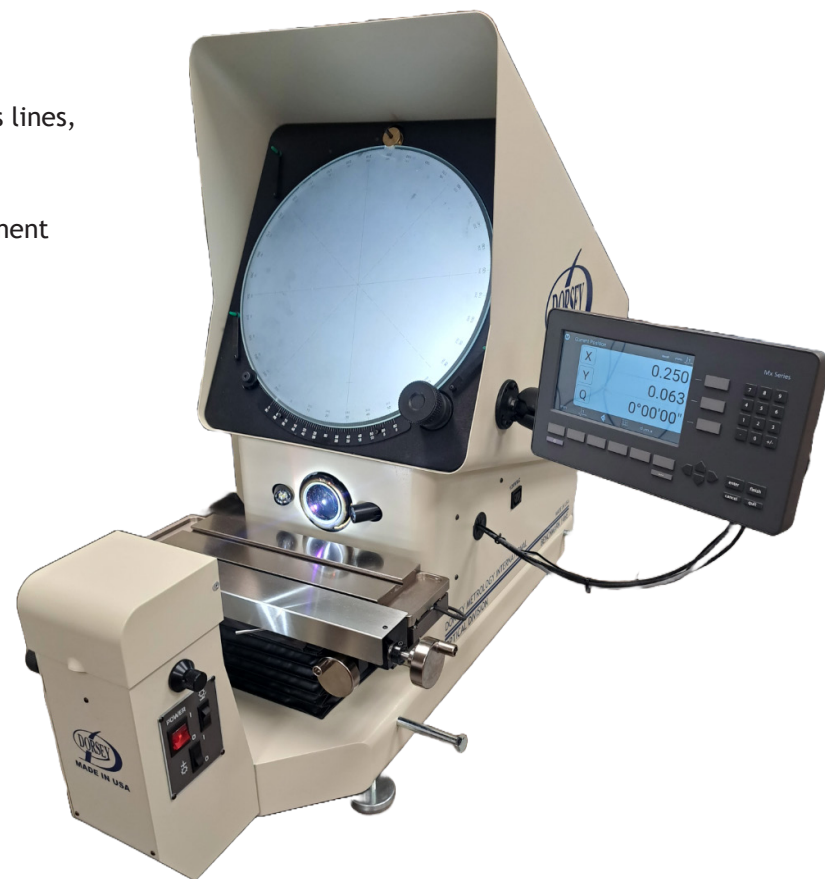


The 14HE benchtop comparator is Dorsey Metrology's most affordable comparator, offering the same high-quality features as other models but in a smaller and less expensive package.

## FEATURES:

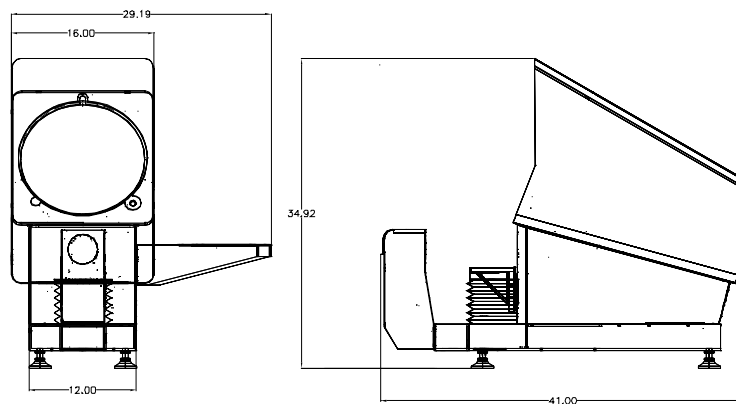
- 14" (350mm) angled high-resolution glass screen for optimum viewing with 90-degree cross lines, calibration reticle, and chart clips
- Reversed and inverted profile image
- Machined chart ring with vernier protractor, 1 minute graduation facilitates optimal alignment
- Coated telecentric parfocal optics
- Quick change single lens mount
- Integrated hood
- Solid cast iron, nickel plated stage
- X&Y solid rail crossed roller bearings
- Single universal dovetail stage
  - 16" x 4" (400 x 100mm) overall stage size
  - 8" / (200mm) X-axis travel with quick release
  - 4" / (100mm) Y-axis travel (vertical movement/rise & fall)
  - 50 lbs capacity
  - $\pm 5$  degree light source helix adjustment
- NIST traceable calibration certificate
- 0.1  $\mu$ m scales are standard equipment
- 2 year limited warranty



## OPTIONAL FEATURES:

- Internal edge detection
- LED surface illumination
- Choice of readout options, see page 90
- Output for electronic rotary screen protractor (Q-axis) on readout with selectable between DMS (degree-minute-second) and DD (decimal-degrees) of a degree resolution
- Q axis accuracy  $\pm 0.5$  degrees
- Harsh Environment Package
- Additional lens magnifications available
- Tooling

## DIMENSIONS



Technical Specification	
Illumination	Profile: Dimmable LED Surface: 2-Triple LED lights (optional)
Screen Size	14" (350mm) Ground glass with cross-lines
Stage	Cast iron, nickel plated, 16" x 4" single dovetail
Stage Travel	X = 8" (200mm) Y = 4" (100mm) Focus = 1.5" (38mm)
Stage Accuracy	Within $\pm 0.004$ mm $+[L/20].001$
Linear Scale Resolution	Standard: 0.1 $\mu$ m/.000004"
Repeatability of Scales	$\pm 1$ Scale count (0.1 $\mu$ m/.000004")
Coated Telecentric Lenses	10x, 20x, 50x
Optical Accuracy	Within $\pm .10\%$ Profile, $\pm .15\%$ Surface
Power Requirements	120V or 240V AC, 50/60 Hz, 10 Amp
Weight	230 lbs/105 kg