

MULTI Carb

TEST INFORMATION

SGS Helps Aerospace Company gain over 27 days of production while reducing the cost per part by nearly 78%!

| | SGS Multi-Carb | COMPETITOR 7 Flute |
|---------------------|-------------------|-----------------------|
| Tool Diameter | .750 | .750 |
| Speed | 295 sfm | 220 sfm |
| Feed | 40.5 ipm | 19.9 ipm |
| Radial Cut (Ae) | .090 | .090 |
| Axial Cut (Ap) | .5300 | .2650 |
| Cycle Time | 10.67 minutes | 43.34 minutes |
| Metal Removal Rates | 1.93 cubic inches | 0.48 cubic inches |

The SGS Multi-Carb was able to produce the cut at twice the axial depth of the competition at 204% greater feed rates. This equates into 4 times more metal removal at 25% of the original cycle time.

SGS was able to accomplish a tool life of 25 parts where the competitor was only able to obtain 4 parts. This was a tool life improvement of 625%. The end user was able to gain 653.4 hours of production for a total of 27.2 days per year gained.

\$131,822.29 ANNUAL COST SAVINGS

THE SAVINGS WITH SGS

Cycle Time Saved per Part: **32.67 minutes**

Number of Parts per Year: **1200**

Cycle Time Saved Annually: **653.4 hours**

Cost to Machine per Hour: **\$140.00**

Machine Cost Saved Annually: **\$91,481.65**

Tool Life Improvement: **21 additional parts**

Tooling Cost Saved per Part: **\$31.17**

Tooling Cost Saved Annually: **\$39,300**

