


Demonstration of the



Specs

Machine Tool: Haas VF2 SS 

Workpiece: 4140 PHT Steel

Original Parameters

- Depth of cut: 0.750"
- Stepover: 0.040"
- Feed rate: 193.3 ipm
- Spindle Speed: 8,000 rpm
- Metal Removal Rate (MRR): 5.80 in³/min

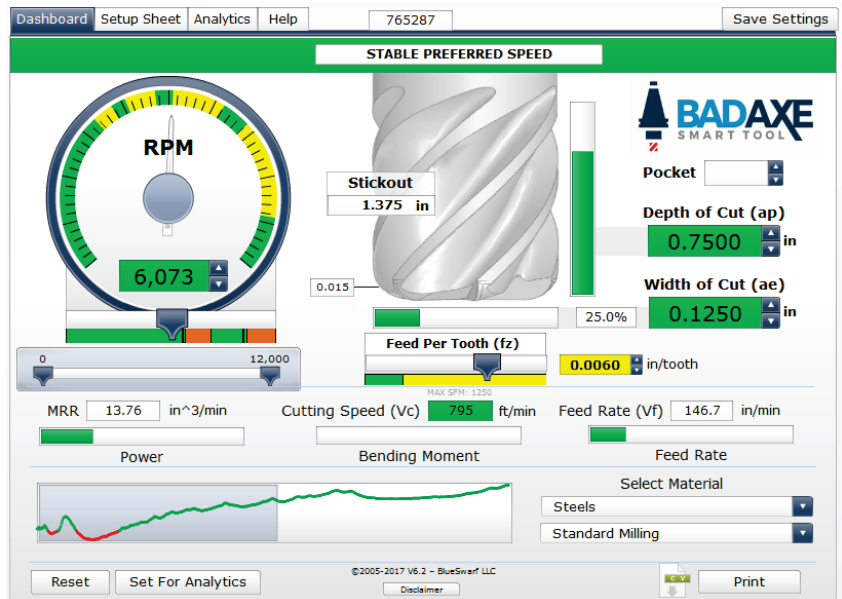
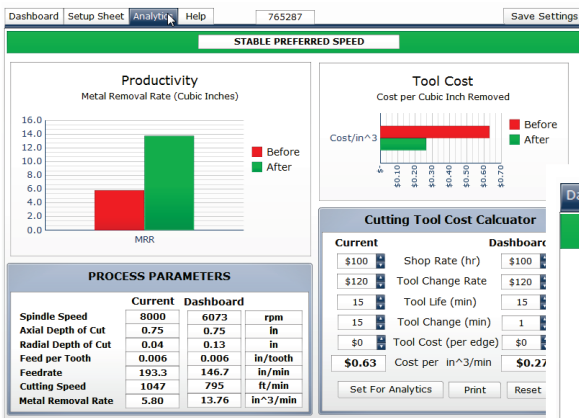
Optimized Parameters with the BadAxe Smart Tool

- Depth of cut: 0.750"
- Stepover: 0.125"
- Feed rate: 146.7 ipm
- Spindle Speed: 6,073 rpm

Metal Removal Rate (MRR): 13.76 in³/min
More than 2x performance increase

With these added benefits:

- Maximized cutting tool life (\$)
- Minimized equipment wear (\$)
- Elimination of trial-and-error setup (\$)
- Improved surface finish



- Spindle Speed: 12,000 rpm
- Estimated MRR: 27.18 in³/min**
More than 4.5x performance increase*

***material size prevented table to accelerate to full speed ... ran too well !!**



For more information contact: sales@badaxetool.com