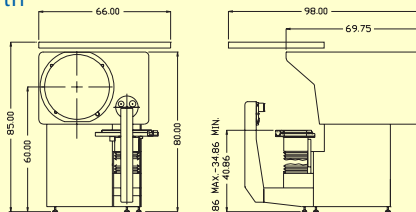


# SPECIAL APPLICATIONS

## MODEL 32SS HORIZONTAL BEAM

### FEATURES:

- 32" (800mm) Vertical screen for optimum viewing of a correct image
- 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, 1 minute graduation
- 3 position rotary lens & condenser turret (6 position optional)
- Coated telecentric parfocal optics
- Nickel plated, completely cast iron workstage
  - Solid crossed roller stage system
  - Twin universal dovetails
  - 36" x 8" Overall size
  - 500 lbs. Capacity
  - 18" X Axis motorized adjustment
  - 10" Y Axis motorized adjustment
  - Joystick control in X and Y Axis
  - ±15 Degree true parfocal helix table adjustment, with 5 minute vernier
- Quartz halogen light source fan cooled and electronically dimmed for long lamp life
- Surface illumination via fiber optic cables
- Floor leveling screws and heavy duty steel casters
- Available with internal edge sensing
- NIST traceable calibration certificate
- 2 Year limited warranty



### TECHNICAL SPECIFICATIONS

#### Illumination

Screen Size  
Workstage  
Workstage Travel

#### Workstage Options

Workstage Accuracy Within +/- 0.004mm +[(L/20).001]  
Linear Scale Resolution

#### Repeatability

Coated Telecentric Lenses  
Optical Accuracy

Power Requirements

Weight

Profile: Built-in 24V/150W direct collimated halogen  
Surface: Built-in 24V/500W via fiber optics (x4)  
32" (800mm) Ground glass with cross-lines  
Cast iron, nickel plated, 36" x 8" triple dovetail  
X = 18" (460mm) motorized  
Y = 10" (250mm) motorized  
Focus = 3" (75mm) motorized  
True parfocal helix rotation =  
+/- 15 degree, 5 minute vernier  
30"x14"x6" Maximum extended travel  
Standard: 0.001mm/.00005"  
+/- 1 Scale count (0.001mm/.00005")  
5x, 10x, 20x, 25x, 31.25x, 50x, 62.5x, 100x  
Within +/- .10% Profile, +/- .15% Surface  
120V or 240V AC, 50/60 Hz, 10 Amp  
5100 lbs. / 2320 kg.



## TOOL INSPECTION/PRESET OPTION

The tool presetter option allows an optical comparator to be used as a presetting device as well as a measurement device. Tools can be inspected for concentricity, insert alignment, damage, wear, surface finish or physical size. This option is available as a dedicated benchtop machine or can be a separate option added to larger machines.

### FEATURES:

- Tool Holder Option for:
  - 16H
  - 24P
- Retro fit option for other manufacturer comparators
- Optional erect and correct image
- Can be adapted to horizontal beam or vertical beam optical comparators
- Digital readout or overlay measurement options
- Tool pot fixtures/adapters are available for CAT 30, 40, 50, BT, KM and Sandvik holders
- Tools can be loaded vertically (as shown above) or can be mounted horizontally to accommodate long tools
- Gravity, manual spring, pneumatic or hydraulic tool locking options
- Tool pot rotates 360 degrees
- Surface illumination and or profile illumination can be used to view parts



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