Winslow Engineering Inc.

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New Model 560S Video Tool Analyzer

The **Model 560S 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. The **new base** features more camera travel (16" X axis and 6" Y axis) allowing inspection of larger tools or parts on the video unit. It measures 12.00" x 11.25".

Monitor
Viewable Size	17" Flat Panel
Resolution	1280 x 1024

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

Lighting
Standard: Fiber optic ring light and fiber optic gooseneck light and two light sources

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 Features
- Edge detection
- Sharpen
- Unlimited zoom
- Brightness and Contrast enhancement

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 560S 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.

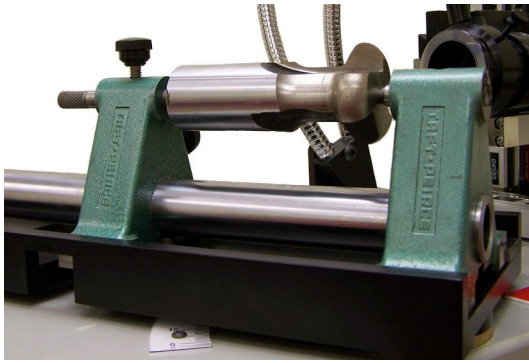### Magnification and Field of View with Digital Camera 17" Flat Screen

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

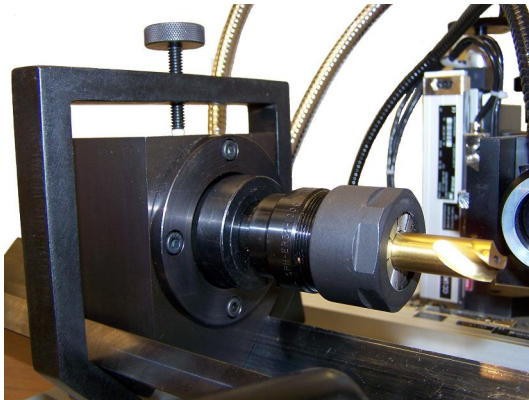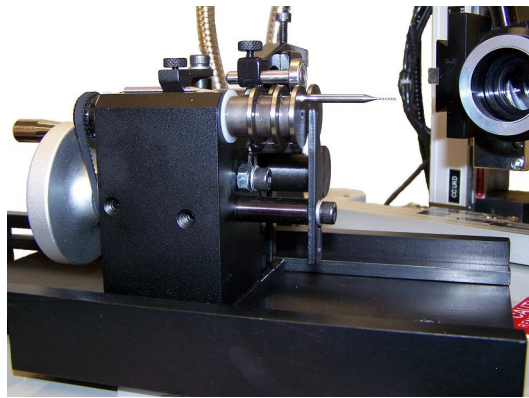| Zoom	Mag	Resolution	Field of View
Low	27.62	.0004	.405 X .310
High	333.4	.0001	.034 X .026

560S VIDEO TOOL ANALYZER ACCESSORIES

CENTER ASSEMBLY
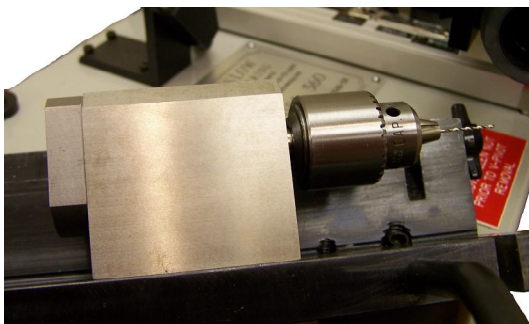Tool Capacity up to 12" inches long
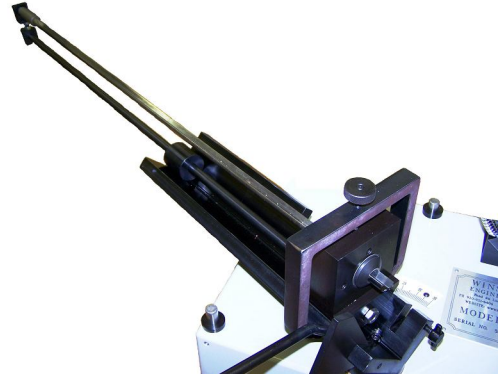
GUN DRILL FIXTURE

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

ROTARY "B" AXIS

SMALL TOOL INSPECTION ASSEMBLY
Tool Capacity up to ¼" (can go to 1 ½" but not recommended)

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

SMALL TOOL CHUCK ASSEMBLY
Tool Capacity 1/32" to ¼"

Stage Micrometer