Fact Sheet: 5D Pro - Advanced 5 axis Milling Module for High Quality Machining

Key Benefits
- State of the Art Technology
- Proven in day-to-day use with 10,000’s of Customers
- Reduced Time to Market
- Cost effective to implement

Basics
- Tool Types – sphere, bull, endmill, taper, lollipop
- Holders – Flute, Shaft, Arbor, Holder
- Input – Solid/STL Mesh, NURB Surfaces, DXF-Style Boundary Data

Machining Highlights
- NURB Surfaces, STL Mesh
- Multi-Pass Roughing Techniques
- SWARF Machining for Side Wall Machining
- 4-Axis Rotary Machining
- Strategies for Blade, Blisk and Impeller Machining
- Machining Direction for 3+2-Axis Machining
Roughing

- Multi-Pass Roughing Z- or XY Cut Increments
- Adaptive Roughing automatically chooses best Entry, Exit and Link Strategies
- Automatic Collision Avoidance
- Support for 3D Stock Mode to minimize Air Cutting and optimize Feedrate
- Multi-Axis Plunge Roughing

Finishing

- SWARP Machining for Side Wall Machining
- Flowline Cutting for Blade Machining
- Geodesic Machining to Machine Undercuts, including Morph and Spiral Options
- Tool Axis Control based on Machine Limits
- Full Cusp Height Control
- Gouge and Collision Free Leads/Links/Retracts

Advanced Finishing

- Fast, automated Machining Strategies for complex Components, e.g.
  - Blades
  - Impellers
  - Blisks

This option can be added for next SprutCAM's configurations: 5X Mill, Robot, Master, Pro. Need additional license for option "5D Pro". To get more information visit: www.sprutcam.com