

NEW
TESA VISIO 500
PRECISION 1,9 μm



**TESA'S EXPERTISE
APPLIED TO MACHINE VISION**

- **THREE-IN-ONE MACHINE VISION**
- **VOLUMETRIC COMPENSATION**
- **OPTIMIZED Z-AXIS (LONG STROKE)**



HEXAGON METROLOGY





NEW TESA VISIO 500

NEW DIMENSION IN THE WORLD OF VISION

The search for Excellence is the philosophy that prevailed upon to design the new TESA VISIO 500. These machine vision are mainly based on start-of-the-art technologies that have contributed to make TESA's tactile and vision systems a success. Besides their large measuring volume, all TESA VISIO 500 provide a superior light intensity, various incidence angles for finest detection of sharp edges as well as unbeatable velocity. Each machine can also accommodate a wide variety of optional accessories, thus allowing the User to face the most delicate measurement application.

TESA VISIO 500 VALUE – This versatile machine vision can either be equipped with a CCD-camera, a TESASTAR probe head or even a CCD-camera coupled with a touch-trigger probe. This makes this version worth investing in when it comes to quickly change from visual to tactile part inspection, and reversely, using all available functionalities.

Three-in-one machine vision

- 100% vision
- 100% tactile with a motorised or indexable probe head*
- Vision/tactile with vision system coupled with a magnetic touch-trigger probe*

Volumetric compensation guaranteeing accurate probing throughout the measuring volume.

Optimised Z-axis (long stroke) for this high-precision machine version provided with a measuring travel up to 300 mm, depending on the chosen probe combination.

*Made by TESA : TESASTAR-m motorised probe head, TESASTAR-i M8 indexable probe head, TESASTAR-p or magnetic TESASTAR-mp touch-trigger probes.



TECHNICAL DATA

- Moving bridge on air-bearings (high accuracy, high speed)
- Vision system positioned in the Z-axis (mechanical and optical Z-axis close to each other for high precision)
- Diascopic and episcopic illumination through LEDs
- Laser pointer located inside the optical axis
- Colour camera
- Temperature compensation (available from the end of 2008)
- Powerful PC-DMIS application software

SPECIFICATIONS

Measuring volume	400 x 500 x 300 mm (depending on Z-axis configuration)
Visual accuracy	MPE X, Y, Z (E ₃ XYZ) 3 μm + 6L/1000 (L in mm)**
	MPE XY (E ₂ XY) 2 μm + 5L/1000 (L in mm)**
	MPE X, Y (E ₁ X, Y) 1,9 μm + 5L/1000 (L in mm)**
	MPE Z (E ₁ Z)* 3 μm + 6L/1000 (L in mm)**
Probe accuracy	MPE X, Y, Z (E ₃ XYZ) 2,5 μm + 6L/1000 (L in mm)**
	MPE XY (E ₂ XY) 2,2 μm + 5L/1000 (L in mm)**
	MPE Z (E ₁ Z)* 2 μm + 6L/1000 (L in mm)**
Encoders' accuracy	0,05 μm
Max. perm. load capacity	60 kg
Guidelines	98/37/CEE, 2004/108/CE, 2006/95/CE, 2006/42/CEE
International standards	EN 61000-6-2, EN 61326-1, EN62024-1, EN12100-2

* mechanical accuracy

** m ≤ 20 kg



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