The New HB400

New HB400 Horizontal Benchtop Optical Projector

The new HB400 provides a vertically correct image on a fully usable 16” (400mm) screen. Now with a distinctive new look, this robust, full-featured and compact horizontal benchtop projector is a clear leader in its class.

Features & Specifications

• Available with a choice of a MetLogix M2 (as shown) or several Quadra-Chek control systems
• Distinctive new styling
• Fully usable 16” (400mm) screen diameter
• Large measuring travel: 12” X-axis, 6” Y-axis (300mm x 150mm)
• Exceptionally stable, all metal construction for optimum performance and accuracy
• High precision workstage with 21.25” x 5” top plate, with two machine slots for easy fixturing
• Stage weight capacity: 100 lbs
• Quick action change lens system
• 5x, 20x, 25x, 31.25x and 50x lenses available
• Dual mirror design for vertically correct image
• Digital protractor for accurate angle measurements, 1’ resolution
• ±15° workstage helix adjustment for accurate thread form inspection
• Fine adjustment on all axes, plus zero backlash, fast traverse mechanism on the X-axis
• Fully retractable fiber optic surface illumination with heavy-duty shielding
• Automatic edge detection option
• Motorized and CNC workstage options
• Optional OV2 quick change video camera with up to 200x magnification text

Above: A 5x lens is now available on a standard HB400 system

Shown with MetLogix M2 touchscreen control on a tablet PC (left) Quadra-Chek readouts (above) are also available
M2 Touchscreen Control

M2 Readout for Optical Systems

Metlogix M2 control software provides a broad range of powerful, user-friendly functions on a compact, icon based touchscreen interface in place of the traditional control.

A Starrett optical projector with an M2 display offers a state of the art measurement system that is powerful, intuitive and exceptionally accurate.

Features & Specifications

- Clean and simple touchscreen interface with large icon buttons and intuitive operation
- Graphics rich display providing instant information on feature form, tolerances, and measurement data
- Coordinate display for X and Y linear axes and Q radius values for screen rotation
- Easy part alignment and datum functions
- Measure and tolerance these geometric features: point, line, angle, distance, radius, diameter
- As you measure, a part view is created in the feature view. Constructions between features such as distances and bolt hole pattern can been done by simple selections from the part view
- For repetitive part measurement, create a part program that will visually guide operators through part measurement
- Available optical edge detection provides better throughput and removes operator subjectivity
- Four different report forms that can be printed or exported to Excel, text files or to an SPC program
- M2 mounts and displays in either vertical or horizontal position
- Windows 7-based operating system enables flexible data export and interface capability with Windows® applications and enables fast, easy connection to printers and networks