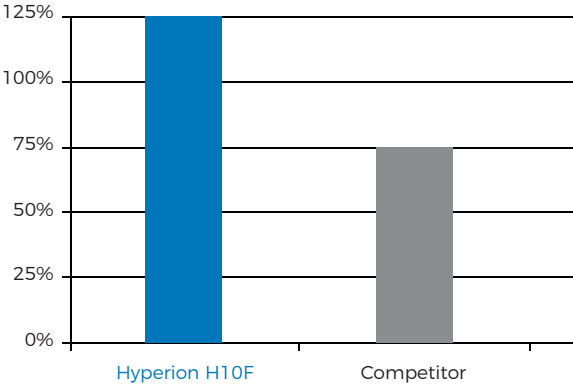
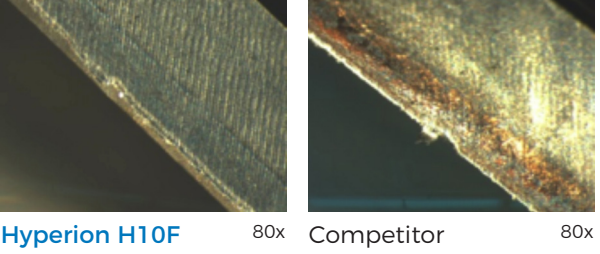


**H10F GRADE AND HYPERION  
TOLERANCES EQUALS  
SUPERIOR PERFORMANCE**

**TOOL LIFE COMPARISON**



**CUTTING EDGE COMPARISON  
DEMONSTRATING H10F  
SUPERIOR PERFORMANCE**



HYPERION CARBIDE BLANK	
SIZE (in)	½ X 3
GRADE	Hyperion H10F
TYPE	RU GI 050003005 End Mill / Hyperion Tolerances
DIAMETER (in)	0.500 (-0.00010 / -0.00030)
TIR (in)	Max 0.0002

TEST CONDITIONS C	
Work piece	718 Inconel
Machine spindle	25-30 HP, 20,000 RPM
Type of cut	Trochoidal Milling
Coolant	Synthetic
Type of collet	HSK63F Hydrogrip
Cycle time per pocket (min)	16
Cutting speed (SFM)	165
Spindle RPM	1260
Feed rate (IPM)	18.9
Radial depth of cut (in)	0.030
Axial depth of cut (in)	0.5
Material removal rate	0.284 in <sup>3</sup> /min

Test Location: Hyperion Technology Center, Worthington, OH. USA.

**Hyperion H10F RESULTS**

- Tool life improvement of 50%
- Hyperion H10F demonstrates superior balance of hardness and toughness
- Repeatable and consistent performance providing a predictable tool life
- Superior integrity of cutting edges.