CUSTOMER SUCCESS





General Engineering | 1018 - Steel



H-Carb

Series 77

Material

1018 - Steel

Part Type

Gear Housing

SGS Product

H-Carb 7-Flute Corner Radius End Mill

Competitor Product

0.500" 5-Flute Solid End Mill

Tool Path

High Efficiency

SGS Tool Information

- 0.500" Cutting Dia.
- 1.500" Length of Cut
- 3.500" Overall Length
- Chipbreaker
- Ti-NAMITE (TM) Coating
- EDP: 77191

Goal

Following a change in management, this hardware shop aimed to reduce cycle time and improve tool life using general-purpose end mills. KYOCERA SGS application engineers were tasked with identifying a tool solution that could deliver measurable improvements in efficiency and surface quality through controlled testing and real-world application.

Strategy

The H-Carb Series 77 achieved a tool life of 20 parts prior to observable wear, nearly tripling the performance of the competitor's tool, which exhibited wear after just 7 parts.

Result

Implementation of the H-Carb end mill led to a **70%** reduction in cycle time. Tooling costs decreased by **63%**, and cost per part was reduced by **68%**. Overall, the customer achieved a **68%** total cost reduction, resulting in annual savings exceeding **\$57,600**.





about the **H-Carb**

















