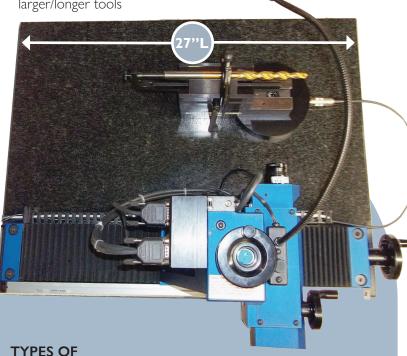


G1000-400

Made in USA





CUTTING TOOLS

- Step drills
- Drills
- Reamers
- End mills
- Inserts
- Taps
- Custom tooling
- Screws/bolts

TYPES OF

MEASUREMENTS

- 50+ Preset Calculations/Measurements
 - Distances
 - Radii
 - Angles
 - Diameter
 - Comparisons

APPLICATIONS

- Quick checks on the shop floor next to CNC grinding
- 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

Optical Cutting Tool Inspection System with REACTION Software

For large diameter and/or long tools

The PG1000-400LT 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 100x on a 4K monitor.

All PG1000-400 systems collect and display data from the horizontal (X), vertical (Y), base block/ tool holder rotational position (A), crosshair rotation (Z), focus (F) and microscope magnification (M) axis's as well as allow for optional lighting control through the software.

The PGI000-400 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

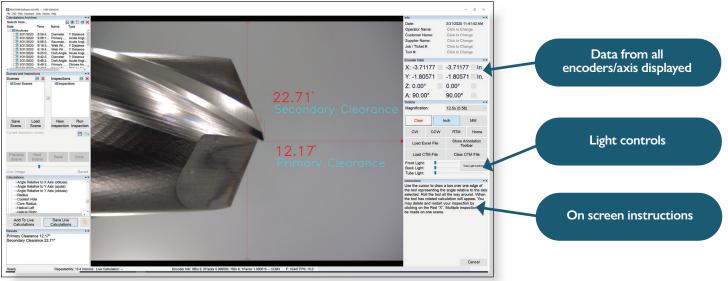
PG1000-400LT

Features:

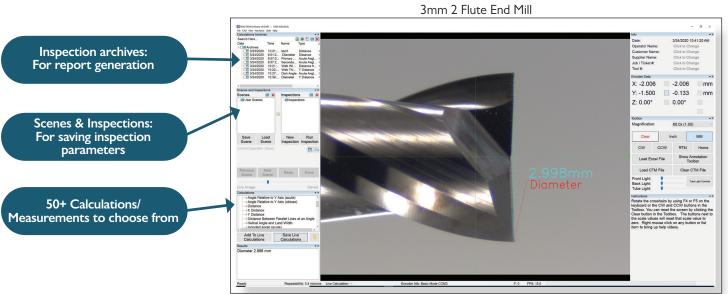
- Quick measurements taken in less than 30 seconds
- Extremely accurate and repeatable
- User friendly software interface
- Flexibility during inspection inspections done your way
- Live image calculations
- Snap to edges (auto edge detection)
- Edge detection (rotational w/concentricity fixture)
- 50+ 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
- Magnifications automatically synchronized to PC
- Center of tool focus indication
- Tool position in degrees displayed in software
- · Certified granite base
- High precision linear bearings for all axis
- 270° pivoting base block for tool holding fixtures
- Free software upgrades (as hardware permits)
- · All units delivered fully calibrated and ready for use
- I year warranty
- MADE IN USA

.625" 2 Flute End Mill



Primary and Secondary Clearance Angle at 14X zoom



Diameter at 65X zoom

Specifications:

Scope Magnification:		Recommended Tool Size:	Camera:	Computer:		Monitor:	Operating System:
8x 36x 14x 43x 20x 50x 30x 58x	72x 100x 80x	0.075 - 5.00'' (1.91 - 125mm) flute up to 13.4''L	5MP color camera	High perf w/ REA software r	CTION	27" 4K Ultra HD	Windows 10 64 bit
Scales: Power:				curacy/ Meas eatability:		uring Range:	Dimensions: Weight:
Fagor Iµ	I I OVac 60Hz (220Vac optional)	English Germ Spanish Japan Chinese	ese at m	002'' (5µ) aximum nification	Vertical: 5.30" (135mm) Horizontal: 13.87" (350mm)		30''x21''x20'' 175lbs

PG1000-400LT System Includes:



PG 1000-400LT Common Accessories:



Lighting:

1000-515 Light diffuser tube with adjustable

articulating arm

LED ring light controlled by PC/software 1000-661-1 1000-662 LED back light controlled by PC/software





p/n 1000-662

Hardware:

1000-209-1 10" V block for long tools 1000-209-2 15" V block for large tools

1000-572 Concentricity fixture with precision rollers, top roller and backstop for large tools.

Shank/tool size range: 0.375" - 2.0"

1000-573 Concentricity fixture with quarter plain preci

sion rollers, top roller and backstop. Shank/tool size range: 0.125" - 1.25"





1000-572 rollers



1000-573 rollers

Calibration:

1000-645-2 Linear segmented calibration reticle for 400LT. For screen calibration and the full working area of the microscope: 135mm x 350mm.



p/n 1000-645-2

Other Options:

00087-3P 35Watt UPS/Surge protection device 03060-01 Custom 60"L x 30"D PG I 000 workbench



