

7.10.7 SF

Shop-Floor Coordinate Measuring Machine



HEXAGON METROLOGY 7.10.7 SF

Quality Insight at the Point of Production

The Hexagon Metrology 7.10.7 SF is like a machine tool for quality control — no other CMM performs like it in tough shop-floor conditions. The SF series draws its design inspiration from over fifteen years of shop-floor machine production experience and thousands of units in the field worldwide. It is designed from the ground up to surpass the demanding requirements of shop-floor users.

This rugged CMM excels in the harsh environment of machine shops and manufacturing cells with advanced thermal compensation, covered ways, built-in vibration resistance and shop-hardened design. It is flexible — using standard 110/220 volt outlets with no need for shop air.

Users can move the 7.10.7 SF to various points of production, where precise dimensional inspection is required. It is economical to own and operate, with low upfront costs and simple maintenance.

Using the touch-screen interface and the revolutionary PC-DMIS Touch software, operators can run inspection programs on the shop floor with little training. Gaining immediate insight into quality control helps you react quickly to process variations, reducing scrap and increasing productivity.



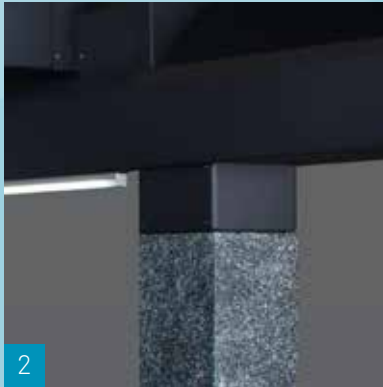
7.10.7 SF SHOP-FLOOR COORDINATE MEASURING MACHINE





1 **Light-weight Bellows and Covers**

Machine components are protected while minimising friction for smooth-running, precise performance.



2 **Thermal Isolation**

Thermal isolation elements, as well as temperature compensation, ensure accuracy is maintained in changing shop-floor temperatures.



3 **Optimised Jogbox and Holder**

A newly designed, robust, user-focused jogbox and holder makes interacting with the machine more intuitive.



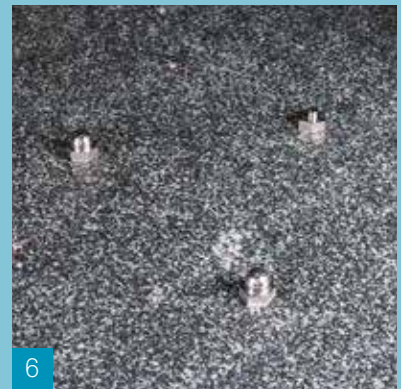
4 **Vibration Isolation**

The standard elastomeric vibration isolation is sufficient in most cases. For more severe environments, an integrated active system is available.



5 **Probe Choices**

A wide variety of Hexagon Metrology touch trigger and scanning probes are available to match a wide range of requirements and budgets.



6 **Integrated Fixturing System**

Optional kinematic supports screw into specially located table hole locations and hold up to four 300mm plates or one 500mm plate.



7 **Workspace Lighting**

This simple detail greatly enhances the user experience. Cool LED lights brightly illuminate the measurement volume.



8 **Touch-screen Monitor**

The integral touch-screen monitor with hidden cable management provides convenient touch-based operator input.



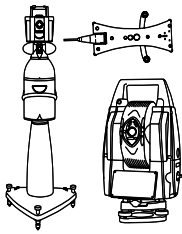
9 **Message Lighting**

Optional integrated red and green LED lights on the Z-axis allows 7.10.7 SF operators to quickly view the CMM status from afar.



The SF series includes PC-DMIS®, today's most popular and powerful metrology software, featuring an intuitive graphical user interface that easily guides first-time operators through part programming, setup and inspection. It is ideal for the shop floor:

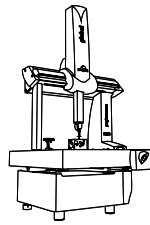
- Upgrading to PC-DMIS Touch gives operators a revolutionary new way to interact with inspection data and measurement devices. The software features a full screen interface, advanced Multi-Touch technology, intuitive inspection routines, and the power of PC-DMIS built in.
- With optional offline programming, you can develop inspection routines while leaving the machine free to measure. PC-DMIS CAD lets you select geometry and define parameters by clicking on the CAD model. With data automatically extracted from the CAD model, you'll save time and eliminate a source of costly errors.
- PC-DMIS's unique editing tools and customisable menus make program modification fast and easy. Users of all skill levels can measure everything from simple prismatic parts to complex geometries quickly and accurately.



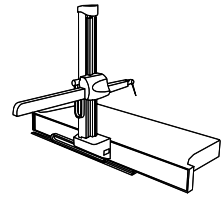
LASER TRACKERS
& STATIONS



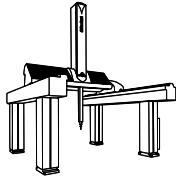
PORTABLE MEASURING ARMS



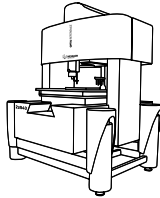
BRIDGE CMMs



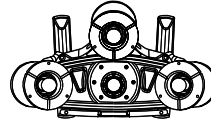
HORIZONTAL ARM CMMs



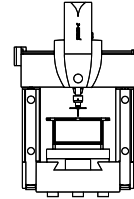
GANTRY CMMs



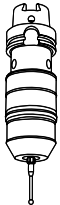
MULTISENSOR & OPTICAL SYSTEMS



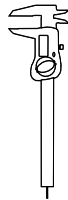
WHITE LIGHT SCANNERS



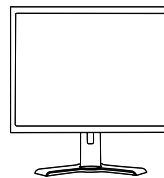
ULTRA HIGH ACCURACY CMMs



SENSORS



PRECISION MEASURING
INSTRUMENTS



SOFTWARE SOLUTIONS



Full Bright®

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