



Real-Life Stories Case Study: SGS HI-PERCARB® 143M-S

Brought To You by KYOCERA SGS Precision Tools | Apr 01, 2022

Goals

The goal of this study was to significantly reduce job cost by increasing tool life and decreasing cycle time per part.

Strategy

SGS provided the new *Hi-PerCarb® 143M-S internal coolant drill* due to its proven performance and chip control in stainless steel applications. The single margin design was engineered to combat many of the issues commonly encountered during high production drilling.

| | КЅРТ | Competitor |
|------------------|--------------|--------------|
| TOOL DIAMETER | .2200 | .2200 |
| SPEED | 2365 RPM | 1500 RPM |
| FEED | 7.3 IPM | 2.3 IPM |
| AXIAL DEPTH (AP) | .7500 | .3000 |
| CYCLE TIME | 1:34 MINUTES | 0:11 MINUTES |

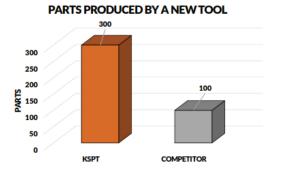
Conclusion

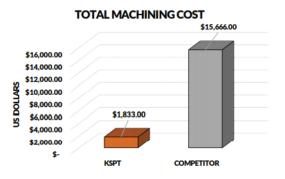
The customer was able to achieve the primary goal of reducing cycle time which lead to a noticeable increase in tool life. With greater tool life comes decreased tool change cost along with a total reduction in machining cost. The efficiencies gained ultimately netted the customer a reduction in total machining cost per part of over 84%.

Results

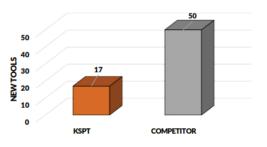
Adding the Hi-PerCarb® 143M-S internal coolant drill to the customer's tooling arsenal resulted in an 88% improvement in cycle time. The 143M-S was able to produce over 8 holes for every hole produced by the competitor's drill and the customer saw a 66% improvement in tool life. After the job was complete, the customer saw a total cost savings of over \$17,000 and a total cost reduction of 84%.



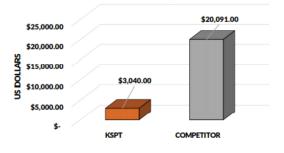




NEW TOOLS REQUIRED TO COMPLETE THE JOB







Download a PDF of the case study here.

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