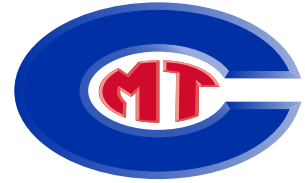


CONCEPT MACHINE

Metrology Spotlight

Bringing you the newest products and technology.



Upgrade to Trusted Measuring Results. ZEISS SPECTRUM

Designed to meet the market's demand for an economical, entry-level CMM with a Carl Zeiss machine, sensor and software technology.

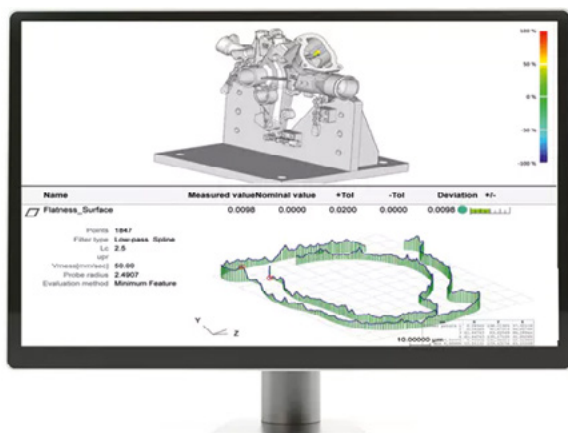


Features:

- Small footprint
- x, y, z measuring ranges from 700 x 700 x 600 mm to 700 x 1,000 x 600 mm
- High resolution failure detection
- Hard-coat aluminum guideway elements
- Accuracy of up to $MPE_e 2.1 + L/250$ is guaranteed over a temperature range from 18 to 22-degrees C (64-71 degrees F)
- C99L Controller, reducing the need for additional floor space
- Dual-joystick panel makes motorized control easy
- Available with CALYPSO metrology software
- Various tactile sensors including ZEISS VAST XXT and XDT

UNMATCHED COST EFFECTIVENESS

Unique in its class: RDS with Computed Aided Accuracy (CAA) allows an interpolation of positioning qualification with around 5184 possible angles. It enables more positions for probe head rotation, reduces calibration time and increases operation time dramatically.



New Model:
SPECTRUM

Perform interim verification checks on any CMM.

CMM Reference Artifact



Maintain Consistent Measurement Results Between Calibration

Do you need added confidence in your CMM between annual calibrations?

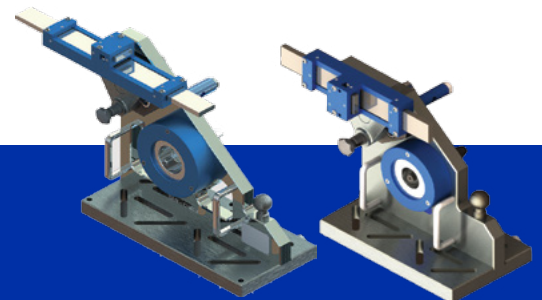
Measurement of all features will allow the user to compare the results to calibrated standards and then monitor machine drift on a month to month basis between annual verifications.

For Larger CMM's, complete with the following:

- 50mm Parallel Length Bar
- 400mm Parallel Length Bar
- 050mm Internal Ring Gauge
- 030mm Ceramic Sphere
- External Taper

For Smaller CMM's, complete with the following:

- 50mm Parallel Length Bar
- 300mm Parallel Length Bar
- 035mm Internal Ring Gauge
- 030mm Ceramic Sphere
- External Taper



- Accredited Calibration Certificates
- Easy Operator Use
- Results Automatically Collected
- Choice of Software Available

Fixturing Simple by Design

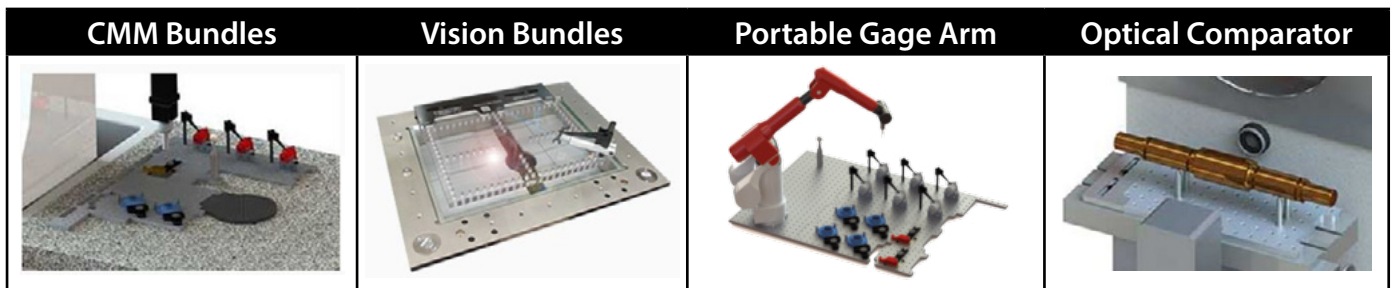
Now
Representing

**INSPECTION[®]
ARSENAL**

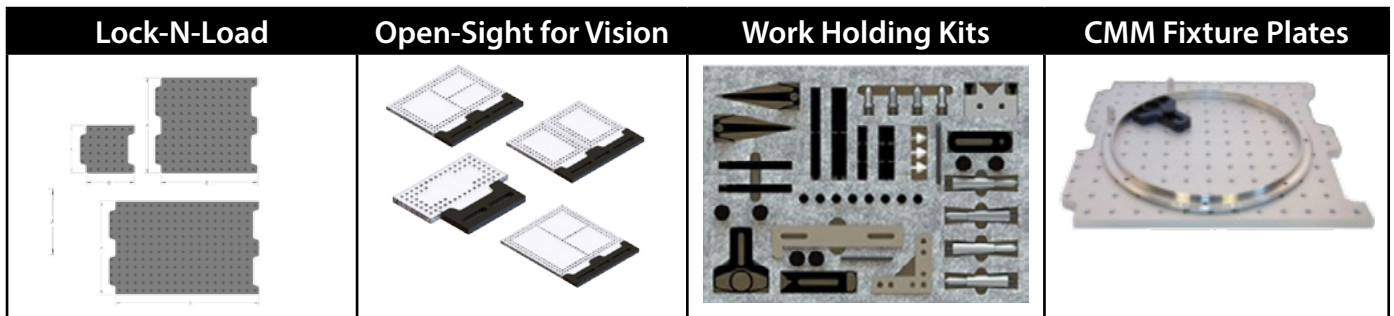
Potential Savings to Consider

- Shop labor hourly rate
- Metrology Lab hourly labor rate
- Value of rejected product \$ in-process
- Value of rejected product \$ in final inspection
- Value of rework \$ incurred throughout
- Annual warranty returns in \$ or % of revenue
- Penalty for missed deadlines that could lead to a revoked contract \$
- Value of your reputation if impacted by unsatisfied customers
- Annual Cost of Quality \$ overall
- Make (design, material, labor, machine time, etc.) versus Buy (purchase) decisions for fixturing costs
- Value of standardized and modular fixturing equipment and processes that minimize personnel training

Bundled Systems



Individual Plates & Components



Integrated Full HD Digital Microscope and Measurement System that Functions without a PC

The unique ability of the Omni to stay in calibration over the entire zoom range is one of many features that differentiates this system from other digital inspection systems.

Basic Functions

Auto / Manual focus; brightness adjustment, magnification adjustment, snapshot, overview, high contrast mode, height adjustable

Camera Resolution

HD 1080p: 1920x1080

Zoom

5D lens; 2.5x - 122x (24" screen)

Response Time

5ms

Input/Output Modes

HDMI Output • USB 2.0 port x 4
RJ45 Ethernet network connector
General purpose IO port x 3 • DC 24v power jack

Monitor Format

HD ready or Full HD 16:9 (recommended) - monitor not included

Optional Accessories

LED ring lights, fiber optic illuminators, auxiliary objectives, polarizers, stands

FEATURES:

- 2D Measurement & Annotation
- Focus Stacking
- Image Overlay
- Lens Distortion Correction
- Calibration Tracking
- On-screen Reticle
- Side by Side Comparison
- Removable USB Image Capture
- Save & Recall Images Internally
- Transfer Images to PC Via USB
- Intuitive Graphical User Interface
- No PC Required



Surface Roughness and Straightness in One Compact Machine



ZEISS SURFCOM TOUCH 50

The SURFCOM TOUCH 50 system comes with an intuitive and easy-to-use screen for condition setting, calibration, measurement and analysis. An amplifier with a 7-inch wide touch panel and a new interface provides higher operability. Easy-to-use operation eliminates the need of instructions.

Measurement Range:	Z Direction	+500 μm
	X Direction	50mm
Tracing Driver:	Measurement Speed	0.15, 0.3, 0.6, 1.5, 3 / 0.05, 0.1, 0.2, 0.5, 1 mm/s (Switching)
	Evaluation Length	0.1 to 50mm
	Straightness Accuracy	0.3 $\mu\text{m}/50\text{mm}$
	Detector vertical movement volume	50mm

- Extended Z-axis measurement range from 800 to 1,000 μm
- Compact high performing tracing driver
- Handy-type driver can be attached
- Easy to use touch screen
- USB/micro USB ports
- Built in printer available for quick printing

