

MODEL 14HE HORIZONTAL BEAM

The 14HE bench top 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 and 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
- 3 axis solid rail crossed roller bearings
- Single universal dovetail stage
- 16" x 4" overall stage size
- 8" / 200mm X axis travel with "glide release"
- 4" / 100mm Y axis travel (vertical movement/rise & fall)
- 50 lbs capacity
- ± 5 degree light source helix adjustment
- NIST traceable calibration certificate
- 2 year limited warranty



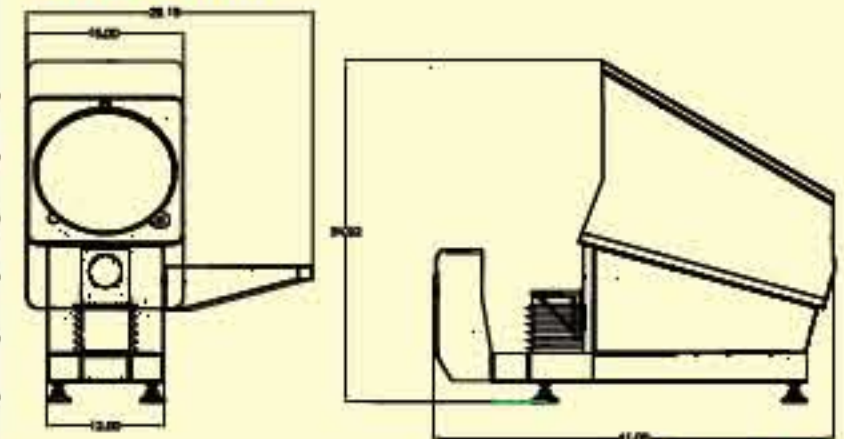
OPTIONAL FEATURES:

- 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

Technical Specification	
Illumination	Profile: Built-in 24V/150W direct collimated halogen Surface: 2-Triple LED lights
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: 0.00025mm/.000010"
Repeatability of Scales	+/- 1 Scale count (0.0005mm/.00002")
Coated Telecentric Lenses	10x, 20x, 25x, 31.25x, 50x, 62.5x, 100x
Optical Accuracy	Within +/- .10% Profile, +/- .15% Surface
Power Requirements	120V or 240V AC, 50/60 Hz, 10 Amp
Weight	230 lbs/105 kg



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BENCHMARK 14H HORIZONTAL BEAM

The Benchmark 14H is an Erect Image bench top comparator and is another example in our expanding range of products. This new comparator has the same high quality features as the current product line with an erect projection image, with our "ultra-precision" crossed roller bearing stage system, but in a smaller package. The measurement scales have zero backlash and are mounted in the center of the stage travel that provides maximum measurement accuracy. The optional extra-long life LED surface illumination is another Dorsey innovation.

FEATURES:

- Erect and reversed profile image
- 14" (350mm) vertical screen for optimum viewing, high resolution ground glass screen with 90 degree cross lines, with calibration reticle and chart clips
- 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
- 3 axis solid rail crossed roller bearings
- Single universal dovetail stage
- 16" x 4" overall stage size
- 8" / 200mm X axis travel with "glide release"
- 4" / 100mm Y axis travel (vertical movement/rise and fall)
- 50 lbs capacity
- ± 5 degree light source helix adjustment
- NIST traceable calibration certificate
- 2 year limited warranty

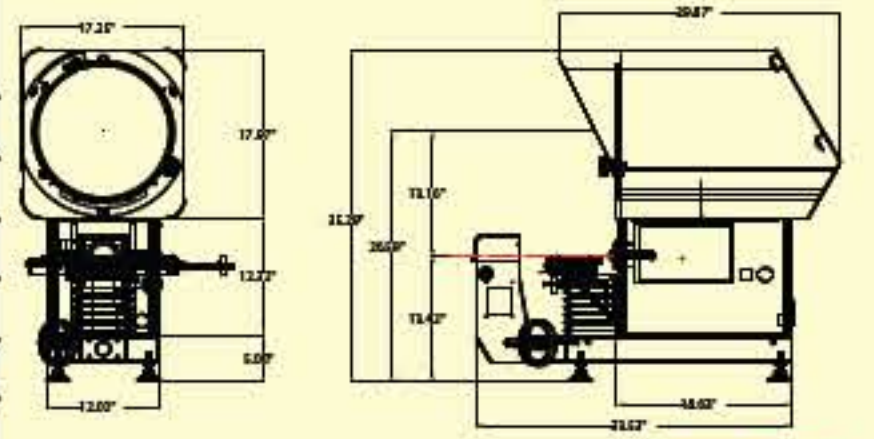
OPTIONAL FEATURES:

- 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

Technical Specification	
Illumination	Profile: Built-in 24V/150W direct collimated halogen Surface: 2-Triple LED lights
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: 0.00025mm/.000010"
Repeatability of Scales	+/- 1 Scale count (0.0005mm/.00002")
Coated Telecentric Lenses	10x, 20x, 25x, 50x, 100x
Optical Accuracy	Within +/- .10% Profile, +/- .15% Surface
Power Requirements	120V or 240V AC, 50/60 Hz, 10 Amp
Weight	250 lbs/113 kg



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