

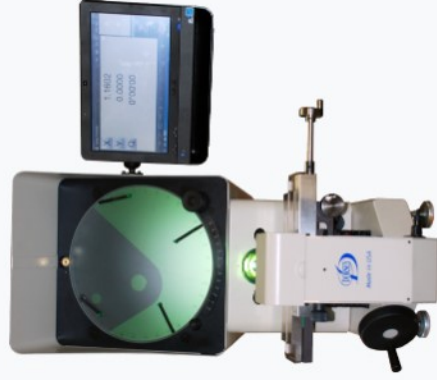
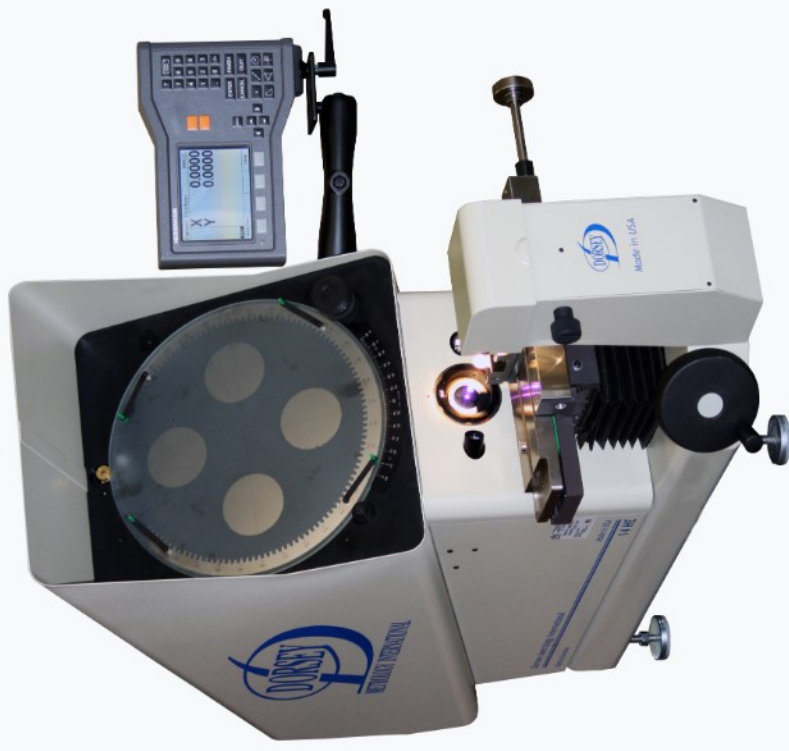
MODEL 14HE HORIZONTAL BEAM

www.dorseymetrology.com

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:

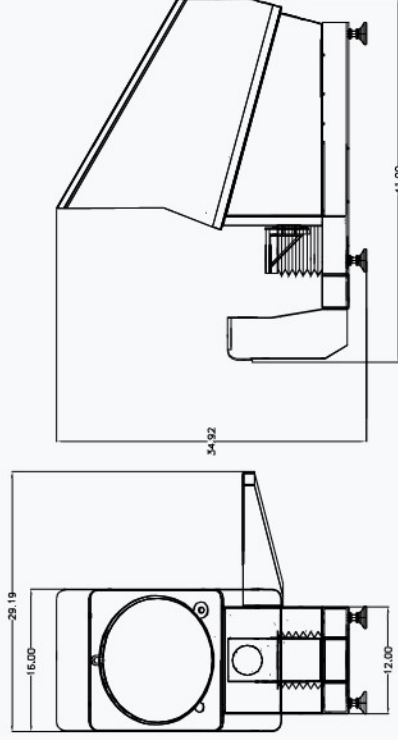
- ✔ 14" (350mm) angled high-resolution glass screen for optimum viewing with 90-degree cross lines, calibration reticle, and chart clips
- ✔ Reversed and inverted profile image
- ✔ Machined chart ring with vernier protractor, 1 minute graduation facilitates optimal alignment
- ✔ Coated telecentric parfocal 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
- ✔ 1/4 micron scales are standard equipment
- ✔ 2 year limited warranty



OPTIONAL FEATURES:

- ✔ Internal edge detection
- ✔ LED surface illumination
- ✔ Choice of readout options, see pages 11-13
- ✔ 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: Built-in 24V/150W direct collimated halogen 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 \pm (L/20).001
Linear Scale Resolution	Standard: 0.00025mm/.000010"
Repeatability of Scales	+/- 1 Scale count (0.00025mm/.000010")
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