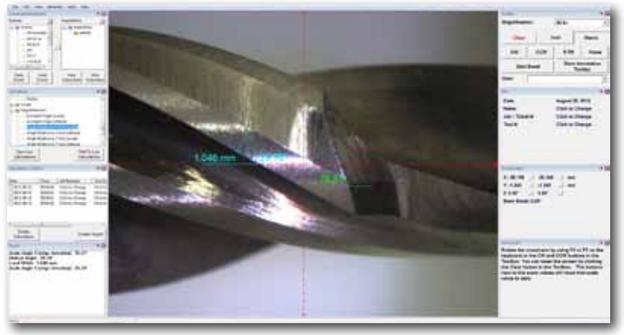
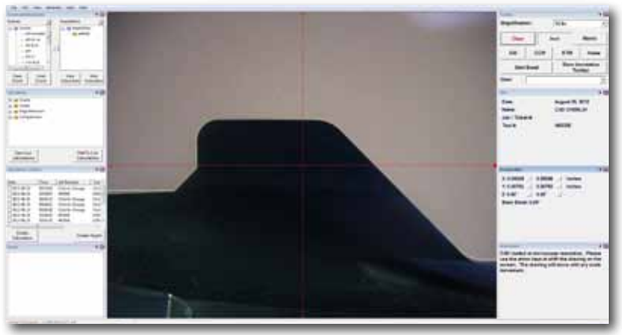
tool inspection report ▶



▲tool inpection using edge detection

▼.dxf file overlay



gage calibration report ◀

400-Advanced REACTION *SYSTEM*

▼ *HARDWARE SPECIFICATIONS:*

Microscope:	*00484-1A 12X optical system
Magnification:	12.5x, 20x, 30x, 40x, 50x, 60x, 70x, 80x, 90x, 110x, 120x, 125x, 130x, and 145x, 212.5x
Field of View:	12.5x = 25 mm, 20x = 16.7 mm, 30x = 11.6 mm, 40x = 8 mm, 50x = 6.6 mm, 60x = 5.4 mm, 70x = 4.55 mm, 80x = 4.0 mm, 90x =3.5 mm, 110 = 3.0 mm, 120x = 2.8 mm, 125X = 2.6 mm, 130x = 2.5 mm, 145x = 2.3 mm
Camera:	*1.3 mega pixel ½" format USB CCD color camera
Computer:	*Dell mini-tower or desk top, i3 or higher quad core processor 3 GB RAM 250 GB hard drive. Digital DVI video interface
Monitor:	20" to 22" Flat panel wide screen
Operating System:	*Windows 7, 32 or 64 bit
Scales:	*Fagor
Light:	Variable Intensity LED work light
Language:	[3]English
Software:	All software documentation is electronic and available for download from the PG1000 web site **www.pg1000.com**
Screen Resolutions:	Low = .020 mm (.00078") High = .0017 mm (.00012")
Repeatability:	.005 mm (.0002")
Warranty:	1 year on all parts supplied by Euro-Tech at the time of purchase as an upgrade or full system
General Information:	Dimensions: 24" wide x 19" deep x 18" high Weight: 140 lbs Power: 110 volts default; 220 optional

*Euro Tech reserves the right to change microscope, digital readout, scale manufacturers and camera Manufacturers, computer manufacturers, operating systems and computer components as needed

[1]**REA**ltime **C**utting **T**ool **I**nspecti**ON**

[2]Optional magnifications available at the time of order

[3]Additional operating system languages to be available after introduction of REACTION Software

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www.eurotechcorp.com
or email
pg1000@eurotechcorp.com

Package Includes Hardware, Software & Computer

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Menomonee Falls, WI 53051
PH: 262.781.6777
FAX: 262.781.2822

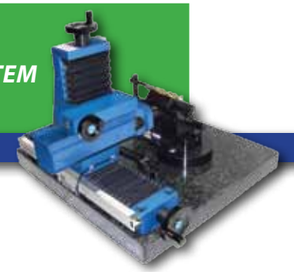
400-Advanced REACTION *SYSTEM*

COMPARE THE FEATURES:

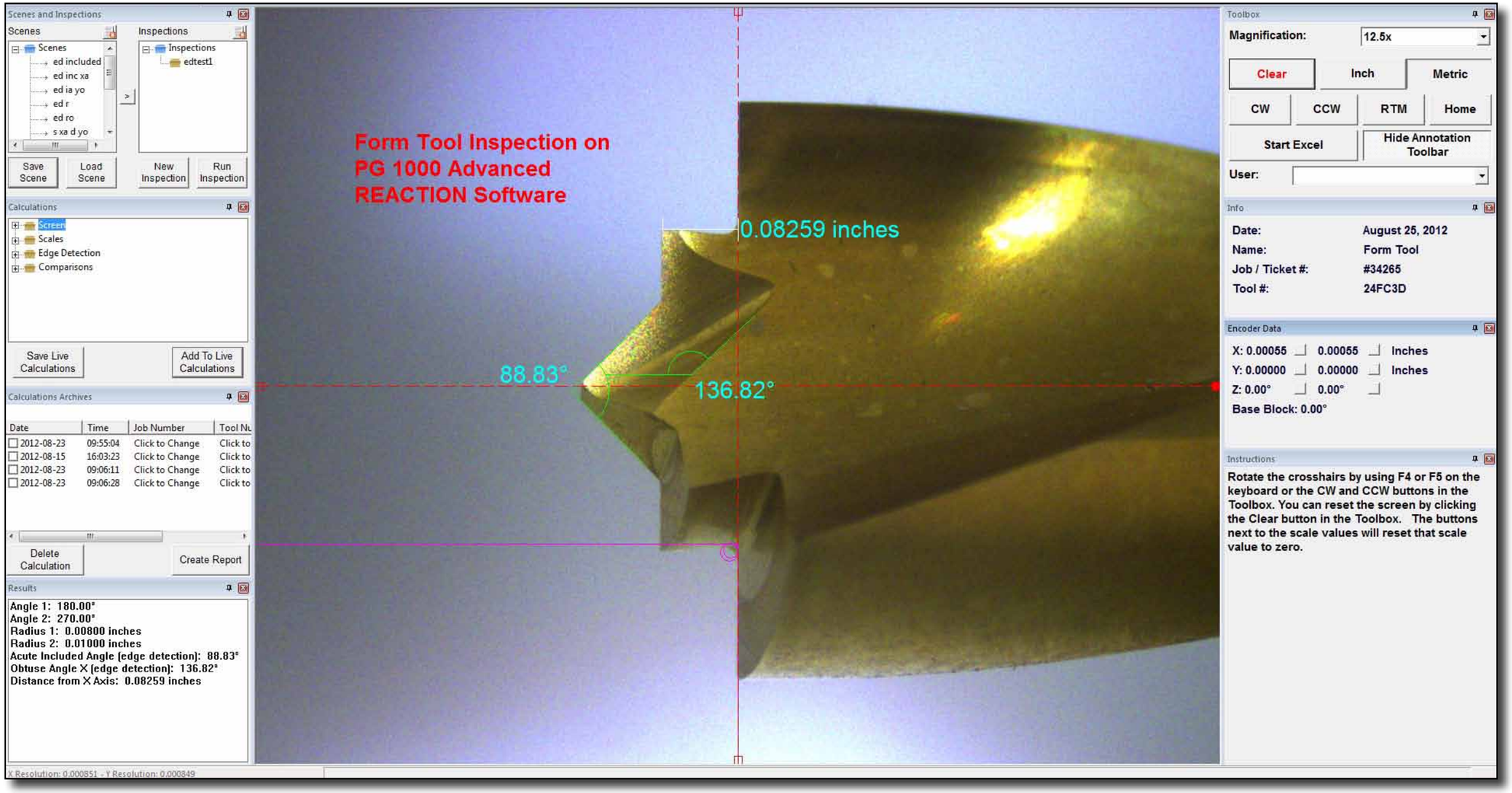
- Advanced **REACTION**[1] Software
- 1.3 Mega Pixel USB CCD camera
- Low light imaging requires minimum light and reduces hot spots
- 12x Microscope, magnifications from 12.5X to 145X
- Do multiple screen scale, edge detection and comparisons in different colors over a single image
- Magnifications automatically synchronized to PC
- Base block and focus encoder
- Focus indication
- User Macros
- CAD overlay software synchronized to scale movement
- Automatic screen calibration with magnification change stabilization
- Segmented scale calibration
- Euro-Tech PGEB6 6 Channel USB Encoder Interface
- Free upgrade software downloads as hardware permits

[1]**REA**ltime **C**utting **T**ool **I**nspecti**ON**

400-Advanced REACTION *SYSTEM*



ADVANCE REACTION[1] SOFTWARE



[1]**REA**ltime **C**utting **T**ool Inspecti**ON**

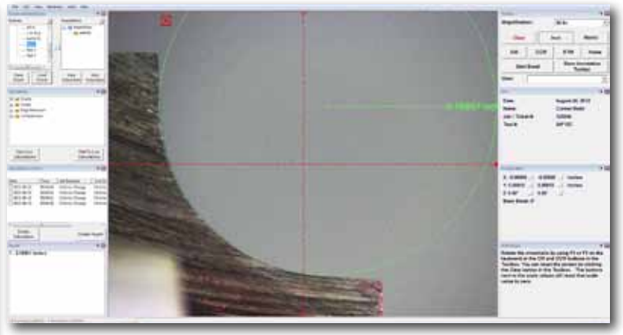
Shown at 1920 x 1080 Resolution;1680 x 1050 Minimum Resolution

SOFTWARE SPECIFICATIONS

Software language*:	English, German
Screen display:	Date, tool number and name input by operator, electronic crosshair (Z-axis), slide positions "X" horizontal and "Y" vertical, inch/metric display, menu bar, tool bar, status bar, note pad, Windows "Help" file
Software features*:	
Toolbox:	Control the most frequently used inspection functions on the desktop with the click of your mouse
Info:	Displays the date, enter the tool or operator name, job or ticket number and tool number for future reference use
Encoder Data:	Displays primary and secondary positions of "X" and "Y" axis, crosshair rotation, base block position (Advance systems only)
Instructions:	Text instructions on how functions work, video demos are available for all calculations by right mouse clicking the calculation you choose
Scenes and Inspections:	Save all calculations on the screen image or scene, put multiple scenes together to make a tool inspection
Calculations:	Choose a calculation method to make your inspection or inspections on a scene, use multiple calculations in different colors, save the scene for reuse in scenes or inspections
Calculation Archives:	Save your calculations to create tool inspection reports for documentation
Results:	See the results of all your screen calculations, transfer them to your own Excel spread sheets
	Network compatible.
	Supports ISO

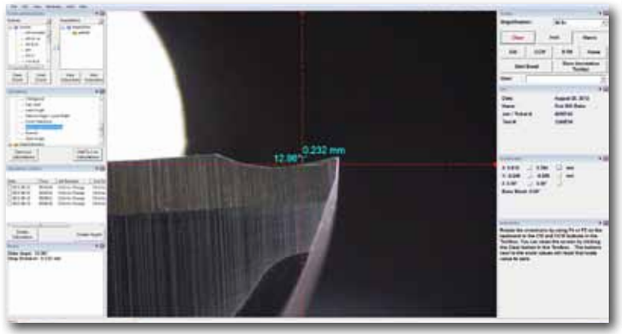
*Euro Tech reserves the right to change microscope, digital readout, scale manufacturers and camera Manufacturers, computer manufacturers, operating systems and computer components as needed

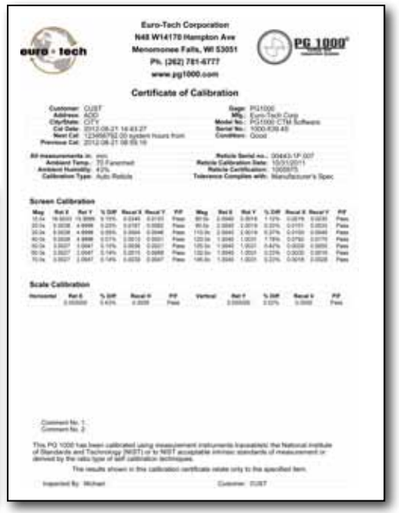
tool inspection report ▶



▲ radii Inspection using edge detection

rake angle inspection using scales ▼





◀ gage calibration report

200-Basic REACTION *SYSTEM*

HARDWARE SPECIFICATIONS:

Microscope:	*00464-1A 6X optical system
Magnification:	15x, 20x, 30x, 40x, 55x, 75x, 95x[2]
Field of view:	15x = 22 mm, 20x = 16.5 mm, 30x = 11.0 mm, 40x = 8 mm, 55x = 6.5 mm, 75x = 4.2 mm, 95x =3.5 mm
Camera:	*1.3 mega pixel ½" format USB CCD color camera
Computer:	*Dell mini-tower or desk top, i3 or higher quad core processor 3 GB RAM 250 GB hard drive. Digital DVI video interface
Operating System:	*Windows 7, 32 or 64 bit
Scales:	*Fagor
Light:	Variable Intensity LED work light
Language:	English[3]
Software:	All software documentation is electronic and available for download from the PG1000 web site www.pg1000.com
Screen Resolutions	Low = .020 mm (.00078") High = .0017 mm (.000078")
Repeatability:	.010 mm (.0008")
General Information:	Dimensions: 24" wide x 19" deep x 18" high Weight: 140 lbs Power: 110 volts default; 220 optional

*Euro Tech reserves the right to change microscope, digital readout, scale manufacturers and camera Manufacturers, computer manufacturers, operating systems and computer components as needed

[1]**REA**ltime **C**utting **T**ool **I**nspecti**ON**

[2]Optional magnifications available at the time of order

[3]Additional operating system languages to be available after introduction of REACTION Software

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Package Includes Hardware, Software & Computer

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PH: 262.781.6777
FAX: 262.781.2822

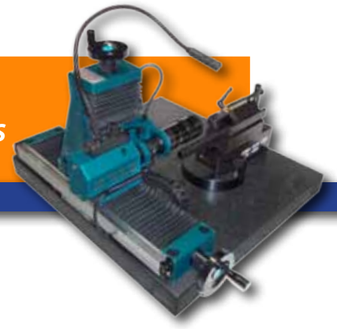
200-Basic REACTION *SERIES*

COMPARE THE FEATURES:

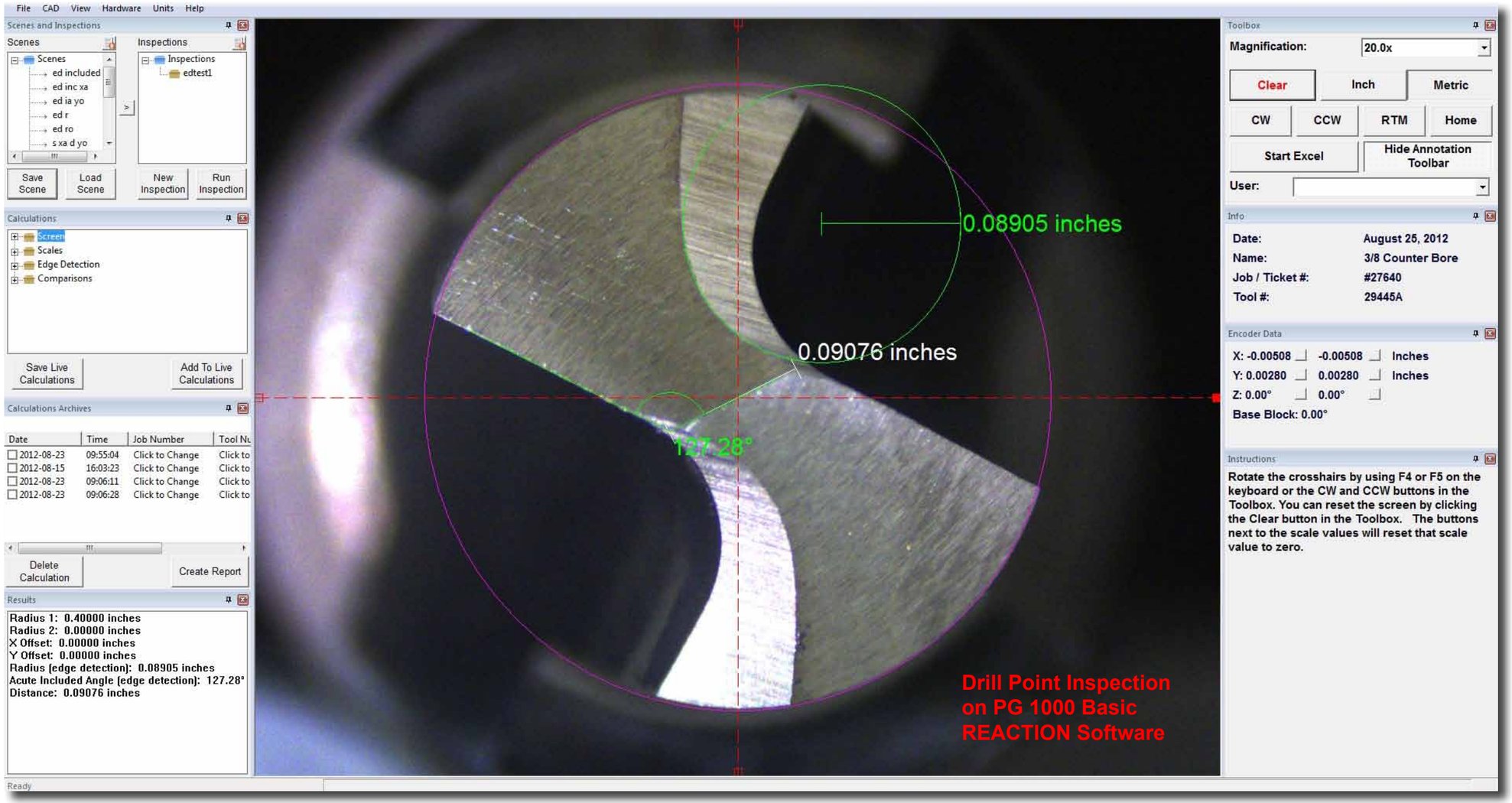
- Basic **REACTION**[1] Software
- 1.3 Mega Pixel USB CCD camera
- Low light imaging requires minimum light and reduces hot spots
- 6X Microscope, magnifications from 15X to 95X
- Focus indication for edge detection calculation
- CAD overlay software
- Automatic screen calibration
- Segmented scale calibration
- Euro-Tech PGEB6 6 channel USB Encoder Interface
- Free upgrade software downloads as hardware permits

[1]**REA**ltime **C**utting **T**ool **I**nspecti**ON**

200-Basic REACTION *SERIES*



BASIC REACTION[1] SOFTWARE



[1]**REA**ltime **C**utting **T**ool **I**nspecti**ON**

Shown at 1920 x 1080 Resolution;1680 x 1050 Minimum Resolution

SOFTWARE SPECIFICATIONS

Software language*:	English, German
Screen display:	Date, tool number and name input by operator, electronic crosshair (Z-axis), slide positions "X" horizontal and "Y" vertical, inch/metric display, menu bar, tool bar, status bar, note pad, Windows "Help" file
Software features*:	
Toolbox:	Control the most frequently used inspection functions on the desktop with the click of your mouse
Info:	Displays the date, enter the tool or operator name, job or ticket number and tool number for future reference use
Encoder Data:	Displays primary and secondary positions of "X" and "Y" axis, crosshair rotation, base block position (Advance systems only)
Instructions:	Text instructions on how functions work, video demos are available for all calculations by right mouse clicking the calculation you choose
Scenes and Inspections:	Save all calculations on the screen image or scene, put multiple scenes together to make a tool inspection
Calculations:	Choose a calculation method to make your inspection or inspections on a scene, use multiple calculations in different colors, save the scene for reuse in scenes or inspections
Calculation Archives:	Save your calculations to create tool inspection reports for documentation
Results:	See the results of all your screen calculations, transfer them to your own Excel spread sheets
	Network compatibe
	Supports ISO

*Euro-Tech reserves the right to change microscope, digital readout, scale manufacturers and camera Manufacturers, computer manufacturers, operating system computer components and software as needed

PG 1000 Cutting Tool Inspection Systems

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for more information
visit
www.pg1000.com
www.eurotechcorp.com

Package Includes Hardware, Digital Readout and Linear Scales

Model 1000-200-E

COMPARE THE FEATURES:

- Competitive cost
- Robust, shop floor durable
- High quality Swiss Centering microscope with protractor for angle measurement
- Image viewed under magnification as corrected image
- 10x and 25x standard magnification; 5x, 50x and 100x optional
- Uses same base and slides as software system
- Can be upgraded to basic software system
- Designed exclusively for cutting tool inspection
- Large selection of workholding accessories.

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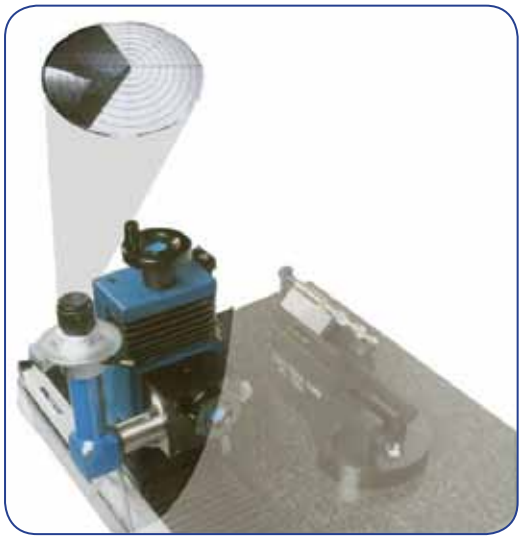

Model 1000-200-E

Microscope Specifications:

Microscope:	*Isoma 157 Centering microscope with protractor for angle measurement.
Measurement range:	360 degrees
Accuracy:	10’
Magnification:	10x and 25x standard (Optional 5x, 50x and 100x)
Field of view:	10x lens 15 mm (.590”) 25x lens 6 mm (.236”)
Scales:	*Fagor
Digital Readout:	* Fagor Innova 20iM DRO
Features:	Inch/mm conversion, presets and memory
Resolution:	.00005” standard (.000010” Optional)
Voltage:	110/V, 60 Hz 220/V, 50 Hz (Optional)

Optional Readout

Manufacturer:	* Fagor Innova 30iM DRO
Features:	Centerline locator, presets, memory, metrology functions. RS 232 output for SPC data collector. Serial output for a printer
Resolution:	.00005”standard (.000010” Optional)
Voltage:	110/V, 60 Hz 220/V, 50 Hz (Optional)

Product Information:

Base Hardware	See Euro-Tech web site www.pg1000.com or PG 1000 brochure for construction details.
Warranty:	1 year on all parts supplied by Euro-Tech at the time of purchase as an upgrade or full system
Calibration:	Euro-Tech recommends the purchase of calibration part #1000-570 for monitor screen and scale calibration. This reticle can be rented from Euro-Tech for $200 per week. See Euro-Tech web site for complete details and rental form.

* Euro-Tech reserves the right to change microscope, digital readout and scale manufacturers, camera manufacturers, computer manufacturers, operating systems and computer components as needed.

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PG 102

FEATURES:

Tool diameter range .078" through 1.562"

- Applications
  - Cutting edge height
  - Index accuracy
  - Web concentricity (Requires accessory kit)
  - Step concentricity (Requires accessory kit)
- Application
  - Standard twist drills
  - 3 or 4 flute drills
  - Right or left hand drills
- Construction
  - Roller bearing supported cutting edge tester with carbide insert and indicator
  - Carbide tipped end stop
  - Five (5) interchangeable fully ground V-Blocks to accommodate both large and small diameter drills
  - Indicator measuring stand with positioning arms and clamps (optional)
  - Stepped cutting edge stop (optional)

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PG 1000 Cutting Tool Inspection Systems

PG 102

PG 1000 Cutting Tool Inspection Systems

Custom Fixtures Available

Just a few of the toolholding devices designed for cutting tool inspection

LIST OF ACCESSORIES

Part No.	Description
1000-580	Back Light
1000-545	Ball Bushing Chuck
1000-542	Ball Bushing Chuck
1000-540	Ball Bushing Chuck
1000-625	Collet Chuck
1000-055	Fiber Optic Light
1000-570	Concentricity Fixture
1000-575	Calibration Fixture

Continued on Back Page ▸

PG 1000
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PG Accessories

1000-580

1000-055

1000-540

1000-570

1000-625

1000-575

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PG Accessories cont.

1000-026-2

1000-257

1000-515

1000-590

1000-500

1000-501

1000-650

1000-510

LIST OF ACCESSORIES Cont.

Part No.	Description
1000-026-2	10″V-block
1000-257	Mini V-block
1000-590	Base Block with Encoder
1000-650	Gun Drill Fixture
1000-515	Light Diffuser
1000-500	Large Centers Fixture
1000-501	Mini Center Fixture
1000-510	ISO 50 Taper Adjuster

PG 1000 Cutting Tool Inspection Systems

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