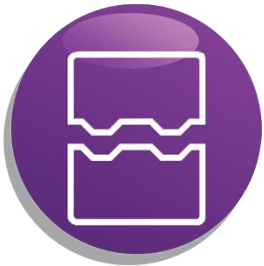


Z-CARB MD



Kyocera SGS Precision Tools Case Study

INDUSTRY



MOLD AND DIE

MATERIAL

S7 TOOL STEEL (55-60Hrc hardness)

PRODUCT

KSPT Z-CARB MOLD AND DIE END MILL

APPLICATION

Milling

COMPETITOR

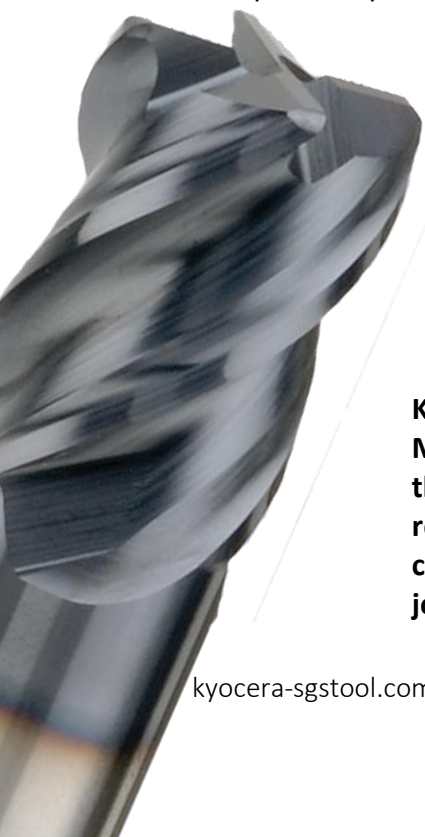
4 FLUTE HP END MILL

COOLANT

NONE

TOOL INFORMATION

.3937 DIA / 1" LOC / 3" OAL



KSPT's Z-CARB MD reduced the total tools required to complete the job by 88%.

kyocera-sgstool.com



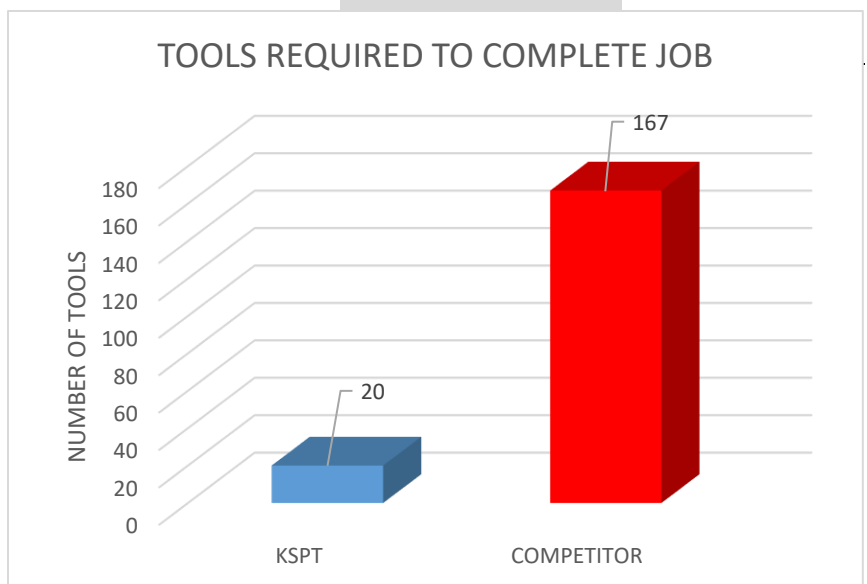
GOALS

The goals of this study were to significantly reduce job cost through increasing tool life and increasing tool efficiencies.

STRATEGY

KSPT approached this job with a 4 flute Z-Carb Mold and Die end mill. KSPT's Z-Carb MD reduces damaging harmonics by changing the angle at which each cutting edge enters and exits the material. Combined with unequal flute spacing and a heavy core, this end mill effortlessly machines hardened steels with incredible tool life.

	KSPT	COMPETITOR
TOOL DIAMETER	.3937"	.3937"
SPEED	650 RPM	2000 RPM
FEED	.7 IPM	6.0 IPM
RADIAL CUT (AE)	.300"	.300"
AXIAL CUT (AP)	.300"	.300"



RESULTS

The overall findings of this study indicate KSPT's Z-CARB MD end mill is priced 70% less than our competition's equivalent tool. Our tool was able to reduce the tools needed to complete the job by **88%**. Additionally, with **88% fewer tools used**, we were able to produce **88% more parts**. This equated to a **73% reduction** in cost per part, and a **Total Job Savings of \$18,093.58**.

