

Series 135 Hi-PerCarb



Kyocera SGS Precision Tools Case Study

INDUSTRY

Aerospace

MATERIAL

304L Stainless Steel

PART PRODUCED

Vent Ring

PRODUCT

KSPT series 135 HI-PERCARB Drill

APPLICATION

Hole Drilling

COMPETITOR

Flat Bottom Carbide Drill

COOLANT

Soluble Flood

TOOL INFORMATION

.180 DIA / 0.875 LOC / 2.625 OAL



kyocera-sgstool.com



HIGH PERFORMANCE CARBIDE DRILLS

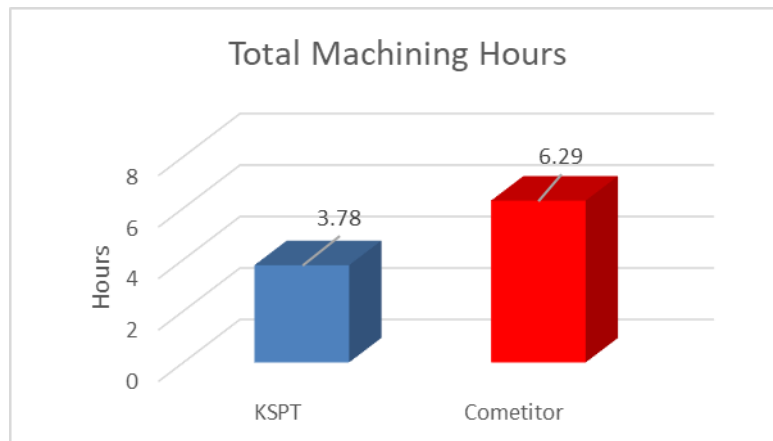
GOALS

The goals of this study were to significantly reduce cost through an increase tool life.

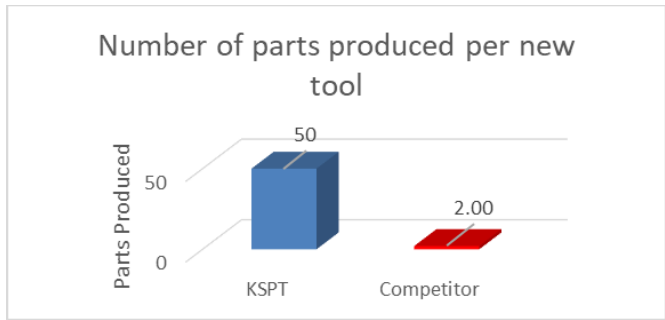
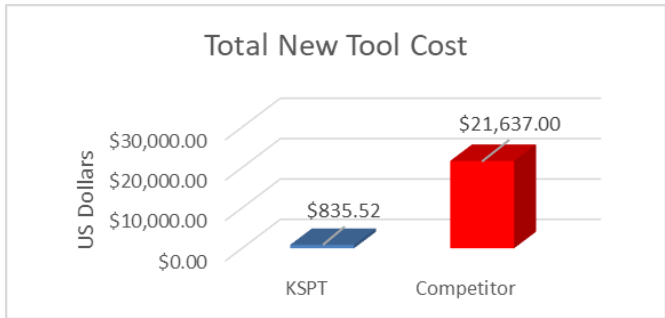
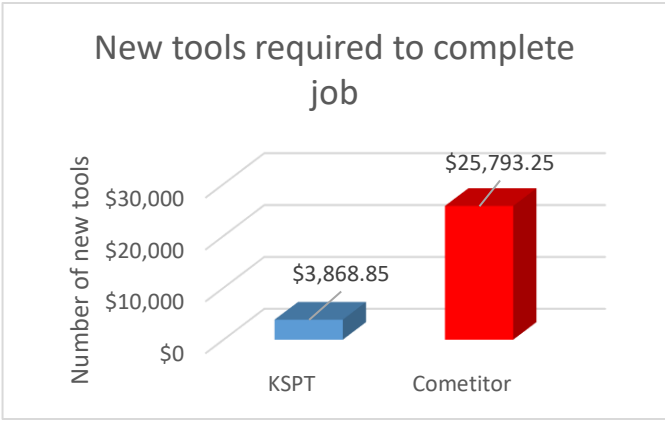
STRATEGY

KSPT approached this job with a series 135 HI-PERCARB drill. KSPT's series 135 HI-PERCARB, with its double margin design is ideal for improving surface finish without sacrificing speed and feed rates.

	KSPT	COMPETITOR
TOOL DIAMETER	.180	.180
SPEED	3700 RPM	2970 RPM
FEED	14.8 IPM	8.9 IPM
RADIAL CUT (AE)	N/A	N/A
AXIAL CUT (AP)	.3	.3
CYCLE TIME	3:22	2:15



KSPT's series 135 HI-PERCARB produced a **40%** reduction in total machining hours.



RESULTS

The overall findings of this study indicate that while KSPT's HI-PERCARB drill increased cycle time per part, it dramatically decreased the number of new tools to complete the job by **96%**. Subsequently reducing the total new tool cost by **96%**. All the while producing **96%** more parts than the competition. All the savings add up to a cost savings of **\$21,924.40!**

96%

REDUCTION IN NEW TOOLS REQUIRED.

96%

REDUCTION IN TOOLING COST

96%

INCREASE IN PARTS PRODUCED

\$21,924.40

TOTAL JOB COST SAVINGS

