DeMeet 3D CNC coordinate measuring machines
DF fixture system / Measuring instrument displays and interfaces


DF system

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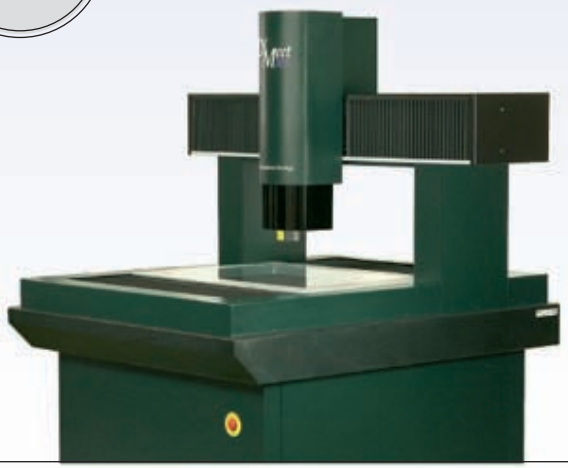

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DeMeet video and multi-sensor measuring machines

When you want to determine the quality strategy for your production, more and more you need to measure dimensions that cannot be measured with conventional instruments.

The DeMeet measuring machines are designed with a fixed bridge construction. The application of quality components ensures excellent performance and highly accurate measurements.

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.

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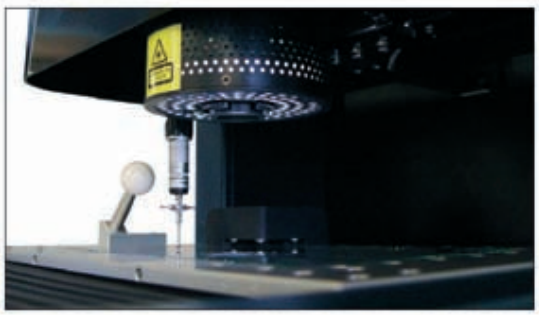
DeMeet-400 Combo (multi-sensor model)



Optics

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.

The DeMeet is either equipped with Nikon or Leica-Design optics for a brilliant image with high contrast.

Illumination

Optimal illumination is essential for accurate measurements. The DeMeet is standard equipped with three different light sources, a 3 rings LED ring light, backlight and coaxial light.

Multi-sensor technology

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

Download the brochure from Schut.com

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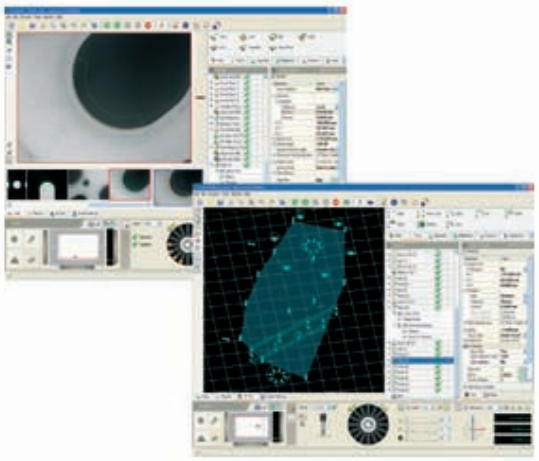
DeMeet video and multi-sensor measuring machines (continued)

***Approve for DeMeet* multi-sensor software**

Approve for DeMeet is a true multi-sensor software package.

Approve for DeMeet is designed to be a user-friendly software package, but still is flexible and very elaborate to measure many products.

All the measuring results of video and touch probe can be displayed, reported, exported and used in constructs together, and are dynamically updated.



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DeMeet-A7 touch probe measuring machines

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The DeMeet-A7 measuring machine is designed with air bearing guides and a moveable bridge construction.

The application of quality components ensures excellent performance and highly accurate measurements.

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.

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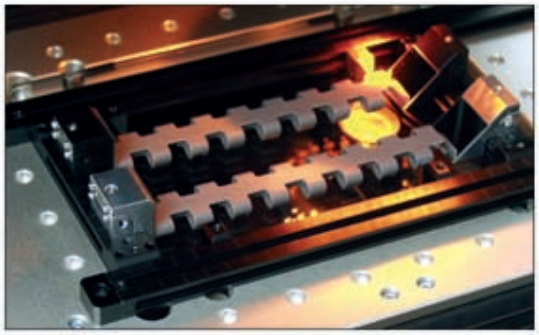
DF product fixture system

DF is a new fixture system developed and produced by Schut and designed for building 3D product fixtures, particularly for optical measurements.

Solid product positioning is essential for accurate measurements. DF is very easy to mount with single-screw couplings to build fixtures with a high repeatability and to realize a short lead-time for measuring jobs.

DF consists of a full range of fixture components: bars, connection components and fixing components. Produced from extruded or machined AlMgSi1 aluminum with either a black or silver anodized finishing.

DF is available in separate components and in three basic sets for the DeMeet measuring machines.



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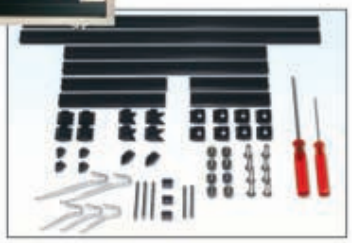

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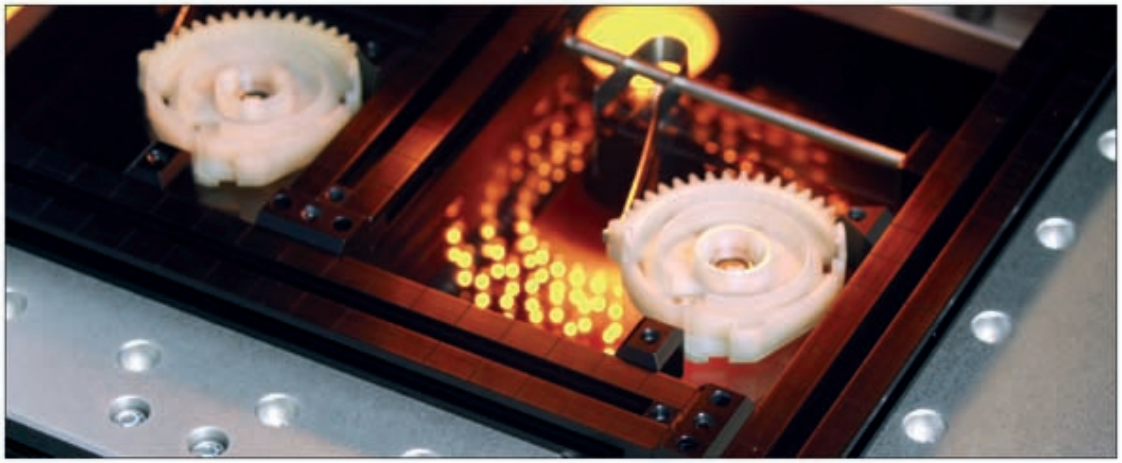

Custom fixture systems for the DeMeet measuring machines

When products need to be measured in a batch and a standard fixture system does not provide the right solution e.g. caused by the extraordinary shape or small dimensions of the product, a custom made fixture can provide the solution. A certain repeatability of product positioning in the fixture is important for a quick set-up time in e.g. the production environment.

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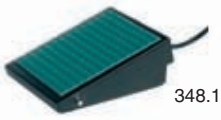
Remote Instrument Display

The Remote Instrument Display (RID) is an easy to use 2-channel display unit for connecting both RS232C and Mitutoyo instruments and display the measurement value on a large, well readable display. For a quick Go/NoGo indication both channels have their own 24 position LED bar with a user-defined upper and lower tolerance limit. Using the RID can simplify batch measurements significantly and makes human interpretation errors almost impossible. Also a combination of the RID with one or two scale units can be a low-cost solution for a digital read-out system on e.g. a drill press or lathe.

The RID is equipped with a Mitutoyo Digimatic and a RS232C output, so the measured values can be sent directly to a printer or PC by pressing the print button on the RID, the optional foot switch or by sending commands from the PC. Its lightweight construction, compact design and the simplicity of the controls make this RID a user-friendly and flexible accessory for your measuring instruments, suitable for use in both cleanroom and workshop.

- 2 display channels.
- 2 LED bars with 22 positions each.
- LED bar indication option: bar or individual LED.
- User defined upper and lower tolerance limit for Go/NoGo indication.
- 2 RS232C inputs.
- 2 Mitutoyo Digimatic inputs.
- RS232C data output for PC or printer.
- Mitutoyo Digimatic printer output.
- Foot switch input.
- Keyboard data output option (see Smartbox).
- Power supply: mini AC adapter (6 Vdc).



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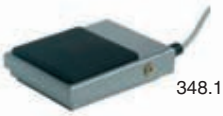

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348.189

Item No.	Description	Price
348.043	Remote Instrument Display	
Options:		
348.286	RS232C cable 1.8 m	
348.287	RS232C cable 3 m	
348.288	RS232C cable 5 m	
348.186	Foot switch metal Economic	
348.190	Foot switch metal Herga	
348.189	Foot switch metal Industrial	
495.147	PS/2 keyboard cable 1.8 m	

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Smartbox

The Smartbox is an interface that connects various digital (measuring) instruments and indicators to computer programs, such as Approve, spreadsheets and databases. This will make a program-oriented software driver redundant.

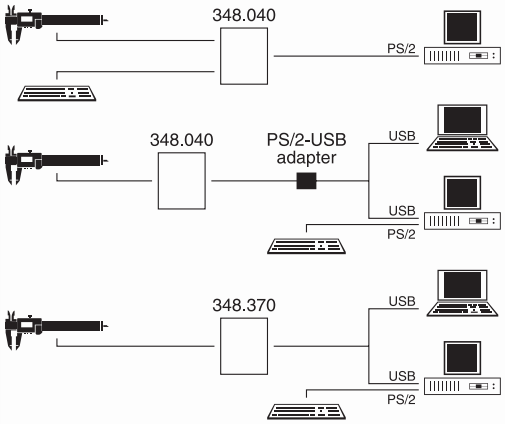
The measuring value of the connected instrument is read into standard software as spreadsheet or Approve as if it has been entered by means of the keyboard. The “traditional” Smartbox is connected between keyboard and PC, while the USB Smartbox is linked directly to a USB port (cable is included).

It is possible to connect an instrument equipped with a Mitutoyo or RS232C data output with the Smartbox, for example TESA, Magnescale, Krœplin, Preisser, Helios. However, instruments need a specific data cable. See also table below.

The Smartbox is equipped with a 10p Mitutoyo compatible and an RS232C 9p (male) D-connector, and also has a program-controlled microprocessor. The DIP switches allow you to choose between the various instruments. The Smartbox is powered by your PC.

348.370

Configuration



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Item No.	Description	Price
348.040	Smartbox for 1 instrument incl. cable with mini DIN 6 (male) plug	
348.370	USB Smartbox for 1 instrument	
	Options:	
495.209	PS/2-USB adapter	
348.186	Metal foot switch Economic	
348.190	Metal foot switch Herga (0.25 kg)	
348.189	Metal foot switch Industrial (1 kg)	
	Besides all Mitutoyo Digimatic cables, the following cables are suitable for the Smartbox:	
348.109	Cable Krœplin, equipped with a 10p Mitutoyo plug (2 m)	
348.122	Cable Magnescale U-serie and LT-serie / RS232C 9p (2 m)	
348.142	RS232C-cable Sartorius 9p (3 m)	
781.887	Opto-RS232C-cable 9p sub-D for TESA, Sylvac, Preisser etc. (2 m)	
348.153	RS232C-cable Mettler 9p (female) (3 m)	
348.154	Cable for Heidenhain RS232C 9p (3 m)	
348.155	Cable for TESA-TT10 (2 m)	
348.239	Cable LH20/LY10 RS232C 9p (female) (3 m)	

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