



Hi-PerCarb 142P

Series 142P

Material
Cast Iron

Part Type
Pump Body

SGS Product
5/16" Dia, 137 Degree Point,
Solid Carbide Drill

Competitor Product
0.3125" Dia. 2 Flute Drill

Application
Drilling

SGS Tool Information

- 0.3125" Cutting Dia.
- 2.5197" Usable Length
- 2.9921" Flute Length
- TX (Ti-NAMITE-X) Coating
- EDP: [56487](#)

Goal

This manufacturer was interested in increasing tool life, decreasing cycle time and decreasing tool costs.

Strategy

The customer was previously using a drill and sought an alternative that could deliver equal or improved performance, extended tool life, and reduced overall cost. The recommended solution was the SGS 142P drill, featuring internal through-coolant to enhance chip evacuation, thermal control, and tool longevity.

Result

The implementation of the Series 142P resulted in a **33%** reduction in the number of tools required. Machining cycle time was reduced by **20%**, and total new tool costs were reduced by **59%**. Overall, the customer achieved a total cost reduction of **29%**, generating annual savings of more than \$2,800.



Learn more
about the
142P

Total
Cost Savings
\$2,859

Tools Required
↓ 33%

Machining
Cycle Time
↓ 20%

New
Tool Cost
↓ 59%

Tools	Cutting Dia. (DC)	RPM	SFM	IPM	IPR	Axial Depth (AP)	Coolant
SGS Hi-PerCarb 142P (2-Flute)	0.3125"	2450	201	24.50	0.0100	1.2500"	Flood
Competitor (2-Flute)	0.3125"	2200	180	19.80	0.0090	1.2500"	Flood

Tools Required

↓ 33%

Machining
Cycle Time

↓ 20%

New Tool Cost

↓ 59%

