

Video

Multi-sensor



DeMeet measuring machines



The DeMeet video (optical), touch probe and multi-sensor (optical and probing combined) CNC measuring machines.

With an excellent price-performance ratio the DeMeet measuring machines break the barrier for high precision quality control on the production floor as well as in measuring laboratories.

Applications of video and multi-sensor measuring are among others in the precision engineering, medical, plastics and electronics industry.

Machine construction

The construction of the DeMeet-220 is a base and portal of extremely tension relieved cast iron; the other DeMeet machines have a granite surface plate base (DIN 876/00).

The application of quality components from well-known, specialized manufacturers ensures excellent performance and highly accurate measurements.

Optical measurements

With non-contact measuring the measurements in 2D and/or 3D are performed without the risk of product deformation or damage. Within the (camera) field of view a very high accuracy can be achieved. The measuring speed of optical measurements with the DeMeet is very high.

Telecentric optics are supplied as a standard to avoid perspective image distortion around the centre of the field of view. Magnification from 40x to 400x.



Illumination is essential for accurate measurements. The DeMeet is equipped with LED based illumination (backlight, coaxial light and segmented ringlight).

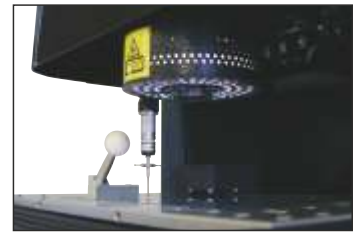
Probing measurements

In addition to the standard touch probe system, an optional stylus change rack (automatic probe configuration change) or indexing (probe orientation) probe systems can be utilized.



Multi-sensor measurements

With the DeMeet Combo model both principles are integrated and measurements can be performed by the optical and the probing system. For example for measurements on the side and bottom part of the measuring object, for measuring the diameter of a hole on a specific depth or to create a product alignment by probing.



Multi-sensor software

Approve for DeMeet is true multi-sensor software for combined video and probe measurements in one measuring program and guarantees fast and easy operation to perform your measuring tasks.



Technical specifications

General	Video model	Combo model
Video system	DeMeet camera 1/2" CCD	
Touch probe system	—	Renishaw
Leica-Design telecentric lenses	2.0x (1.0x, 5.0x and 10.0x optional)	
Nikon telecentric lenses	3.0x (1.0x, 5.0x and 10.0x optional)	
Ringlight*	3 rings, 16 segments and 48 cells (adjustable)	
Backlight and coaxial light	adjustable	

* For video models a 4 rings ringlight with 16 segments and 64 cells can be supplied as an option (not for DeMeet-220).

Measuring range

DeMeet-220	(mm)	X = 220, Y = 150, Z = 100
DeMeet-400	(mm)	X = 400, Y = 250, Z = 200
DeMeet-404	(mm)	X = 400, Y = 400, Z = 200
DeMeet-443	(mm)	X = 400, Y = 400, Z = 300
DeMeet-705	(mm)	X = 700, Y = 500, Z = 300

Measuring specifications

Resolution	(μm)	0.5 (0.1 optional)	
Accuracy 0.5 μm model	(μm)	U1 (X, Y, Z) = 4 + L/150	
	(L in mm)	U2 (XY) = 5 + L/150	U3 (XYZ) = 5 + L/150
Accuracy 0.1 μm model	(μm)	U1 (X, Y, Z) = 3 + L/200	
	(L in mm)	U2 (XY) = 4 + L/200	U3 (XYZ) = 4 + L/200
Max. velocity DeMeet	(mm/s)	X, Y = 250 (DeMeet-220: X, Y = 200), Z = 50	

* The accuracy of the probing system should be taken into account.

Specifications apply to all DeMeet models, unless otherwise specified; for more specifications refer to our website Schut.com. Machines with higher specifications and/or modifications are available upon request. Specifications are subject to change without prior notice.

BAKER

DeMeet

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