



Hi-PerCarb 142P

Series 142P

Material
Stainless Steel - 304

Part Type
Stainless Flange

SGS Product
11.90mm Dia, 137 Degree Point
Solid Carbide Drill

Competitor Product
0.4685" Dia. 1 Flute

Application
Drilling

- SGS Tool Information**
- 0.4685" Cutting Dia.
 - 1.5748" Usable Length
 - 2.1654" Flute Length
 - TX (Ti-NAMITE-X) Coating
 - EDP: [66489](#)

Goal

A metal fabrication facility was interested in a drill with increased tool life while decreasing cycle time and part costs overall.

Strategy

The customer sought to improve tool life and reduce cycle time from their current HSS drill. SGS recommended the Series 142P Drill, which allowed removal of the unnecessary peck cycle during testing—streamlining the process and optimizing performance.

Result

The implementation of the Series 142P Drill resulted in a **65%** reduction in the number of tools required. Machining cycle time decreased by **70%**, and the cost per part was reduced by **68%**. Overall, the customer achieved a total cost reduction of **85%**, generating annual savings of more than **\$4,300**.



Learn more about the
Series 142P

Total
Cost Savings
\$4,350

Tools Required
↓ 65%

Machining
Cycle Time
↓ 70%

Cost Per Part
↓ 68%

Tools	Cutting Dia. (DC)	RPM	SFM	IPM	IPR	Axial Depth (AP)	Coolant
SGS Hi-PerCarb 142P (1-Flute)	0.4685"	1239	152	9.29	0.0075	0.9000"	Coolant Through
Competitor (1-Flute)	0.4685"	800	98	3.20	0.0040	0.9000"	Coolant Through

Tools Required

↓ 65%

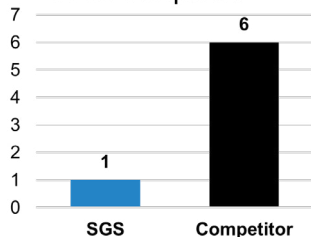
Machining
Cycle Time

↓ 70%

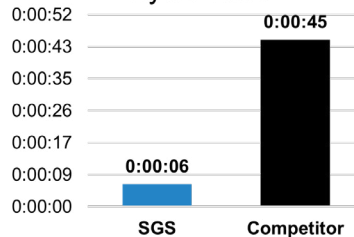
Cost Per Part

↓ 68%

Tools Required



Cycle Time



Total Cost Per Part

