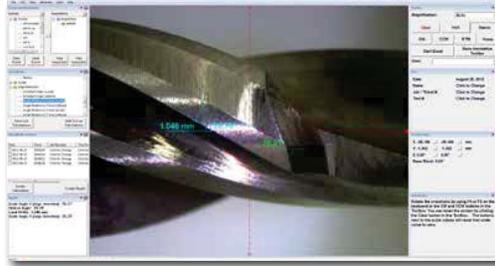
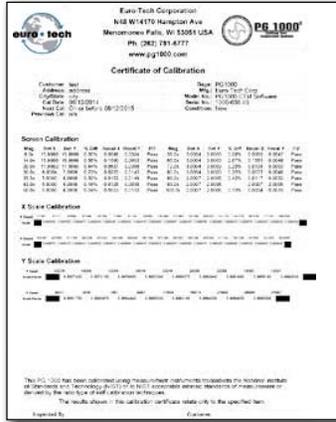


tool inspection report



radii inspection using edge detection



gauge calibration report

.dxf file overlay



## 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<sup>2</sup>  
 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 1/2" 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", 1920 x 1080 resolution flat panel

Operating System: \*Windows 7, 32 or 64 bit  
 Scales: \*Fagor  
 Light: Variable Intensity LED work light  
 Language: <sup>3</sup>English  
 Software: All software documentation is electronic and available for download from the PG1000 web site [www.pg1000.com](http://www.pg1000.com)  
 Screen Resolutions: Low = .020 mm (.00078")  
 High = .0017 mm (.000078")  
 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

<sup>1</sup>REALtime Cutting Tool Inspection

<sup>2</sup>Optional magnifications available at the time of order

<sup>3</sup>Additional operating system languages to be available after introduction of REACTION Software

Euro-Tech Corporation • N48 W14170 Hampton Ave. • Menomonee Falls, WI 53051 • PH: 262.781.6777 • FAX: 262.781.2822



## PG 1000 Cutting Tool Inspection Systems



## 400-Advanced REACTION SYSTEM

### COMPARE THE FEATURES:

- Advanced REACTION<sup>1</sup> 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

<sup>1</sup>REALtime Cutting Tool Inspection



**PG 1000**  
Cutting Tool  
Inspection System

for more information visit  
[www.pg1000.com](http://www.pg1000.com)  
[www.eurotechcorp.com](http://www.eurotechcorp.com)  
 or email  
[pg1000@eurotechcorp.com](mailto:pg1000@eurotechcorp.com)

Package Includes Hardware,  
Software & Computer

Euro-Tech Corporation  
 Menomonee Falls, WI 53051  
 PH: 262.781.6777  
 FAX: 262.781.2822



# 400-Advanced REACTION SYSTEM



## ADVANCE REACTION' SOFTWARE

Calculations Archives

Date	Time	Name	Type
2014-06-25	17:45:16	(none)	Inspection
2014-06-25	17:47:02	(none)	Inspection
2014-06-25	17:58:49	(none)	
2014-06-25	18:06:05	(none)	
2014-06-25	18:36:56	(none)	
2014-06-25	18:45:08	(none)	
2014-06-25	18:47:15	(none)	
2014-06-25	18:48:29	(none)	
2014-07-09	17:34:71	(none)	

Scenes and Inspections

Scenes: User Scenes (testd1)

Inspections: User Inspections (mps)

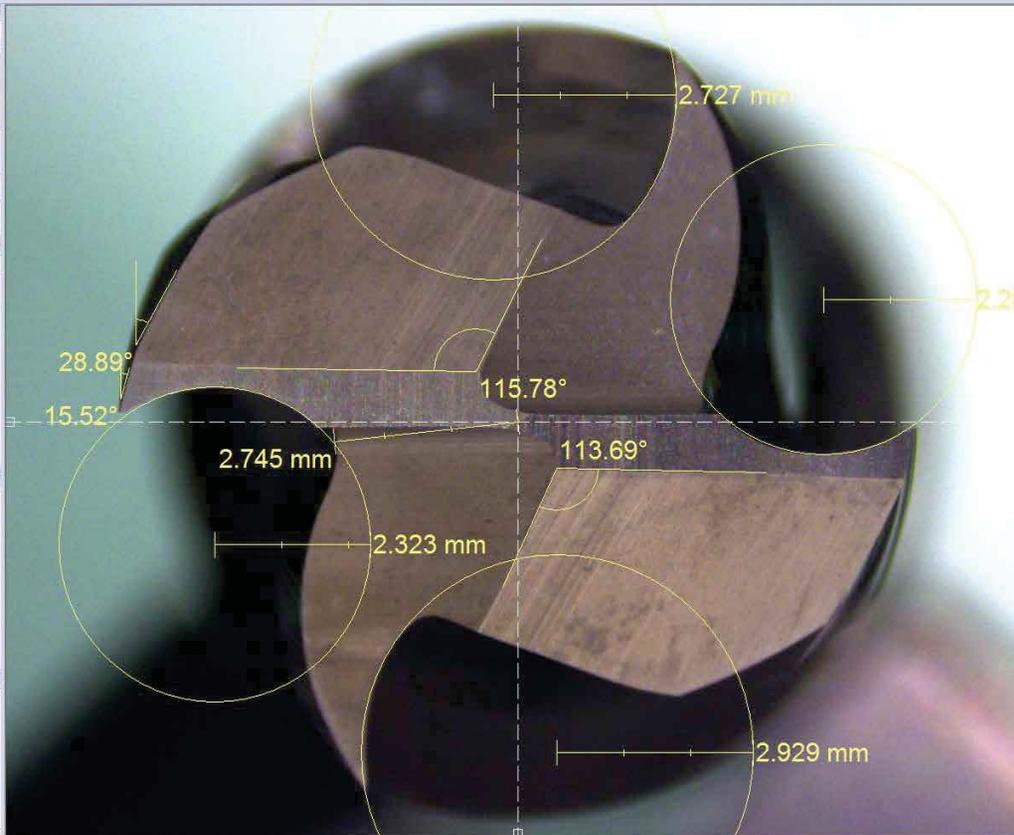
Current Inspection: (none)

Instructions: (none)

Calculations

Results

- Radius (edge detection): 2.323 mm
- Radius (edge detection): 2.285 mm
- Acute Included Angle (edge detection): 113.69°
- Core Diameter: 2.745 mm
- Acute Angle Y (edge detection): 28.89°
- Acute Angle Y (edge detection): 15.52°
- Radius (edge detection): 2.929 mm
- Acute Included Angle (edge detection): 115.78°
- Radius (edge detection): 2.727 mm



Info

Date: August 06, 2014

Name: John Doe

Job / Ticket #: A-1234

Tool #: AB-4567-C

Encoder Data

X: -208.463 mm

Y: -68.561 mm

Z: 0.00°

A: 79.72°

Toolbox

Magnification: 20.0x (1.50)

Buttons: Clear, Inch, MM, CW, CCW, RTM, Home, Load Excel File, Show Annotation Toolbar, Load CTM File, Clear CTM File

Instructions

Use the cursor to draw five boxes along the radius edge of the tool. Refocus the microscope taking the tool out of focus and then back into focus. When the tool is in focus the calculation will appear. Use the number pad + or - key to increase or decrease the radii size by one pixel per pulse. The calculation can be deleted and redrawn by placing the cursor over your inspection; it will become the active inspection. You may delete and restart your inspection by clicking on the Red "X" or click Clear in the Tool Box. Multiple inspections can be made on one scene.

## 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

<sup>1</sup>REALtime Cutting Tool InspectiON

Shown at 1920 x 1080 Resolution

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for more information visit [www.pg1000.com](http://www.pg1000.com)