

SIMPLY PRECISE

Great visions call for  
precision down to the  
smallest detail.

Today's ideas are  
tomorrow's high-tech  
and we measure it!

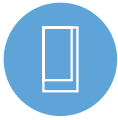


# Highest precision and measurement technology innovations.

Whether on land, on the water or in the air – anyone looking to push back the boundaries of possibilities needs reliable partners and superior technologies. Schneider Messtechnik has been synonymous with both for more than 70 years.

The unique combination of optical, tactile and multi-sensor measurement technology enables us to manufacture innovative products meeting the highest demands on precision.

And that with success: Our measurement devices and machines are in use today in practically every branch of industry around the globe. Innovative solutions from Bad Kreuznach are in demand particularly in the automotive and components industry, medical technology, machine engineering and toolmaking and in the aerospace, electrical engineering and plastics processing industry. **SIMPLY PRECISE!**



3D Multisensor Shaft



3D Multisensor Cubic



3D Tactile



2D Multisensor



2D Optical



2D Optical Shaft



Projector



Tool



Software



Academy

# A programme against which we want to be measured.

With optical and multisensor measurement machines from Schneider Messtechnik, you opt for durable and reliable high-tech – and in favour of the highest precision down to the smallest detail. Regardless of whether you choose one of our high-quality standard series or a customised solution: Your work processes, quality level and competitiveness will benefit.

3D Multisensor Shaft	WMM series
3D Multisensor Cubic	PMS series
3D Tactile	TMM series
2D Multisensor	WM1 series   WM1 G-series
2D Optical	V-CAD series
2D Optical Shaft	WMB series
2D Optical Shaft	MWM series
Projector	PV series

# Anything but ordinary: Our standards.

Even our extensive standard product range offers the right solution to practically every application. This is ensured by numerous technical highlights and options.

**Our tailored solutions are as individual as your applications.**

Do you have to measure exceptional sizes? Do you have to meet special customer requirements or employ your measurement technology under unusual conditions? Whatever it is: We will find the right solution for you.

Projector	MV series
Projector   Tool	DP series   STP series
Software	SAPHIR   SAPHIR QD
Software	U-SOFT SOLID ultra   M3   M2
Software	CONFORMITY   VTP
Academy	Software training
Division OEM	Brands – Made by Schneider
Division Sport	Precise Laser Target PLT2



## WMM series

Shaft measurement machines for measurement lengths up to 2200 mm.  
Complete measurement of complex workpieces.

### Your benefits:

- Measurement range graduated in length up to 2200 mm and in diameter up to 400 mm
- Ultra-fast measurement technology thanks to triggered measurements with a high-resolution matrix camera and live images
- High-precision measurement of lengths through contour focusing, even outside the middle axis
- Teach-in programming
- Automatic generation of a measurement log with table and graphics, as well as initial sample test report according to VDA
- Special customer-specific solutions implemented cost-effectively
- Perfectly coordinated accessories also contribute significantly to the optimum use of the shaft measurement machine



### Model

WMM 65	WMM 300	WMM 1000
WMM 100	WMM 450	WMM 1200
WMM 200	WMM 600	WMM 2200



## PMS series

3D multi-sensor portal measurement machines, highly flexible design for measurement volumes up to 2000 mm.

### Your benefits:

- Air suspension in all axes (LL models)
- Control, measurements and evaluations completed with one software application
- Dust-protected precision guides
- Mechanically protected wiring
- Best possible measurement accuracy and speed
- Cost-effective, customer-orientated solutions can be implemented thanks to modular design
- Additional sensors can be retrofitted at any time
- Excellent price/performance ratio
- Temperature stability thanks to compact, stabile granite construction
- CONFORMITY provides fully compliant programme and measurement data management



### Model

PMS 300  
PMS 400  
PMS 500  
PMS 600  
PMS 700

PMS 500 LL  
PMS 900 LL  
PMS 1200 LL





## TMM series

Bridge-type 3D coordinate measurement machine. Simple, highly accurate and cost-effective measurements. As a standard and special solution, the TMM series offers the ideal solution for every measurement application.

### Your benefits:

- The robust, dimensionally stable granite construction with inclined bed insert
  - Tactile or scanning, vertically- or swivel-mounted sensor system
  - Three standard sizes in X with measurement strokes of 600, 800 and 1000 mm and Y with 800, 1200, 2000 mm plus the option of customised variants offer a solution for every measurement task.
  - Temperature compensation for all three axes and the workpiece
  - Energy-efficient motor technology guarantees low heat development and consumption values
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- Active vibration damping provides stable and reproducible measurements
  - Latest computer and control systems for fault-free operation
  - Eagle Pro machine control system – the core for precision operation



### Model

TMM 600, TMM 800  
TMM 1000



## WM1 series

Tailor-made solutions for your measurement task. Flexibly configurable to suit any budget.

Suitable for measuring blanked parts, plastic parts, rubber parts, tools, seals, profiles, etc.

### Your benefits:

- Camera-based acquisition of measurement data
- Precise edge detection in transmitted or incident light thanks to intelligent image processing algorithms
- Small and handy – but big on performance
- Quick handling with the highest measuring precision
- Optionally with tactile 6-way probe
- WM1 G can also be used for the measurement of large blanked parts, milled parts, plastic parts, rubber parts, printed circuit boards, etc.

### Model

WM1 300 M3  
WM1 400 M3  
WM1 500 M3

WM1 200 S  
WM1 300 S  
WM1 400 S  
WM1 500 S

WM1 200 CNC  
WM1 300 CNC  
WM1 400 CNC  
WM1 500 CNC

WM1 400 (300) CNC

WM1 707 G CNC  
WM1 710 G CNC







## V-CAD series

Quick and precise measurement of two-dimensional geometries in a matter of seconds – simple and intuitive.

### Your benefits:

- Measurement and analysis in a matter of seconds
- Complete capture of 2D geometries in one image field
- Resolutions in  $\mu\text{m}$  range thanks to monochrome, high-resolution, matrix camera with precision, telecentric lenses
- Large image fields
- No axis motion, no wear (V-CAD 60-200)
- Calibrated coverage free from distortion
- 2D digitisation and BestFit included in standard scope of delivery
- Mobile installation in production process possible



### Model

V-CAD 60, V-CAD 80, V-CAD 100, V-CAD 200,  
V-CAD 300 / 400 / 500



## WMB series

The perfect introduction to shaft measurement technology. Smart shaft measurement for future digitalised factories.

### Your benefits:

- Measurement of static and dynamic features in a matter of seconds
- Accurate and reproducible measurement results
- Fully automated measurements of rotationally symmetric workpieces
- The high-precision rotation axis and vertical measurement axis with a measurement range of 350 mm, along with the high resolution Matrix camera with a live image field of 2048 x 2448 pixels guarantee very fast, triggered image capturing on the live screen.
- Precise zoom function to measure the smallest individual parts
- Excellent price/performance ratio

### Model

WMB 350



**A useful option:  
The 6-jaw precision chuck**



## MWM series

The MWM mobile shaft measurement device represents a perfect balance of optical and mobile intelligent measurement technology on the road to Industry 4.0. The MWM can be adapted exactly to your individual measurement application.

### Your benefits:

- Mobile measurement unit including fully ruggedised Toughbook
- The measuring unit can be taken directly into the production environment
- Easy to operate
- Measurement results in a matter of seconds
- Complete evaluation in the background in the SAPHIR measurement and analysis software
- Wireless transfer of measurement results – including globally via cloud solutions
- A flexible modular system with a broad range of possible solutions, through to multi-camera measurement
- Ability to integrate and manage several measurement units with the SAPHIR measurement and analysis software





## PV series

Varied, efficient, ergonomic. Regardless of whether you opt for the table or desktop design: Dr. Heinrich Schneider Messtechnik profile projectors guarantee efficient use for all applications.

### Your benefits:

- Fast measurement of plastic parts, seals, dies, profiles, etc.
- In focus workpiece contours guarantee accurate measurement
- Robust construction for every day operation
- 300 mm or 360 mm projection screen with cross hair
- LED transmitted light illumination
- Template holder
- Goniometer 360° pivotable, vernier scale 1'



### Model

PV 300, PV 360, PV 600



## MV series

High-end measurement projectors for vertical and horizontal measurements – in table and desktop form. Designed for precise measurements in production and measurement rooms.

### Your benefits:

- In focus workpiece contours simplify precise measurements
- Simple and easy operation
- Consistent quality of the measurement results
- Not necessary to adjust the device
- Measurement of cylindrical and cubic workpiece with same level of precision
- Reproducible and documentable quality of the measurement results
- Tabular and graphic measurement log



### Model

MH 360, ST 600 H, ST 750 H, ST 1000 H

MV 360, MV 600, ST 600 V, ST 750 V, ST 1000 V



## DP series

Digital projector for fast and simple measurements and comparison of 2D workpieces – combines advantages of known projectors with digital image processing.

### Your benefits:

- Integrated overlays, e.g. cross hair and concentric circles
- Adjustable elements such as radii, circles, chamfers, angles
- Reading in of DXF files at a scale of 1:1
- Superimposing of different drawing layers
- Comparison within seconds
- Intuitive user interface
- Portable version
- Different fixed lenses
- LED incident light
- **No training necessary**



### Model

DP 200, DP 300, DP 400, DP 500



## STP series

Simple to operate, optical presetting device with the highest precision.

### Your benefits:

- Measurement and presetting of the tools on the machine or production island
- Intelligent tool database
- Automatic tool identification with RFID write/read head or DPM code scanner
- Flexible CNC machine connection
- Access to catalogue data from the tool manufacturer



### Model

STP 500



## Software by Dr. Schneider

The control centre for your quality assurance.

# SAPHIR

## SAPHIR measurement and analysis software

Efficient, economic workflows start with the choice of equipment. **SAPHIR** is a tailor-made software system that covers all of your requirements.

### SAPHIR shaft (shaft measurement)

„Shaft“ is an optional add-on for the SAPHIR measurement and analysis software – fast, simple and intuitive. Standard routines are performed by the measurement software and the operator can concentrate completely on the dimensions to be measured. With just a few clicks, you generate a reliable measurement programme and informative measurement log in a very short time.

# SAPHIR QD

## SAPHIR QD measurement and analysis software

### Innovative revolution

**SAPHIR QD** provides an insight into the next generation of **SAPHIR** measurement and analysis software. Simply switch on the measurement device, load the object even without aligning it or even the wrong way round – and detection and measurement can start. The report is displayed as an overlay on the live image together with a graphic report.

### Multiple measurements – for all those who want everything at once

Whether multiple identical parts or multiple different parts: With the Multiple Measurement identical (MMI) and Multiple Measurement different (MMD), the developers at Schneider Messtechnik have now also integrated the option of multi-part measurement into **SAPHIR QD**. And the best of all: The software thinks with you. For this reason, the measurement elements can vary without additional intervention, the software scans all the parts in the measurement range. SAPHIR QD identifies all the elements to be measured and integrates these into the measuring programme at a click.

# U·SOFT SOLID ultra

## Measuring with the highest precision and maximum convenience

Fast single part measurement with universal learning program as well as quick and simple recording.

### Efficient software that sets standards

Unrestricted, continuous measurement of geometric elements, free-forming surfaces, curves, connections – **U-SOFT SOLID ultra** is so well designed that only one software application is required for all of the measurement tasks.

Everything can be measured from a single interface – simple, workshop-compatible and in accordance with high-end requirements. Thanks to the underlying program philosophy and superior, modular structure of **U-SOFT SOLID ultra**, you can consistently measure the full complexity of your test piece and reflect it accurately without any limitations regardless of its contour, shape and surface.



### **M3** measurement software with image processing

Precise, manual measurement of geometric elements with camera-protected multi-touch application

Intuitive multi-touch application that you will quickly learn to use. Very simple dimensioning of the measured features and their recording – in graphic and tabular form – are standard functions. Comprehensive tolerance checks of the measured elements to DIN/ISO are naturally also integrated.



### **M2** measurement software

Intuitive multi-touch application for profile or measurement projectors

Intuitive multi-touch application that you will quickly learn to use – with clear user interface and no hidden sub-menus. Measured elements are shown true-to-scale in the partial view. Designs and relations are created by simply touching the measured elements in the plot. Comprehensive tolerance checks of the elements in accordance with DIN/ISO and clearly structured data protocols are also integrated.



## CONFORMITY

The CONFORMITY administration interface in medical technology

**CONFORMITY software** provides an access and administration interface for the SAPHIR measurement and analysis software from Dr. Heinrich Schneider Messtechnik GmbH that guarantees compliance with the high quality-relevant demands on a software system in the manufacturing industry.

### Your benefits:

- Meets the requirements of 21 CFR Part 11 FDA (Code of Federal Regulations Title 21 Part 11 "Electronic Records, Electronic Signature"; Food and Drug Administration USA/GMP)
- Continuous documentation by means of validated 100% inspection
- Controlled access management system
- Updating of relevant data sets, measurement programmes and system files
- Definition of procedures and their sequence (controlled workflows)
- Audit trail

## Visual Tool Preset – VTP

Modern, intuitive multi-touch application for precise optical presetting of cutting tools

**Visual Tool Preset** from Dr. Heinrich Schneider Messtechnik sets a new standard in tool presetting and was designed specially for the hardware of the STP series – and thereby optimised to the last detail to meet the demands of modern tool presetting. Regardless of what tool you are measuring and in what tool holder, the integrated adapter management for any tool holders enables you to be highly flexible while maintaining a full overview at all times. The creation and saving of new adapters is also quite simple and requires no nested menus.

### Your benefits:

- Integrated adapter distribution for any tool holders
- Intuitive, flat and self-explanatory software interface
- Intelligent tool database
- Structured storage with a unique tool ID number
- Creation of your own post-processors



## Software training courses

Software training courses from the basics through to expert know-how.



Training courses on fixed dates in Bad Kreuznach can also be booked by individual persons and groups at an all-inclusive price per person/per day. On our machines you get to know the M3 software in a group of up to five people from one company.

### Training offers

- M3 Starter** This course is intended for staff who have not yet worked with M3 and require only a small range of functions of the optical measurement technology or wish to discover the possibilities of M3 for themselves after a brief introduction.
- M3 basic, part 1** Intended for staff who have not yet worked with M3.
- M3 basic, part 2** This course is intended for staff who have successfully completed Part 1 of the M3 basic training and wish to train this know-how in practice.
- M3 taster** This course is intended for staff who are familiar with M3 and specifically wish to learn how to use the probe functions.
- M3 experts** For all staff who are familiar with M3 and who would like to fill individual gaps in their knowledge and optimise day-to-day work processes

**We will happily advise you:**

**Tel. +49 (671) 291 02**

Simply send your order with preferred course date by e-mail to:

**[akademie@dr-schneider.de](mailto:akademie@dr-schneider.de)**

## Precision components for your success

### Innovative – intelligent – efficient

Development and production of a wide range of precision equipment and components under our customers' brand names.

It is not just machine manufacturers in the measurement technology sector that benefit from our **OEM offer**. Companies from the assembly, machine and system construction and trade sectors know that they can rely on our extensive range of services. We work in close cooperation to provide our specialist knowledge, our human resources and logistical capacities and our infrastructure that is specifically tailored to such tasks.

### Innovative partial and complete solutions

- Individual precision components
- Innovative assemblies, series products and equipment lines
- Robust, durable machine chassis
- Reliable measurement technology and measurement systems
- Efficient production and assembly lines
- Intelligent software solutions
- Ergonomic hardware concepts

### Our range of services

- Advice and problem analysis
- Planning and design
- Modification and optimisation of existing products and components
- Re-development of individual components, complete devices, equipment lines or systems
- Realisation, production and implementation
- Structure, installation and initial commissioning
- Calibration, continuous aftercare, after sales services

### Excellent customer benefits

- Competitive advantage and quality assurance guaranteed by professional transfer of knowledge
- Time and cost savings by using existing infrastructure and (personnel) capacity
- Highly efficient thanks to project-specific use of individual specialists and teams
- Investment security due to reliable and durable quality products
- Best reputation due to high-quality, sustainable, environmentally-friendly and ergonomic precision solutions under your own brand name

## Precise Laser Target PLT2

### Innovative and future-oriented

Eco-friendly, innovative and extremely precise - the precision laser target opens up new possibilities for smart sports. PLT2 proved itself at top-level sporting events and convinced at the Olympic Games.

The laser target can optionally be implemented as a precision or hit & miss target and is the perfect addition for training sessions and competitions in sport shooting, biathlon and modern pentathlon events. The application is designed for indoor and outdoor use.



Designed for the 10 m range of the shooting disciplines, the laser target safely and reliably records the coded laser shots, accurately evaluates them on a scale of 1/10 and visualises the scores using known competition formats in the supplied software.

It's reliability has been proven at numerous World Cups, world championships and even at the Olympic Games.

### Data & facts

- High-precision laser target for competitions and training
- Accurate recording of scores at 1/10 range
- Automatic calibration for accurate shot evaluation
- Simple operation and control
- Safe class 1 laser technology
- Integrated LED score and status display and target illumination
- Compact and easy to transport
- Saves all shots and results
- PreciShot software to visualise the shots
- WiFi login to display results on smartphone and tablet
- TV online streams und external score display can be connected

## Effective customer service

In addition to the personal contact in the technical centre, in future, we will be increasingly employing information technologies to be on hand for you even faster. For example, our "remote control service" will complement the on-site service call. In general, all our systems are already prepared for further developments, such as

- **Online Support** (documentation, software downloads and other services)
- **Evaluation and assessment of the mechanical equipment condition**
- **Assurance of equipment availability through remote maintenance**
- **Provision of quick and inexpensive software updates**
- **Application support for the measurement process**
- **Releasing of new software**

## Fast on-site assistance

A mobile team is quickly at your side for service and maintenance. The team will help you on site and ensure that small problems don't become big ones. Our on-site service is also able to carry out upgrades for older equipment.

### Call us!

+49 671 291 02

### Our service hours:

Mo - Th 07:30 - 16:30 h

Fr 07:30 - 15:15 h




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