**F3**
Simulator

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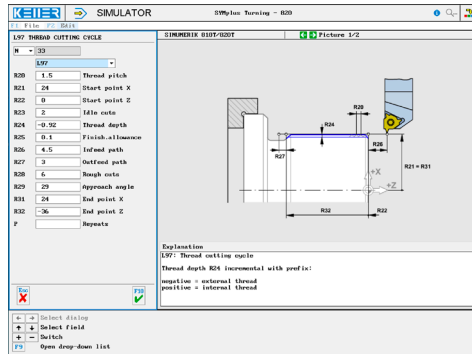
**KELLER** SOFTWARE

# CONTROLS
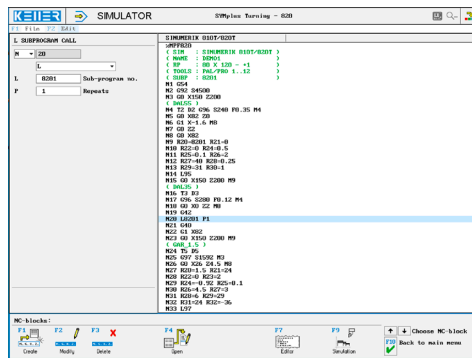## Control simulator SINUMERIK 810T/820T (turning)

The control related simulator is an additional module for SYMplus. This simulator is used to learn the control system programming. A program generated by a postprocessor can also be edited and simulated.
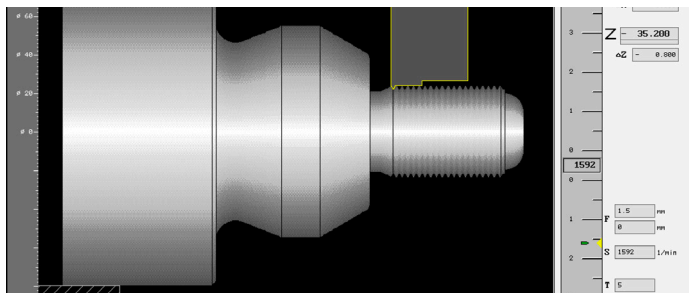
## Help pictures and texts (for all input dialogues)



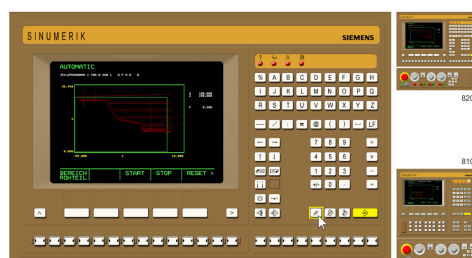## NC editor incl. input dialogue and syntax control



## Optimal control through simulation with position display (real time, fast run, single block with path preview, …)



## Keyboard information system:
## Getting familiar with the meaning of all keys of the control system by moving the mouse cursor over the keys



# COMMANDS/ FUNCTIONS/CYCLES

| | |
|---|---|
| G0 | Rapid traverse |
| G1 | Distance |
| G1 (A,A,X,Z) | Contour definition |
| G2 | Arc, clockwise |
| G3 | Arc, counter-clockwise |
| G4 | Dwell time |
| G33 | Thread cutting |
| G40/G41/G42 | Radius compensation |
| G53-G57 | Zero offset |
| G58/G59 | Zero offset |
| G90/G91 | Dimension reference |
| G92 | Speed limitation |
| G95 | Feed per revolution |
| G96/G97 | Spindle mode |
| Comment | Explanations |
| L | Subprogram call |
| M | Additional function |
| R | Parameter list |
| T | Tool call |
| L93 | Cut-in cycle |
| L95 | Chip remove with undercut |
| L96 | Chip remove without undercut |
| L97 | Thread cutting cycle |
| L98 | Deep drilling |
| X/Z/F/S/M | Modal commands |