

INDUSTRY

Aerospace

COMPONENT

Actuator Cylinder

MATERIAL

15-5 PH Stainless Steel

Hardness: 35 Rc

PRODUCT

KSPT Multi-Carb End Mill

APPLICATION

Finishing

COMPETITOR

6 Flute End Mill

COOLANT

Water Soluble

TOOL INFORMATION

3/4" DIA / 1-5/8" LOC / 4" OAL



HIGH PERFORMANCE FINISHING END MILLS

GOALS

The goals of this study were reduce cycle time and increase cost savings by optimizing KSPT's products.

STRATEGY

KSPT approached this job with an 11 flute Multi-Carb end mill. The end user was using the competitor's tool, along with KSPT's Series 33 and Z-Carb HPR end mills to cut and finish the actuator cylinder. The competitor's tool was replaced with KSPT's Multi-Carb to increase tool life and improve overall cycle time.

KSPT's Multi-Carb incorporates a large number of flute for stability and high feed finishing capabilities in applications where surface finish and tolerance are critical factors.

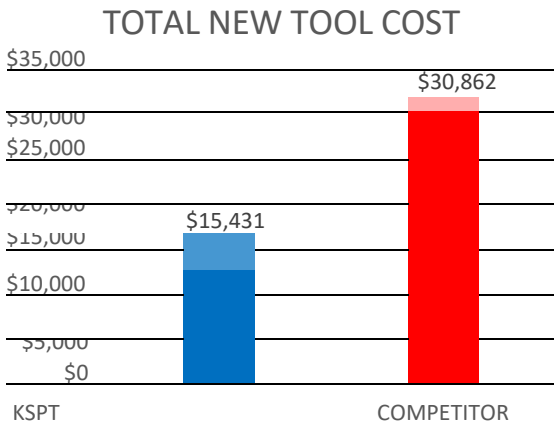
	KSPT	COMPETITOR
PARTS TO PRODUCE	100	100
TIME TO CHANGE TOOL (MIN)	5	5
PARTS PRODUCED BY TOOL	4	2
NEW TOOLS REQUIRED TO COMPLETE JOB	25	50

TOOLS REQUIRED TO COMPLETE JOB



KSPT'S Multi-Carb completed the job in half the amount of tools!

CYCLE TIME SAVED	7 HOURS
MACHINE COST SAVED PER JOB	\$59,500
TOOLING COST SAVED PER PART	\$751.00
NEW TOOL COST SAVED PER JOB	\$15,431



RESULTS

The overall findings of this study indicate that KSPT’s Multi-Carb delivers advanced productivity by decreasing the total cost of the job by 27.9% to a total of \$75,108.33 in total cost savings. KSPT’s Multi-Carb produced the same amount of parts in exactly half the amount of tools and proportionally reducing the new tool cost.

KSPT’s Multi-Carb reduced the total tooling cost by 50%!

100%
INCREASE IN PARTS PRODUCED BY THE TOOL

50%
REDUCTION IN TOOLING COST

\$75,108.
TOTAL JOB COST SAVINGS

