Bermont Gage & Automation Gains 50-60% Programming Efficiency with Tebis

Situation

Bermont Gage & Automation is a precision machining company, specializing in high-mix, custom parts with tight tolerances and unusual geometries. Programmers routinely create six to seven new-part programs per day, making efficiency, consistency, and reliability essential to maintaining margins and meeting customer timelines.

Before Tebis, programmers often had to create separate toolpaths for individual features, build supporting geometry, and spend significant time troubleshooting cutter paths. The result was inconsistent output, machining disruptions, and lost programming time.

Bermont's investment in Tebis was supported, in part, by a State of Michigan manufacturing grant. Flexible subscription and perpetual licensing options also aligned with the company's business objectives. The decision was further reinforced by Bermont's shop floor supervisor, who had previous experience with Tebis and was impressed by its advances in automation and parametric programming.





Solution

Bermont Gage purchased Tebis in December 2025 and began full implementation in early February. The team initially focused on building a strong foundation of tool libraries, collision parameters, templates, and automation logic, working closely with Tebis America's support team.

Key improvements included:

- **Feature-based automation** for hole making and repetitive prismatic features, replacing operator-dependent methods with standardized strategies.
- **High-quality cutter paths and machine-accurate posts**, providing more predictable machine behavior.

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SOLUTION *continued*

- **Digital collision checking and simulation,** increasing confidence that programs will run safely before reaching the machine.
- **A unified CAD/CAM environment,** reducing manual CAD work and the need for secondary tools.
- **Knowledge capture and standardization,** preserving experienced programmers' expertise and transferring proven strategies to new employees.

RESULTS

Since implementing Tebis, Bermont Gage has achieved an estimated 50–60% increase in programming efficiency, with projected labor savings expected to recover the initial investment in approximately 18 months.

Additional benefits include greater shop-floor confidence, standardized machining quality, reduced rework and fewer crashes, and more competitive quoting based on lower programming-time assumptions. The team also achieved immediate success programming complex parts involving unusual pipe taps, mixed geometries, and intricate hole types.

CONCLUSION

Tebis has created a more efficient, predictable, and scalable programming environment for Bermont Gage. Automation, reliable toolpaths, accurate simulation, and standardized machining knowledge are enabling the company to confidently pursue increasingly complex work.

Bermont is now positioned to expand into areas such as defense industry part production and mold machining. Opportunities that were previously considered too risky because of software limitations. Tebis has become an important part of the company's strategy to improve margins, maintain consistent quality, and support future growth.