

PG INSPECTION

TYPES OF CUTTING TOOLS

- Step drills
- Drills

Reamers

• 50+ Preset Calculations/Measurements

TYPES OF

- End mills
- Inserts
- Taps
- Custom tooling
- Screws/bolts
- DiameterComparisons

• Distances

• Radii

Angles

APPLICATIONS

- Quick checks on the shop floor next to CNC grinding machines
- Advanced geometry and visual inspections in the metrology laboratory
- Creating reports for incoming/outgoing quality control
- Scenes and Inspections software feature for testing large quantity tool runs
 - Create inspection macro to control testing process ensuring accurate & repeatable tests

Basic Cutting Tool Inspection System with REACTION Software For tools up to 1.00" (25mm) in diameter

The PG1000-200 is a tool geometry inspection system durable enough for everyday shop floor use and precise enough for a metrology laboratories incoming and outgoing quality inspections. The 5MP camera reproduces and displays high resolution cutting tool images magnified up to 95x on a 4K monitor.

The PG1000-200 systems collect and display data from the horizontal (X), vertical (Y), and crosshair rotation (Z) axis's as well as allow for optional lighting control through the software.

The PG1000-200 REACTION software allows the user to measure tool geometries in multiple ways.

- **Screen:** take measurements by picking points on the monitors screen
- **Scales:** use the X & Y axis handwheels to mark points and take measurements via the scales
- Edge Detection: this popular feature allows the software to detect the tools edges when taking measurements which helps to automate the process and virtually eliminates human error
- **Comparisons:** the software can create comparison geometries for quick referencing (Go/No-Go)
- **DXF/DWG file:** import overlay for tool size comparisons
- **CTM file:** Create and save tool image to use as an overlay for tool alignment and inspections

The PG REACTION software is very user friendly and incorporates on screen prompts, instructions and video demos for each tool calculation. Calculations can be repeated efficiently by recalling previous saved inspection scenes. Annotations/notes can be added alongside measurements.



With the click of an icon the software can export data to an Excel/CSV file or create a customized PDF report with results and user entered tolerances, images, customer details as well as an optional PASS/ FAIL notification.

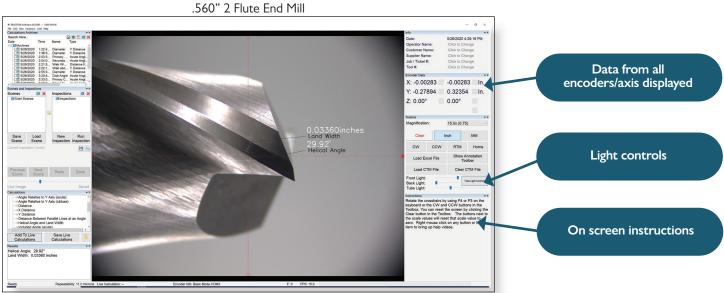
For more information visit: www.pgl000.com

PG1000-200

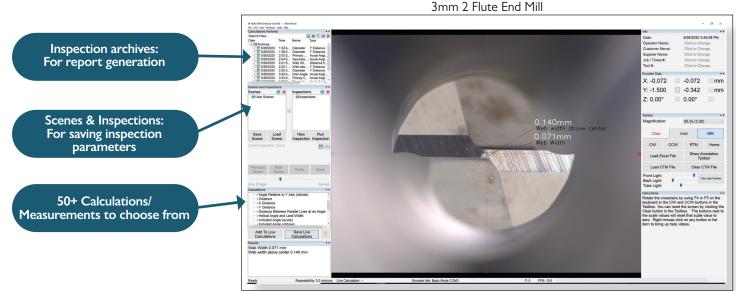
Features:

- Quick measurements taken in less than 30 seconds
- Extremely accurate and repeatable
- User friendly software interface
- Flexibility during inspection inspections done your way
- Live image calculations
- Snap to edges (auto edge detection)
- Edge detection (rotational w/concentricity fixture)
- 50+ calculations/measurements available in software
- Perform multiple calculations over a single image
- Create inspection macro templates
- DXF/DWG overlay software lockable to scale movement
- DXF/DWG data collection

- Tool comparisons
- Customizable PDF inspection reports
- Export results and data as Excel or CSV file
- 270° pivoting base block for tool holding fixtures
- Protractor decal for tool position
- Manual index plunger with 3 fixed locations
- Certified granite base
- \bullet High precision linear bearings for X & Y axis
- Free software upgrades (as hardware permits)
- All units delivered fully calibrated and ready for use
- I year warranty
- MADE IN USA



Helical Angle and Land Width at 15X zoom



Web Width at 55X zoom

Specifications:							
Scope Magnification:		Recommended Tool Size:	Camera:	Computer	r: Monitor:	Operating System:	
15x 30x 20x 40x	x 55x 95x x 75x	0.075 - 1.00'' (1.91 - 25mm) flute up to 7.5''L	5MP color camera	High performa w/ REACTIC software reinst	N	Windows 10 64 bit	
Scales:	Power:	Language:		curacy/ eatability:	Measuring Range:	Dimensions: Weight:	
Fagor Iµ	OVac 60Hz (220Vac optional)	English Gern Spanish Japan Chinese	ese at m		Vertical: 2.75'' (70mm) prizontal: 7.87'' (200mm)	24''×19''×18'' 135lbs	

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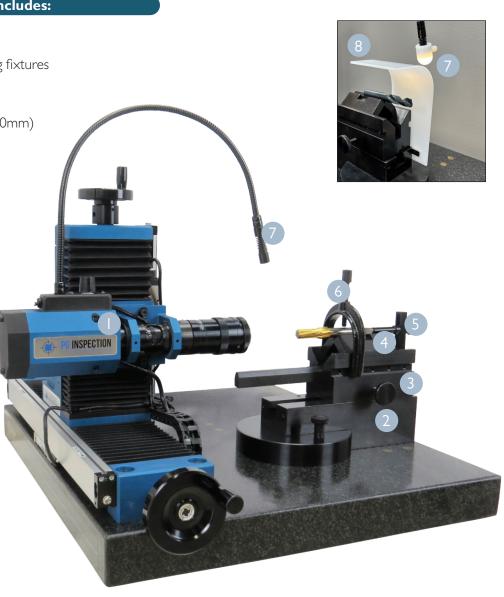
Standard PG1000-200 System Includes:

PG1000-200 gage

Specifications:

- 2 Pivoting base block for tool holding fixtures
- 3 V block, 5'' (127mm)
- 4 V block insert with notch, 3.15'' (80mm)
- 5 Carbide tipped backstop assembly
- 6 Top/tool clamp
- 7 Flexible LED light w/diffuser cap
- 8 Curved magnetic diffuser plate
- 9 High performance PC
- 10 REACTION software
- 1 27'' 4K Ultra HD monitor





PG 1000-200 Common Accessories:



Lighting:

1000-515	Light diffuser tube with adjustable articulating arm	
1000-661-2	LED ring light controlled by PC/software	

1000-662LED back light controlled by PC/software





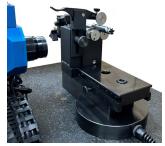
p/n 1000-662

Calibration:

- **1000-443** Standard calibration reticle. For screen calibration and 50mm × 50mm area of scale calibration.
- **1000-645-1** Linear segmented calibration reticle. For screen calibration and the full working area of the microscope: 70mm × 200mm.

Hardware:

- 1000-571 Concentricity fixture with quarter 'zero-style' plain precision rollers, top roller and backstop for small/micro tools. Shank/tool size range: 0.010'' - 1.000''
- 1000-573 Concentricity fixture with quarter plain preci sion rollers, top roller and backstop. Shank/tool size range: 0.125'' - 1.25''





p/n 1000-571

1000-571 rollers



1000-573 rollers

Other Options:						
00087-3P	35Watt UPS/Surge protection device					
03048-01	Custom 48''L × 30''D PG1000 workbench					



p/n 1000-443

p/n 1000-645-1







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