

S-Carb APF



Kyocera SGS Precision Tools Case Study

INDUSTRY



AUTOMOTIVE

MATERIAL

6061 Aluminum

PRODUCT

KSPT S-Carb APF 4 Flute End Mill

APPLICATION

Milling

COMPETITOR

3-Flute Finishing End Mill

COOLANT

10% Water Soluble

TOOL INFORMATION

6mm DIA / 24mm LOC / 58mm OAL



GOALS

The goals of this study were to significantly reduce new tooling cost through increasing tool life and reducing cycle time.

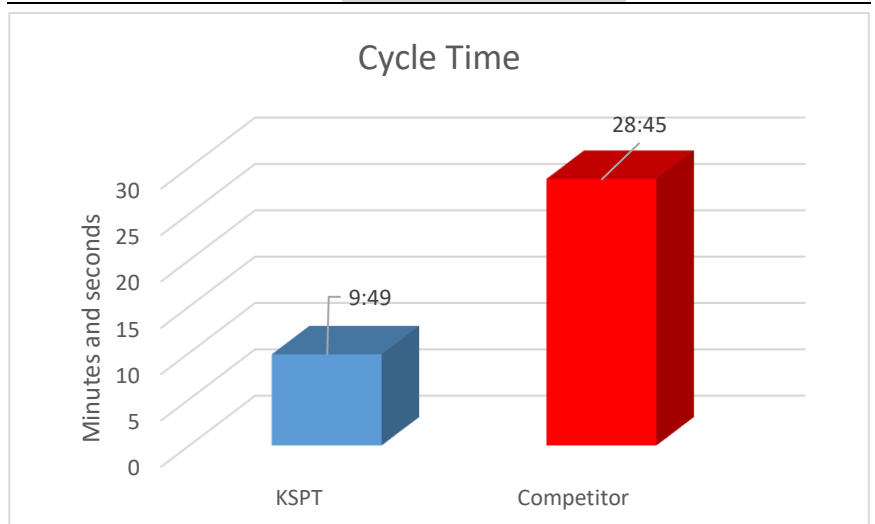
STRATEGY

KSPT approached this job with a 4 flute S-Carb APF (Advanced Productivity Finisher) end mill. KSPT's S-Carb APF is the authority in aerospace aluminum finishing and has set the global standard for part quality, cost, and tool life.

	KSPT	COMPETITOR
TOOL DIAMETER	6mm	.25"
SPEED	4000 RPM	9000 RPM
FEED	23.4 IPM	20 IPM
RADIAL CUT (AE)	.0025"	.0025"
AXIAL CUT (AP)	1.5"	.325"
	9:49	28:45

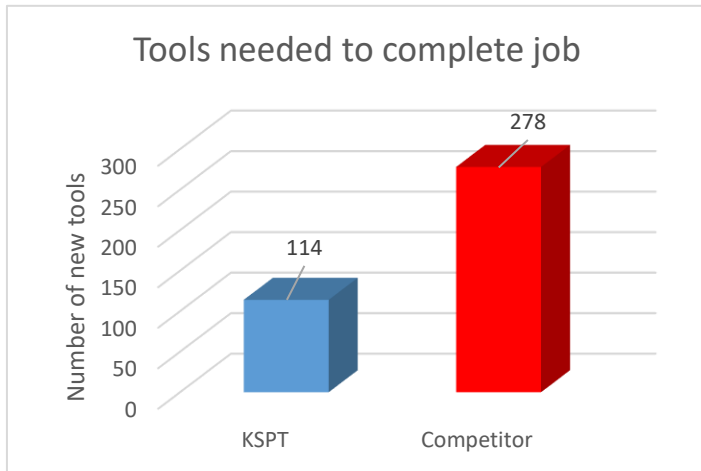


KSPT's S-Carb APF allowed for a **65% reduction in cycle time!**



RESULTS

The overall findings of this study indicate that KSPT's S-Carb APF delivered superior productivity through a **65% reduction in cycle time**, a **62% reduction in tools needed to complete the job** and a **59% increase in tool life**. All these factors contributed to a **total cost savings of \$53,395.13**



62%

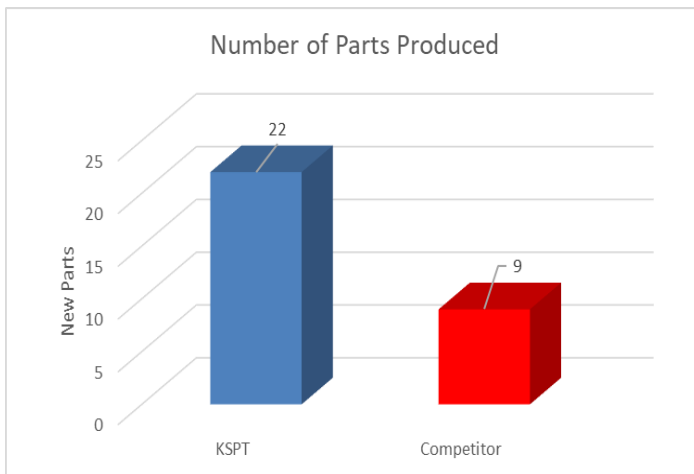
REDUCTION IN MACHINING TIME

59%

INCREASE IN TOOL LIFE

65%

REDUCTION IN TOTAL MACHINING TIME



\$53,395.13

TOTAL JOB COST SAVINGS

