

INFO

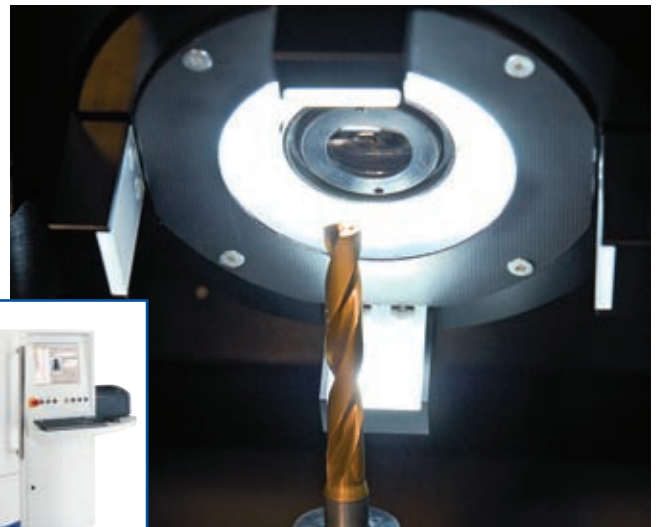
Nov 2009
Edge prep measuring

Measure edge prep (hone) down to a 5 micron radius on even the smallest tools

Walter's HELICHECK PRO & PLUS measuring machines can now measure the "edge prep" (also called the "cutting edge radius" or "hone") of precision cutting tools. Edge prep has emerged as an important avenue for extending tool life, but until now measuring this subtle feature has required an expensive, single-purpose machine. This option *adds* the ability to automatically measure edge prep to the HELICHECK's proven ability to measure virtually all geometries— including features like corner radius, rake angle, helix, runout, and K-land.

How?

A new 1,000x magnification camera and segmented LED light mounted on its own swiveling CNC axis enables edge prep measurement down to a 0.000,2 inch (5 micron) radius. And the new feature is fully integrated into the QCM measuring software, which makes setup easy.

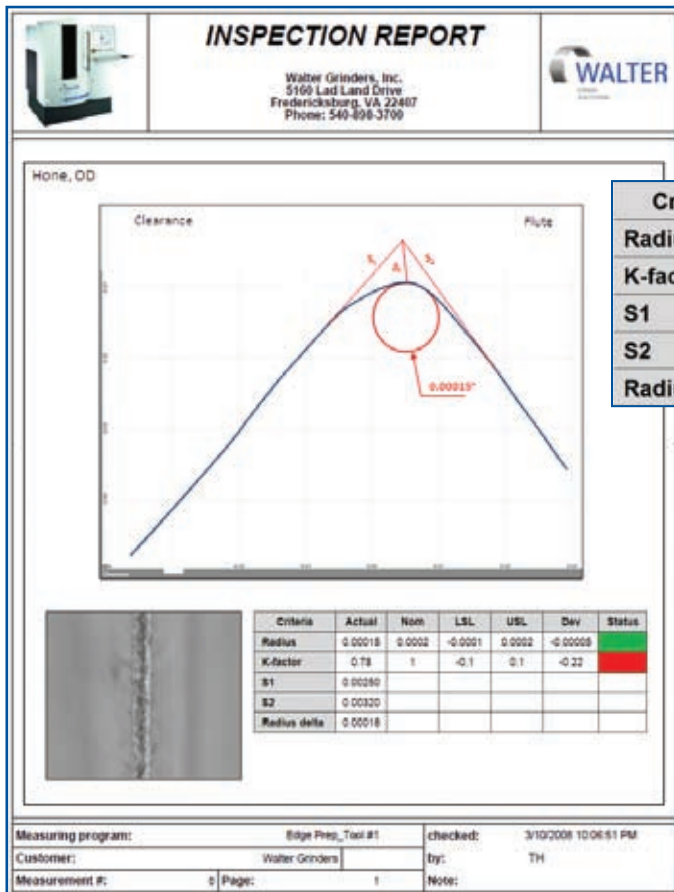
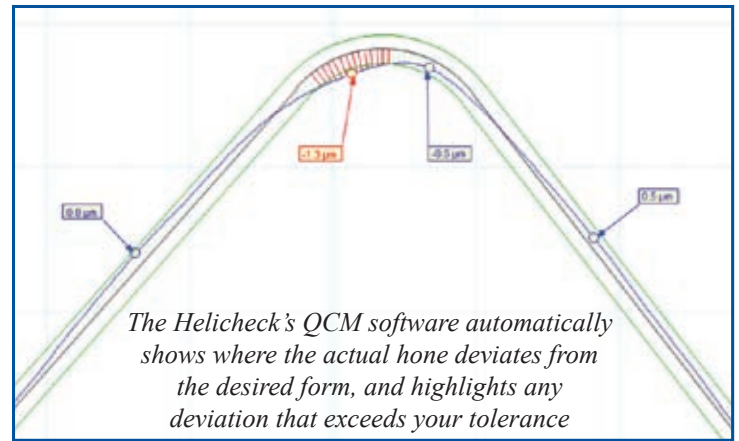


Over for more



Why measure edge prep?

The perfect hone can improve cutting tool performance by double, triple, or more. But “perfect” differs from application to application. For example, do you need a simple radius or a “waterfall” form? And should the radius be 20 microns or ten? It’s impossible to determine the best form without accurate measurements. And you can’t replicate the form unless you can control your process, which requires measuring during production. The Helicheck makes it easy.



Criteria	Actual	Nom	LSL	USL	Dev	Status
Radius	0.00015	0.0002	-0.0001	0.0002	-0.00005	Green
K-factor	0.78	1	-0.1	0.1	-0.22	Red
S1	0.00250					
S2	0.00320					
Radius delta	0.00018					

The Helicheck automatically produces an inspection report that meets your QC standards, including items like K-factor

Measures tiny features on micro tools too

The HELICHECK PLUS measures tools down to 0.004 inches (0.1 mm) in diameter and the new equipment improves the ability to measure other extremely small features, like clearance and rake angle, on such micro tools. Repeatability is $\leq 0.000,040$ inches (1 micron).

Want to know more? Give us a call!
(540) 898-3700, Ext 2.

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