



Hi-PerCarb 143M-S

Series 143

Material
Cast Iron - Ni-Resist

Part Type
Turbo Housing

SGS Product
6.80mm Dia, 136 Degree Point, Solid Carbide Drill

Competitor Product
0.2677" Dia. 1 Flute Drill

Application
Drilling

- SGS Tool Information**
- 0.2677" Cutting Dia.
 - 1.6929" Usable Length
 - 2.0866" Flute Length
 - AlTiN (Ti-NAMITE-A) Coating
 - EDP: [69261](#)

Goal

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

Strategy

The 143M-S delivered double the tool life while reducing overall tooling cost, providing a clear performance and value advantage. The customer was highly satisfied with the results and is moving forward with full production implementation.

Result

The implementation of the Series 143 M-S resulted in a **54%** reduction in the number of tools required. Tool change costs decreased by **54%**, and new tool costs were reduced by **80%**. Overall, the customer achieved a total cost reduction of **16%**, generating annual savings of more than \$26,000.



Learn more about the **143M-S**

Total Cost Savings
\$26,653

Tools Required
↓ 54%

Tool Change Cost
↓ 54%

New Tool Cost
↓ 80%

Tools	Cutting Dia. (DC)	RPM	SFM	IPM	IPR	Radial Depth (AE)	Axial Depth (AP)	Coolant
SGS Hi-PerCarb 143M-S (1-Flute)	0.2677"	2000	140	12.00	0.0060	0.2677"	1.0000"	Coolant Through
Competitor (1-Flute)	0.2677"	2000	140	12.00	0.0060	0.2677"	1.0000"	Coolant Through

Tools Required

↓ 54%

Tool Change Cost

↓ 54%

New Tool Cost

↓ 80%

