

# CIMCO Edit 5 Professional HEIDENHAIN SIMULATION

## Heidenhain Simulation

CIMCO Edit 5 provides a comprehensive set of essential editing tools necessary for meeting the demands of modern CNC program editing. With the release of CIMCO Edit 5 the support for Heidenhain Conversational code has been incorporated into the editor and its backplotter\*. This means that creating and editing Heidenhain code can now be done easier, faster, safer and with the full power of CIMCO Edit 5 at hand.

The highly responsive backplotter in CIMCO Edit 5 ensures that when creating or editing a CNC program the changes are visualized simultaneously in the backplotter. This enables CNC programmers to locate errors as they write their programs minimizing the number of errors and speeding up the overall process.

The Heidenhain commands and cycles can be divided into several groups, which covers the functionality of the Heidenhain interpreter in CIMCO Edit 5. These groups are described below.

### Basic movements

Basic movements such as lines, arcs, chamfer and corner rounding. Also different forms of approach and departure are included.

### Point patterns

Circular and linear pattern can be used in any combination with all the different cycles in the groups: Drilling, Tapping/Thread and Pocket/stud/slot cycles.

### Pocket, stud and slot cycles

Complete toolpath simulation, showing toolpath overlap, plungings, side and bottom finish.

### Coordinate transformation cycles

The toolpath is simulated according to the active transformations. These can be in the working plane or even a change of the working plane.

### Macro programming

Macro functions or Q parameter functions such as FN are interpreted and visualized in the simulation.

### Drill cycles

Centering, Drilling, Reaming, Boring and Pecking. A detailed simulation of these cycles gives a complete picture of their behaviour, by showing details such as plungings and chip breakings.

### Tapping and Thread cycles

As with Drills a detailed simulation of the Tapping and Thread cycles are performed according to the cycles' parameters.

### Multipass milling

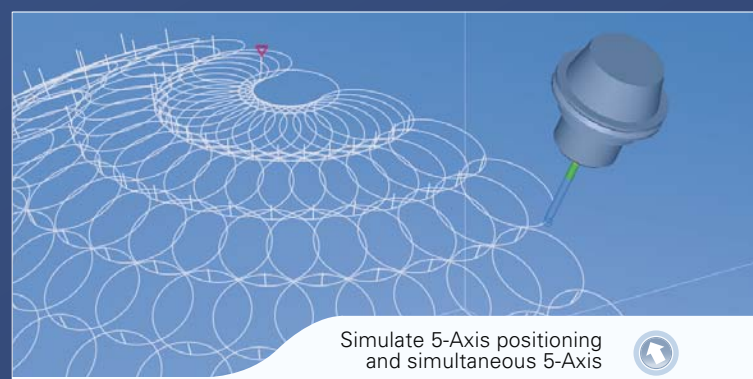
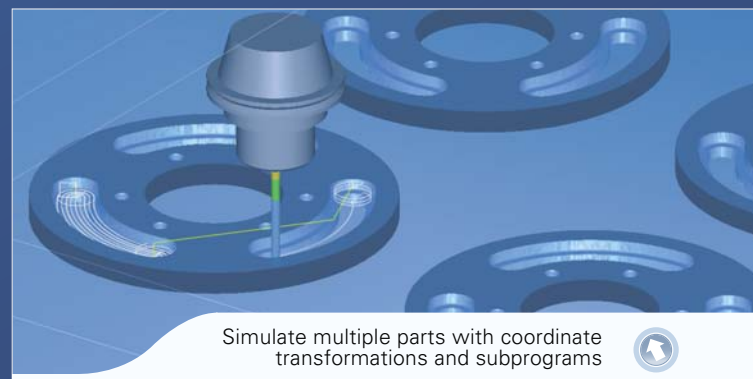
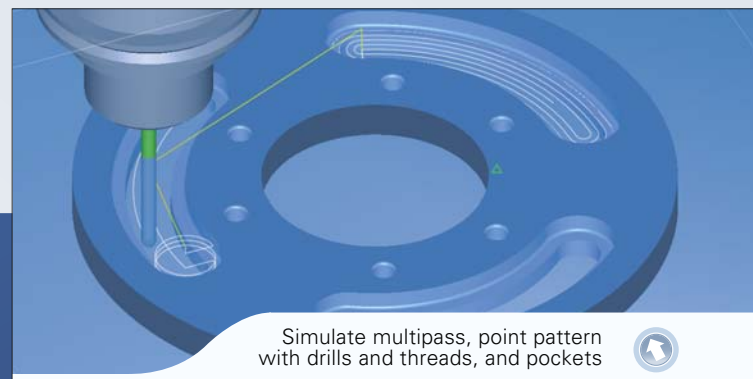
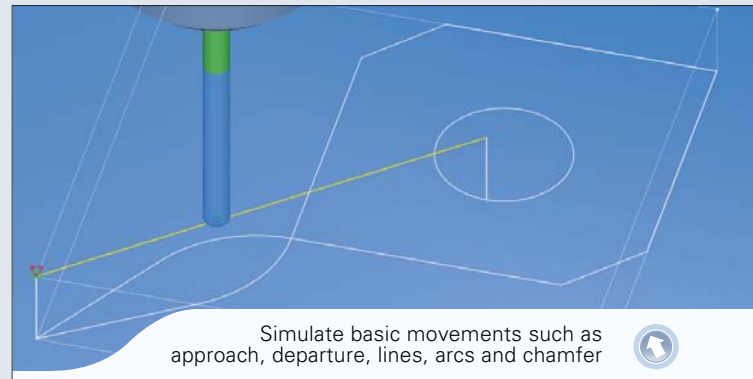
Complete toolpath simulation showing numbers of cuts, toolpath overlap and plungings.

### Subprograms

Interpretation of subprograms and subprogram calls ensures a correct toolpath simulation. Even subprogram calls via certain macro functions are interpreted.

### 5-Axis simulation

5-Axis positioning and simultaneous 5-Axis simulation.



\* Heidenhain simulation is only available in CIMCO Edit 5 Professional

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