

# Creating Turning Operations



You can create and edit most turning operations in the DPM machining process plan just as you would any other machining operation. Once these operations are created in the process, an IPM corresponding to each of these will be created during the IPM navigation phase.

The commands available through the Turning Operations toolbar are as follows. For more information on these commands, please refer to the *Lathe Machining User's Guide*.



**Rough Turning**



**Groove Turning**



**Recess Turning**



**Profile Finish Turning**



**Groove Finish Turning**



**Thread Turning**



**Sequential Turning**



**Ramp Rough Turning**



**Ramp Recess Turning**



**Grinding**. This is an enhanced generic machining operation used for some special turning operations.



- In the dialog box for any type of turning operation, parameters must be set via the Geometry tab  and the Tooling tab .
- Other parameters may be set via the Strategy tab  and the Feedrates and Spindle Speeds tab  but are not necessary for a usable machining process plan.
- In order to successfully generate an IPM for a turning operation, the following information must be entered:
  1. In the Tooling tab of the MO editor:
    - a. Tool type: internal or external
    - b. Tool Insert type.
  2. A horizontal or vertical lathe machine must be referenced by the Part Operation. The machine is specified in the Part Operation's Machine editor.
- If a tool (lathe insert) is defined on a turning operation, either "Generate IPM from tools" or "Generate IPM from either" can be set in the **Tools > Options** dialog box for DPM Machining Process Planner for [IPM Generation](#).
- If an end limit is defined on a turning operation, it is ignored by [IPM Generation](#) when the "Generate IPM from geometry" mode is set in the **Tools > Options** dialog box for DPM Machining Process Planner.

