μ-LAM

Cutting Edge Precision
Laser Focused

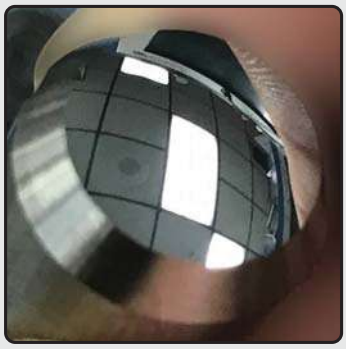
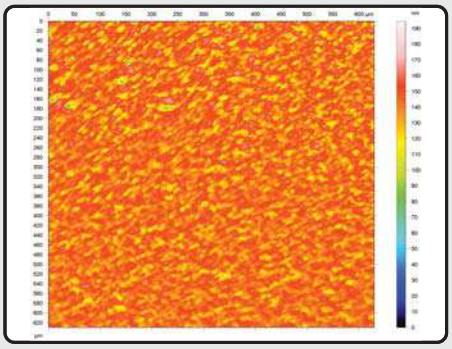
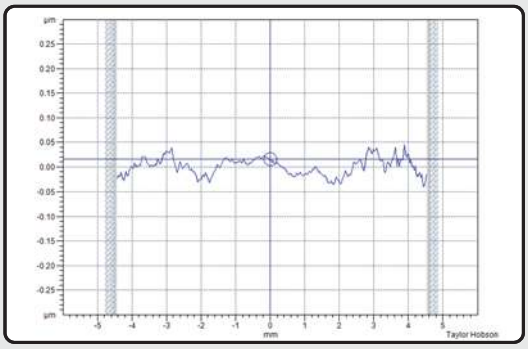
Laser Assisted Machining of Tungsten Carbide

Diamond turn tungsten carbide like never before.

Diameter | Concave | Convex | Finish | Form PV | Passes/Tool | Time/Pass | Radius

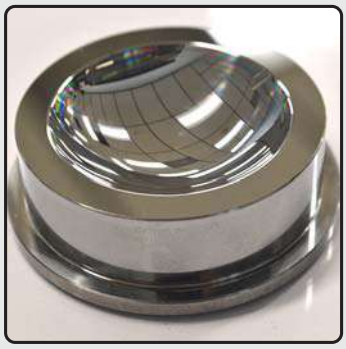
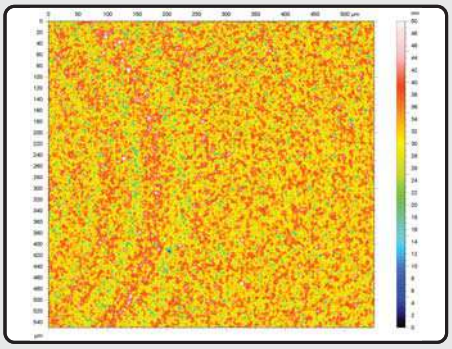
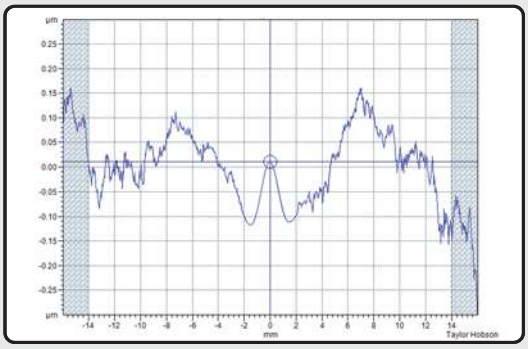
Standard C2 Grade (6-10% Cobalt)

Ø10mm	15mm	3-5nm	0.10 µm	10 Passes	60 Sec	300 µm

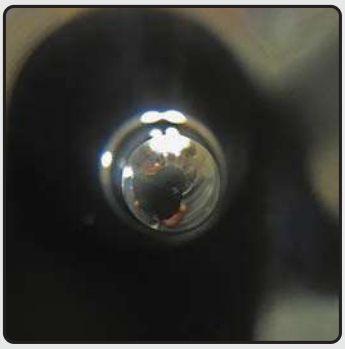
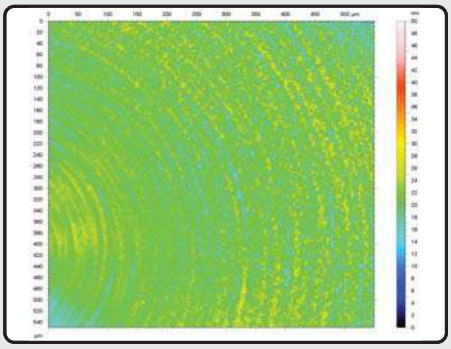
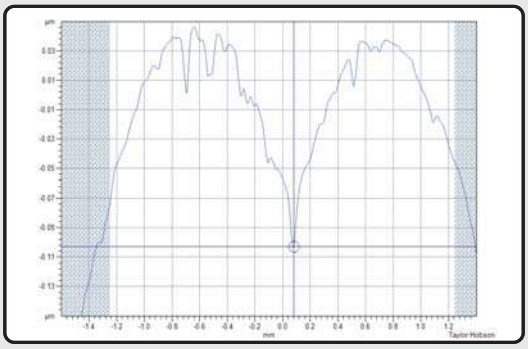
High Grade - Binderless Deep Sag Mold (<2% Cobalt)

Ø40mm	27mm	3-4nm	0.30 µm	5 Passes	200 Sec	300 µm

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

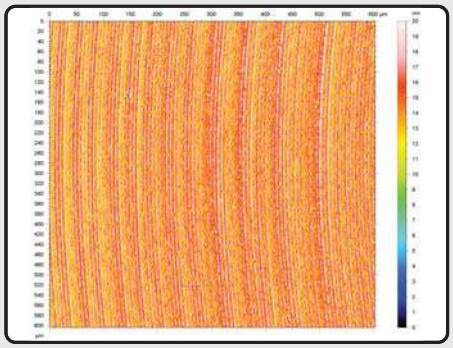
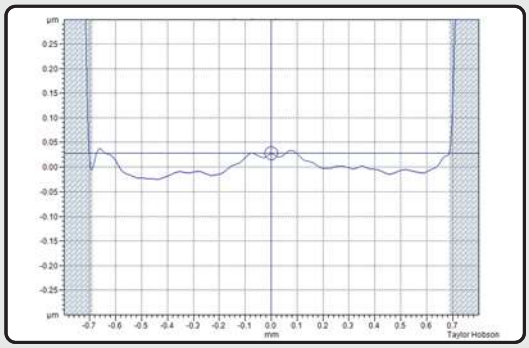
Ø3.5mm	3.5mm	1-3nm	0.15 µm	20 Passes	20 Sec	300 µm

Diameter | Concave | Convex | Finish | Form PV | Passes/Tool | Time/Pass | Radius

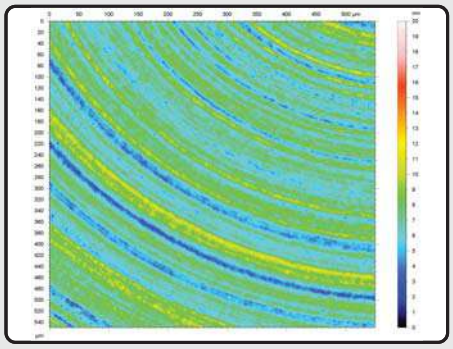
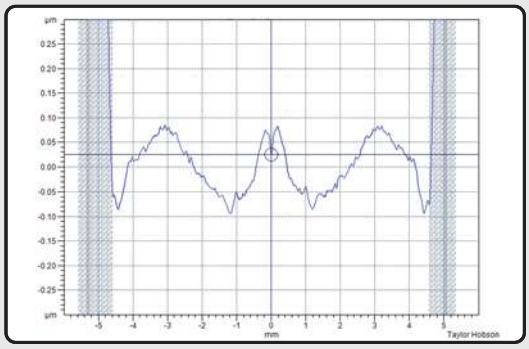
High Grade - Binderless Mold (<1% Cobalt)

Ø3mm	1mm	1-3nm	0.10 µm	30 Passes	20 Sec	100 µm

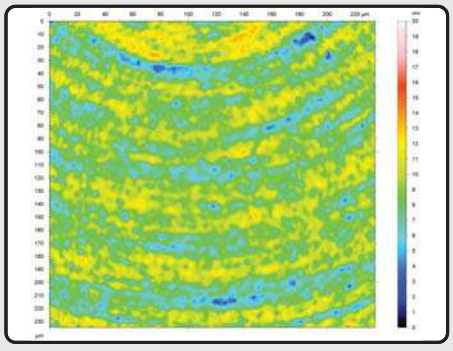
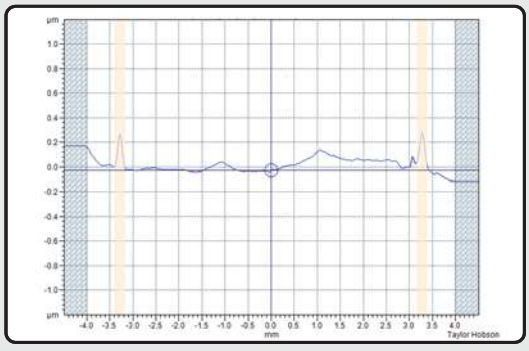
High Grade - Complex Asphere (<2% Cobalt)

Ø10mm	25mm	1-2nm	0.15 µm	10 Passes	300 Sec	500 µm

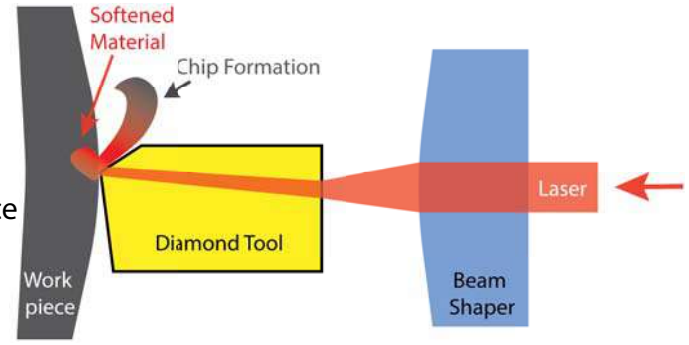
High Grade - Binderless Diffractive Mold (<2% Cobalt)

Ø8mm	7mm	3-5nm	0.30 µm	8 Passes	40 Sec	50 µm	Diffractive

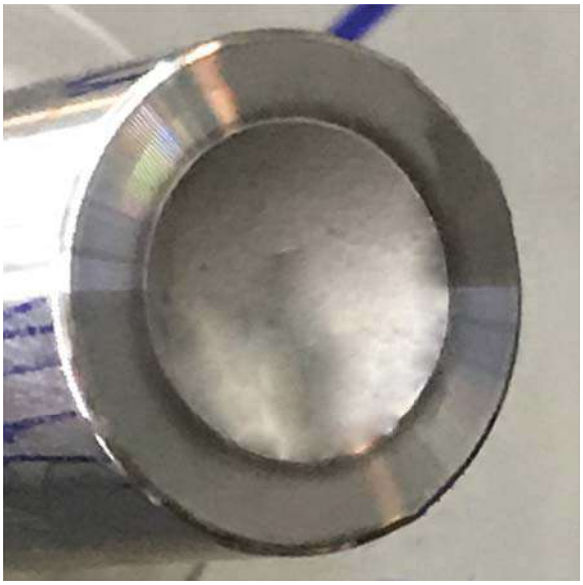




The Patented Solution

- 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

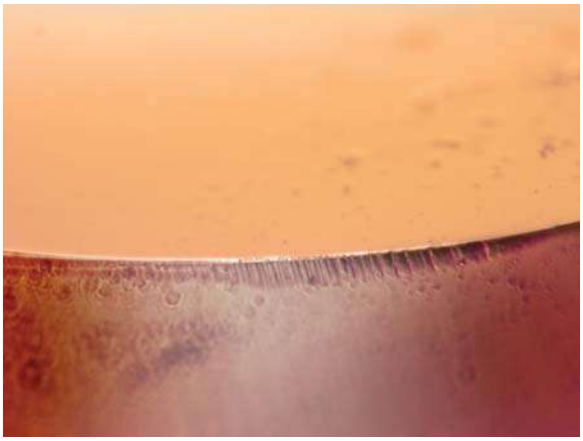


Tool Wear Comparison

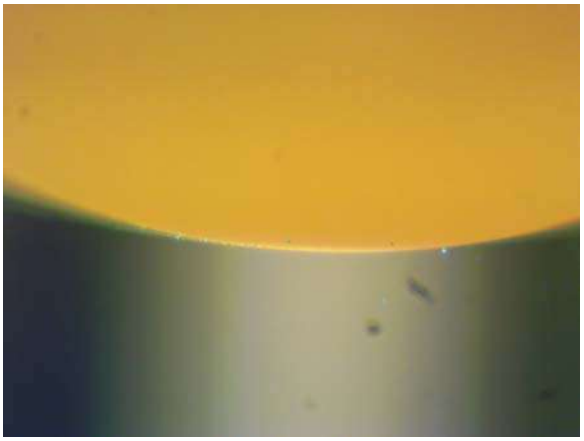


Conventional

Micro-LAM



200X (1 pass)



200X (5 passes)