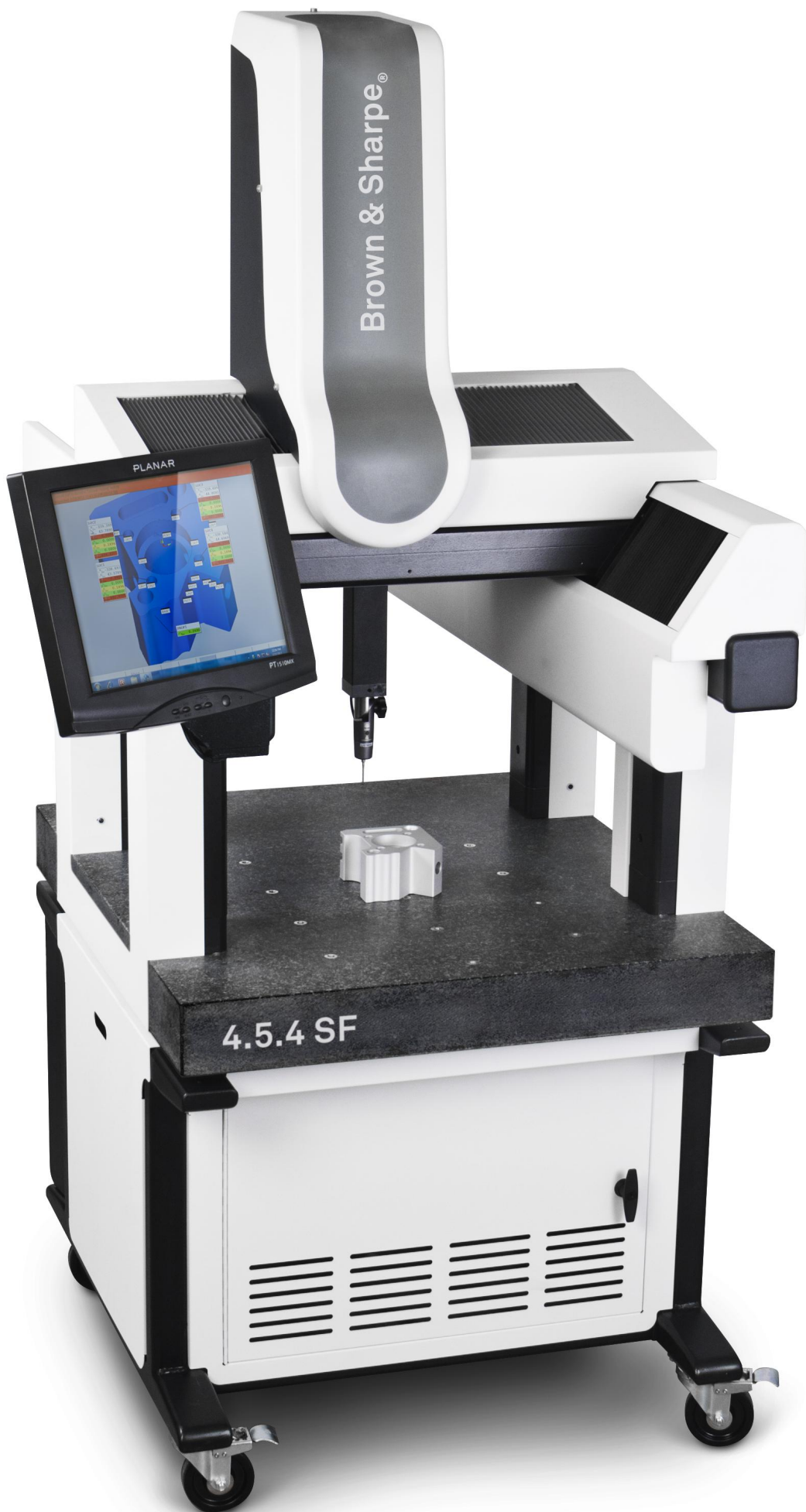


# 4.5.4 SF

Shop Floor Coordinate  
Measuring Machine

On-Location Quality Control



# *Brown & Sharpe 4.5.4 SF*

## Quality Insight at the Point of Production

The Brown & Sharpe® 4.5.4 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's flexible — using 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 users easily move the SF series anywhere in the shop where precise dimensional inspection is required. It's economical to own and operate, with low up-front cost and simple maintenance.

Using the touch screen interface and PC-DMIS STI+, 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.





### The Smallest Shop Floor CMM

The 4.5.4 SF is specially designed for smaller parts and tight spaces, with a measuring envelope of 355mm x 514mm x 353mm. It even fits through a standard door, so you can place the machine anywhere you need it. No shop air means you can just plug it in and measure.



79.5 in  
2020 mm

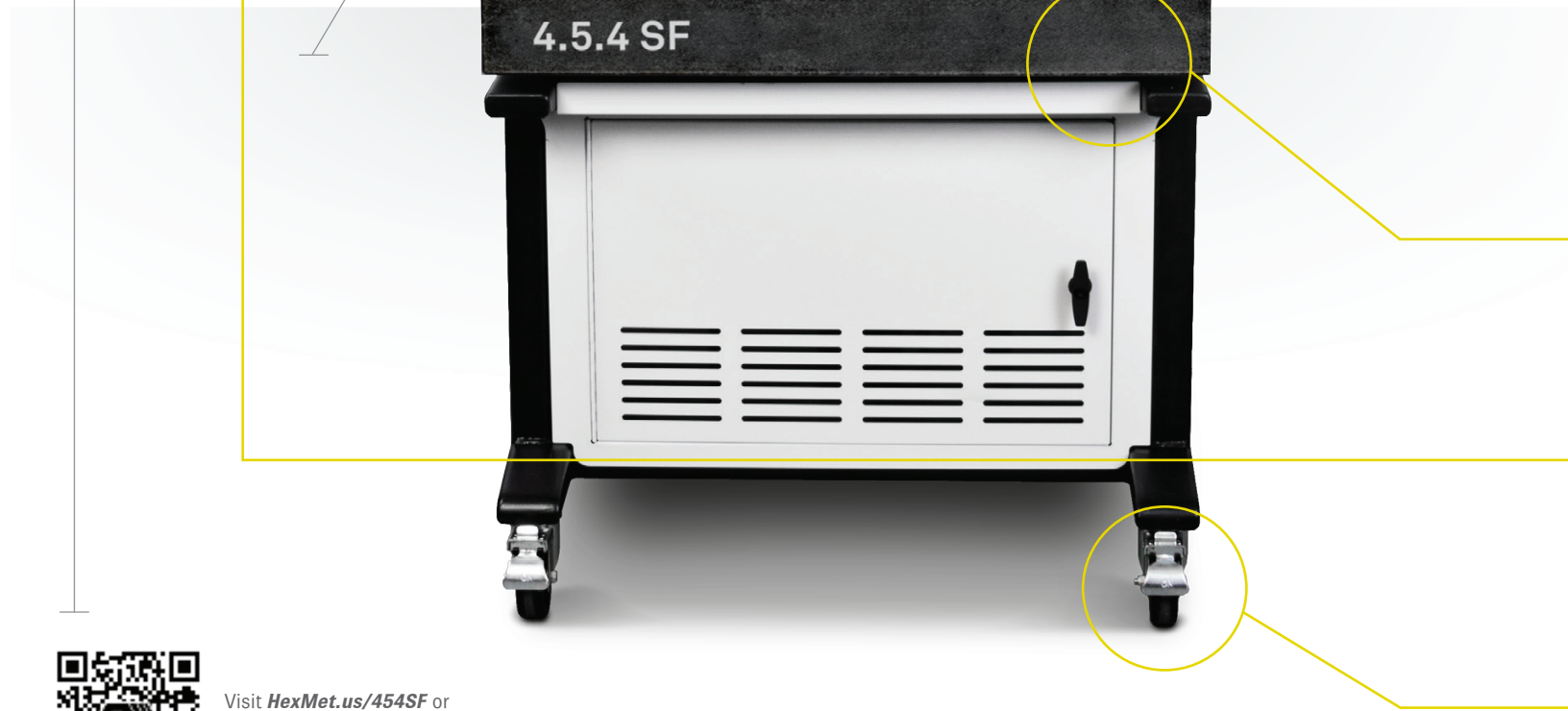
52.2 in  
1325 mm

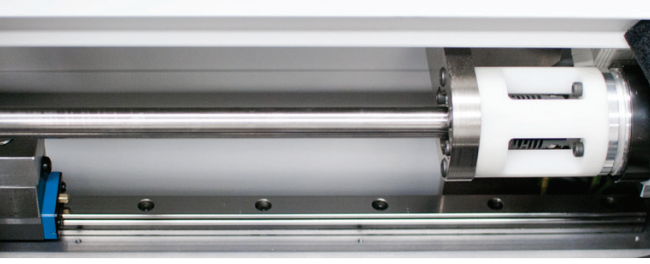
4.5.4 SF



Visit [HexMet.us/454SF](http://HexMet.us/454SF) or scan code to see a video demo of the 4.5.4 SF.

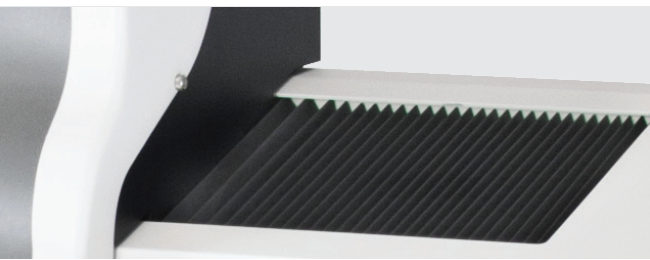
43.5 in  
833 mm





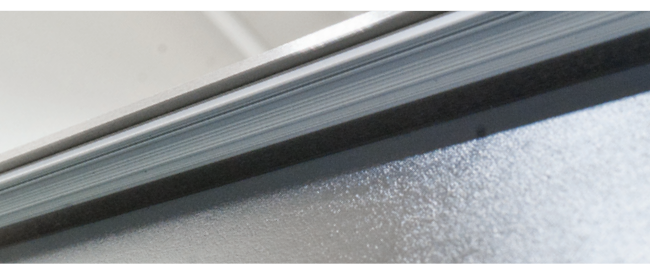
### Precision Drive Systems

Hardened linear guides, recirculating bearings, and precision drives provide long-lived, reliable inspection.



### Light-weight Bellows and Covers

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



### Inverted Scales

High resolution Heidenhain scales help ensure high accuracy and the novel inverted mounting technique keeps them free from contamination.



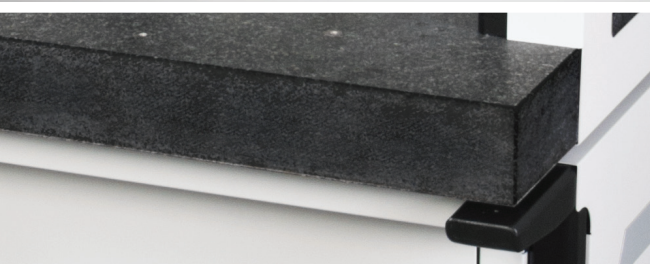
### Thermal Isolation

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



### Probe Choices

A wide variety of TESASTAR touch probes, including manual or automatic indexing options, are available.



### Vibration Isolation

The unique design and standard elastomeric dampers isolate the measuring platform from most vibrations. For extreme environments, an optional integrated active vibration dampening system is available.



### Touchscreen Monitor

The integral monitor mount with hidden cable management accommodates a variety of touch-screen or standard monitors.



### Roll-around Stand

The computer, controller and interface boxes are integrated into one self-contained package, making it easy to move the CMM wherever it's needed.





**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's ideal for the shop floor:

- The Single Touch Interface (STI+) module of PC-DMIS allows operators to access inspection programs with simple touch-screen buttons on the CMM's monitor. Operators can be trained in just minutes and easy-to-read inspection results are available in real time.
- With optional off-line 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 customizable 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.



The Brown & Sharpe brand name has been synonymous with quality for more than 150 years. Once a stand-alone company, today Brown & Sharpe is a flagship brand of the Hexagon Metrology group. Brown & Sharpe brand Coordinate Measuring Machines (CMMs), optical measuring systems, 1D, 2D and 3D benchtop measuring machines and precision hand tools represent the highest quality in design, construction and performance.

Brown & Sharpe, a brand of Hexagon Metrology, Inc.

250 Circuit Drive

North Kingstown, RI 02852 USA

Phone: 800-274-9433

Fax: 401-886-2727

[www.brownandsharpe.com](http://www.brownandsharpe.com) | [www.hexagonmetrology.us](http://www.hexagonmetrology.us)

© Hexagon Metrology, Inc., 2012 all rights reserved.

All specifications listed in this brochure are subject to change without notice.

For use in North American market area.

Printed in USA - April 2012

#990175