

Creo High-Speed Milling Extensions

For your specialty milling needs

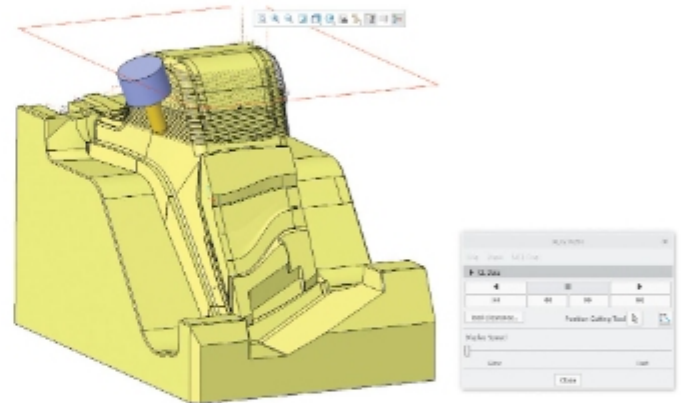
To help to reduce milling times and tool wear in complex 3- and 5-Axis Machining operations, we've introduced the Creo High-Speed Milling Extensions. These extensions are applicable for a wide-range of production parts as well as molds, tools, electrodes and dies. The Creo High-Speed Milling Advanced extension produces 5-Axis toolpaths, perfectly complementing other Creo Machining Extensions. The 5-Axis simultaneous toolpaths can work on full B-REP geometry or on faceted features.

Creo High-Speed Milling (HSM) extension gives you powerful 3-Axis, numerically controlled (NC) milling capabilities – all in the Creo environment. And the Creo High-Speed Milling Advanced (HSM Advanced) extension simplifies programming of 5-Axis High-speed milling tool paths. When you change your design or tooling, the NC toolpaths change as well. Creo HSM is powered by ModuleWorks and optimized for mold, die, electrode, prototype, and full production part milling.

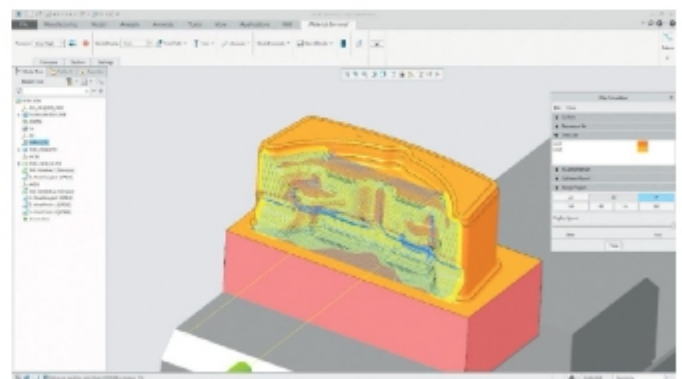
Creo HSM offers you significant benefits: increased efficiency; improved quality of manufactured products, reduced cost for development and manufacturing, and increased customer satisfaction.

Benefits

- Improves product quality and manufacturing consistency by generating toolpaths directly on solid and tessellated models
- Part of an integral CAD/CAM solution – no data translation required
- Reduces time-to-market via associative toolpath updates to design changes



High-speed milling roughing sequence, multi-threaded for fast computation



Material removal simulation of High-Speed Milling sequences

Powered by  **ModuleWorks**

Description	Prismatic & Multi-Surface Milling	Production Machining	Complete Machining	High-Speed Milling	High-Speed Milling Advanced
2.5-Axis Feature based Machining	•	•	•		
3-Axis Milling	•	•	•		
3-Axis High-Speed Milling (HSM) Roughing, Rest Roughing, Finish and Rest Finish				•	•
5-Axis High-Speed Milling (HSM) Roughing and Rest Roughing, including automatic 3+2-Axis Roughing and Rest Roughing					•
3- to 5-Axis High-Speed Milling Conversion for Finish and Rest Finish toolpaths					•
5-Axis Auto Deburring					•
4-Axis Rotary Roughing and Finishing					•
4/5-Axis Positioning Milling	•	•	•		
Basic Holemaking	•	•	•	•	
Comprehensive Holemaking			•		•
3-Axis Trajectory	•	•	•	•	•
2-4-Axis Turning		•	•		
2-4-Axis Wire EDM		•	•		
Live Tooling for Turning (Mill/Turn)			•		
5-Axis Continuous Milling, including 5-Axis Trajectory			•		
Multi-task machining synchronization			•		
Dynamic tool axis definition in Turning			•		
Extraction of Manufacturing Annotation Features	•	•	•	•	•
Tool and Fixture Library	•	•	•	•	•
Manufacturing Process Documentation Pro/PROCESS for Manufacturing	•	•	•		
GPOST: NC Post-Processor Generator	•	•	•	•	•
ModuleWorks-based material removal simulation	•	•	•	•	•
Wall 5-Axis Finish and Floor 5-Axis Finish toolpaths (in which barrel tools are supported)					•

The Creo Advantage

Creo is the 3D CAD solution that helps you accelerate product innovation to build better products faster. Easy-to-learn Creo uses a model-based approach to seamlessly take you from the earliest phases of product design to manufacturing and beyond. Combining powerful, proven functionality with new technologies including generative design, real-time simulation, advanced manufacturing, IIoT and augmented reality, Creo helps you iterate faster, reduce costs and improve product quality. Creo is also available as a SaaS product, providing innovative cloud-based tools for real-time collaboration and streamlined license management and deployment. The world of product development moves quickly, and only Creo delivers the transformative tools you need to build competitive advantage and gain market share.

Please visit the [PTC support page](#) for the most up-to-date platform support and system requirements.

For more information, visit: [PTC.com/product/creo](https://www.ptc.com/product/creo) or contact your local sales representative.

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