions:
(W x D x H): 600 x 750 x 430 mm



CMM-oriented features

Mass (W x P x H): 1030 x 1100 x 1680 mm

















Sales programme

No.	Machine version Machine type	MH3D F 454	M13D F 474	MH3D Fi 454	M3D Fi 474	MH3D RC 454	MH3D RC 474	69168680 MH3D Recorder 454
Consisting of:								
	Fine adjust device	•	•	•	•	•	•	-
03939020	TESASTAR probe head	•		-	-	-	-	-
03939030	TESASTAR-i probe head	-	-	•	•	•	•	
03969040	M3 probe styli kit			•	•	•	•	
03960381	TESA REFLEX MH3D Control panel plus software	•	•	•	•	•	•	-
03960303	TESA REFLEX Recorder Control panel plus software	-	-	-	-	-	-	•
03969011	Reference sphere	•		•	•	•	•	•
82-703-1	Granite table	•			•	•	•	
049746	Air filter and regulator	•			•	•	•	
052283	Joystick (RC version)	-	-	-	-	•	•	-
M1604.6011	Joystick (Recorder version)	•	-	-	-	-	-	-
01962003	USB-Stick	•	•	•	•	•	•	•

Optional Accessories for Manual CMMs

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03939020	TESASTAR probe head
03939030	TESASTAR-i probe head
03939031	TESASTAR-i M8 probe head
03969009	ReflexScan software
03969007	RS 232 connecting cable
03960309	RS232 adapter cable for TESA-REFLEX Recorder control panel
03969001	Cabinet with top mounted table
03939170	TESASTAR-mp touch-trigger probe LF, 0,055 N, L = 10 mm
03939171	TESASTAR-mp touch-trigger probe SF, 0,08 N, L = 10 mm
03939172	TESASTAR-mp touch-trigger probe MF, 0,10 N, L = 25 mm
03939173	TESASTAR-mp touch-trigger probe EF, 0,10 N, L = 50 mm
03939174	TESASTAR-mp probe body
03960175	Air saver
03939210	TESASTAR-mp probe kit (2TESASTAR-mp probes, type SF + 1TESASTAR-mp probe body)
82-1631	TESA practice piece
03969095	Hexagon practice piece
03969003	Dust cover
03969040	M3 styli kit
03960223	Camera kit with cross line generator included
03969047	Straight probe, Ø 6,35 mm

