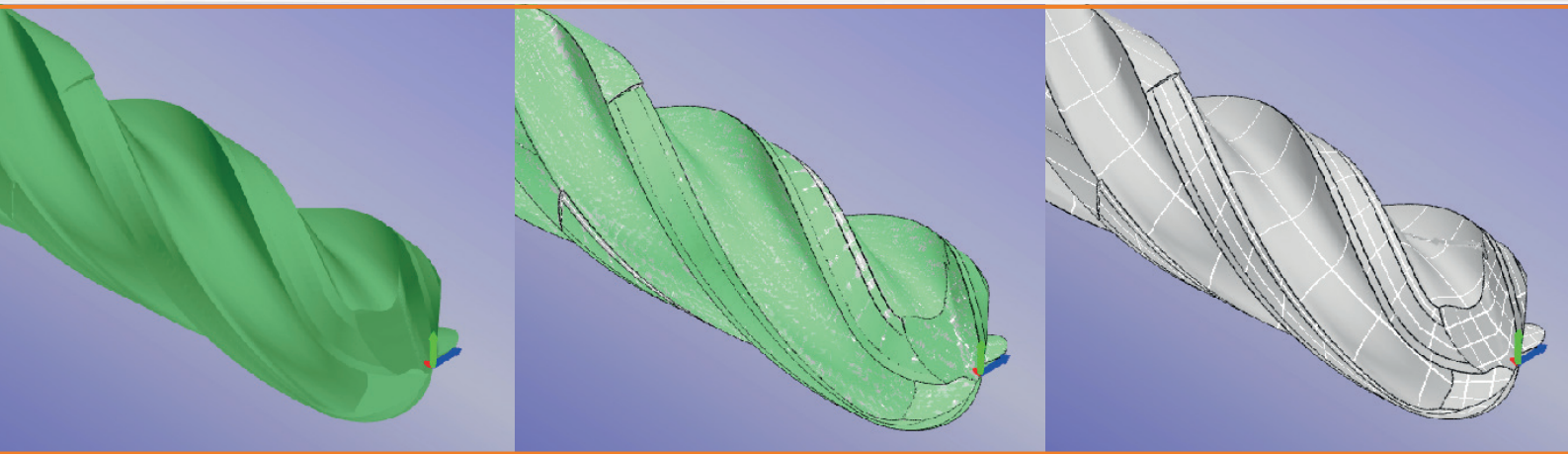


TD ReCAD

The reverse engineering solution for cutting tools





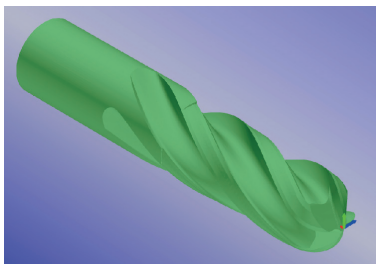
TD ReCAD

The reverse engineering solution for cutting tools

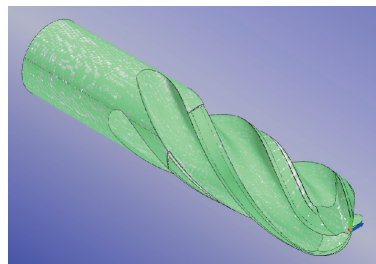
With TD ReCAD, re-engineering becomes easy and your end results highly accurate. Optimize cutting tools based on real 3D data in the shortest possible time and benefit from an exact reconstruction of the tool for consistent digital use.

Advantages

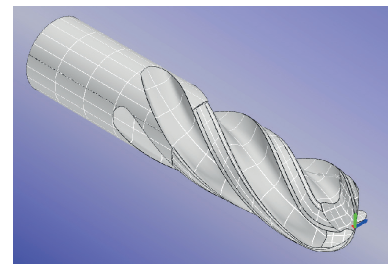
- Quick re-engineering solution exclusively for cutting tools
- Convert 3D simulations of your own grinding software into real 3D STEP models
- Convert 3D scan data into real 3D STEP models
- Realistic end mill, drill, reamer and thread geometries
- Exact digital reconstruction for continuous digital use in the shortest possible time
- Virtual optimization of cutting tools based on real 3D data
- Can be combined with **TD ToolCompare** as an add-on to the quality control solution **NEW**



STL Data



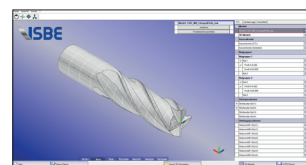
TD ReCAD



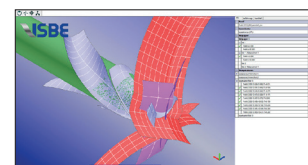
STEP Data

INFO Highlights at a glance

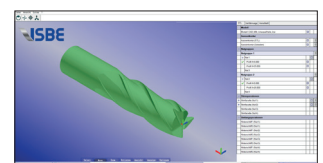
- ✓ the simplest, clearest operation
- ✓ for all common cutting tools
- ✓ extremely short processing time of 30 - 60 min
- ✓ STL data fully usable
- ✓ for all STL master models from CAD
- ✓ for all STL data from grinding simulations
- ✓ for all STL data from 3D measuring machines
- ✓ direct use of the models in the FEA system
- ✓ 100% further use in CAD systems
- ✓ Convert Toolstudio tool paths into STEP models
- ✓ Integrated into the **ISBE** digital process chain



STL data



trim surface



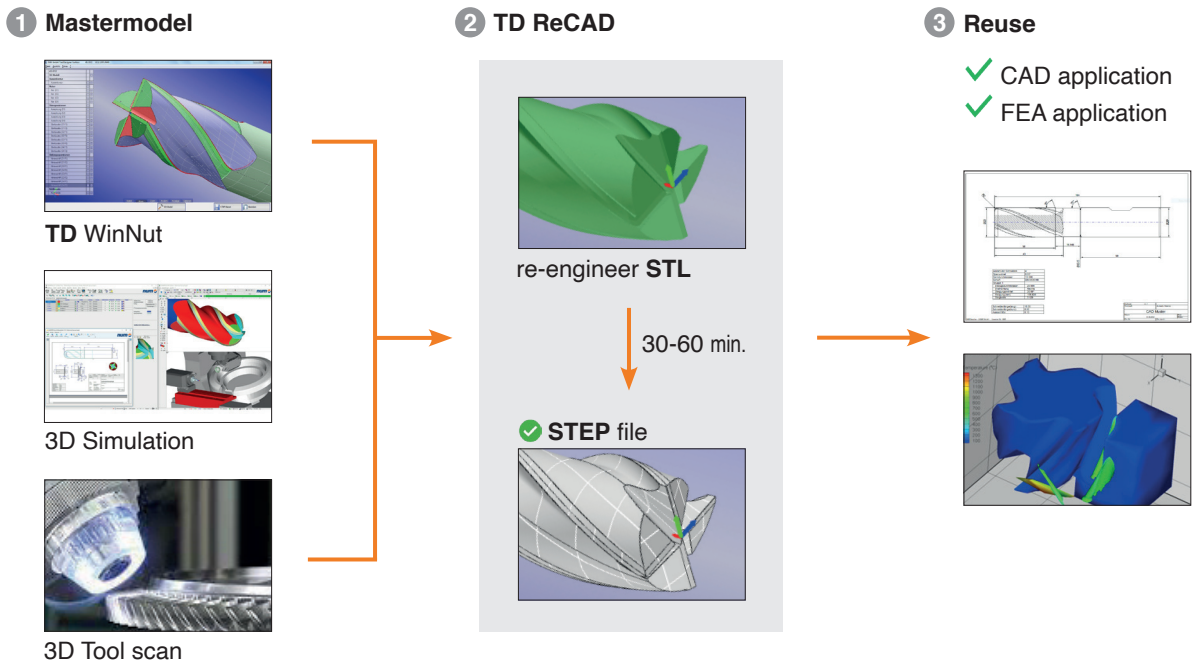
✓ Create **SOLID** model

TD ReCAD

Reverse-Engineering with TD ReCAD

With **TD ReCAD** you can convert STL data from your master model, the machine control or from a 3D scan into STEP files and use them in downstream or follow-up processes such as CAD applications or FEA simulations.

TD ReCAD - Application overview:



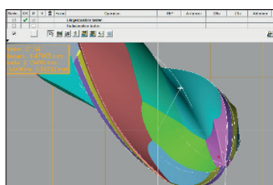
TD ReCAD - Option Walter Toolstudio Interface

Automated redesign of Walter Toolstudio data

STL data from the Walter Toolstudio simulation are easily converted into reusable 3D STEP models with **TD ReCAD**. Generated 3D STEP models can be used directly in FEA and CAD systems. Comparisons between designed and simulated or already manufactured tools can be carried out quickly and easily with the 3D STEP models.

Advantages of the Walter Toolstudio interface:

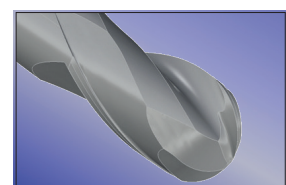
- Convert 3D simulations from Walter Toolstudio into 3D STEP models
- 3D data check for quality control (target/actual comparison)
- Direct use of the generated 3D STEP models in FEA and CAD systems
- Precise area calculation using grinding wheel tool paths as a basis



Walter Toolstudio

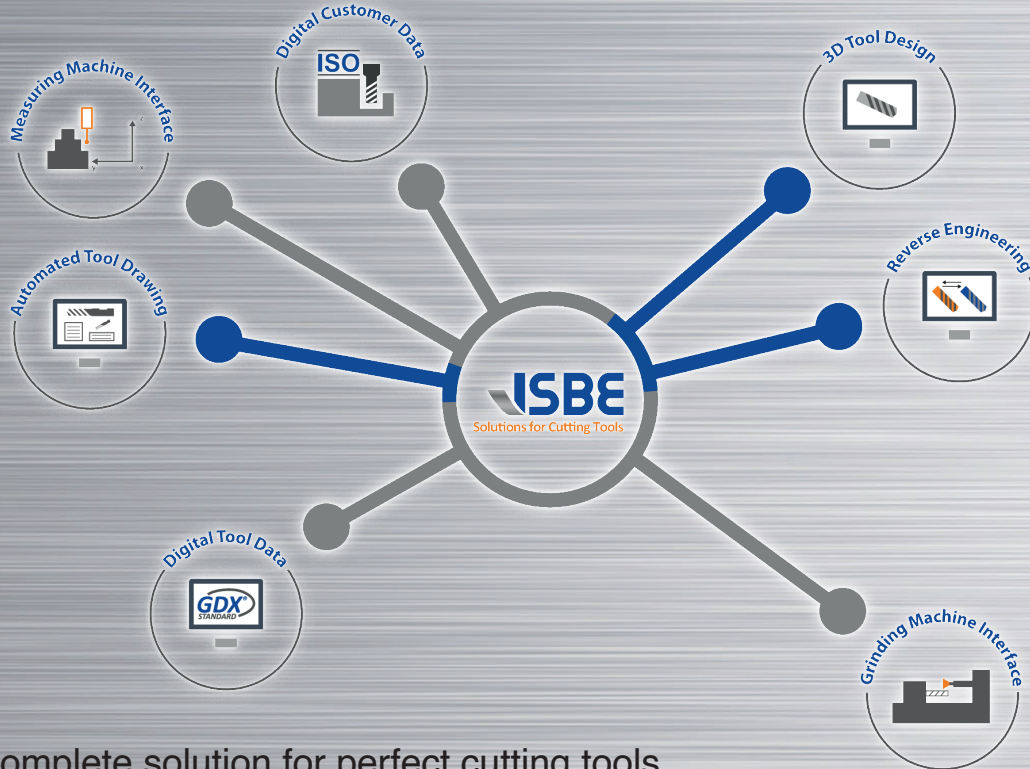


TD ReCAD



STEP file

ISBE Digital tool data for your production



ISBE Complete solution for perfect cutting tools

TD Sketcher



- Automated, parameterized 2D or 3D tool design
- Connection of grinding- and measuring-machines
- Consistent digital cutting tool data

TD WinNut



- 3D cutting tool design and 3D grinding simulation
- Distortion-free flute and geometry calculation
- Grinding wheel calculation and central management

TD ReCAD



- Reverse engineering of cutting tools
- Creation of accurate and realistic 3D models
- Conversion of STL data into STEP models

CS Customized



- Customized software solutions
- Interface programming for grinding-machines
- Post processors and machine interfaces

CS Service



- Data conversion and completion
- Data exchange between NC environments
- User-oriented training and consulting