

V-Carb



Kyocera SGS Precision Tools Case Study

INDUSTRY



POWER GENERATION

MATERIAL

Ti-6Al-4V (Titanium Alloy)

PRODUCT

KSPT Series 55 V-CARB TA Coated

APPLICATION

Milling

COMPETITOR

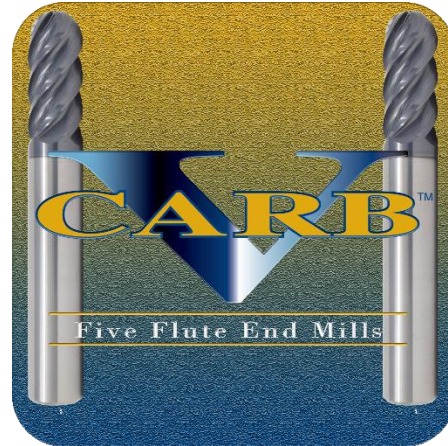
5 Flute variable endmill

COOLANT

Flood

TOOL INFORMATION

1" DIA Special Quoted Item



GOALS

The goals of this study were to significantly reduce tooling cost through a decreased cycle time.

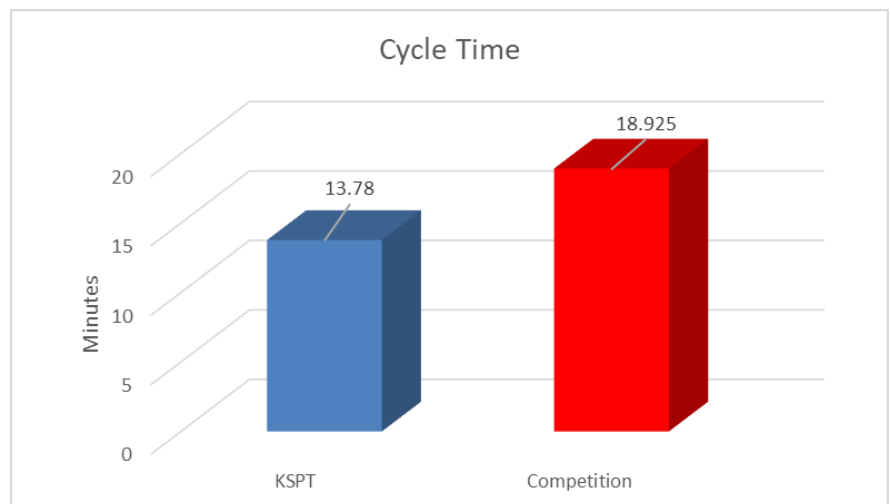
STRATEGY

KSPT approached this job with a 5 flute V-Carb. These five-flute, unequal helix tools feature unequal indexing and an ideal rake and relief combination for unmatched finishing capability.

	KSPT	COMPETITOR
TOOL DIAMETER	1"	1"
SPEED	1375 RPM	950 RPM
FEED	26.1 IPM	19.0 IPM
RADIAL CUT (AE)	.025"	.025"
AXIAL CUT (AP)	4.0"	4.0"
CYCLE TIME	13.78 minutes	18.925 minutes

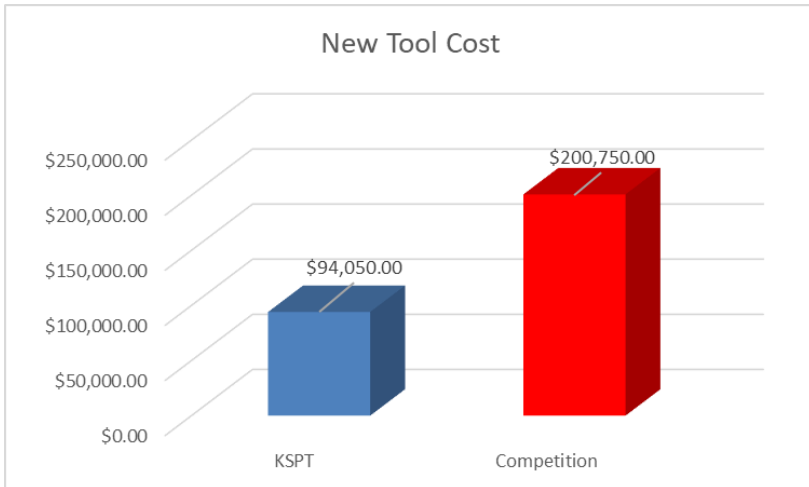


KSPT's V-Carb end mill decreased cycle time by over 27%!!



RESULTS

The overall findings of this study indicate that KSPT's Series 55 V-Carb end mill delivers advanced productivity by decreasing the total cycle time by over 27%, while also saving the customer over \$106,000 in new tool cost. All of this contributes to a total cost savings of \$109,765.56.



27%

REDUCTION IN CYCLE TIME

53%

REDUCTION IN TOOLING COST

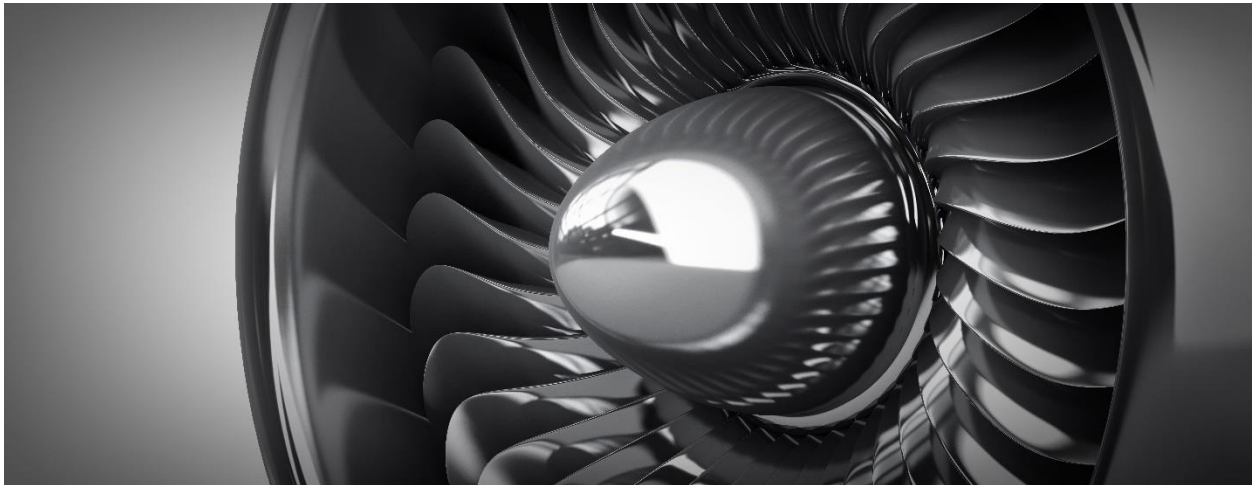
\$109,765.56

TOTAL JOB COST SAVINGS

The use of KSPT's V-Carb end mill saved the customer over **\$106,000** in new tool cost!!

51.7%

REDUCTION IN TOTAL COST



VALUE AT THE SPINDLE®