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 Plus 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.
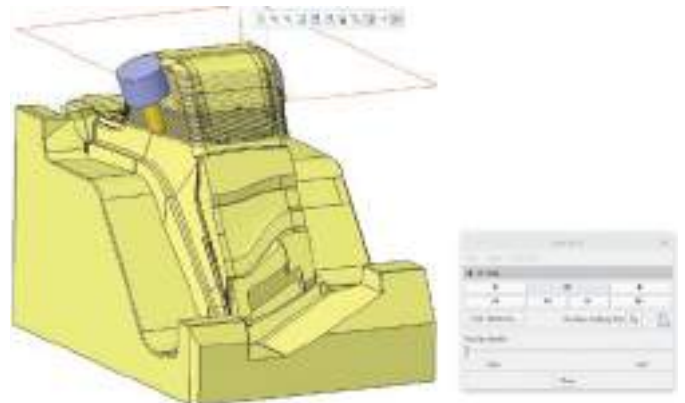
Creo High-Speed Milling (HSM) extension gives you powerful 3-axis, numerically controlled (NC) milling capabilities – all in the Creo environment. And the Creo High-Speed Milling Plus (HSM Plus) extension simplifies programming of 5-axis high-speed milling tool paths. When you change your design or tooling, 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.
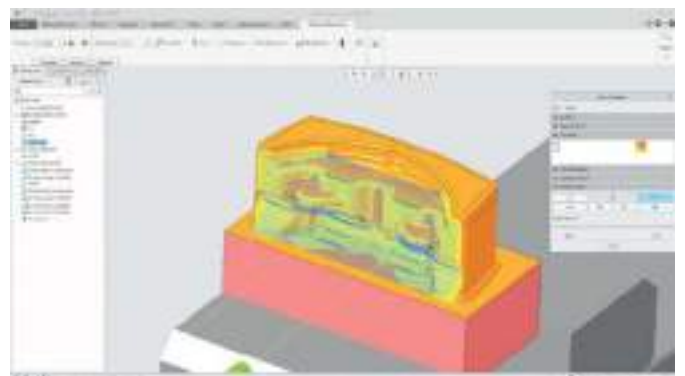
Benefits

- 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

Powered by ModuleWorks

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

Material removal simulation of High-Speed Milling sequences

Description	Prismatic & Multi-Surface Milling	Production Machining	Complete Machining	High Speed Milling	High Speed Milling Plus
2 ½ 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					•
4/5-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	•	•	•	•	•

The Creo Advantage

Creo is the 3D CAD solution that helps you accelerate product innovation so you can build better products faster. Easy-to-learn Creo seamlessly takes you from the earliest phases of product design to manufacturing and beyond. You can combine powerful, proven functionality with new technologies such as generative design, augmented reality, real-time simulation, additive manufacturing and the IoT, to iterate faster, reduce costs and improve product quality. 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 or contact your local sales representative.