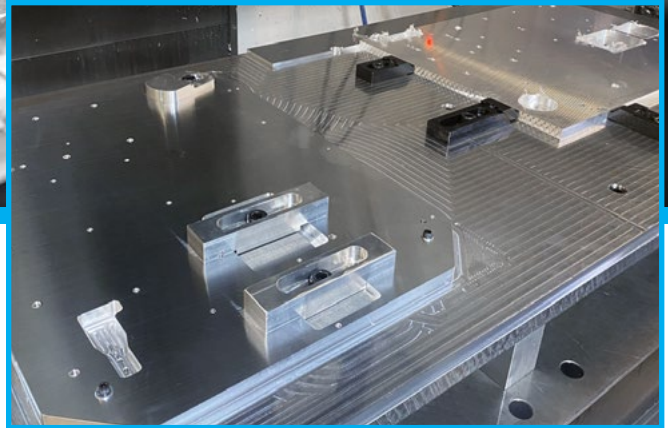




A BRAND AE-VTS-N



SNAPSHOT

BACKGROUND

An OSG customer was using a conventional aluminum end mill and was looking to significantly reduce their cycle times.

GOALS

The main customer goal was to reduce cycle times and improve their throughput.

DETAILS

INDUSTRY

Job Shop

PART

Base Plate

MATERIAL

6061 Aluminum

MACHINE

HAAS VF-1

ORIGINAL TOOLING

Conventional Aluminum End Mill
0.5" | 3 Flute | Bright

NEW TOOLING

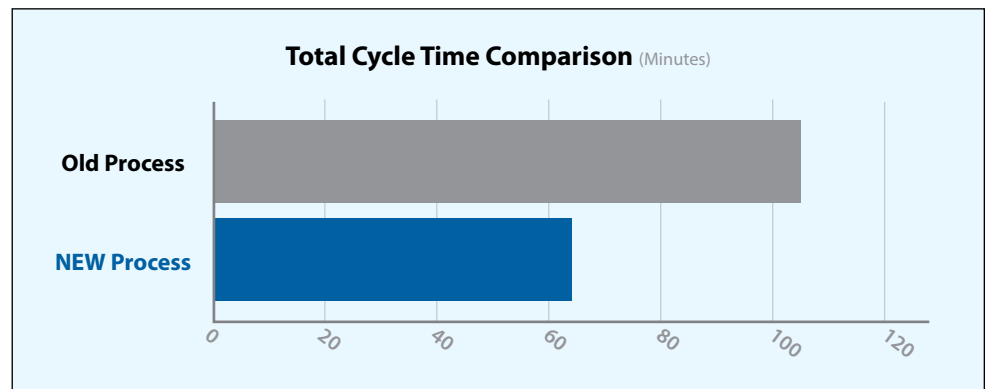
A Brand AE-VTS-N
0.5" | 3 Flute | DLC

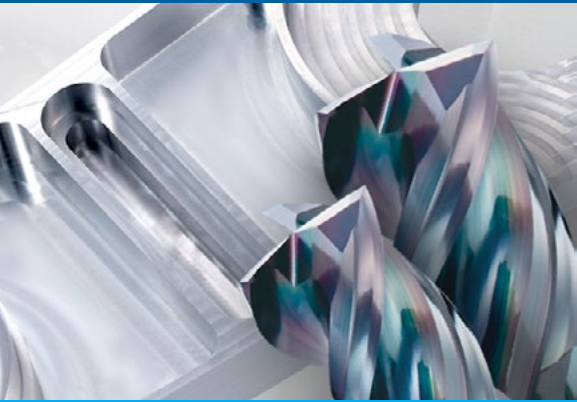
NEARLY \$17,000 ANNUAL SAVINGS!

THE STRATEGY

Since the customer was specifically focused on increased productivity, OSG felt that the A Brand AE-VTS-N was the perfect tool for the job. This tool was developed for manufacturers looking to improve their performance in aluminum milling. The tools combined state-of-the-art cutting geometry and DLC-IGUSS coating results in a tool that can excel under more aggressive milling conditions.

	Original Process	NEW Process
Tool Diameter (Inch)	0.5"	0.5"
Cutting Speed (RPM • SFM)	10,000 • 1,310	10,000 • 1,310
Feed (IPM • IPT)	120 • 0.004	195 • 0.0065
Depth of Cut (Aa • Ar)	0.5" • 0.5"	0.5" • 0.5"
Metal Removal Rate	30.00 in ³ min	48.75 in³ min
Cycle Time (Minutes)	104.17	64.10
Tool Life (# of Parts)	25	50





THE RESULTS

After testing the AE-VTS-N versus the conventional product, the customer was able to achieve the following results.

- Feed rate was increased from **120 IPM to 195 IPM**.
- Cycle Time was reduced from **104.17 min to 64.1 min**.
- Number of parts per tool was increased from **25 to 50**.

Results Overview	
Cycle Time Saved Per Part (Minutes)	40.06
Number of Parts Per Year	500
Annual Cycle Time Saved (Minutes)	20,032
Annual Machine Cost Savings	\$16,693
Tool Life Improvement (Parts)	100%
Annual Tool Change Cost Savings	\$83.33
Total Machining Cost Saved Annually	\$16,925

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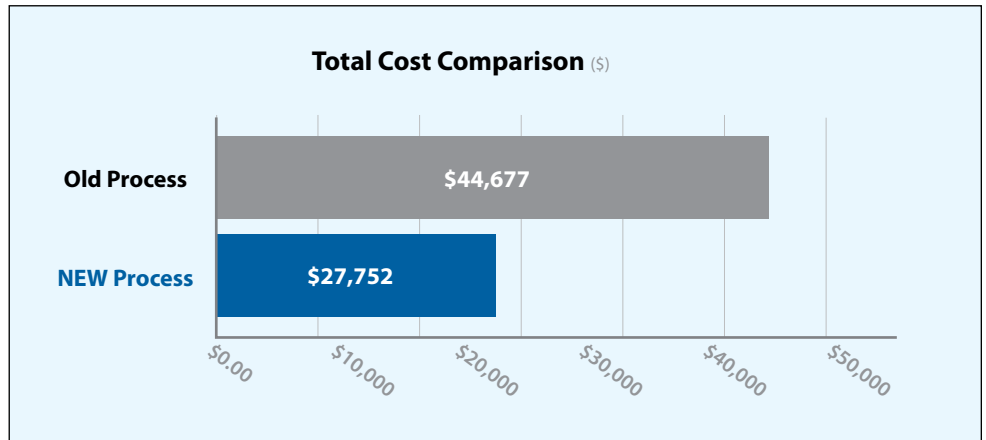
Conventional Aluminum End Mill
0.5" | 3 Flute | Bright

NEW TOOLING

A Brand AE-VTS-N
0.5" | 3 Flute | DLC

THE CONCLUSION

The customer's goal of reducing cycle time was achieved. Switching from the conventional product to the AE-VTS-N led to a cycle time savings of 335 hours per year. This combined with the increase in tool life led to a total cost savings of nearly \$17,000 per year!



NEARLY \$17,000 ANNUAL SAVINGS!



FIND OUT MORE

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osgtool.com/ae-vts-n

