The Fastest, Easiest, Most Accurate Way to Compare a Part to a CAD File™
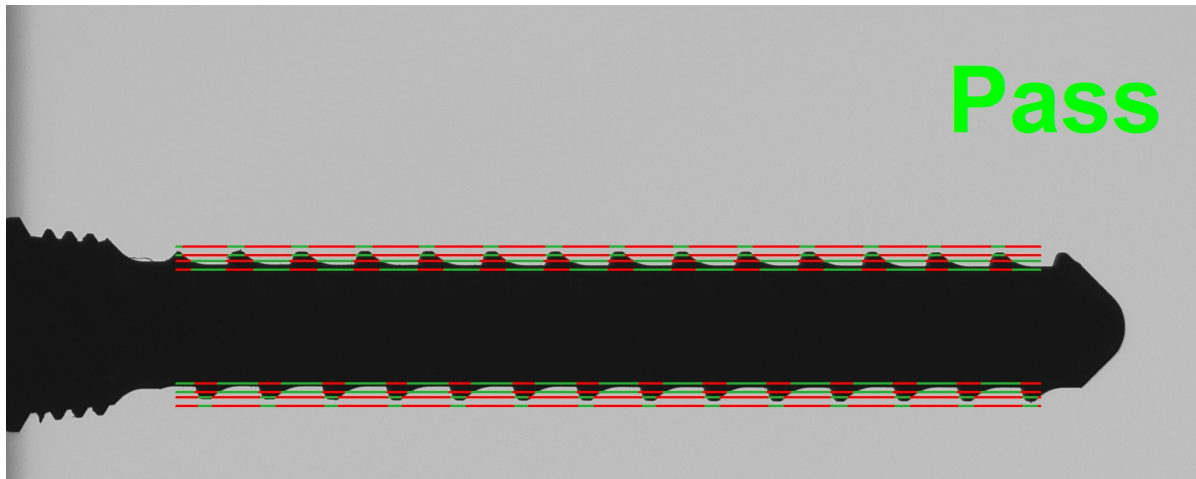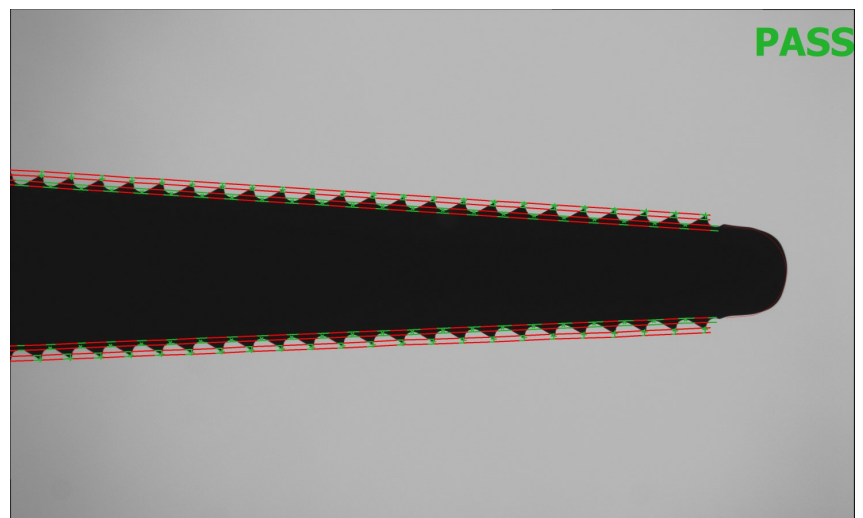
POWERFUL "TOOTH CHECKER™" TOOL!
(Patented and Other Patents Pending)

We're happy to introduce VisionGauge®'s Patented "Tooth Checker™" tool specially adapted to check parts with teeth. This innovative tool automatically locates, to very high accuracy, the crests and / or roots of the teeth and determines if they are within their tolerance band. It can also determine all other part characteristics, such as tooth pitch, thread depth, major & minor diameters, etc…
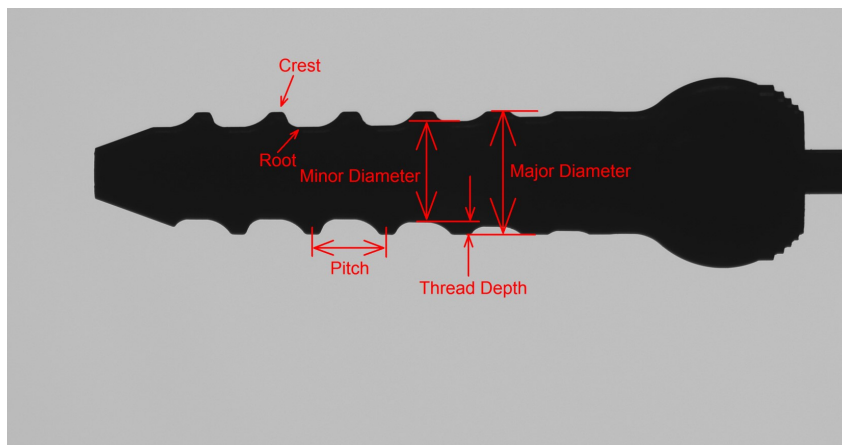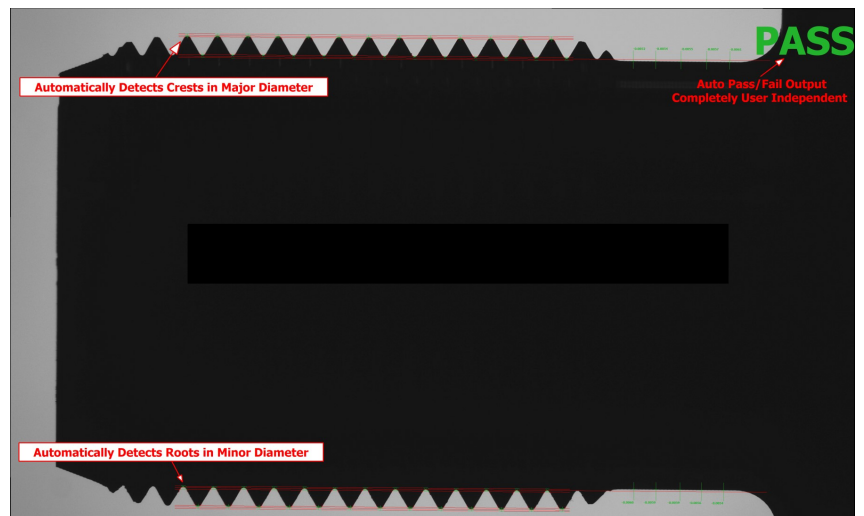

- **Fully automated**

- **Completely independent of part orientation & clocking**

- **with a rotary stage the crest and root points can be used to calculate part runout**

- **Can also be applied to parts that are larger than the field-of-view**

- **The tool is usable in both manual and fully-automated modes (i.e. within an automated program)**

- **The tool produces a PASS / FAIL result (which can be exported and used in all of the same ways as the current PASS / FAIL results) and also shows where the part passes and where it fails**

- **Supports linearly variable tolerances, plus/minus tolerances, plus/plus tolerances, minus/minus tolerances, etc...**

- **Smart "Adaptive Thresholding" automatically disregards point imperfections**

The Tooth Checker tool can check that either crests, roots, or both, are in tolerance
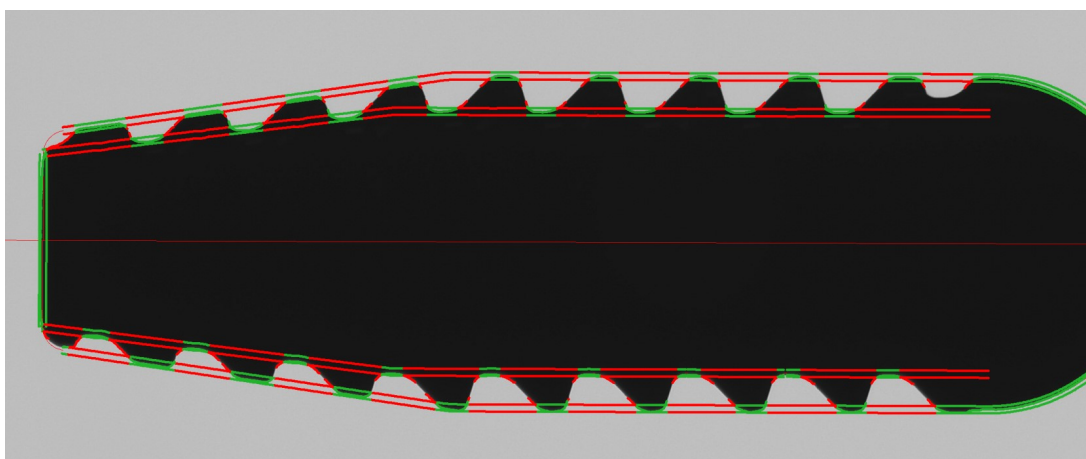
PASS

Automatically Detects Crests in Major Diameter

Auto Pass/Fail Output
Completely User Independent

Automatically Detects Roots in Minor Diameter

Perfect for quickly and accurately checking:

- **Bone screws**
- **Medical rasps**
- **Gears**
- **Fluted instruments**
- **Threads & fittings**
- **Etc…**

Crest

Root

Minor Diameter

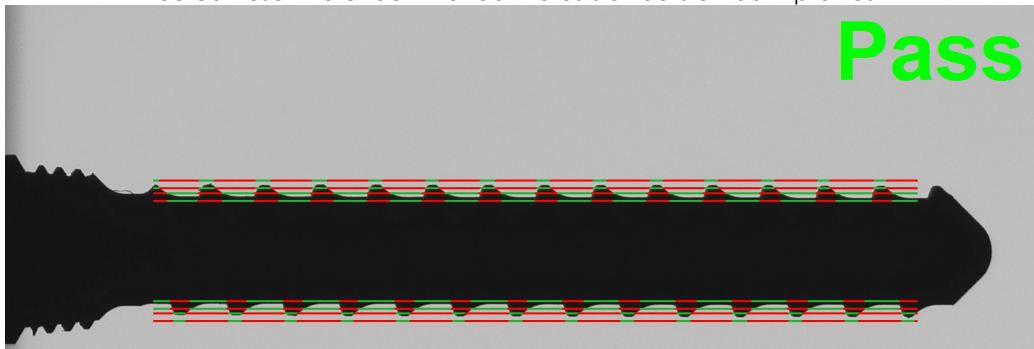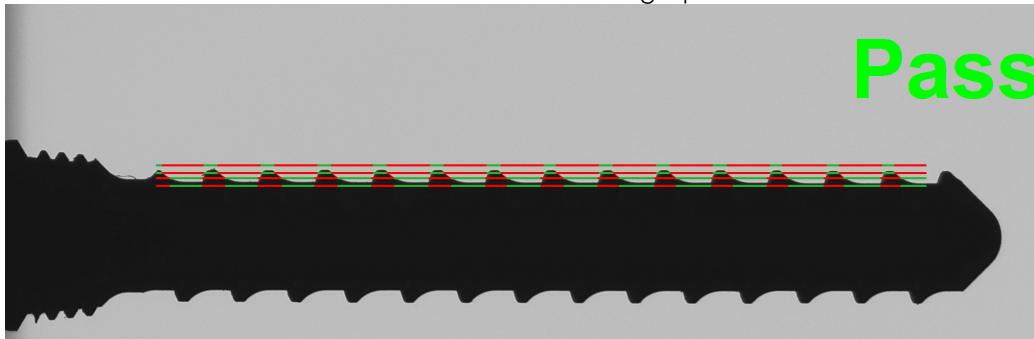Major Diameter

Pitch

Thread Depth

Quick & Easy to Set Up!

Using the crest & root points that the Tooth Checker tool has found,
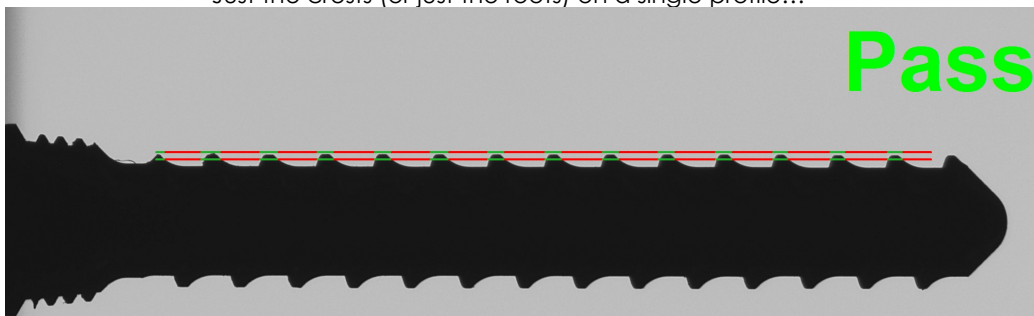it can then automatically determine all other part characteristics

There are no limitations as to part geometry!

The Tooth Checker Tool is extremely flexible!
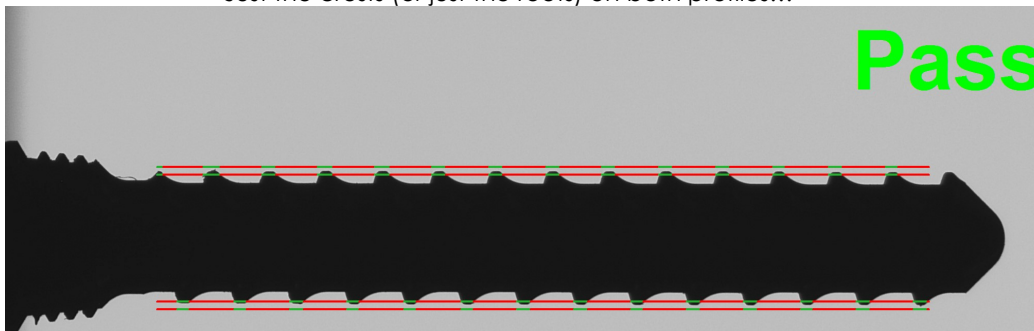You can use it to check the teeth crests & roots on both profiles

Pass

Or the crests and the roots on a single profile...

Pass

Just the crests (or just the roots) on a single profile...

Pass

Just the crests (or just the roots) on both profiles...

Pass

...or any combination thereof!

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