

# SHOP-FLOOR CMMs

Designed With the Shop-floor in Mind







# QUALITY INSIGHT AT THE POINT OF PRODUCTION

# INSPIRATION FROM **EXPERIENCE**

The SF series draws its design inspiration from more than 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.

These rugged CMMs excel in the harsh environment of machine shops and manufacturing cells with advanced thermal compensation, covered ways, built-in vibration resistance and shop-hardened design. They are flexible — using standard 110/220 volt outlets with no need for shop air.

Using a 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.





## SHOP-FLOOR LINE OVERVIEW



### 4.5.4 SF CMM

The 4.5.4 SF's most notable feature is its flexibility. It uses standard 110/220 volt outlets with no need for shop air. The compact footprint and roll-around stand, specifically designed to fit through a standard door, lets you easily move the 4.5.4 SF series anywhere in the shop where precise dimensional inspection is required. Recently updated, the 4.5.4 SF now shares many of the unique user-experience features first introduced on the 7.10.7 SF.



## 7.10.7 SF CMM

Designed around creating the ultimate user experience the 7.10.7 SF's computer, controller, and interface boxes are housed in one self-contained unit for easy transport on the shop-floor. An integrated and flexible part fixture system enables users to locate a variety of fixture plates on the table for multiple part inspections. Integrated LED lighting illuminates the workspace which further enhances productivity.

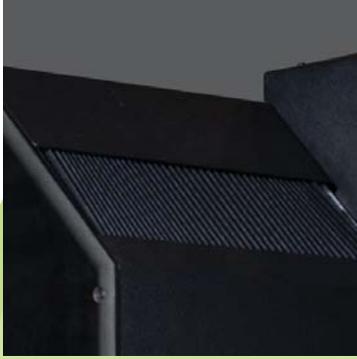
# INLINE TO **SAVE TIME**

Place SF series CMMs in manufacturing cells with machining operations for immediate results. No longer is a trip to a separate environmentally-controlled quality lab required.

Use the SF series to:

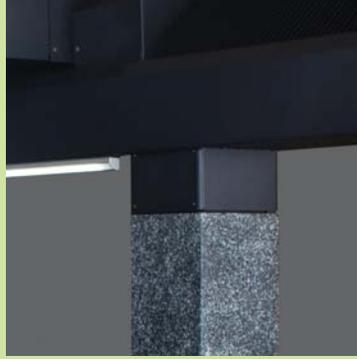
- Speed inspections
- Perform real-time adjustments to equipment on the production floor
- Minimize production wait times
- Reduce scrap and rework
- Eliminate manual data entry





### Bellows and Covers

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



### Thermal Isolation

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



### Optimized Jogbox and Holder

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



### Vibration Isolation

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



### Probe Choices

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



### Integrated Fixturing System

Optional kinematic supports screw into specially located table hole locations and hold mating kinematic fixture plates for easy part load/unload.



### Workspace Lighting

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



### Touch-screen Monitor

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



### Message Lighting

Optional integrated red and green LED lights on the Z-axis allow SF operators to quickly view the CMM status from across the shop.

# PC-DMIS TOUCH TOUCH TO BEGIN

PC-DMIS®, today's most popular and powerful metrology software, comes standard with the SF series. PC-DMIS features an intuitive graphical user interface that easily guides first-time operators through part programming, setup and inspection. Select PC-DMIS TOUCH for the following:



## GUIDED WORKFLOW

The new PC-DMIS TOUCH software guides you safely through the measuring process. Each step of the process is shown in full-screen mode and is marked with a unique color. Graphics of the measured elements appear in the center of the software interface. Icons at the bottom edge of the screen allow you to quickly switch to other functional areas of PC-DMIS TOUCH.



## MEASURE

With PC-DMIS TOUCH you can check individual characteristics without a measuring program. Automated measuring routines are there to guide you through more complex tasks. Elements that have already been measured can be found in a list or in the graphic display.

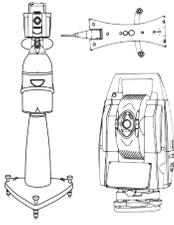


## REPORT

While the characteristics are measured, you can select whether the respective data appears in the report. Access to the report is available with a swipe of the finger. It contains a clear graphic display which tells you at a glance if the part is in or out of tolerance.







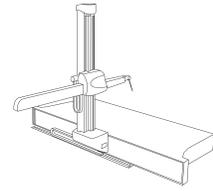
Laser Trackers & Stations



Portable Measuring Arms



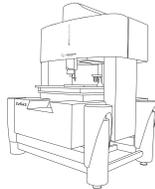
Bridge CMMs



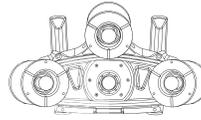
Horizontal Arm CMMs



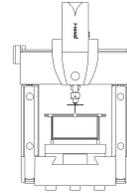
Gantry CMMs



Multisensor & Optical Systems



White Light Scanners



Ultra High Accuracy CMMs



Sensors



Precision Measuring Instruments



Software Solutions



**HEXAGON**  
METROLOGY

Hexagon Metrology offers a comprehensive range of products and services for all industrial metrology applications in sectors such as automotive, aerospace, energy and medical. We support our customers with actionable measurement information along the complete life cycle of a product – from development and design to production, assembly and final inspection.

With more than 20 production facilities and 70 Precision Centers for service and demonstrations, and a network of over 100 distribution partners on five continents, we empower our customers to fully control their manufacturing processes, enhancing the quality of products and increasing efficiency in manufacturing plants around the world.

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