

*A large screen, small footprint
horizontal optical comparator*

FEATURES

Ideal optical comparator for large images in a small amount of space

Hardware

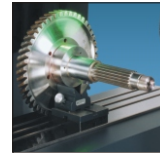
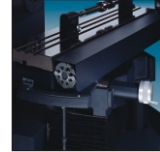
- 30" diameter screen
- Heavy duty cast iron and nickel plated worktable support structure
- 15" x 9" motorized XY travel
- 0.00004" XY scales

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 aQC-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-30 shown with optional Metronics QC-200 DRO.

MEASUREMENT SYSTEM

CC-30 – High Capacity Optical Comparator

The CC-30 is an optical comparator that offers a large, bright image in a compact workspace.

With the bright, 30" diameter screen at eye level and easy access to parts and fixtures, the CC-30 is designed to provide great performance right where you need it.

Solid Design

The combination of the robust design, superior optical system, advanced electronics and software, and bright illumination delivers the performance you need in a high load capacity 30" 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-30 to a PC and run optional measurement, fitting, and reporting software.

Illumination

CC-30 includes tungsten halogen square-on, direct projection and profile lighting.

Precision Optics

Choose telecentric projection lenses with a 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-30 Optical Comparator

TECHNICAL SPECIFICATIONS

Optical

| | |
|------------------|---|
| Screen Size | 30" 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 | 71" x 42" x 80" DWH |
| Weight, approximate | 1700 lb |

XY Motion

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

Illumination

150 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)
Glass and plastic overlay charts; custom electronic chart gages via Scan Fit and Measure
Surface illumination concentrator (for 50X and 100X lenses)
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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