



*Cutting Edge Precision
Laser Focused*

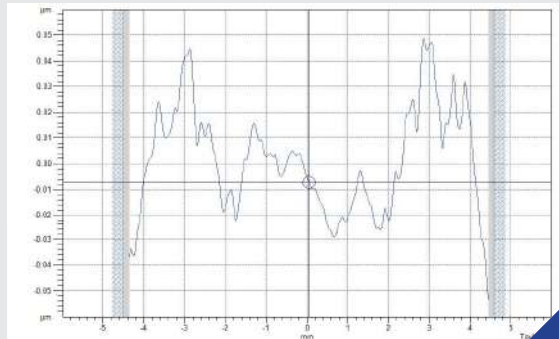
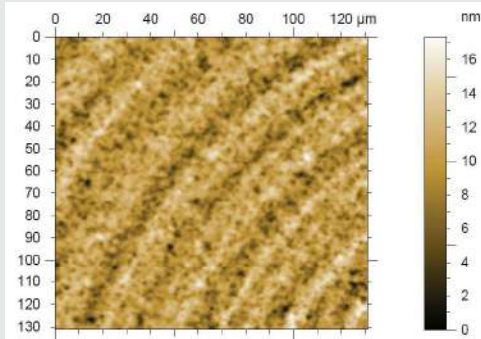


Laser Assisted Machining of Tungsten Carbide

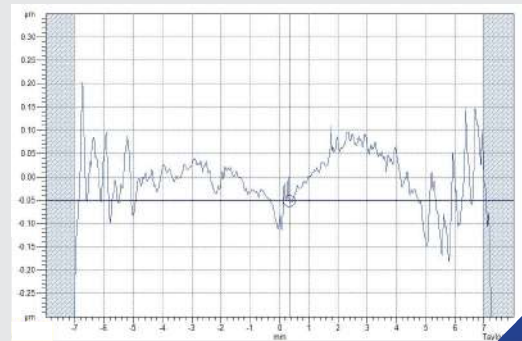
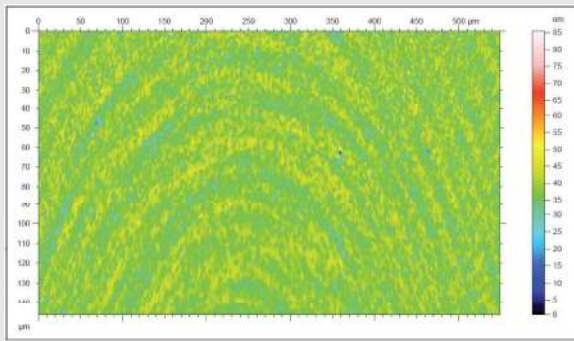
Diamond turn tungsten carbide like never before.



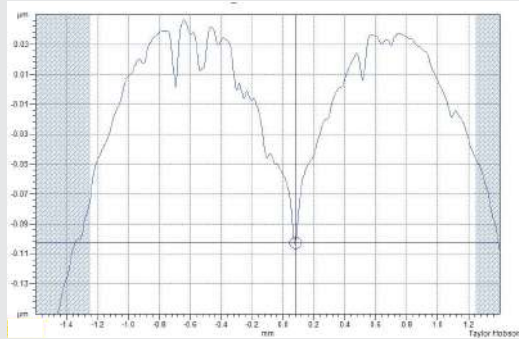
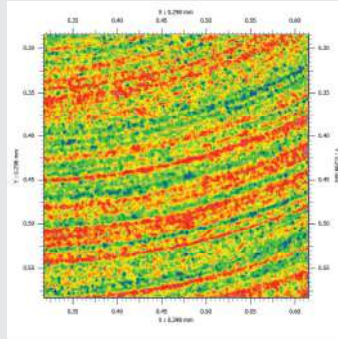
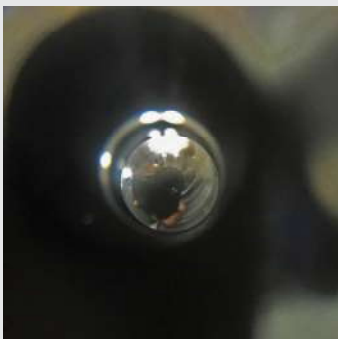
Standard C2 Grade (6-10% Cobalt)



High Grade - Deep Sag Mold (<2% Cobalt)



High Grade - Small Mold Pin (<2% Cobalt)





Diameter



Concave



Convex



Finish



Form PV



Passes/Tool



Time/Pass



Radius

High Grade - Binderless Mold (<1% Cobalt)



Ø3mm



1mm



1-3nm



0.10µm



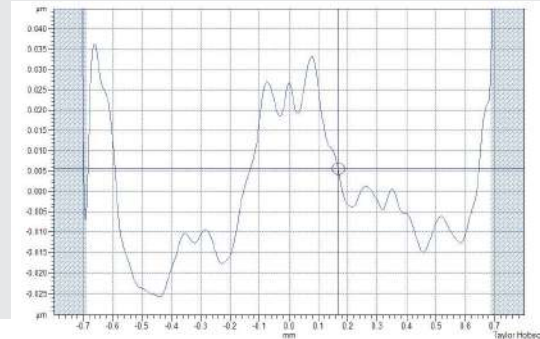
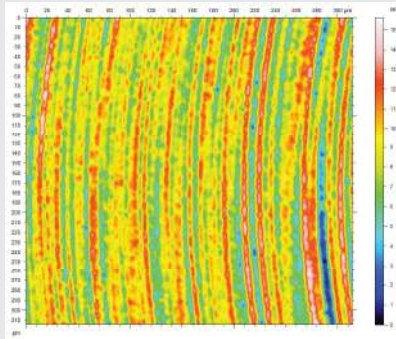
30 Passes



20 Sec



100 µm



High Grade - Large Radius Mold (<2% Cobalt)



Ø26mm



256mm



3-4nm



0.17µm



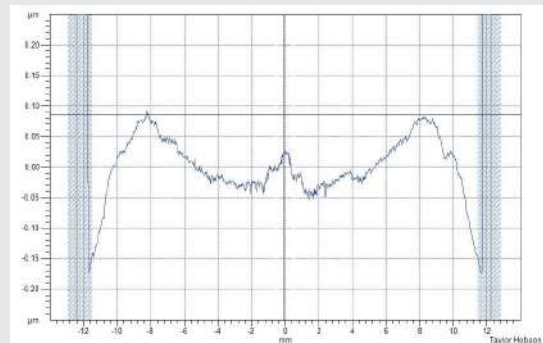
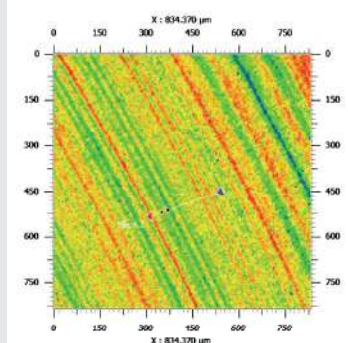
10 Passes



130 Sec



300 µm



High Grade - Binderless Diffractive Mold (<2% Cobalt)



Ø8mm



7mm



3-5nm



0.30µm



8 Passes



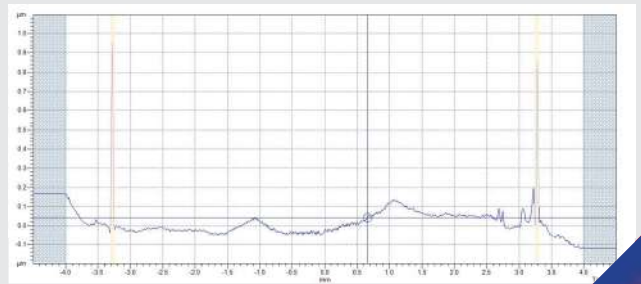
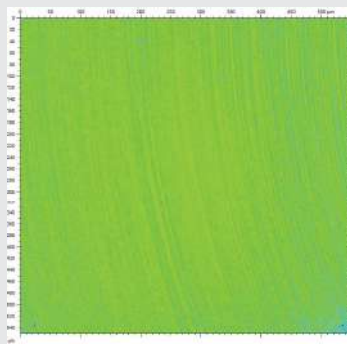
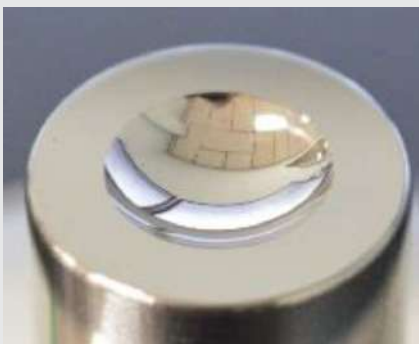
40 Sec



50 µm

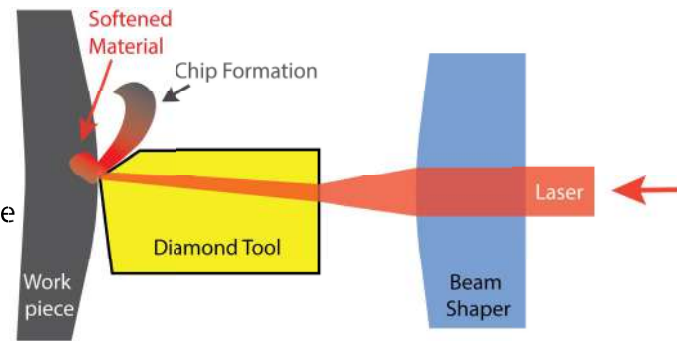


Diffractive



The Patented Solution

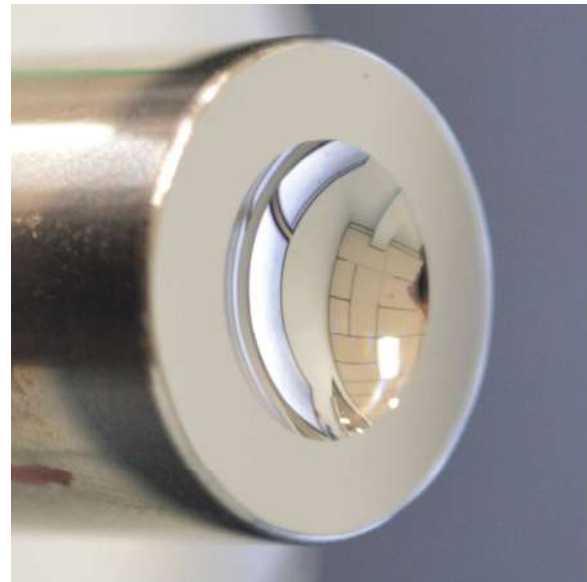
- ◆ Issued patent with over twenty claims
- ◆ Innovative solution proven through extensive research & development
- ◆ Laser delivered precisely at tool-workpiece interface
- ◆ The laser passes through an optically transparent diamond tool



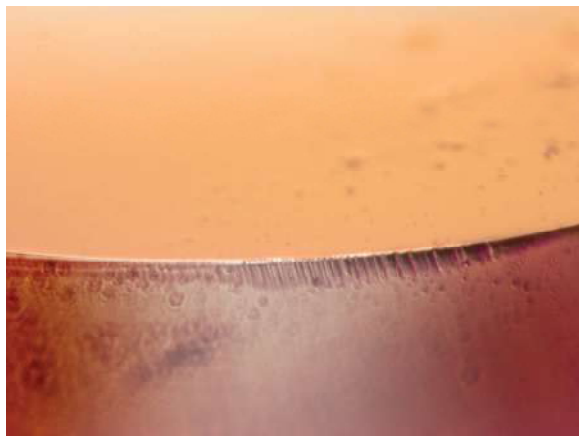
Tool Wear Comparison



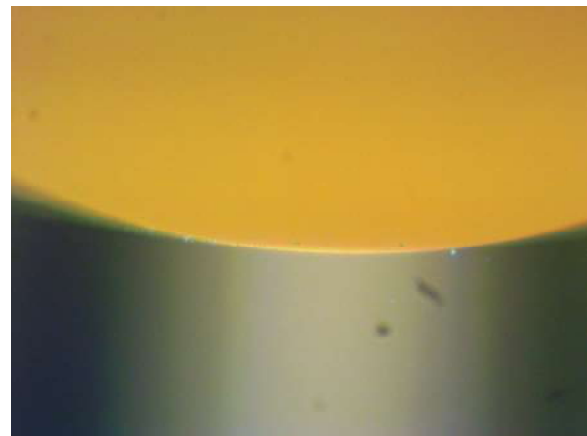
Conventional



Micro-LAM



200X (1 pass)



200X (5 passes)