

CONSTRUCTION FEATURES OF OUR MODEL 16H

Focus travel is always "optically coaxial"

Unique design features an intermediate plate that allows the focus axis to travel independently of the X axis

X-axis scale has zero backlash and is mounted directly under focal plane to greatly increase accuracy

Single hand quick release on X-axis

Both profile and surface illumination bulbs are located in lamphouse

True parfocal helix adjustment ± 15 degree with 5-minute vernier

Case fabrication is powder coated, not painted

Y-axis drive is located directly under the center of gravity and uses a composite steel/Delrin bevel gear set for accurate and silent operation

Ultra Precision Cast Iron Stage

Large capacity 10" x 6" travel - 150 lbs stage system

Optional 24" X axis travel

Solid cast iron - no aluminum

Lens is mounted to cast iron, nickel plated stage system - not to sheet metal case

Y-axis scale has zero backlash and is mounted on lens center line to greatly increase accuracy, all scales are dust and oil resistant

Stage is mounted to independent cast granite composite base, not sheet metal case

Solid rail crossed roller bearings in all axes

For improved stability, the weight bearing stage base rests on a rigid cast iron support system

Available with internal edge detection ("IED")

This feature provides automatic edge detection without the viewing obstruction of a plexiglass arm on the screen. The IED target is aligned directly behind the screen center crossline.

- ✔ IED is more accurate because the image is "read directly" and is not diffused through the ground glass screen.
- ✔ IED is also not subject to the stability and rigidity of a plastic arm, our IED sensor cannot be bumped out of alignment under normal use, like the external arm can.

Standard with Machined Chart Ring

Screen is mounted in precision machined chart ring for increased rigidity, optical accuracy, and improved protractor operation

Built in calibration reticle for easy magnification verification by the operator

Machined chart ring with recessed screen protects against damage, eliminates contamination of internal optics, and facilitates the alignment of the screen to the optical axis

High resolution lapped glass screen

Large format vernier protractor with one minute graduations

