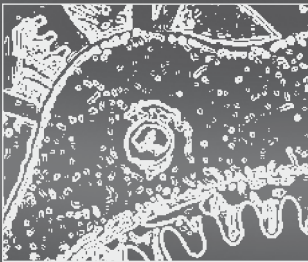
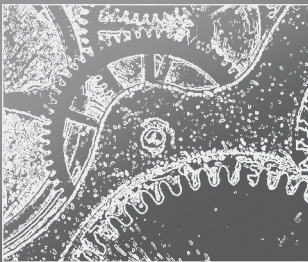
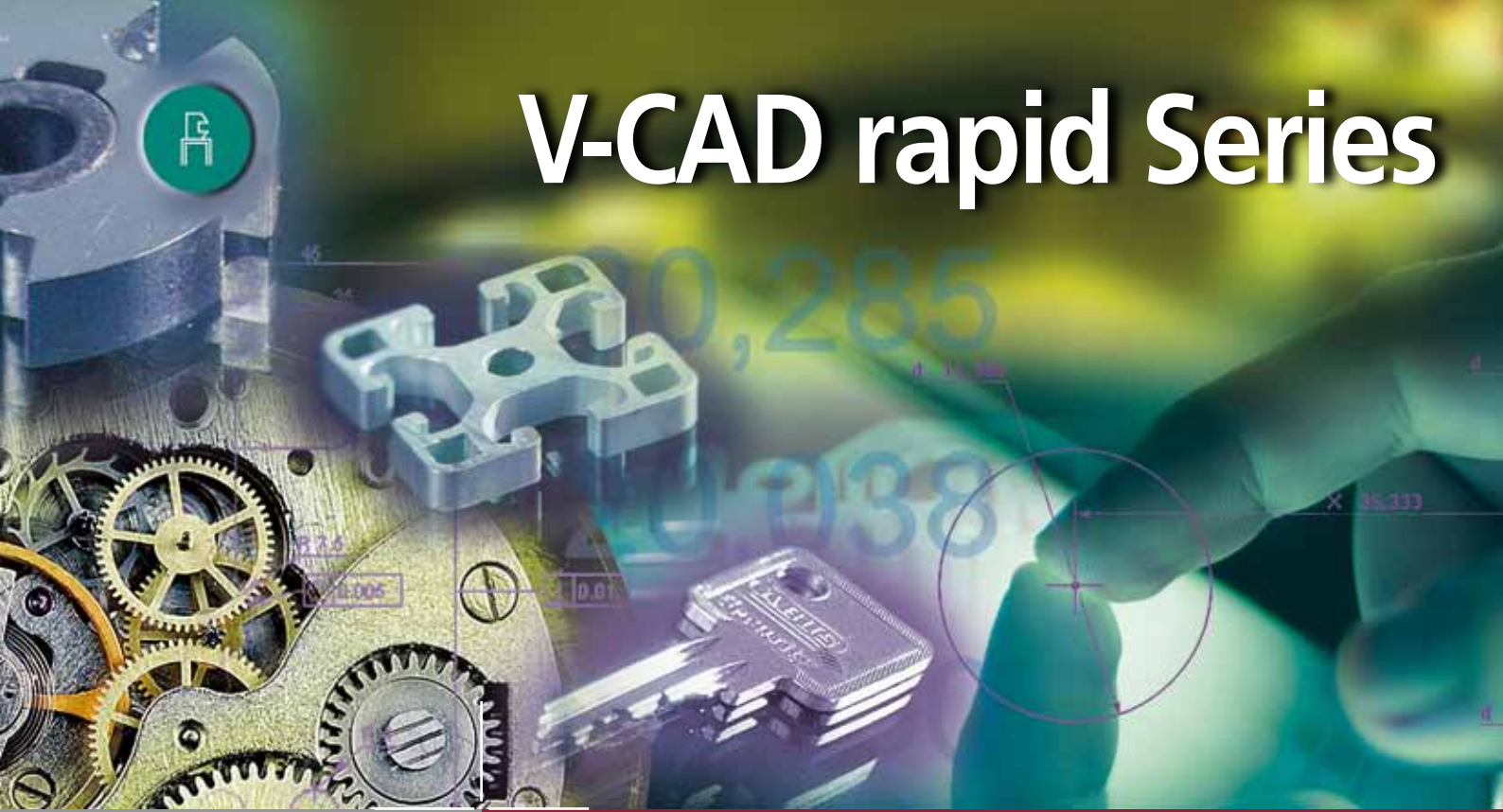


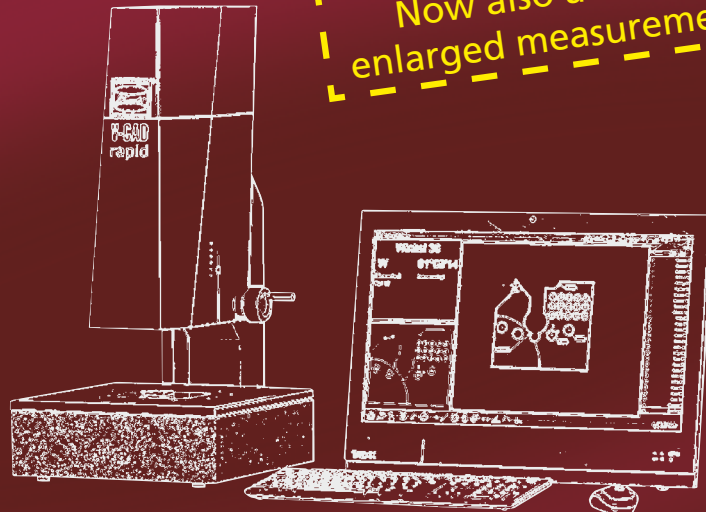
V-CAD rapid Series



2D Optical Measuring Device – mobile & compact!

Accurate and precise measurement in a matter of seconds –
smart and intuitive design

NEW!
Now also available with
enlarged measurement range



MESSTECHNIK
SIMPLY PRECISE

Series V-CAD rapid

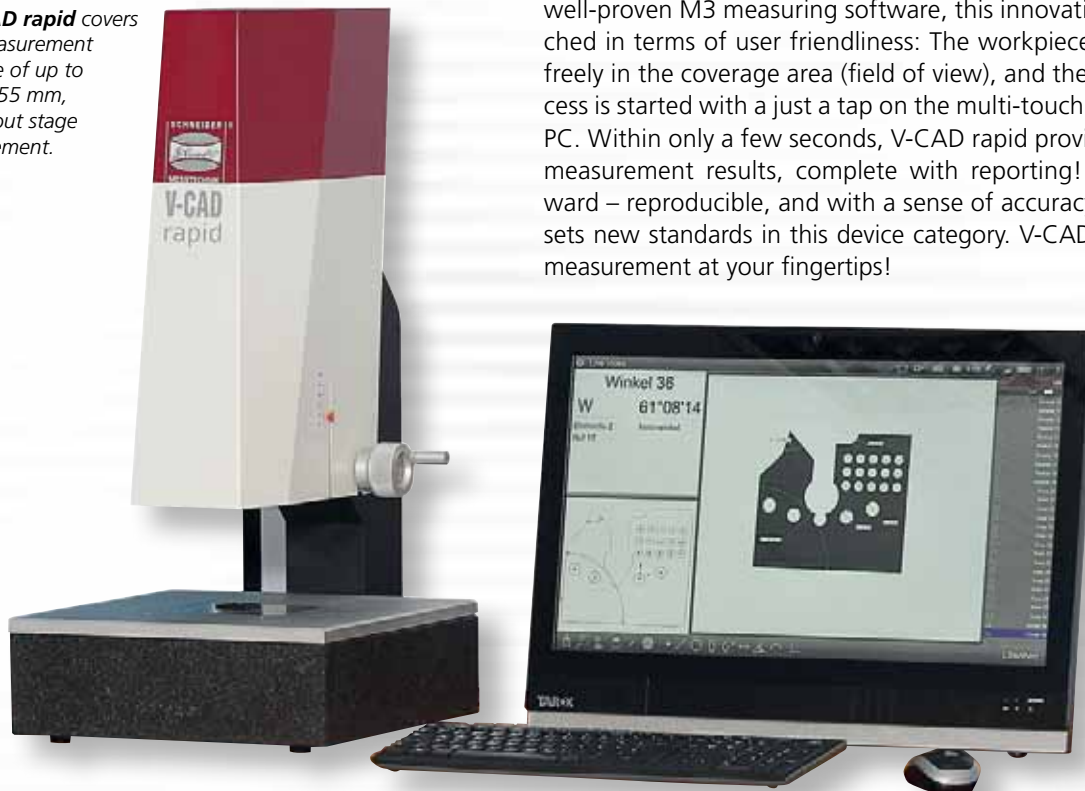
Intuitive measurement made easy

See it – try it – believe it: reliable workpiece measurement has never been that fast ... and fun! Whether you opt for the model featuring a 'single field-of-view' system or for the larger variant equipped with a movable stage affording a measurement range of up to 300 x 200 mm – a huge variety of 2D measurement features are available to you, either in manual or fully automatic CNC operation. And design options go even further: depending on your specific needs and requirements, you can choose among three powerful Schneider software packages: M3, SAPHIR and award-winning SAPHIR QD. Many decades of experience in the design of high-precision multi-sensor measuring machines have gone into the development and manufacture of the V-CAD rapid series. V-CAD rapid stands for reliability you can count on, and value(s) you can trust – made in Germany – made by Schneider Messtechnik – SIMPLY PRECISE!

Are all of your employees really familiar with your measurement device?

Getting there is easier than you might imagine! The innovative V-CAD rapid device features a compact and mobile design that combines high-precision measurement technology with unprecedented ease of use and flexibility. Thanks to the intuition-based user interface of the well-proven M3 measuring software, this innovative device is unmatched in terms of user friendliness: The workpiece can be positioned freely in the coverage area (field of view), and the measurement process is started with a just a tap on the multi-touch screen of the panel PC. Within only a few seconds, V-CAD rapid provides comprehensive measurement results, complete with reporting! Fast – straightforward – reproducible, and with a sense of accuracy and precision that sets new standards in this device category. V-CAD rapid puts reliable measurement at your fingertips!

V-CAD rapid covers a measurement range of up to 65 x 55 mm, without stage movement.



The device shown above is equipped with some optional features that are not included in the standard configuration.

For further information, please visit our Website:
www.dr-schneider.de

Standard features of V-CAD rapid

- 5-megapixel CCD B/W camera
- Telecentric 4-step motorised zoom lens
- 4 different fields of view for spot-on measurement
- Telecentric LED transmitted light illumination
- LED ring light illumination for incident light measurement
- Multi-touch panel PC equipped with WIN7
- LAN and WLAN network connection
- Measurement software M3
- Measurement and analysis software SAPHIR
- Factory calibration certificate
- Granite/aluminium sandwich design

NEW, now also available with a large stage and a measurement range of up to 500 x 200 mm.

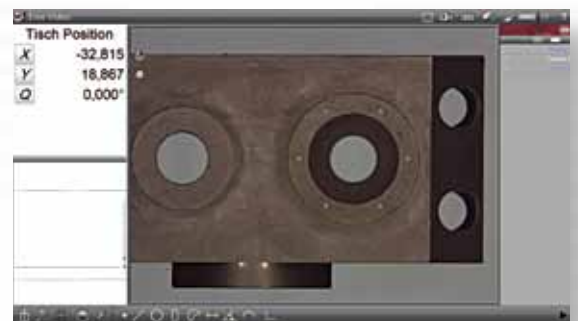


Key benefits of V-CAD rapid

- Automatic recognition of geometric primitives (basic shapes) without pre-selection
- No need for manual workpiece alignment in the field of view
- 4-step motorised zoom lens for reliable measurement even of minute workpiece features
- Measurement in a matter of seconds
- Mobile design

Optional features of the V-CAD rapid series with M3

- DXF overlays
- qs-STAT interface



DXF overlays enable the display of DXF data on the live image.



The **qs-STAT interface** serves to export values to the qs-STAT statistics programme.





Measurement and analysis software SAPHIR

Efficient workflows are essential to successful business operations, and so is smart quality control. The choice of the right machinery with the right software is a key determinant in this regard because nothing works without top-notch inspection equipment! Since "Schneider" is the German word for "tailor", you can rightly conclude that SAPHIR is a truly "tailor-made" measuring software that leaves nothing to be desired: from "A" as in "axis alignment" to "Z" as in "zero-point administration" – SAPHIR is a valuable resource with invaluable features. For further information about this technological gem, please request our free "SAPHIR" brochure.



Measurement and analysis software SAPHIR QD

This valuable software tool enables measurement not only of individual parts, but also of several identical parts (MMi=multiple measurement identical) and several different parts (MMd=multiple measurement different) in one operation. Measurement with SAPHIR QD is easy: Once the workpiece has been placed on the glass plate within the coverage area, all workpieces are automatically recognised and measured with unparalleled accuracy and precision – no tedious manual alignment is required! The software also offers tabular and graphical reporting functions along with a feature enabling reports to be displayed as overlays on the pertinent live images, complete with "good/bad" colour coding.



Measurement software M3 with image processing feature

M3 is a measurement software with image processing features designed for use on a touch-screen panel PC. This valuable tool enables accurate and precise manual measurement of geometrical elements by means of an intuitive multi-touch operating system. Among its main strengths are the well-structured user interface as well as its innovative image processing functions ensuring fast and reproducible measurement point acquisition. All element-related reports can be displayed in both graphical and tabular format. The software also includes a tolerance checking feature in accordance with the pertinent DIN/ISO standards.

Technical Specifications of the V-CAD rapid series

Model		V-CAD rapid	V-CAD rapid 300 M3	V-CAD rapid 300 S	V-CAD rapid 300 CNC
Measurement software		M3/SAPHIR QD	M3	SAPHIR	M3/SAPHIR
Measurement range	mm	65 x 55		300 x 200	
Focal length Z	mm	50		200	
Lens		4-step motorised zoom, telecentric			
Magnification		65.5 x 55	32.5 x 27.5	16 x 13.5	8 x 6.5
Field of view	mm	0.125 x	0.25 x	0.5 x	1.0 x
on the screen ²⁾		4.7 x	9.5 x	19 x	38 x
Depth of field	mm	45.0	11.0	2.80	0.70
Working distance	mm			150	
Max. workpiece weight	kg		10.0		
Repeat accuracy (repeatability)	mm		0.001		
Length measurement error ¹⁾		Measuring length L in mm			
optical (2D)	$E_{UV, MPE} =$	$(3.5 + L/50 \text{ mm}) \mu\text{m}$			
DIN EN ISO 10360-7					
Our measurement is based on		$\beta = 0.125 \Delta$ lens 0.125 x (field of view 65.5 x 55 mm)			
Dimensions	mm	W 354 D 444 H 700		W 900 D 950 H 950	
Weight	kg	30		140	
Electric power supply		220-240 VAC, 50-60 Hz			

¹⁾ Ambient conditions 20°C ± 1 K, temperature gradient $\Delta_{th} = 1 \text{ K/h}$, $\Delta_{td} = 4.0 \text{ K/d}$, measured with a calibrated working standard

²⁾ These values apply to the standard monitor with its factory default settings