

*A premium midrange
horizontal optical comparator*

FEATURES

Ideal optical comparator built for all types of part inspection and measurement

Hardware

- 20" diameter screen
- Heavy duty cast iron and nickel plated worktable support structure
- 15" x 9" motorized XY travel
- 0.00004" XY scales

Optics & Illumination

- Telecentric with fully corrected image
- 5 position internal lens turret
- 8.4" constant working clearance
- 10X-100X projection lenses
- Tungsten halogen profile illumination

Electronics & Software

- Metronics® Quadra-Chek® QC-100 is standard, or choose a QC-200 or QC-300 Series DRO
- Optional Scan Fit & Measure fitting software
- Optional SmartReport® with real-time statistics
- Optional EdgeScan™ for internal automatic edge detection



CC-20 shown with optional Metronics QC-200 DRO.

MEASUREMENT SYSTEM

CC-20 – Fatigue Free Inspection

Use the CC-20 optical comparator with confidence for all your manufacturing requirements, its innovative range of options lets you configure a system to your specific needs.

Get fatigue-free operation with the 20" diameter screen, eye-level displays, and easy access to parts and fixtures.

Solid Design

The combination of the robust design, superior optical system, advanced electronics and software, and illumination delivers the performance you have been looking for in a midrange comparator. Rigid construction and heavy duty components allow for durability and long term reliability.

Intuitive Electronics and Software

Choose a Quadra-Chek QC-100, QC-200, or QC-300 DRO to get the measurements you need.

Choose optional EdgeScan™ internal automatic edge detection for accurate

edge measurements from every user. Connect your CC-20 to a PC and run optional measurement fitting and reporting software.

Illumination

CC-20 includes tungsten halogen square-on, direct projection and profile lighting.

Precision Optics

Choose telecentric projection lenses with magnification range of 10X-100X for superb image quality. The 5 position internal lens turret keeps lenses safe and ready for immediate use.

Compare the Quality

CC-20 Optical Comparator

TECHNICAL SPECIFICATIONS

Optical

Screen Size	20" diameter screen, with integral hood
Screen Type	Ground glass with 90° centerlines and clips for mounting standard overlay charts
Protractor	Screen rotation protractor with $\pm 360^\circ$ motion, digital display, thermal compensation function, 0.01° or 1' display
Optical System	Telecentric, horizontal, with fully corrected image, 8.4" constant working clearance
Optional Lenses	10X, 20X, 50X, 100X
Lens Turret	Standard one position, fixed; Optional five position, motorized turret
Throat Clearance	18.38"

Mechanical

XY Travel	15" x 9"; Focal - 3" with precision fine adjustment
Optional Travel	Extended X axis travel - 18"
XY Positioning	Motorized, DC servo, with variable speed joystick and X axis fine adjustment knob
Worktable	Nickel plated iron with 3 fixturing slots, 32" x 8", 550 lb load capacity
Helix Motion	$\pm 7.5^\circ$ with pivoting worktable assembly and zero stop
System Dimensions	67" x 38" x 75" DWH
Weight, approximate	1600 lb

XY Motion

Precision mechanical bearing slides attached to a heavy duty cast worktable support structure

Illumination

100 W tungsten halogen, direct projection profile, with green filter

Optional Illumination

200 W mercury arc direct projection; 200 W mercury arc surface

Electronics

Optional Electronics



Metronics® Quadra-Chek® QC-100 (std.)

Metronics® Quadra-Chek® QC-200, QC-300

Optional Software Packages

Scan Fit & Measure; SmartReport® with real-time statistics (requires separate computer); Metronics® Quadra-Chek® QC-Wedge (requires separate computer and Microsoft® Excel™)

Power Requirements

115 VAC, 50/60 Hz, 1 Φ , 2500 W

XY Accuracy (worktable linear)

Within 0.0003" total band over full travel*

Options

EdgeScan™ internally mounted automatic edge detection (requires DRO)
Surface illumination concentrator (for 50X and 100X lenses)
Glass and plastic overlay charts; custom electronic chart gages via Scan Fit & Measure
Adjustable iris assembly, adjustable slit iris assembly
Overhead curtain
Service and support contracts
Fixtures and calibration accessories

Warranty

Two year, limited (North America only)

*Applies to thermally stable system in rated environment, checked at factory with 50X lens. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy.



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