

# MODEL 16VS VERTICAL BEAM

With its dynamic head optical system this is the first of its kind manufactured in the USA. This new system allows a much greater stage capacity of up to 250 pounds, with optional measurement range up to 16" x 8", making it the largest capacity benchtop measuring instrument in the world.

## FEATURES:

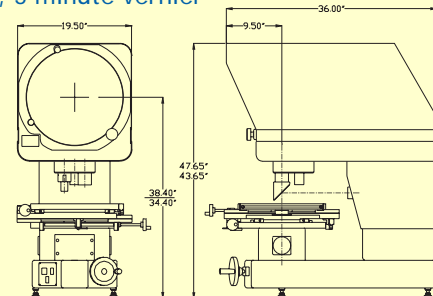
- 16"(400mm) Diameter vertical screen for optimum viewing
- High resolution ground glass screen with calibration reticle, 90 degree cross lines and chart clips
- Output for electronic rotary screen protractor with selectable 1 minute or 1/100 of a degree resolution
- Machined chart ring with vernier protractor
- High specification table (Part # 8x4MN-1)
  - 125 lbs. Standard stage capacity
  - 15" x 10.5" Overall size
  - 7" x 4.5" Glass insert
  - 8" x 4" Travel
  - 4" Focus from dynamic optical head
  - Crossed roller bearings on all measuring axes
- Quartz halogen light source. Fan cooled and electronically dimmed for long lamp life
- Dynamic optical head to maintain constant mass accuracy
- Built in rotary lens & condenser turrets
- Diascopic surface illumination is standard
- Optional coaxial surface illumination
- Multiple stage options with up to 16"x8" of travel
- Welded plate steel case fabrication
- Lens choices of 5X through 100X
- Choice of readout or full CNC computerized systems available
- Internal or external edge detection available
- NIST traceable calibration certificate
- 2 Year limited warranty



## TECHNICAL SPECIFICATIONS

Illumination	Profile: Built-in 24V/150W direct collimated halogen Surface: Built-in 24V/500W via fiber optics (x4)
Screen Size	32" (800mm) Ground glass with cross-lines
Workstage	Cast iron, nickel plated, 36" x 8" triple dovetail
Workstage Travel	X = 18" (460mm) motorized Y = 10" (250mm) motorized Focus = 3" (75mm) manual, optional motorized True parfocal helix rotation = +/- 15 degree, 5 minute vernier
Workstage Options	30"x14" x6" Maximum extended travel
Workstage Accuracy	Within +/- 0.004mm +[(L/20).001]
Linear Scale Resolution	Standard: 0.001mm/.00005" Optional: 0.0005mm/.000020"
Repeatability	+/- 1 Scale count (0.001mm/.00005")
Coated Telecentric Lenses	5x, 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	3950 lbs. / 1800 kg

## DIMENSIONS



Proudly made in the USA