

SolidCAM

SHOP FLOOR OPERATOR SUITE

Powerful Tools for
Your CNC Operators





Shop Floor Operator Suite



POWERFUL TOOLS FOR YOUR CNC OPERATOR

The Staff of most medium and large-size machine shops work in two main levels:



LEVEL 1 CAM PROGRAMMERS

CAM Programmers are technologists that determine the strategy for machining a part on the shop floor. Usually well acquainted with CNC technology and capabilities, a CAM Programmer uses SolidCAM to define the machining process, using a variety of machine operations.

At each stage, the Programmer can use the SolidCAM simulation capabilities to check the operations and then produce a G-Code file.

In many machine shops, there is a complete separation between these 2 levels. Often the Operator lacks a clear understanding of the machining process, and minor changes may also be required in the G-Code, such as changing the cutting conditions or offsets of the tools. This often forces the Operator to return to the



LEVEL 2 CNC OPERATORS

CNC Operators get the G-Code file, list of tools, a setup sheet showing the part clamping and locations of work offsets.

They then perform a step-by-step dry run at the CNC of the machining operations, to verify that the G-Code prepared by the Programmer is error-free, with no collisions. This then ensures that they can run the machine with a real part without concerns.

Programmer for clarification and minor editing, generally leading to delays in the workflow.

SolidCAM Shop Floor Operator Suite provides the tools to streamline the process at the Shop Floor level.

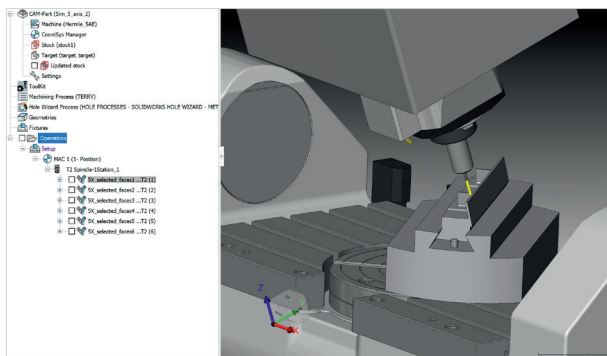
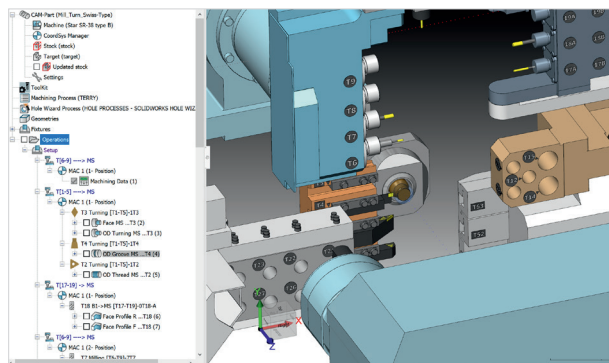


The Shop Floor Operator Suite provides advantages for every Shop:

- **Minimize Reliance on 'Dry-Runs':** SolidCAM Shop Floor enables Operators to step-through each move in the G-Code program, reducing setup time and the need to 'dry-run' programs on the CNC.
- **Preventing CNC Machine and Tool Damage:** Operators see full simulations so they can prevent unexpected crashes or collisions.
- **Working Efficiently:** Operators can make minor adjustments, without needing to rely on the CAM Programmer, who is already busy programming the next part.
- **Full Setup Picture:** SolidCAM Shop Floor enables the Operator to see all details of each operation, including Tools, Setup Definition, Stock Clamping, Work Offsets, and full simulation of the process.

SHOP FLOOR EDITOR

SolidCAM's **Shop Floor Editor** enables the CNC machine Operator to open existing CAM parts, created by the SolidCAM Programmers, edit the operations if needed (e.g. change step down or change the tool speeds and feeds), recalculate, simulate, then post-process the new G-code, right by the CNC machine.



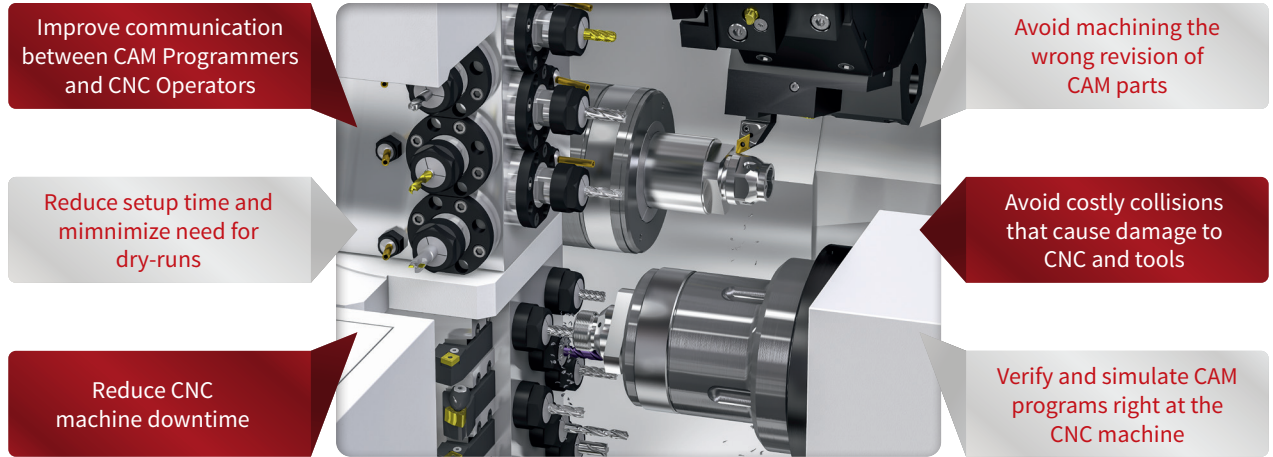
SHOP FLOOR SIMULATOR

SolidCAM's **Shop Floor Simulator** has no CAM part editing capabilities at all. It enables the CNC Operator to see the Tool table list with full details, to understand the clamping, the work offsets, and to see the simulation of the CAM Part, before running the G-Code on the CNC machine.

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SHOP FLOOR OPERATOR SUITE



	EDITOR	SIMULATOR
View the model, including Fixtures and location of work offsets	✓	✓
View the tool table in full detail	✓	✓
View all machining operations, data and defined geometries	✓	✓
View Cutting conditions for each operation	✓	✓
Change the Tool data and cutting conditions	✓	
Change the operations data	✓	
Change the setup definition	✓	
Calculate operations	✓	
Fully simulate the machining process	✓	✓
Regenerate G-Code after edits	✓	



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