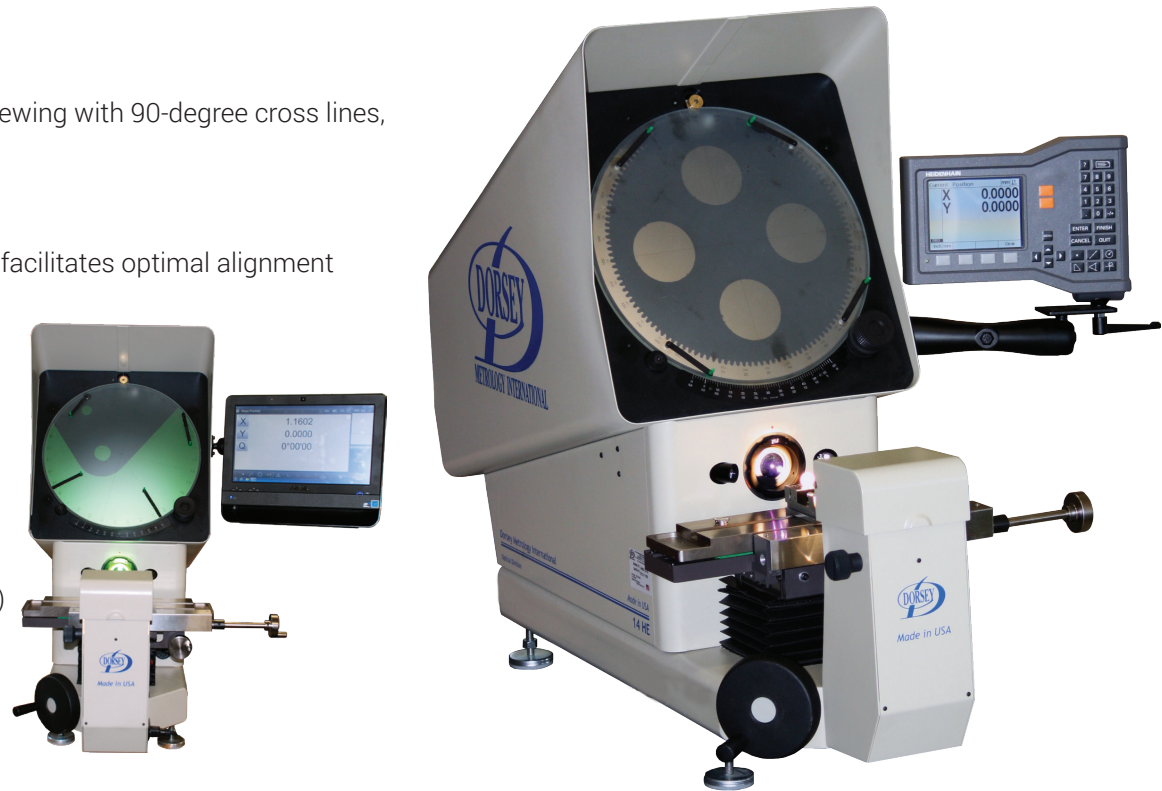


The 14HE benchtop comparator is Dorsey Metrology's basic and most economical comparator with the same high quality features as the other comparators in our product line, but in a smaller package at a lower price. The addition of our extra long-life LED surface illumination is another Dorsey innovation.

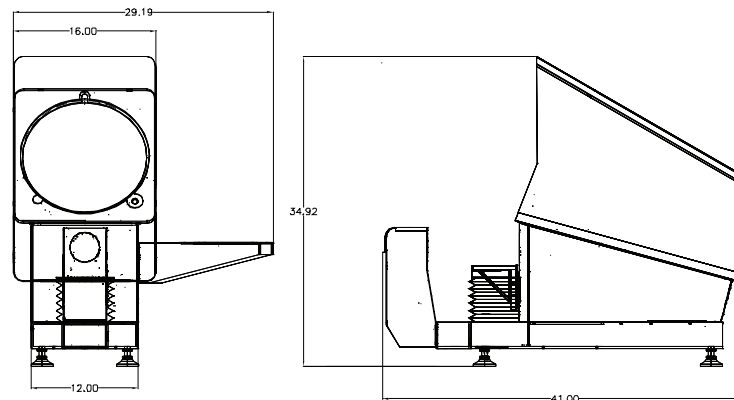
FEATURES:

- ✓ 14" (350mm) angled high-resolution glass screen for optimum viewing with 90-degree cross lines, calibration reticle, and chart clips
- ✓ Dimmable LED profile illumination
- ✓ 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
 - > ± 5 degree light source helix adjustment
- ✓ NIST traceable calibration certificate
- ✓ 0.1 µm 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 1 minute or 1/100 of a degree resolution
- ✓ 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 +/- 0.004mm +[(L/20).001]
Linear Scale Resolution	Standard: 0.1 µm/.000004"
Repeatability of Scales	+/- 1 Scale count (0.1 µm/.000004")
Coated Telecentric Lenses	10x, 20x, 50x, 100x
Optical Accuracy	Within +/- .10% Profile, +/- .15% Surface
Power Requirements	120V or 240V AC, 50/60 Hz, 10 Amp
Weight	230 lbs/105 kg