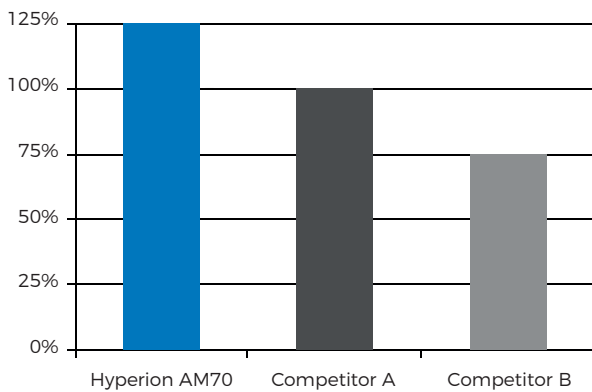
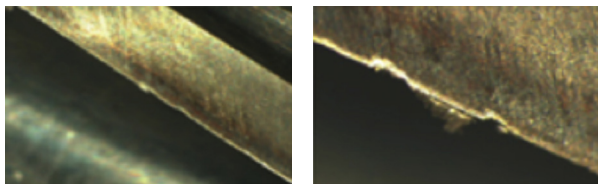


## AM70 GRADE AND HYPERION TOLERANCES EQUALS SUPERIOR PERFORMANCE

### TOOL LIFE COMPARISON



### CUTTING EDGE COMPARISON DEMONSTRATING AM70 SUPERIOR PERFORMANCE



Hyperion AM70 80x Competitor 80x

### Hyperion AM70 RESULTS

- Tool life improvement:
  - Competitor A, minimum 25%
  - Competitor B, minimum 50%
- Hyperion AM70 demonstrates superior balance of wear and toughness
- Repeatable and consistent performance providing a predictable tool life
- Superior integrity of cutting edges
- Stable spindle load.

#### HYPERION CARBIDE BLANK

SIZE (in)	1/2 X 3
GRADE	Hyperion AM70
TYPE	RU GI 050003005 End Mill / Hyperion Tolerances
DIAMETER (in)	0.500 (-0.00010 / -0.00030)
TIR (in)	Max 0.0002

#### TEST CONDITIONS A

Work piece	Titanium Ti6Al4V
Machine spindle	25-30 HP, 20,000 RPM
Type of cut	Trochoidal Milling
Coolant	Synthetic
Type of collet	HSK63F Hydrogrip
Cycle time per pocket	8 min 45 sec
Cutting speed (SFM)	400
Spindle RPM	3056
Feed rate (IPM)	76
Radial depth of cut (in)	0.045
Axial depth of cut (in)	0.900
Material removal rate	3.10 in <sup>3</sup> /min

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