Tooldatabase-Parameter

SolidCAM

Hoffmann Group

Tooldatabase for „Connected Manufacturing"

Which parameter do we need and why?

Background:

- „Connected Manufacturing" is creating the „digital twin" of the existing tool and connects them with eachother
- Through this all tools can be localized and the needed data can be sent to the machine or presetting device
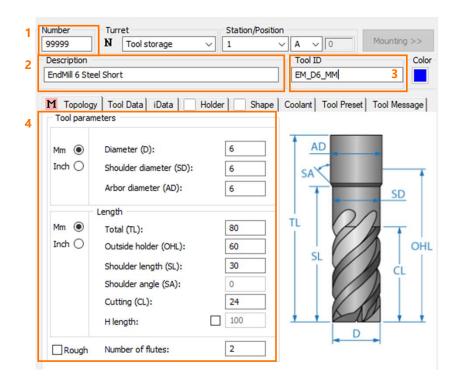
General:

- Toolassembly = Cutter + Baseholder
- If Hoffmann-Article-Numbers are maintained, the data can be automatically enriched
- Tools can be identified with „Name" or „Tool-Nr."

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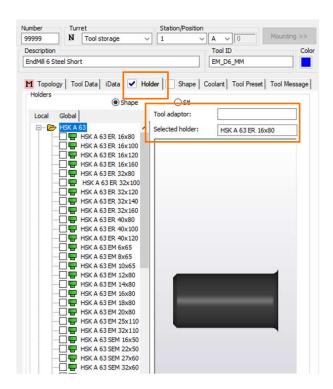
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Common Data

- 1. Number (T-No.): for clearly identification of the tool, if you are working with T-No. (recommended)

- 2. Description: for additional information in SolidCAM (optional)

- 3. Tool ID.: for clearly identification of the tool, if you are not working with T-No. (not recommended) → is saved as „Tool Assembly Name" and has to be unique. It is **required** even if you are working with T-No.

- 4. Tool parameters (dimensions): it is **required** to fill at least diameter (D) and H-length (total length including Holder)
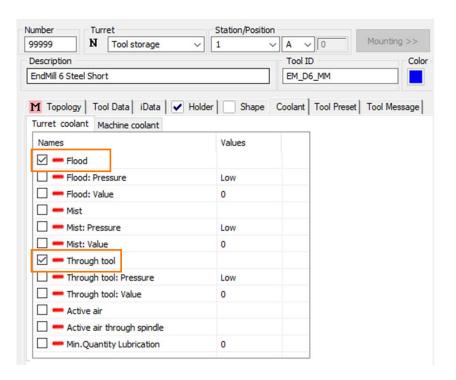
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Holder Data

- Holder: A holder has to be selected!
  Otherwise only the cutter will be imported and there is no assignment to the Tool Assembly (assignment with Toolname or T-No.) (**required**)

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Cooling Options (Coolant)

- <u>Through tool coolant:</u> for (automatic) transmission of the cooling options to the machine. If the tool has „Through Tool Coolant" the checkbox must be activated

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Tool Message (Articlenumbers)

- Message 1: here you can put in the Hoffmann-Articlenumber of the **cutter**. With this number the information can be automatically enriched by importing the tool to CM (pictures, dimensions, materials, etc.)

- Message 2: here you can put in the Hoffmann-Articlenumber of the **holder**. With this number the information can be automatically enriched by importing the tool to CM (pictures, dimensions, materials, etc.)

- Message 5: here you can put in the coupling adapter to the machine (e.g. HSK 63, SK 40, etc.)