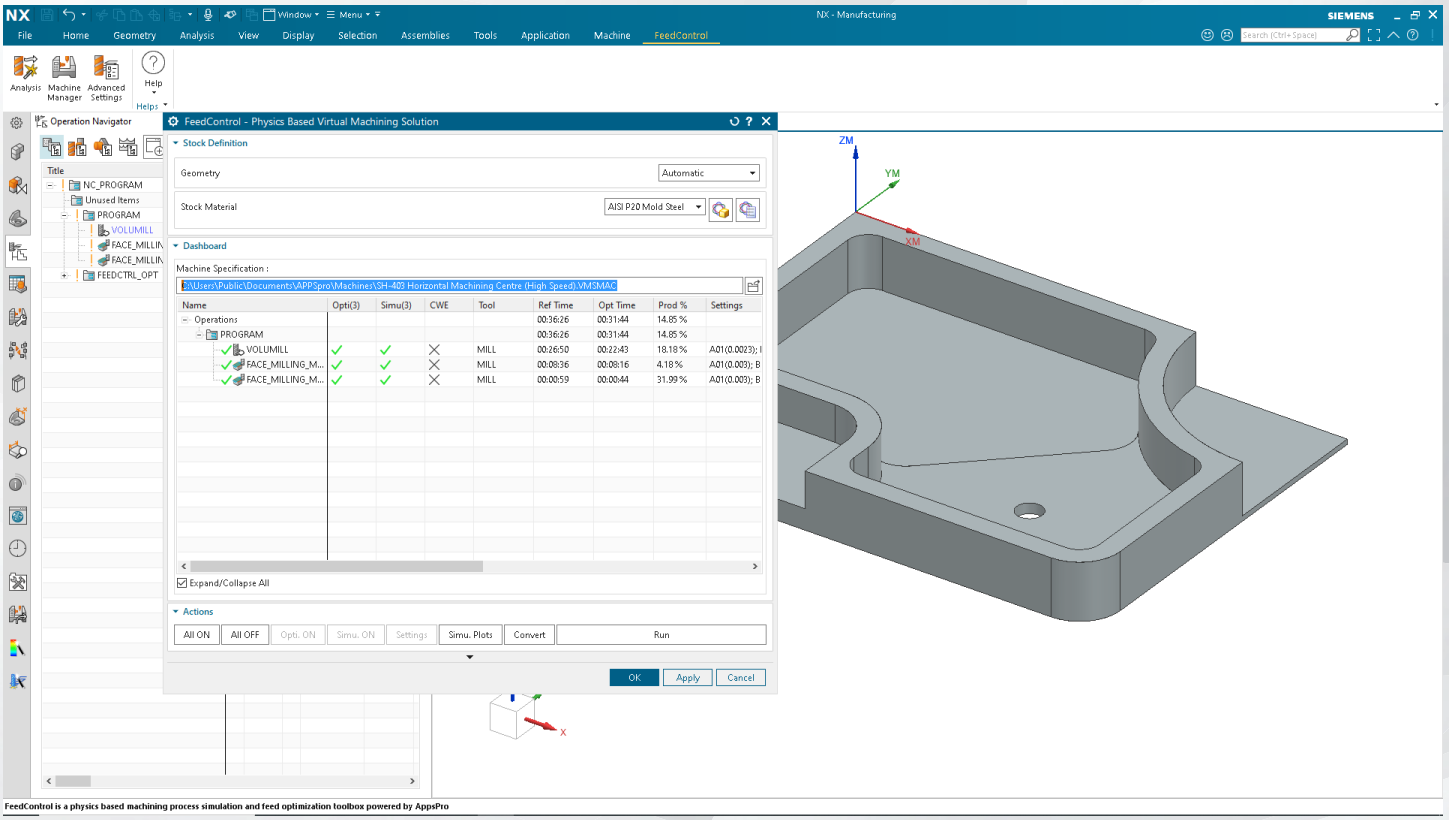
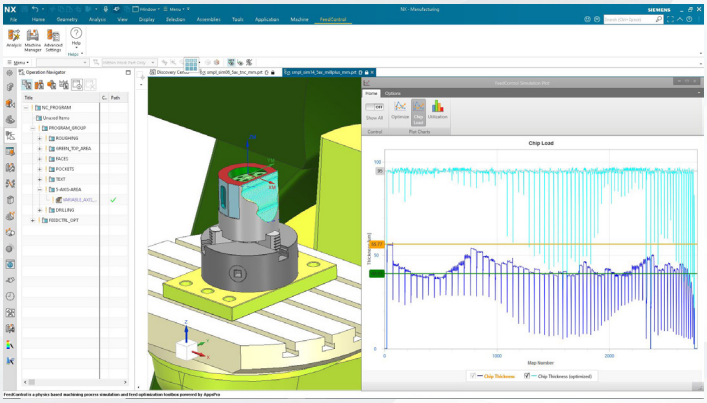
feedcontrol™ by celeritive™

Easily generate physics-based, high-efficiency toolpaths for roughing and finishing directly within Siemens NX CAM.





- » Maximize Machining Performance
- » Easy-To-Use
- » Seamless Integration
- » Local installation - No Cloud Risks
- » Maintain Your Digital Thread
- » Reduce Skills Gaps

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feedcontrol™ by celeritive™

What is FeedControl™?

FeedControl is a physics-based toolpath simulation and optimization application designed to make high-efficiency machining easy to accomplish. Users of FeedControl do not need to have any special skills outside of basic CAM programming knowledge and with only a few mouse clicks can produce highly effective enhancements to machine programs. FeedControl works with native NX CAM toolpaths as well as VoluMill toolpaths.

How it Works

FeedControl produces optimal machining efficiencies by uniquely leveraging job-specific information that includes part geometry, material science, machine-tool capabilities, and cutting-tool geometry. Using this information, FeedControl simulates, analyzes, and adjusts the entire machining operation using its unique physics-based process modeling engine. The results ensure proper cutting pressure throughout the entire machining operation – allowing machine tools and cutting tools to operate safely and at optimal efficiency as they were designed to

How Easy is it to Use with NX CAM?

FeedControl is tightly integrated with NX CAM and is used directly within the Siemens NX CAM environment. This eliminates the need to go outside of your current NX CAM environment, reducing potential security risks, while also facilitating the deployment and adoption of FeedControl within your existing programming workforce. Your original pre-optimized programs remain intact at all times while newly optimized programs are easily identified - all within NX CAM and maintaining your digital thread.

Workforce Benefits

Because FeedControl always ensures safe, predictable, and optimized machining operations, CAM programmers of varying experience can easily produce expert-level toolpaths with little or no disruption to their existing workflow. Because of this, the benefits of FeedControl can significantly aid in the overall productivity of all shops, and especially those that struggle with skills gaps related to programming experience.

Reliability and Predictability

Chip formation is the key to optimized machining performance. Program characteristics such as heat evacuation, tool load and defection, spindle load, workpiece hardening, and fixturing constraints are all significantly impacted by consistent chip formation. With nearly two-decades of material and machining science intelligence built into its engine, FeedControl is reliable and ensures that proper chip formation is always ideal to the current project on hand, and most importantly, chip formation is as consistent as possible throughout the entire machining operation.

Safe and Secure as it Should Be

Because FeedControl is locally installed on your machine or network, your data remains safe and never dependent on applications outside of your secure network. And, as an integrated solution inside of NX CAM, your digital thread requirements are never broken or at risk. FeedControl can be licensed per user or by network licensing, making the deployment simple, easy, and in line with your current licensing requirements.

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Unlock High-Efficiency Machining with Ease

FeedControl™ is a cutting-edge toolpath simulation and optimization application that empowers machinists to achieve unparalleled efficiency without requiring advanced expertise. Designed for seamless integration with NX CAM, FeedControl transforms machining programs with just a few clicks, enabling even less experienced CAM programmers to produce expert-level results.

Key Benefits:

Maximized Performance: FeedControl leverages a proprietary physics-based chip modeling engine, optimizing toolpaths by accounting for material properties, machine-tool capabilities, part geometry, and more. This ensures precise chip formation, safe operations, and peak machining efficiency.

Effortless Integration:

Operate FeedControl directly within the Siemens NX CAM environment, preserving your digital thread and eliminating workflow disruptions or external dependencies.

Workforce Empowerment:

Close skills gaps by enabling programmers of all experience levels to create optimized, reliable, and predictable machining operations, boosting productivity across your shop floor.

Data Security First:

With local installation and seamless NX CAM integration, FeedControl safeguards your data and aligns with your existing licensing and security protocols.

Why Choose FeedControl?

With nearly two decades of material and machining science expertise, FeedControl ensures consistent chip formation, enhancing tool life, reducing spindle wear, and maintaining ideal machining conditions. Whether you're scaling up operations or addressing programming challenges, FeedControl delivers safe, secure, and exceptional performance tailored to your specific machining needs.

Make the leap to smarter, safer, and more efficient machining today with FeedControl.

Contact Celeritive today for more information, or an online presentation.
Visit us online at https://www.volumill.com/contact-celeritive or call us at +1 888-253-6701

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