SERIES 103 DRILL

Kyocera SGS Precision Tools Case Study

INDUSTRY

ENGINEERING

MATERIAL

TITANIUM (38 HRc hardness)

PRODUCT

KSPT SERIES 103 General Purpose Drill

APPLICATION

Drilling

COMPETITOR

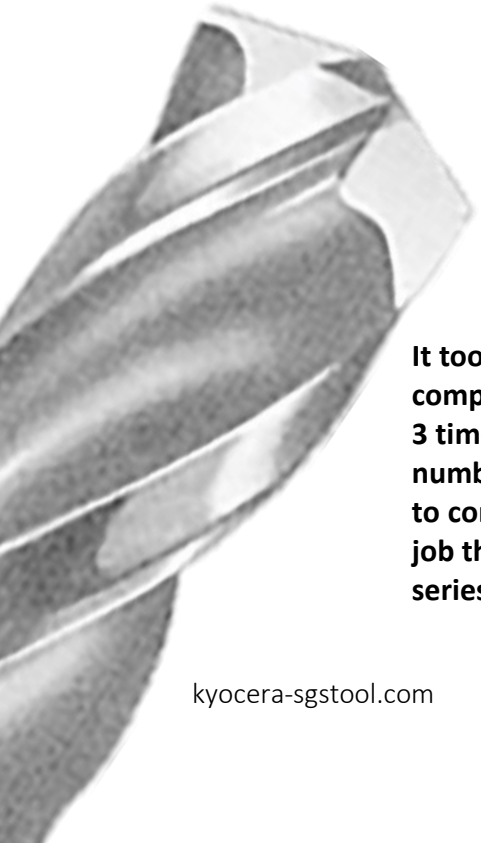
2 FLUTE General Purpose Drill Uncoated

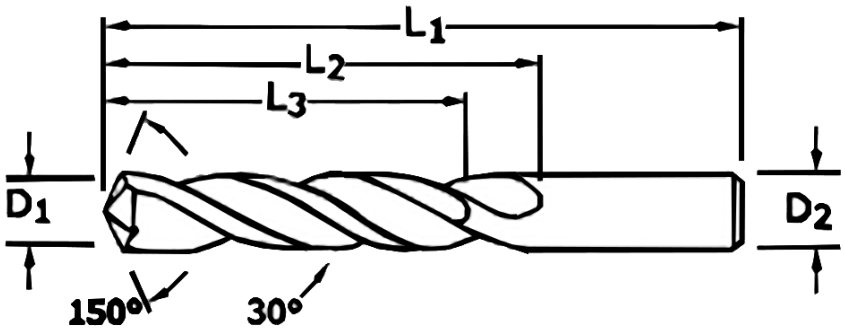
COOLANT

Semi-Synthetic

TOOL INFORMATION

.3860 DIA / 2.875” LOC / 4.5” OAL





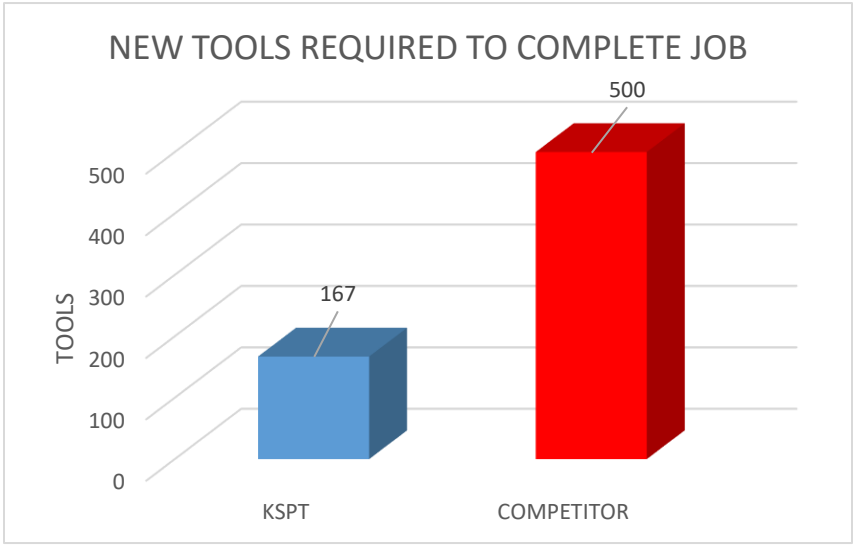
GOALS

The goals of this study were to significantly reduce job cost through an increase in tool life, a reduction in machining time, and an improvement in manufacturing efficiency.

STRATEGY

KSPT approached this job with a 3 flute series 103 general purpose drill. KSPT’s series 103 drill allowed for a change in the method of cut. The addition of a peck drill allowed for a significantly better performance.

	KSPT	COMPETITOR
TOOL DIAMETER	.3860”	.3860”
SPEED	663 RPM	445 RPM
FEED	3.3 IPM	1.3 IPM
RADIAL CUT (AE)	N/A	N/A
AXIAL CUT (AP)	2.0"	2.0"
CYCLE TIME	0.754 MINUTES	1.684 MINUTES



It took the competitor almost 3 times the number of tools to complete the job than KSPT’s series 103 drill!!

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RESULTS

The overall findings of this study indicate that KSPT's general purpose drill was able to significantly improve performance of the job at hand. This was done through an **increase in speed and feed capacity** as well as the use of a higher quality tool. Given the vastly smaller number of tools used, the **new tool cost was reduced by over $38,000**, as well as an obvious savings in machining cost. Our drill was able to reduce the cost per part to the customer by over **$75 per part**. When you combine the savings in new tool cost with machining cost savings, you get a **total cost savings of $39,473.75**