

A DYNAMIC USER INTERFACE simulates the part being machined and displays tool position with corresponding forces, power consumption, and more.

PRODUCTION MODULE 5.9

Production Module is NC program optimization software integrating physics-based material models, CAD/CAM inputs, tooling and workpiece geometries, and machine dynamics. By predicting and displaying performance indicators not attainable from trial-and-error tests, the technology empowers users to make better informed decisions on tooling and toolpath strategies, creating processes that machine dramatically faster while improving tool life and part quality.

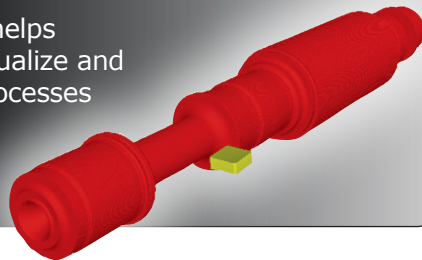
New in Version 5.9

- » User defined tool profiles for complex tools (3D)
- » Optimization settings archiving for easy process replication (3D)
- » Feedback system for better detection of errors and unsupported commands (2D)
- » Split setup windows to better match 3D workflow (2D)
- » Force calculation and optimization speed-ups (2D)
- » APT code support (2D)
- » Multiple tool offset definition (2D)

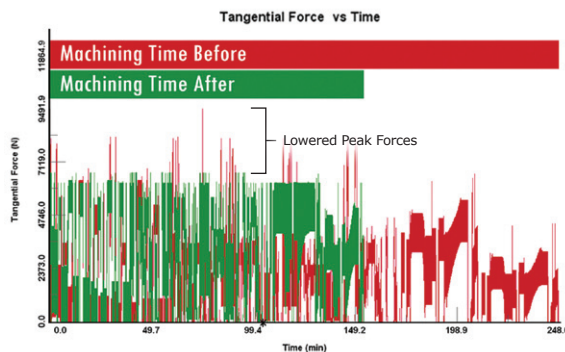
Benefits

- » Reduced cycle times
- » Maximized machine utilization
- » Improved tool life
- » Increased productivity

MACHINING SIMULATION helps Production Module users to visualize and understand their machining processes to avoid problem areas and identify opportunities for improvement.



NC PROGRAM OPTIMIZATION is one of the unique and cost-saving features found in Production Module. With the click of a button users can balance tool loads, reduce cycle time and peak forces, and maximize machine usage. An additional option to split command blocks into smaller lines of code means more cycle time savings, especially for pockets.



THIRD WAVE SYSTEMS

Production Module Product Specifications

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| Software and Minimum System Requirements | <ul style="list-style-type: none"> • 32-bit: Windows® 2000, Windows® XP, Windows® 7 • 64-bit: Windows® XP, Windows® 7 • 200 MB of disk space for installation; extra space required for each project • 3.0 GHz processor (3.8 GHz recommended) • 1 GB of RAM (2 GB recommended) |
| Processes | <ul style="list-style-type: none"> • Milling • Turning • Drilling |
| Inputs | <ul style="list-style-type: none"> • Machine tool characteristics • Cutting tool descriptions • Workpiece material and geometry • Toolpath |
| Features | <ul style="list-style-type: none"> • Library of 130+ workpiece material models • STL/STEP workpiece and tool import • MetalMAX™ data import • VERICUT® setup import • Siemens NX® interface • CATIA® interface |
| Outputs | <ul style="list-style-type: none"> • Optimized NC programs incorporating new feeds and speeds • Process data including cutting forces, temperatures, spindle power, tool engagements, stability analysis, etc. • Interactive plots highlighting the correlation between cutting loads and tool position within the toolpath |