



Series 103

Material
Aluminum Alloy - 6061

Part Type
Mold

SGS Product
#19, 150 Degree Point,
Solid Carbide Drill

Competitor Product
0.1660" Dia. 1 Flute Drill

Application
Drilling

SGS Tool Information

- 0.1660" Cutting Dia.
- 1.2969" Usable Length
- 1.6250" Flute Length
- Bright/Uncoated Coating
- EDP: [53019](#)

Goal

Due to a production volume increase, this manufacturer was interested in an drill capable of reducing cycle time.

Strategy

Upon recommendation of the Series 103 General Application Drill, the customer reduced cycle time in half by operating at higher surface speeds and eliminating the need for peck drilling.



Learn more
about the
Series 103

Result

The implementation of the Series 103 resulted in a **50%** reduction in required cycle time. Total cost per part were reduced by **50%**, and total machining costs were reduced by **50%**. Overall, the customer achieved a total cost reduction of **50%**, generating annual savings of more than \$16,000.

Total
Cost Savings
\$16,638

Machining
Cycle Time
↓ 50%

Total
Cost Per Part
↓ 50%

Total
Machining Cost
↓ 50%

Tools	Cutting Dia. (DC)	RPM	SFM	IPM	IPR	Axial Depth (AP)	Coolant
Series 103 (1-Flute)	0.1660"	11276	490	51.87	0.0046	0.7500"	Flood
Competitor (1-Flute)	0.1660"	5753	250	23.01	0.0040	0.7500"	Flood

Machining Cycle Time

↓ 50%

Total Cost Per Part

↓ 50%

Total Machining Cost

↓ 50%

