

CMM FOR THE SHOP FLOOR

WENZEL SF 87

Ergonomic, fast, compact



MEASURING IN THE
PRODUCTION ENVIRONMENT

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The new SF 87 coordinate measuring machine is the universal measuring machine for the production environment. The SF 87 requires little floor space and offers an optimized measuring volume of 800 x 700 x 700 mm. This makes it ideal for a large part of the metal cutting and forming industry.

The machine concept offers a very good price-performance ratio with low space requirements. High traversing speeds and accelerations ensure high productivity. The combination of powerful probes and optical sensors leads to a considerable increase in efficiency in your measuring and testing process.

FIELDS OF APPLICATION

The SF 87 is a workshop-ready 3D coordinate measuring machine for measuring small to medium-sized production parts. The intelligent and compact design is suitable for a wide range of applications in the production environment, especially in the cutting and forming industry.



Steel bushings

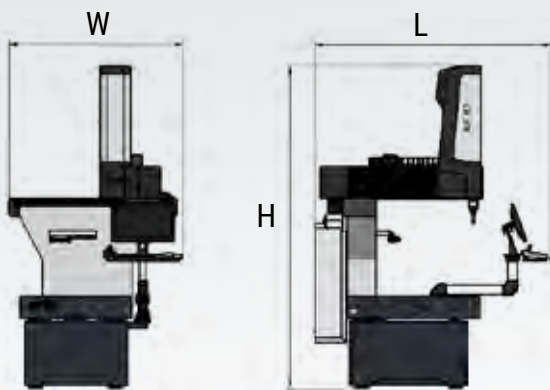


3-cylinder engine block



Gearboxes





MACHINE PROFILE

Space Requirements (L x W x H)	2130 x 1560 x 2890 mm
Machine weight	1850 kg
Max. Workpiece weight	300 kg
Measuring ranges	800 x 700 x 700 mm*

* with touch probe PH10M PLUS

FEATURES

- Suitable for workshop and production use**
 Temperature compensation | Active damping as an option
- Excellent price-performance ratio**
 Large measuring volume with small footprint | Low operating costs | No compressed air required
- Flexible and universal use**
 Multisensor capable (optical and tactile) | 5-axis measuring technology | Available with matching probe changing units
- Integration into the line and into automation processes**
 WENZEL-Automation-Interface (WAI) | Can be equipped from three sides | WM I SYS Analyzer
- Modern machine design**
 Ergonomic and user-friendly | Bionic structures and massless weight compensation | Turntable option

SENSORS & CHANGE RACKS

MOUNTING HEADS, PROBES AND SCANNERS

Combined with a variety of innovative sensors, the WENZEL SF series machines are flexible even for the most difficult of applications. From smallest injection moulded parts to large sheet metal punching tools - our product series meet your requirements! They can be equipped with manual, motorized, infinitely variable or indexable mounting heads.

With the corresponding touch-trigger, scanning and optical measuring systems, our product series achieve results for all applications. The compatible automatic changing racks turn the measuring machines into homogeneous and versatile measuring systems.



PH10T PLUS / PH10M PLUS / PH10M iQ PLUS

Automatically indexable probe head PH10M: Fast probe changing (auto joint) with a variety of rack options.



PH20

The 5-axis PH20 and CMMs are an efficient solution for measuring 3D and prismatic components. The 'Head Touch' function takes measurement points very quickly and reduces cycle times.



REVO-2

The 5-axis probe system REVO™ coupled with WM | Quartis provides an extremely fast high scanning speed solution with a high degree of measurement flexibility, and thus an extremely high throughput.



TP20

Touch trigger probe. Extremely robust and flexible touch trigger probe with stylus module.



TP200

Compact, modulechanging touch trigger probe particularly suitable for measuring tasks with tight dimensional tolerances for 3D free-form surfaces with longer styli.



SP25M

The most compact and versatile probe system for scanning on a global scale.

Change Rack SCR200

The SCR200 provides automatic, high speed changing between up to six TP200 stylus modules. The SCR200 is powered by the separate probe interface, PI 200, and provides features to facilitate safe stylus changing.

Change Rack ACR3

ACR3 uses Renishaw's unique autojoint connector to attach probes and extensions to the PH10M PLUS and PH10MQ PLUS motorised indexing heads. It can support a range of sensors from Renishaw and other metrology suppliers. Although the ACR3 is a four port unit, two can be linked together so that eight different probes or extensions can be stored in the rack - sufficient for any measurement task.

Change Rack FCR25

Flexible change racks for automated changing of SP25M scanning and touch-trigger 3 Station (6, 9, 12 and 15 Stations available).

MRS2 Stylus Module Rack

MRS2 is available with different column and rail lengths to allow configurations for a variety of applications. When the CMM workspace is tight, or when many probes and styli are needed, additional rails can be attached to the MRS2 to configure a multi-stage magazine. The rail is compatible with the following interchangeable systems: ACR3, FCR25, memory module and roughness probe SFA for REVO probes.