

## Model 560 Video Tool Analyzer



The **Model 560 Video** permits rapid, precise inspection of all tool geometry characteristics in new tool manufacturing as well as tool regrind. The system uses a series of lenses and a digital camera. The image of the tool being analyzed is displayed onto a video monitor. A Windows® compatible software analysis program is displayed on the monitor where the tool analysis is conducted.

### Monitor

Viewable Size 17" Flat Panel  
Resolution 1280 x 1024

### Computer

Operating system: Windows®.  
Input device: Keyboard, Mouse and Digital Micrometers

### Lighting

Standard: Halogen lamp 24V/20W and Fiber optic ring light  
Optional: Fiber optic gooseneck light and light source

**Power Input:** 110V 6A

### Real – Time Color Image Acquisition, Storage and Retrieval

- Video image storage and retrieval. Images may be saved in BMP, TIF, JPG and TGA file formats.
- Image directory for easy retrieval.
- Overlay of text and graphics on still images.

### Image Analysis and Measurement

- Create and save calibrations for multiple optic setups.
- Import DXF CAD file overlays.
- X Y scales and readout (optional).
- Input measurements from a external device (micrometer) to the measurement report
- Measurement capabilities.
  - Length, X – Y
  - Diameter
  - Radius
  - Area
  - Angle
  - Horizontal and Vertical
  - Arbitrary line width
  - Automatic circle and angle

### Still Image Enhancement Features

- Unlimited zoom
- Color correction
- Edge map
- Noise removal
- Blur
- Correct for uneven illumination
- Sharpen

- Smooth
- Brightness
- Contrast enhancement
- Edge detection

### Presentation of Analysis of Results

- Split screen comparisons of still images.
- Display of comparison images – either side-by-side or top/bottom.
- Integrated ability to print images on the system printer.
- Create inspection and measurement reports
- Measurement statistics
  - Number of measurements in the sample.
  - Minimum & maximum values in the sample.
  - Mean (i.e. average) of the sample.
  - Standard deviation and variance of the sample.
  - Median value of the sample.
  - Cp and Cpk process capability index.

### Annotate Image Feature with Live Video Overlay

Overlay of graphics and text information is a powerful feature that lets the user annotate items of interest in the image. The Model 560 Video Tool Analyzer provides you with the ability to overlay lines, circles, boxes, arrows, text, and horizontal and vertical scales. These graphic objects can be positioned on the image. All overlay objects that are created for an image, may be saved with it.

### Share Information

- E-Mail annotated images to colleagues, vendors, or customers.
- Save measurement results to file.
- Export annotated images to disk for use in other programs.
- Integrated ability to print images on the system printer.

### Magnification and Field of View with Digital Camera 17" Flat Screen

#### 12X Zoom and .5X Auxiliary Lens

Zoom	Mag	Resolution	Field of View
Low	13.8	.0007	.820 X .630
High	166.7	.0001	.067 X .052

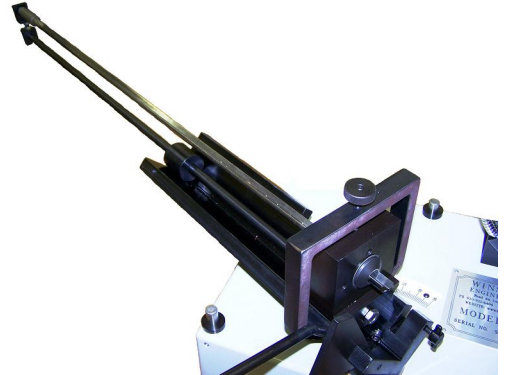
#### 12X Zoom

Zoom	Mag	Resolution	Field of View
Low	27.62	.0004	.405 X .310
High	333.4	.0001	.034 X .026

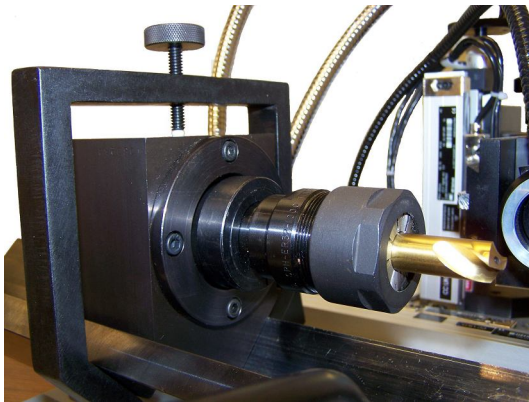
**560 VIDEO TOOL ANALYZER ACCESSORIES**



**CENTER ASSEMBLY**  
Tool Capacity up to 8 inches long



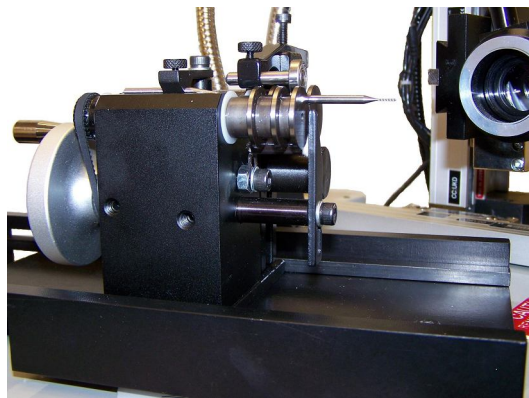
**GUN DRILL FIXTURE**



**COLLET CHUCK ASSEMBLY**  
Tool Capacity 5/64" to 25/32" (2.0mm – 20mm)



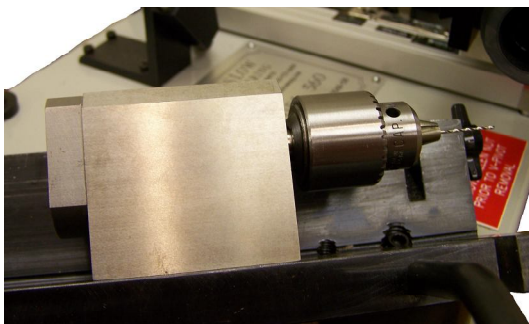
**ROTARY "B" AXIS**



**SMALL TOOL INSPECTION ASSEMBLY**  
Tool Capacity up to 1/4" (can go to 1 1/2" but not recommended)



Dual monitors for viewing image full screen and second monitor for menus



**SMALL TOOL CHUCK ASSEMBLY**  
Tool Capacity 1/32" to 1/4"



**Stage Micrometer**