

A Large Screen, Small Footprint Horizontal Optical Comparator

Features

Hardware

- 30" diameter screen
- 15" x 9" XY travel
- Cast iron vertical elevating assembly, heavy duty cast iron nickel plated worktable
- 0.00004" XY scales

Optics & Illumination

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

DRO & Software

- Quadra-Chek® QC-100 or Q-Check® is standard, or choose a QC-200 or QC-300 series DRO
- Optional MeasureFit® Plus for CAD analysis fitting
- Optional SmartReport® with real-time statistics
- Optional EdgeScan™ or Projectron™ for internal automatic edge detection
- Optional eChek™ metrology software

CC-30 – High Capacity Optical Comparator



The CC-30 is a large capacity optical comparator that offers a large, bright image and compact footprint for a 30-inch comparator.

With the 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 and bright illumination delivers the performance you need in a high load capacity 30-inch comparator. Rigid construction and heavy duty components allow for durability and long-term reliability.

Intuitive Electronics and Software

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

Choose optional EdgeScan or Projectron for 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 150w tungsten halogen profile lighting as standard, with mercury-arc profile and surface light optional.

Precision Optics

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



Technical Specifications

CC-30

Optical

Screen Size
Screen Type
Protractor

30" diameter screen, with integral hood
Ground glass with 90° centerlines and clips for mounting standard overlay charts
Rotary screen ring with rotation protractor with $\pm 360^\circ$ motion, digital display, thermal compensation function, 0.01° or 1' display
Telecentric, horizontal, with upright and fully reversed image, 8.4" constant working clearance
10X, 20X, 31.25X, 50X, 62.5X, 100X
Standard one position, fixed; Optional five position, motorized turret
18.38"

Mechanical

XY Motion
XY Travel
Focus Travel
Optional Travel
XY Positioning

XY Scale Resolution
Worktable
Optional Helix Motion
Systems Dimensions
(approx DWH)
Weight (approx)

Motorized, DC servo, with variable speed joystick and X & Y axis precision fine adjustment
15" x 9"
3" with precision fine adjustment
Extended X axis travel - 18"
Precision cast iron vertical elevating assembly, mechanical bearing slides attached to a heavy duty cast worktable support structure
0.00004"
Heavy duty cast iron nickel plated worktable, 32" x 8"; 550 lb load capacity
 $\pm 15^\circ$ with pivoting worktable assembly and zero stop
71" x 42" x 80"

1,700 lb

Illumination

Standard Illumination
Optional Illumination

150 W tungsten halogen, direct projection profile, with green filter
200 W mercury arc direct projection with green filter; 200 W mercury arc surface

Electronics

Standard Electronics
Optional Electronics

Choice of Quadra-Chek® QC-100 or Q-Check®
Quadra-Chek QC-200 or QC-300

Optional Software Packages

(All optional software requires
a separate computer)

MeasureFit® Plus
SmartReport® with real-time statistics
Quadra-Chek QC-Wedge (requires Microsoft® Excel™)
eChek™ Metrology Software

Power Requirements

115/230 VAC, 50/60 Hz, 1 , 2500 W

Options

Adjustable iris assembly
Digital video screen image capture
EdgeScan™ internal automatic edge detection (requires a Quadra-Chek DRO)
Projectron™ automatic grayscale edge detection (requires a Q-Check DRO and mercury arc projection)
Fixture and calibration reticles
Glass and plastic overlay charts
Surface illumination concentrator (for 50X and 100X lenses)
High magnification collimator
Swing away lamphouse
Overhead curtain
Service and support contracts

Warranty

Full parts and labor warranty for 1 year.