



## Hi-PerCarb 143M-S

### Series 143

**Material**

Cast Iron - Ni-Resist

**Application**

Drilling

**Part Type**

Turbo Housing

**SGS Tool Information**

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

**SGS Product**

6.80mm Dia, 136 Degree Point, Solid Carbide Drill

**Competitor Product**

0.2677" Dia. 1 Flute Drill

**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.



Learn more about the  
143M-S

Total Cost Savings  
**\$26,653**

Tools Required  
**54%**

Tool Change Cost  
**54%**

New Tool Cost  
**80%**

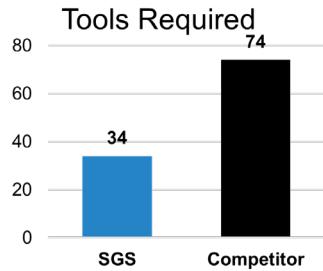
**Result**

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.

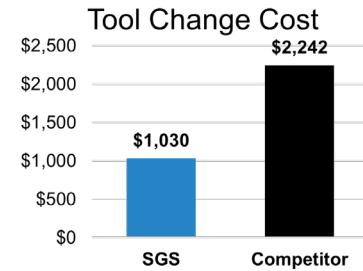
Tools	Cutting Dia. (DC)	RPM	SFM	IPM	IPR	Radial Depth (AE)	Axial Depth (AP)	Coolant
SGS Hi-PerCarb 143M-S (1-Flute)	0.2677"	2000	140	12.00	0.0060	0.2677"	1.0000"	Coolant Through
Competitor (1-Flute)	0.2677"	2000	140	12.00	0.0060	0.2677"	1.0000"	Coolant Through

**Tools Required**

**54%**


**Tool Change Cost**

**54%**


**New Tool Cost**

**80%**

