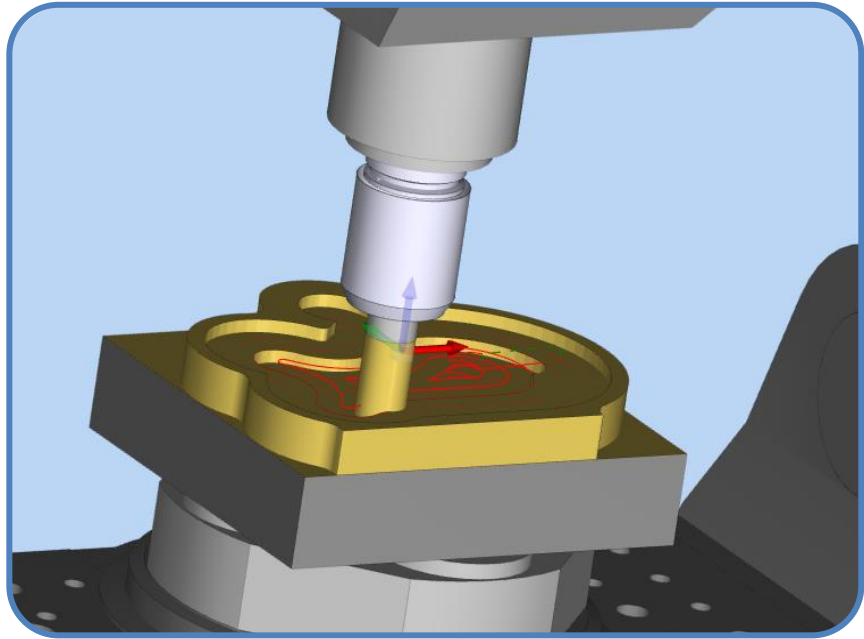


WT-ESPRIT-EDGE Interface



Manual

***WinTool* Interface 1.3.0 for ESPRIT EDGE**

The WT-Esprit-EDGE-Interface enables the user to select and transfer assemblies from the *WinTool* database to the ESPRIT EDGE CAM environment. Full graphic representation for each assembly is supported.

Requirements

- *WinTool 2018.2 Professional or later*
- *ESPRIT EDGE 2025.3 (2025.3.2533.3219)*

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Summary

Job

The WT-Esprit-EDGE-Interface enables the user to select and transfer assemblies from the *WinTool* database to the Esprit CAM environment. Full graphic representation for each assembly is supported. The cutting conditions for the different work materials are transferred from the *WinTool* technology library into ESPRIT EDGE. A complete list of every used tool assembly per NC-Program will be stored in the *WinTool* database for further use as setup sheet, documentation and queries.

Requirements

This Interface requires *WinTool* Professional 2018.2 or later and ESPRIT EDGE 2025.3 (2025.3.2533.3219) or later

Supported Tool Types

The Interface supports most rotating and still standing ESPRIT EDGE tool types. The geometry values are transferred from *WinTool* to the ESPRIT EDGE tool parameters. For rotating tools, the contour of holders and extensions is automatically calculated, transferred, and used for 3D simulation. The interface also transfers one STL file per assembly (rotating or lathe tool) for simulation purpose.

Licensing

You need a signed license agreement from *WinTool* AG as well as a License code matching with the number of your ESPRIT EDGE copy protection key.

Copyright

This documentation as well as the Software itself is under copyright of

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Installation

Directory Structure

WT-Esprit-EDGE-Interface introduces a clear separation of program files and user data.
All user data is centrally placed the [\[Public Documents\]\WT- Esprit-EDGE-Interface](#) folder:

User data	New location
Default location of UserModels folder. System variable WTEspritUserModelsPath	[Public Documents]\WT-Esprit-EDGE-Interface\UserModels
Default location of Exchange folder. System variables WTEspritExportPath WTMakeListPath	[Public Documents]\WT-Esprit-EDGE-Interface\Exchange
Configuration files: WT-Esprit-EDGE-Interface.cfg WT-MakeList.cfg WT-ToolExport.cfg	[Public Documents]\WT-Esprit-EDGE-Interface

Installing/Updating the Software

Before installing the WT-Esprit-EDGE Interface, please install *WinTool Professional*.

Be sure to be local administrator to install software on a PC. To operate the Interface the Windows user needs write permission for the "exchange folder".

Run setup.exe to install the WT-Esprit-EDGE-Interface software into a new folder (WT-Esprit-EDGE-Interface installation folder):

[C:\Program Files\WinTool\WT-Esprit-EDGE-Interface](#)

Note: When installing a newer version of ESPRIT EDGE in future, you will have to uninstall WT-Esprit-EDGE Interface before, to omit invalid entries in the registry.

In case you are performing an Update from the WT-Esprit-EDGE Interface you just need to execute setup.exe from the latest Downloaded Interface and Install it like a fresh Install.

Licensing

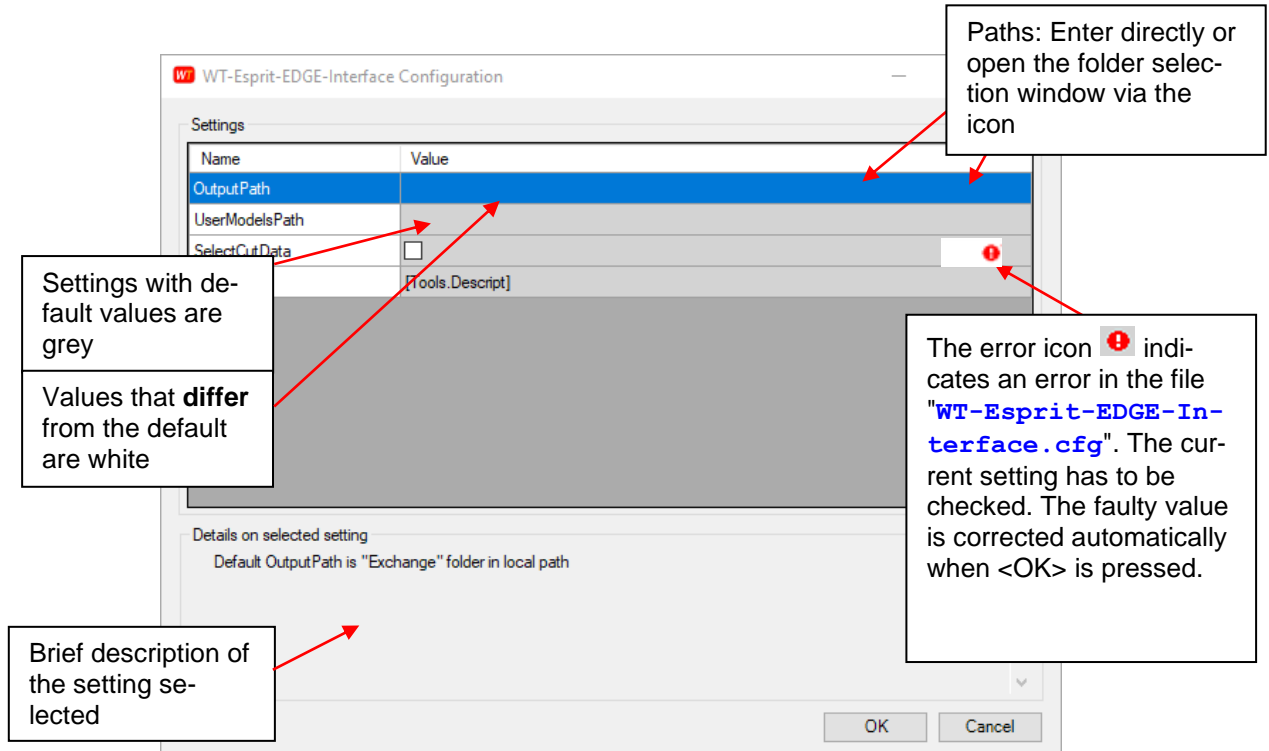
Activating the License

You need WinTool Professional to be able to use the WT-Esprit-EDGE Interface.

You also need an extra License for the Interface that you should receive from WinTool. The License can be installed locally or even in a License server. In case you encounter any problems you need to send an E-Mail to info@wintool.com.

Configurations

WT-Esprit-EDGE Interface settings can be managed in the configuration window. It is opened via START > Programs > WinTool > WT-Esprit-EDGE-Interface > WT-Esprit-EDGE Configuration:



All settings are saved in the file **WT-Esprit-EDGE-Interface.cfg** in the installation directory.

OutputPath

Defines the path where the XML file is exported in order for Esprit-EDGE to read it. The default setting is «**[Public Documents]\WT-Esprit-EDGE-Interface\Exchange**».

UserModelsPath

The UserModels directory manages the transfer of tool contour graphics (DXF).

Notes:

All users should use a common "UserModelsPath" (e.g. via network drive). The directory should be included in the back-up plan.

SelectCutData

If SelectCutData is deactivated (**False** = default), all cutting conditions are transferred.

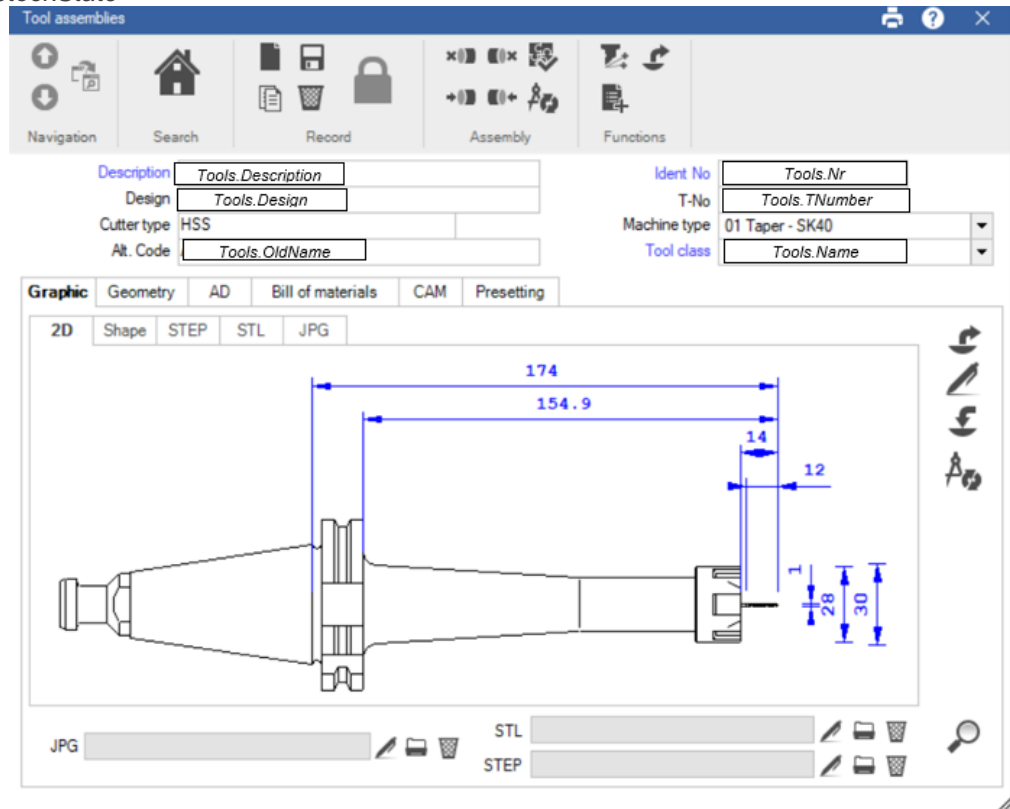
If this parameter is active (**True**), The cutting condition window opens and all available cutting conditions can be selected.

Note: The cutting condition window only opens during import in ESPRIT EDGE if at least one cutting condition was created for the *WinTool* tool selected.

Description

The Description is used to better identify tools, the interface makes it configurable how the Description is generated while importing Tool assemblies from WinTool, making imports more flexible. It is up to the user to define a custom naming convention. Placeholders (put in square brackets) can be used to modify the Tool Name. Most Tool values made in WinTool are supported. A short list of supported placeholders:

Tools.Nr, Tools.TNumber, Tools.Comment, Tools.Name, Tools.MachineNr, Tools.Descript, Tools.Design, Tools.MaskNr, Tools.ToolWidth, Tools.ToolLength, Tools.OldName, Tools.MDate, Tools.StockState



Special placeholders with dependent meanings:

- *TNumber* – (without Tools prefix) will become T from Lists if a list is imported, otherwise T from Tools if a tool is imported.

Important Notes:

- Placeholders have to be put in square brackets.

Example:

A setting like

[Tools.Nr] - [TNumber] - [Tools.Descript]

could be translated to

616021 - 0 - End Mill HSS 4x19 4FL

if imported via Tool assembly, or to

616021 - 123 - End Mill HSS 4x19 4FL

when imported via Tool list.

Important:

In the WT-Esprit-EDGE-Interface.cfg itself we have additional Configuration Options.

ParserFilePath

Defines the path where the XML file is exported in order to calculate some parameters for that specific Tool. The default setting is « [InstallDir] ».

ExportUnusedTools

We can define this Configuration with “0” or “1”. The default after the Installation is “0”.

“0” – Only Tools that are in an Operation will be Exported into WinTool.

“1” – Every Tool that is in the current Project is Exported into WinTool.

ModeOld

This option allows to switch between parametric or model based import of tool assemblies.

“False” – Tool assemblies are imported by associated model.

“True” – Tool assembly are imported parametric.

Notice: This option has only effect on milling tool import. Turning tools using always the parametric import.

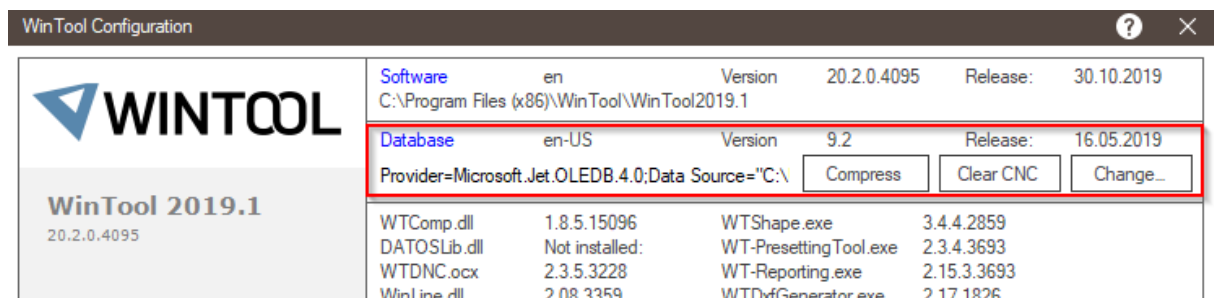
Getting Started

Sample Database

With the *WinTool* software installation a sample database (WTData.mdb) is installed. An extended database is provided with the WT-Esprit-EDGE-Interface, which contains ready to use tool assemblies with SK40 holders for testing.

Note: Only tools in the tool list " 100 1050 - 20 C_Tools" have cutting conditions assigned.

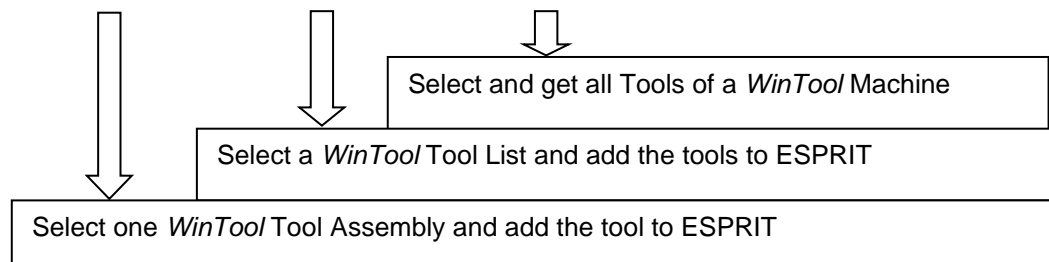
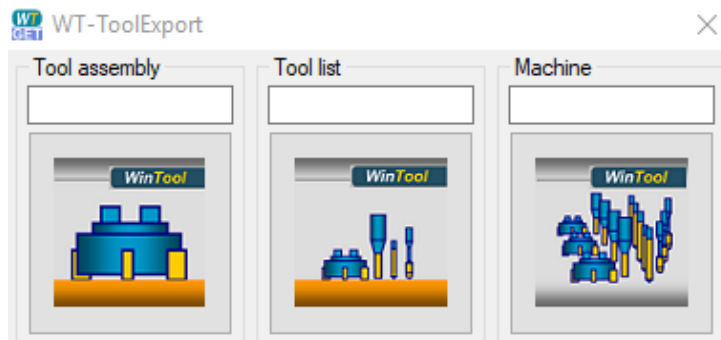
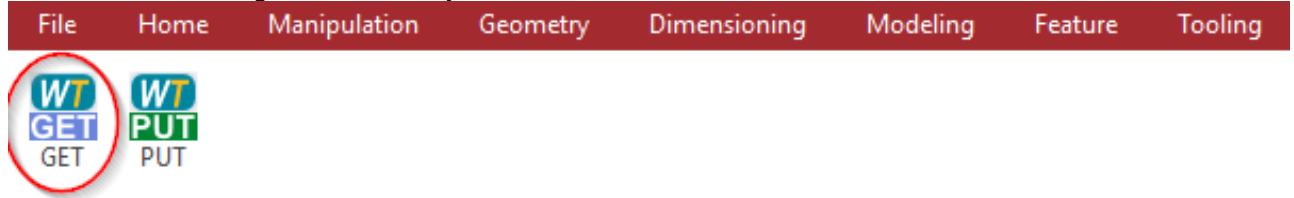
The WT-Esprit-EDGE-Interface always works with the database that is hooked up with the local *WinTool* installation. Re-link your *WinTool* installation to the sample database with the function "Change" in "Configuration" on the main *WinTool* screen.




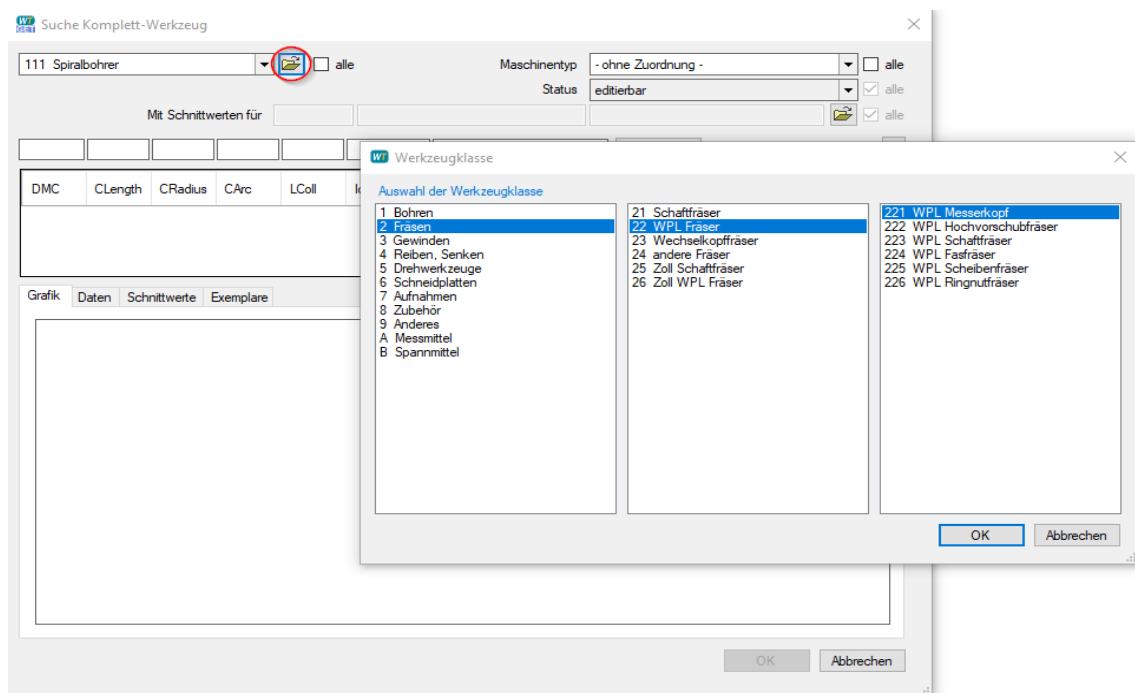
Note: If you installed *WinTool* with an SQL Database, please use the “*WinTool* Database Manager” to switch the active database. You find the DB Manager in a subfolder of your *WinTool* installation path.

Importing Milling Tool Assemblies

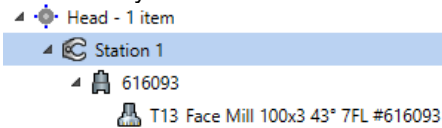
In ESPRIT CAM open the sample "Side-Frame" located in the WT-Esprit-EDGE-Interface sample folder. Use the "GET" button to open the Tool Selection Menu (WT-ToolExport) and choose the "Tool Assembly" button to select a single tool assembly



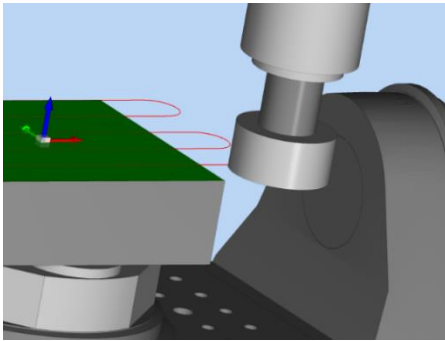
Use the button  to select the tool Class "221 face mill". For this first run through in this manual, please select the tool with the ID 616093 and click OK.



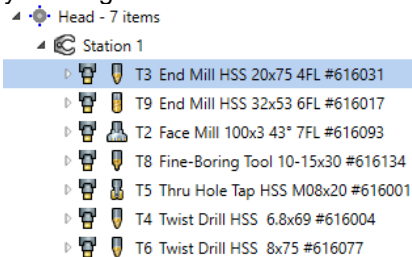
Immediately the tool data will be transferred and is available in ESPRIT EDGE:



Run the simulation to see the WinTool tool representation.



Use the "Get" function again to transfer the Tool List " 100 1050 - 20 C_Tools" from *WinTool* to ESPRIT and you will get a set of total seven tools in ESPRIT EDGE.



Note: Only tools in the tool list "100 150 06 M" have cutting conditions assigned. Continue to use the transferred tools to create a NC-Program.

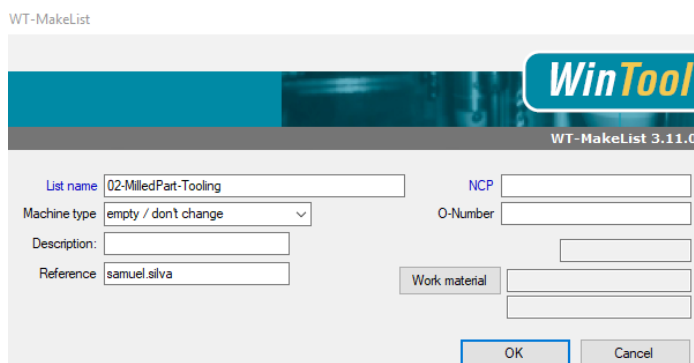
Save the Tool List to *WinTool*

When the NC-Program is created, the list of tools used in the program must be saved in *WinTool* to make it available for planning and tool crib.

Use the "Put" button to save the tool list as exchange file. The WT-MakeList software automatically reads this exchange file and creates in *WinTool* a new tool list or updates an already existing tool list in the *WinTool* database.

Give the List a new name and fill in the other fields as you wish. The information will be stored to the *WinTool* database.

WT-MakeList




Note: The sequence of the assemblies in the tool list is the same as in the ESPRIT EDGE tab "Tools". You can change to "order of usage" in configuration file.

Cutting Conditions

Important:

In case a new ESPRIT EDGE was Installed and the Database is Installed locally, we need to delete a Registry Key. In order to do that first open the Registry and afterwards go to:

“Computer\HKEY_CURRENT_USER\Software\WinTool\WT-Esprit-EDGE-Interface” this is the Registry Key that you should delete:

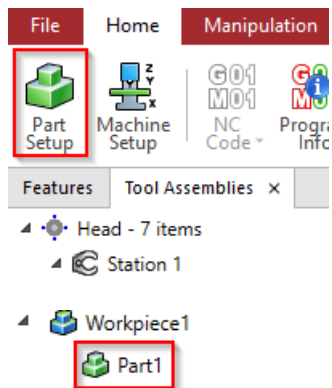
 kbmSource

REG_SZ

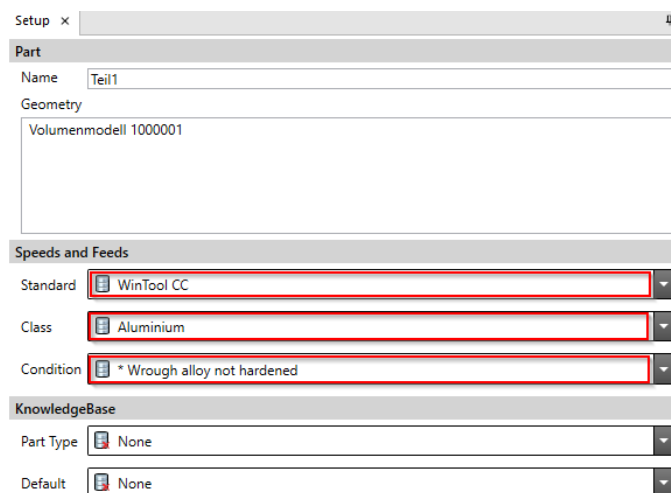
C:\Users\Public\Documents\D.P.Technology\ESPRIT TNG\Data\KBM\20.409.0.19988\kbm.sdf

After this Key was deleted we can just Import a Tool and the Key should be automatically created with the Path of the new Database.

Cutting Conditions are automatically Transferred on the Import of a Tool. You can choose to Use the Cutting Conditions from WinTool when you firstly assign a Material into your Working Part. You just need to go to “Home -> Part Setup -> “Your Part Name” -> Double-click on your Part”.



Afterwards you need to define “WinTool CC” as your default Database and also choose the Correct Material:



Afterwards you just need to go to your Operation, select the Correct Tool (that has Cutting Conditions in Win-Tool) and you need to select that you want to use the Database instead of Calculated Cutting Conditions. Afterwards just select what type of cut you want and the Correct Cutting Conditions are loaded.

Tool Selection
Tool ID: End Mill HSS 8x19 4FL #616002

Feeds and Speeds
Cut Speed RPM, SPM: 955 24
Z Feedrate PM, PR: 118.420000 0.031000
Feed Unit: Per Minute
Use Feed and Speed KB: Yes
Type of Cut: Standard

Stock Assembly
Assembly cutting conditions
Tool assembly: 616002 End Mill HSS 8x19 4FL

DMC	StNr	ap	ae	Dia	z	Vc	fz	S	F	Type	Coolant type	P	T	Remark
311	1.1545 *	12	6	8	4	24	0.031	955	118	Standard	2 On	0	0 s	

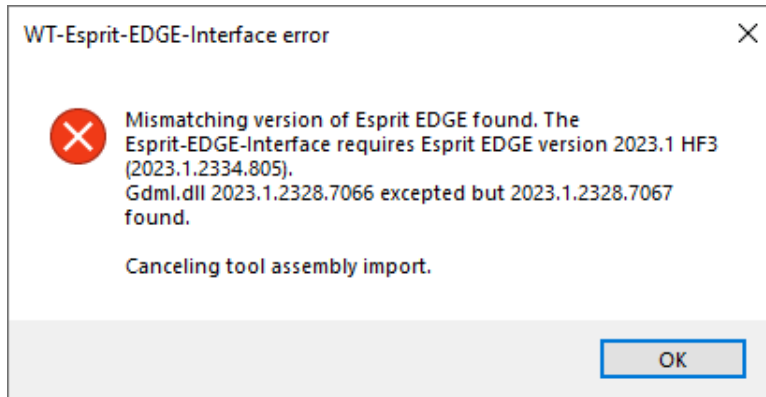
Supported Tooltypes

ESPRIT EDGE Tooltypes		WinTool Classification
German	English	
Schneideplatte	Lathe Turning	/ET137
Stechplatte	Lathe Groove	/ET157
Gewindestahl	Lathe TopNocht	/ET260
Gewindeplatte	Lathe LayDown	/ET261
Mini Drehplatte	Lathe MiniTurning	/ET280
Mini Stechplatte	Lathe MiniGrooving	/ET281
Mini Bohrplatte	Lathe LatheMiniBoring	/ET282
Kundenplatte	Lathe LatheCustom	/ET167
Kundenwerkzeug	Mill Custom	/ET101
Messtaster	Touch Probe	/ET290
Schaftfräser/Walzenstirnfräser	Mill End Mill	/ET155
Spiralbohrer/NC-Anbohrer	Mill Drill	/ET156
Zentrierbohrer/Stufenbohrer	Mill CenterDrill	/ET159
Gewindebohrer	Mill Tap	/ET160
Reibahle	Mill Reamer	/ET161
Bohrstange/Feinbohrstange	Mill BoringBar	/ET162
Torusfräser/Freifromfräser	Mill BullNose	/ET163
Messerkopf	Mill FaceMill	/ET164
Kugelfräser	Mill BallMill	/ET264
Gravierstichel/Kegelsenker	Mill TaperRadiusEndMill	/ET265
Fasenfräser	Mill Chamfer	/ET266
Viertelkreisfräser	Mill CornerRoundMill	/ET267
Prismenfräser	Mill DoveTail	/ET268
Gewindefräser	Mill Thread	/ET269
Nutenfräser/Scheibenfräser	Mill SlotMill	/ET393
Lollipop/Hinterschnittfräser	Mill UndercutMill	/ET501
	Ignore	/ET00

Annex

Troubleshooting

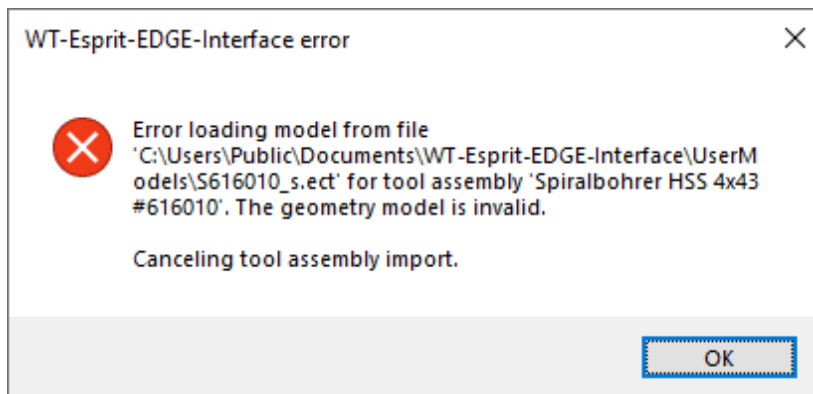
Mismatching version of ESPRIT EDGE



Cause: The ESPRIT EDGE interface is not compatible with the installed version of ESPRIT EDGE.

Solution: Install a compatible version of the ESPRIT EDGE interface. If no version is available for download yet, it is recommended to revert to the previously installed version.

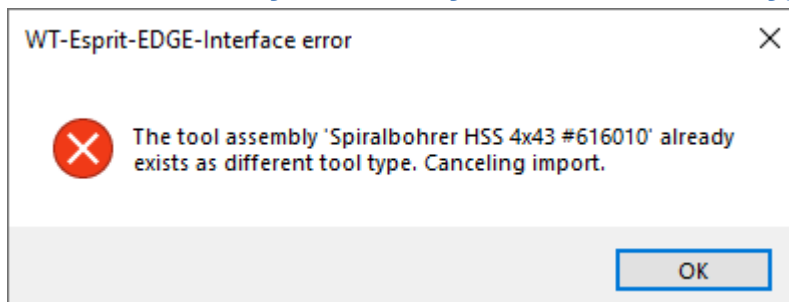
Error loading model from file



Cause: The available DXF file is invalid.

Solution: Check the DXF file for correctness and replace it if necessary.

The tool assembly '...' already exists as different type



Cause: The tool to be imported already exists in ESPRIT EDGE under a different tool type.

Solution: Delete the existing tool out of ESPRIT EDGE or import it as an identical tool type.