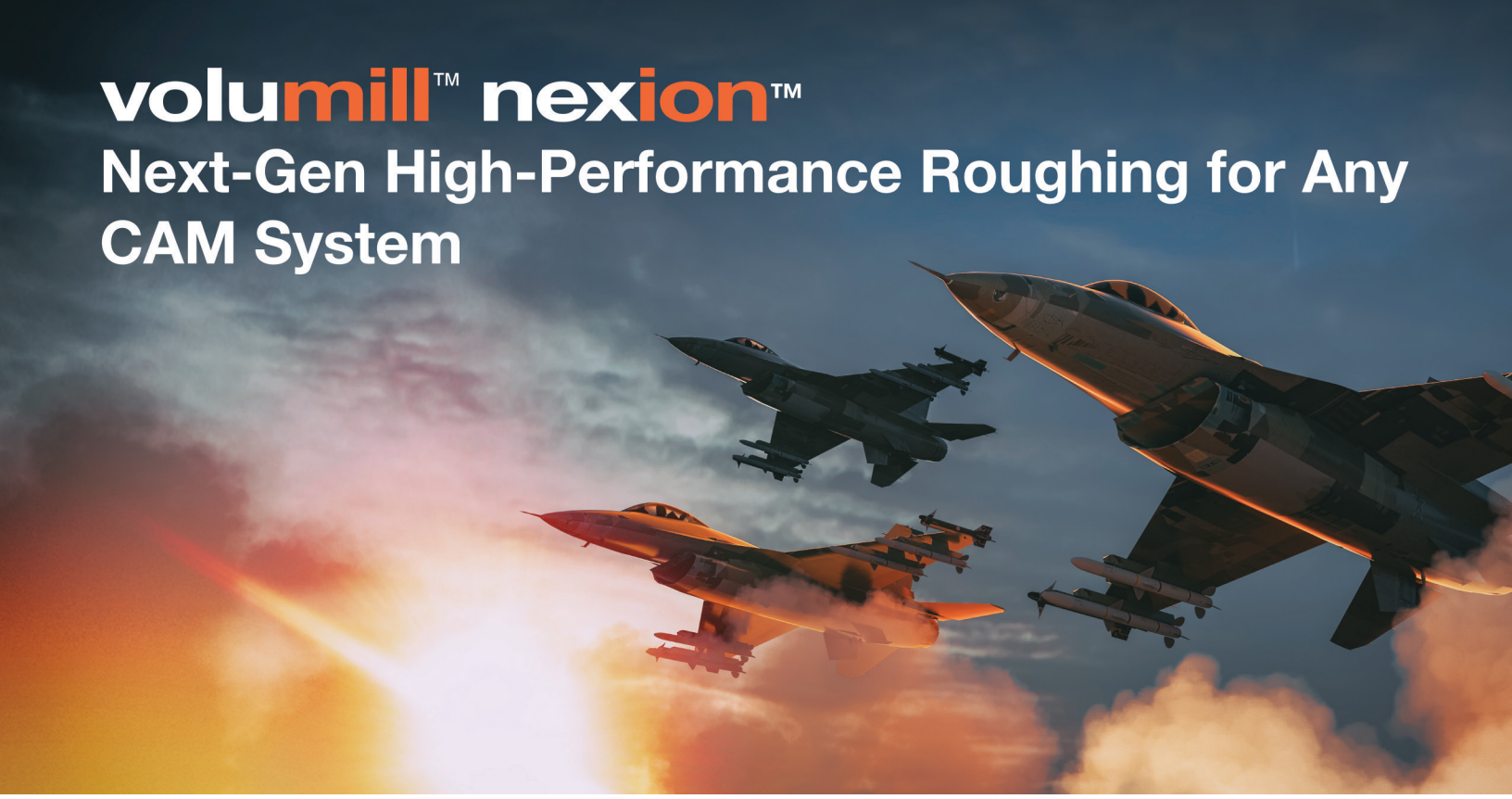
volumill™ nexion™

Next-Gen High-Performance Roughing for Any CAM System



Unlock Ultra-Efficient Material Removal

VoluMill NEXION™ builds on the proven VoluMill engine—introducing a complete overhaul of performance, usability, and workflow flexibility. Developed in response to user feedback, NEXION delivers advanced toolpath control, modern graphics, and platform independence—all while preserving the world-class roughing capabilities that manufacturers rely on.

Why Choose NEXION?

High-Speed, Continuous Cutting Motion

NEXION generates smooth, tangential toolpaths that eliminate abrupt changes in direction—reducing vibration, improving stability, and enabling consistently higher feedrates.

Physics-Based Roughing Intelligence

Automatically controls chip thickness and cutting load, ensuring consistent material removal, lower heat generation, and extended tool life.

Platform-Independent Integration

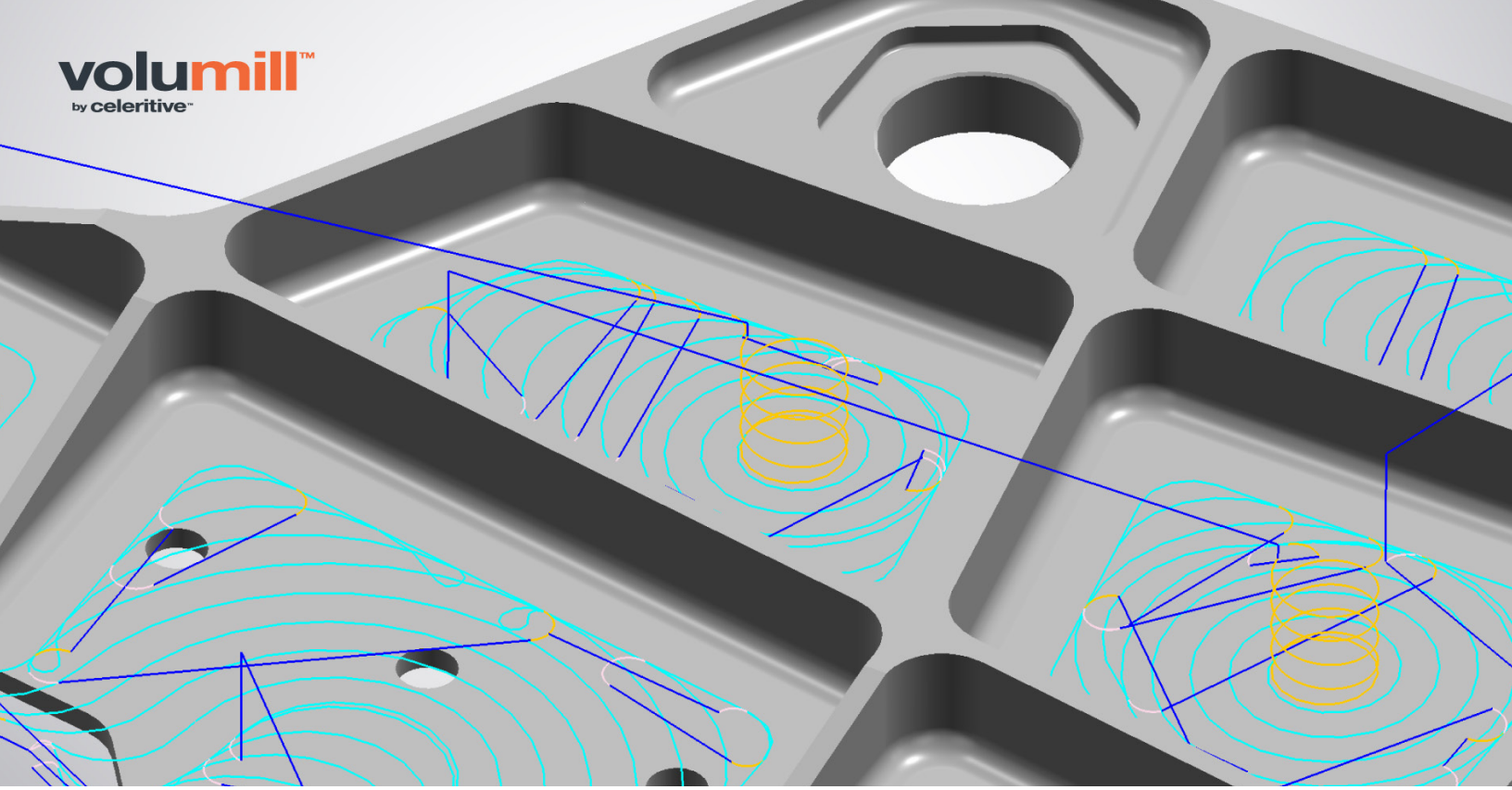
Use NEXION as a standalone solution or integrate it with virtually any CAD/CAM platform—including seamless compatibility with CATIA™ and other leading systems.

Exceptional Machining and Tooling Performance

Achieve dramatic efficiency gains:

- Up to 80% reduction in cycle time
- Up to 800% increase in tool life
- Up to 60% lower energy use per cubic inch of material removed

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Designed for Real Parts, Real Materials

All Geometries, Every Industry

From aerospace airframes and automotive molds to medical implants and heavy machinery, VoluMill NEXION handles complex prismatic and freeform shapes with ease.

All Materials

Efficient on aluminum, steels, and difficult-to-machine exotics like titanium, Inconel, and hardened stainless steels—while maintaining ideal tool engagement.

Next-Level Interface & Power

Redesigned Toolpath Manager & UI

Intuitive, modern, and 64-bit optimized with enhanced graphics and usability.

Real-Time Verification & Layer Control

Analyze toolpaths and manage multi-step jobs with greater visibility and control.

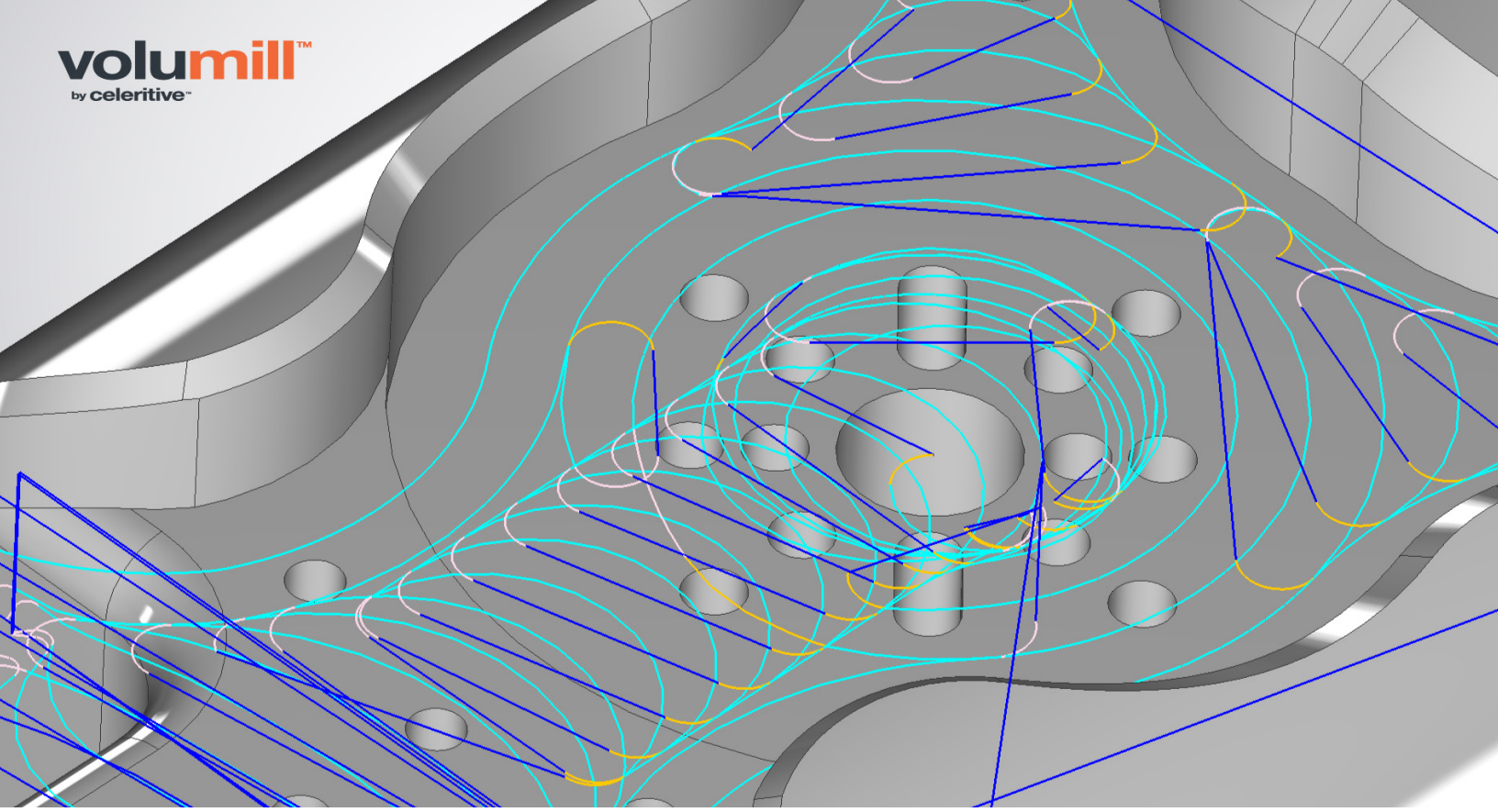
Smarter Rest-Milling & Geometry Handling

Detects remaining stock automatically and improves chaining of geometry.

STEP Assembly Support & Previews

Navigate setups with ease using full assembly views and visual thumbnails.

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Built for Efficiency, Made for Ease

Few Clicks vs. Expert Guesswork

Setup is simple: choose your tool, material, geometry, and let NEXION optimize the strategy.

Fast Learning Curve

Most users are up and running within hours, cutting programming and machine time by 50%.

Machine-Friendly Toolpaths

Enables faster machining even on older machines—reducing stress and deferring capital upgrades.

Flexible Licensing for Every Size Shop

Designed for scalability, VoluMill NEXION licensing supports everything from individual users to enterprise-wide deployments, with options for floating, node-locked, and user-based annual plans.

VoluMill - Because it Works...

VoluMill's constant material removal rates enable machine tools and cutting tools to operate under ideal milling conditions throughout, regardless of a part's shape or complexity. Rough milling performance is significantly increased in all materials, from aluminum, to titanium, to exotics.

Experience a better way to rough—faster, cooler, cleaner, and easier.

Generating science-based toolpaths with VoluMill is fast and simple. There are minimal mouse clicks required, and very few decisions to make, yet you remain in full control. Whether you want to rough an entire part with a single toolpath, or you need to follow a precise material removal plan, VoluMill works with you to get your job done quickly and reliably.

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