

THE ICAM POST “SMART” MODULES REDUCE PROGRAMMING TIME & EFFORT ALONG WITH MACHINING TIME TO INCREASE PRODUCTIVITY.

Icam Post: Adaptive Post-Processing

 Vericut

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SmartPATH

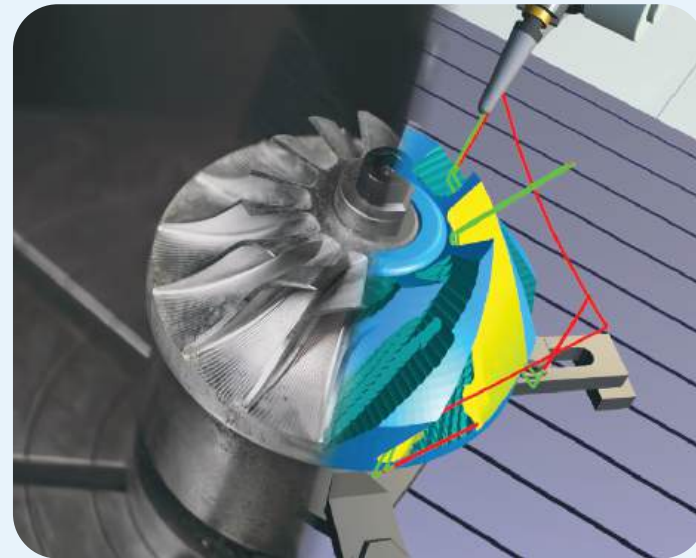
Positioning tool-path optimization

Optimize rapid positioning tool-path motions generated by CAD/CAM systems and allow existing programs to be quickly re-posted for another machine with no changes to the CAM toolpaths.

SmartPATH safely and automatically optimizes tool-paths.

Generate new optimized and efficient positioning tool-paths while avoiding over-travel and collisions.

Eliminate your time-consuming dependency on inefficient and unsafe RAPID or high-feed positioning motions generated by CAM systems.

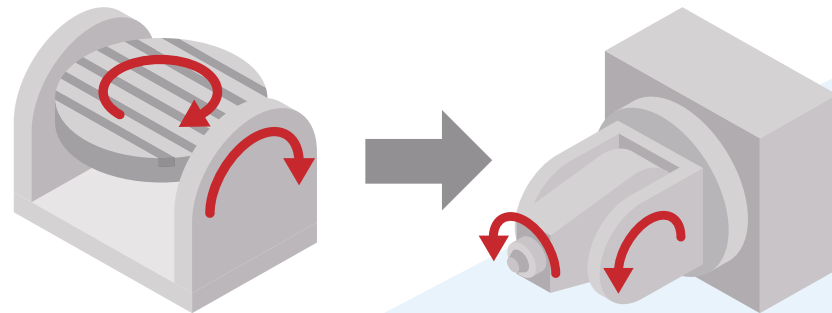


MIGRATE

with SmartPATH

Is your target machine busy or down for maintenance?

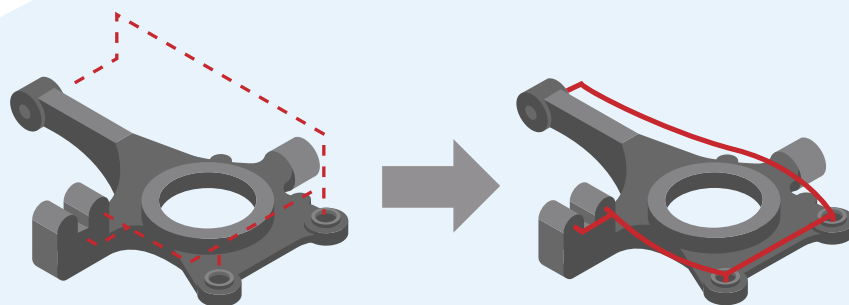
Easily migrate your part program between CNC machines with completely different kinematics.



OPTIMIZE

with SmartPATH

Cut down on machining time by automatically finding the optimal path to move the tool quickly and safely from one positioning move to another, respecting the specific machine kinematics, travel limits and physical constraints.



MAXIMIZE

Machine work envelopes

Make the most out of every inch of your work envelopes by automatically eliminating any over-travel issues, even during multi-axis positioning motions.

REDUCE

Programming & cycle time

Eliminate the repetitive process of trial and error used to adjust and verify multi-axis positioning motions in your CAM environment while making these motions more efficient.

ELIMINATE

Tool collisions & over-travel

Get accurate, collision-free path optimization based on the actual machine tool kinematics, dynamically changing in-process stock, workpiece, fixtures, and machining environment.

2

SmartCUT

Automatic air-cut elimination

Increase machining productivity by eliminating unnecessary air-cutting feed-rate motions.

SmartCUT eliminates air cutting and micro-collisions.

Drastically reduce your machine cycle time by detecting air-cuts in your program and replacing them with RAPID or high-feed motions.

Identify micro-collisions caused by RAPID motions coming into contact with in-process stock and avoid them by switching to a cutting feed-rate.



COMBINE With SmartPATH

Get even more optimized code by using SmartCUT with SmartPATH, detecting the start point and end points of air-cut segments and computing the fastest path to the start of the next cut.

SMARTER Tool-Paths

SmartPATH takes into account the current state of the inprocess stock as well as part, fixtures and machine components when computing the shortest path to the start of the cut.

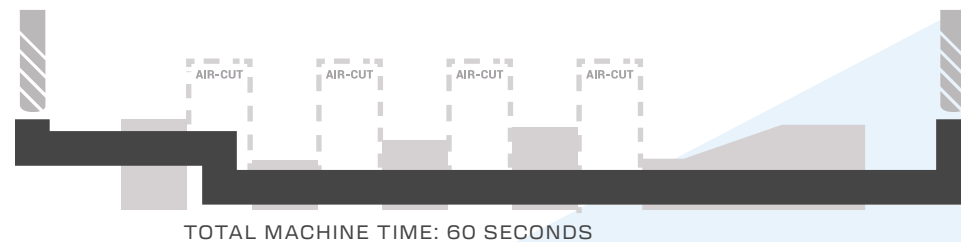
FINE TUNING Settings

Adjust to suit your needs by ignoring air-cuts less than a specified length, enforcing a minimum safe distance on positioning motions, and defining minimum safe positioning approach and exit distances.

WITHOUT

SmartCUT & SmartPATH

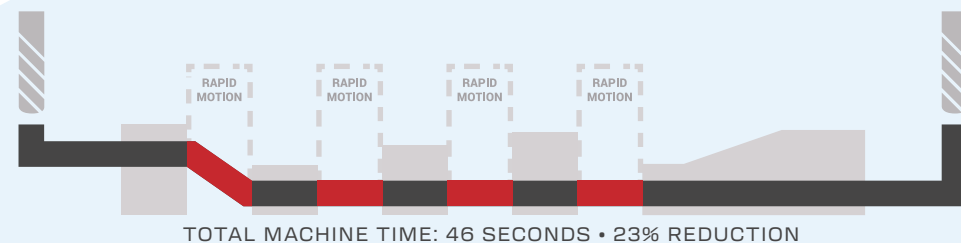
One constant cutting feed-rate



WITH

SmartCUT & SmartPATH

Automatic switching between cutting & RAPID feed-rates

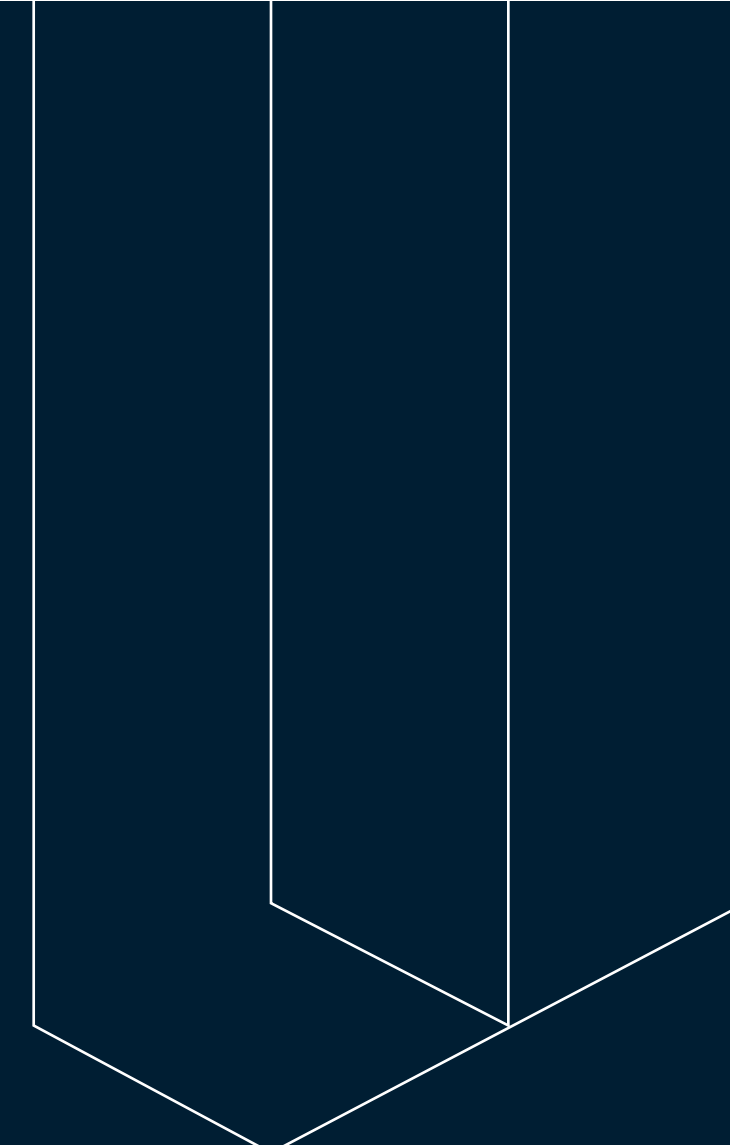




Ready to unleash machining productivity?

Speak to our team today to request a free Icam Post demonstration.

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System requirements are subject to change.
See the Vericut website for the most up-to-date product information and system requirements.
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