

Introducing

# DrillSpector™

## The Automated Non-Contact Inspection System For Drill Bits and End Mills

(Patent pending)

For many years, the manufacturers of drill bits and end mills have been using comparators to measure the end geometry and other features by using the magnified silhouette of the features with a combination of hand held gages. Since the advent of vision systems using CCD cameras and digitizer boards, many researchers have struggled to use it to measure the features with very limited success. The reasons may vary from the glare on the part to inadequacy of the image processing algorithms to filter out the noise from the images in edge detection. Pacific Precision Laboratories, Inc., has turned the corner by properly applying innovative techniques (patent pending) in lighting, motion control and image processing algorithms to measure the complex geometry of the drill bits and end mills in a fully automated manner using the vision system.

### Why Automated inspection of drill bits and end mills is so critical?

- Improves productivity and quality on the production floor
- Avoids rework and wastage of materials resulting in cost savings
- Automation minimizes human errors in measuring complex geometry
- Automation directly cuts down the inspection time
- Due to increased ROI, it pays for itself in the long run

Non-Contact Automatic 3-Axis  
Vision and Laser Based  
Measurement Systems



