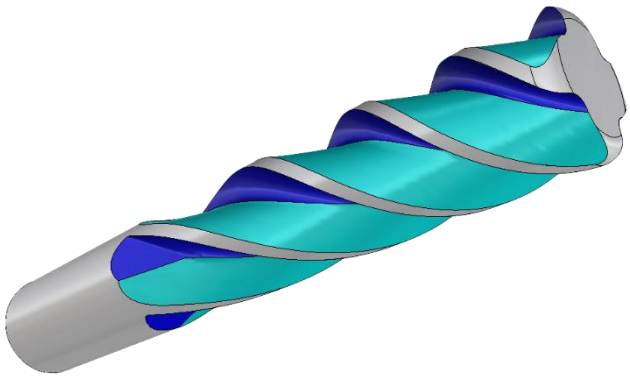
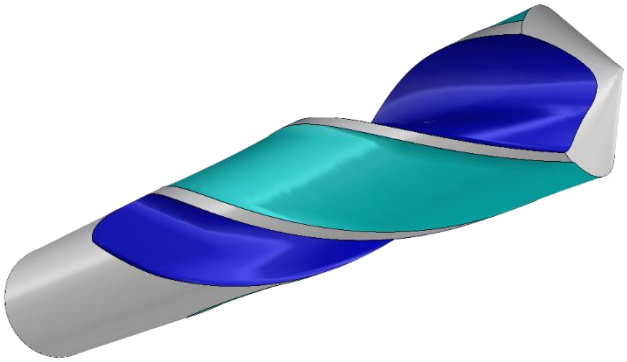
Tool-Designer WinNut: Precise Flute Calculation





Exact definition of flute, outer tool contour and grinding wheel with TD WinNut

TD WinNut is the core module of the CAD/CAM system ISBE Tool-Designer Suite. Apart from the outer contour of the tool, TD WinNut calculates the exact optimum flute in one step. This reduces grinding as well as setup times considerably. Instead of calculating an individual grinding wheel geometry for each flute profile, the software looks for the best wheel shape with optimum positioning values. Consequently, a limited reduced number of profile grinding wheels has to be kept in stock. TD WinNut performs calculations for drills, mills, reamers, taps or thread milling cutters, also for step, gear or contour cutting tools. The modeling software creates flute geometries using an integrated editor or can be imported via DXF. A comparison between virtually grinded and calculated flutes prior to production serves as quality control and can be used to calculate wear and tear of the grinding wheel.

How you can benefit from using TD WinNut:

- Easy and fast modeling of tool geometries and flutes saves complex and expensive design procedures with conventional CAD systems
- Significant reduction of time to market and production cost
- Arbitrary flexible definition of flute volume (dialogue, measurement contour, DXF import)
- Exact calculation and positioning of grinding wheels
- Modifications of flute geometry, flute exit and grinding wheel are visible immediately
- More efficient flute volumes through optimized grinding wheel positioning for perfect tool geometries
- Seamless data integration – including external CAD and FEM systems – for optimum data utilization
- 2D and 3D geometries for visual tool inspection
- Provision of dressing and processing information
- Interfaces to all commonly used machine tools, control systems and tool measurement systems

All modules of the CAD/CAM system ISBE Tool-Designer Suite have been specifically developed for the precise modeling of tool geometries. Benefit from precisely designed flute geometries and shortened time to market.

More information
on our website

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