

Maya HTT

# Physics-Driven Machining Optimization & Modernization



manufacturing  
automation  
laboratories

## Your roadmap

### NPRO Plugin

Are full-scale enterprise solutions currently out of reach?

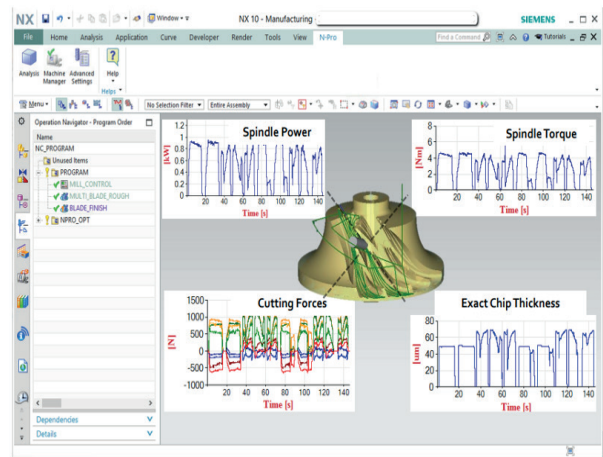
Machining optimization is not all or nothing. Take the path toward increased productivity with this first-stage solution.

Start with the NPRO Plugin benefits:

- Easily increase in productivity by 20%
- Get up and running with only a couple of hours in training
- See immediate process improvements

See immediate process improvements with machining simulation sized for your needs.

Take the first step with NPRO, an easy-to-use solution with attainable benefits.



**Maya HTT** Better thinking  
Better future.®

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Simulate → Informed Decision → Optimize

## Phased Deployment

Productivity improvement at each stage

### Process simulation & optimization



#### NPRO

Advanced physics-based process simulation and NC program optimization plugin for NX

### Chatter detection & avoidance



#### SHOPPRO

Chatter avoidance for high speed and high performance machining within minutes



#### MACHPRO

Visualization and simulation of real-world performance of machining



#### CUTPRO

Manufacturing parts correctly at the very first trial with reduced production costs

## Current state

- Process largely driven by institutional knowledge and previous success



## Objective

- Deep understanding of machining physics
- Identify process issues before a program ever makes it to the machine

- Reliance on generic cutting parameters from cutting tool supplier



- Increase productivity by confidently operating closer to process potential

- Immediate feedback on overly aggressive parameters but not on excessive cycle time



- Increase tool and spindle life by avoiding chatter and force spikes

## NPRO reduces cycle times

- Direct NX / Solid Edge CAM plugin
- Intuitive UI
- Minimal training needed
- Easy-to-use powerful tool
- Introduction to machining simulation
- Immediate process improvements

BLISK (Ti6Al4V)	Improvement
Roughing – Stage 1	↑ 19%
Roughing – Stage 2	↑ 22%
Roughing – Stage 3	↑ 18%
Semi Finishing (Blade)	↑ 58%
Overall Productivity Improvement	↑ 31%

**Request an evaluation license today!**

## About Maya HTT

Maya HTT is an industry-leading software developer and engineering solutions provider focused on CAE, CAD, CAM and PLM. Maya HTT collaborates in providing software, AI, and engineering services to help clients and partners worldwide boost performance, improve quality, drive down costs, reduce inefficiencies, and harness the value of their data.

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