

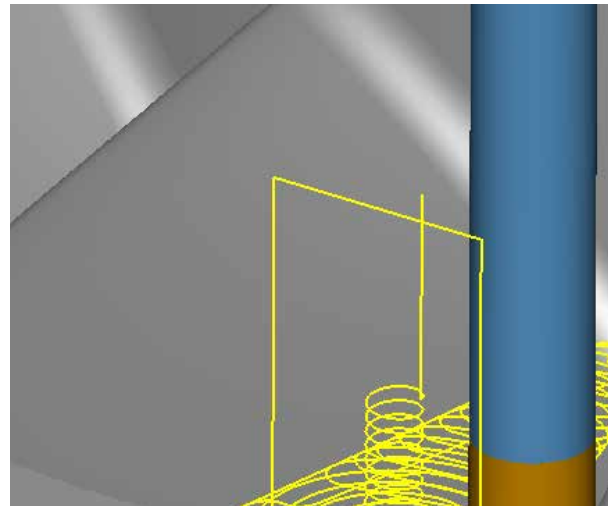


Roughing Strategy for MAX-PAC™ Computer-Aided Manufacturing Software 3+2 Roughing Module

Concepts NREC's optional 3+2 Roughing Module enables roughing out of impellers using 3-axis algorithms, keeping a constant tool vector. This strategy optimizes the toolpath to provide constant cutting load, making it suitable for high-speed machining. This is extremely helpful for large (>0.5 m) diameter parts and/or hard materials where roughing using the traditional 5-axis strategies of MAX-PAC is less efficient.

Benefits

- Achieve faster roughing using 3-axis toolpaths at an arbitrary angle (3+2)
- Provides consistent cutting conditions enabling greater feed rates as well as longer tool and machine life.
- Helical entry provides smooth engagement of the cutter and eliminates the need for drilling
- Save 5-axis machining time by performing roughing operations on 3-axis machines
- Save programming time by calculating roughing toolpaths together with finish toolpaths in the same software package, on the same geometry
- Reduce software and training costs by eliminating the need for a separate package to calculate 3+2 roughing toolpaths



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