Baty Vision Systems - Venture 3D CNC

Venture CNC models take the power of Fusion software one stage further by completely automating the inspection process. Now advanced features like scanning and best fitting can be done quickly without taking up the time of skilled operators.
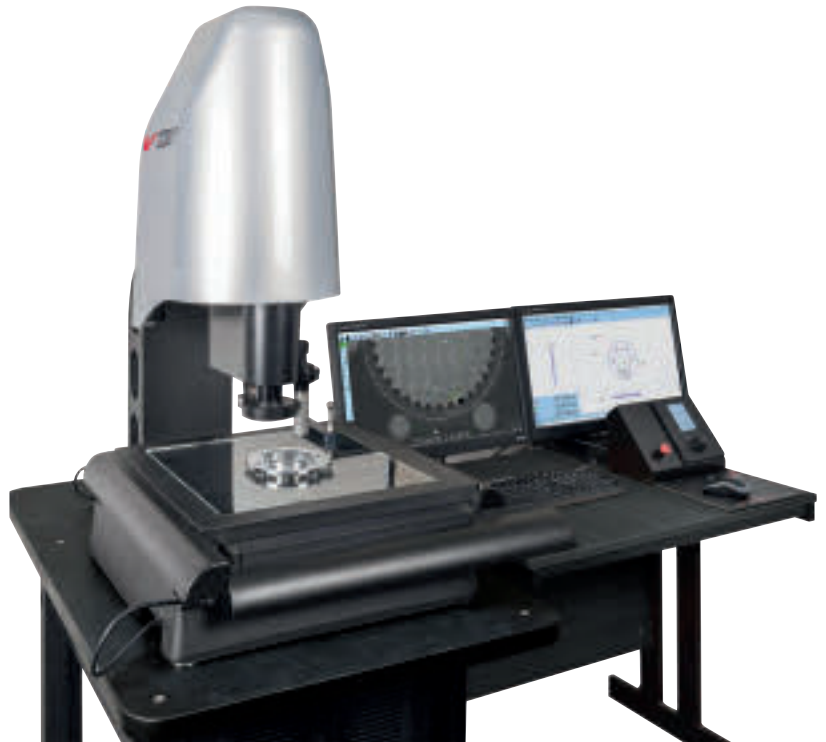
CNC programming is a simple teach and repeat process. Just measure the part once and a full CNC program is created automatically. The zoom lens can also be controlled so that magnification changes are all recorded into the program.

Large Measurement Volume

The use of a touch probe is optimised on a CNC system. Measurements from data points taken using the touch probe can be combined with those taken using Video Edge Detection for optimum speed and reduced inspection times.

A probe changer rack can be installed so that probe modules fitted with a variety of pre-calibrated styli can also be used in the same inspection. When a change of stylus is required, the system automatically puts the current probe module back in the rack and picks up the next to continue the inspection process.

When programming using the touch probe, use only the minimum points required to define each element. Then simply edit in the optimum number of points for each element. The new probe path is then automatically created when the program is played, cutting down both programming and inspection time. Alternatively, features can be programmed directly from an imported 3D CAD model.

Standard CNC system features include:

• Teach and repeat programming
• Programmable segmented LED lighting
• 6.5:1 zoom optics (with optional CNC control)
• Optional 12x zoom optics
• High resolution 0.5µm scales for increased accuracy
• CAD import / export
• Scanning and best fitting
• Fully dimensioned part view
• SPC included
• One click output to Excel™
• Autofocus
• 160mm or 200mm Z axis measuring range on adjustable dovetail slide
• 250mm x 125mm and 300mm x 300mm XY stages available
• Auto 2D program from CAD

Baty's programmable segmented LED lighting

VENTURE AB3-V-CNC

Code No	Description
AB3-V-CNC	Venture CNC with Fusion 3D software, 250mm x 125mm x 155mm XYZ stage, incl. PC and 2 x 19" Monitors
Venture XT - CNC	Venture CNC with Fusion 3D software, 300mm x 300mm x 200mm XYZ stage, incl. Controller and 2x19" monitors
CAL-MAG-2	Glass calibration artefact
TP-20 Kit	Touch probe kit incl ref ball, module and stylus

For more information optical@bowersgroup.co.uk