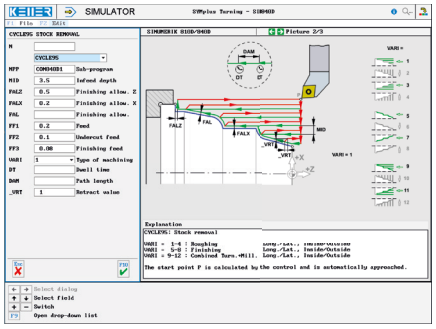
CONTROLS

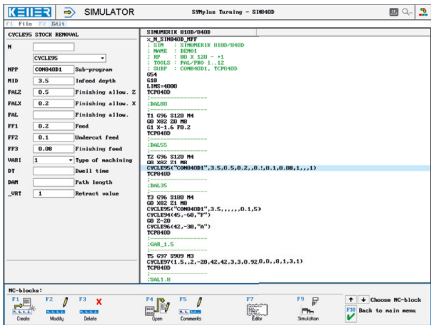
Control simulator SINUMERIK 810D/840D (turning)

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.

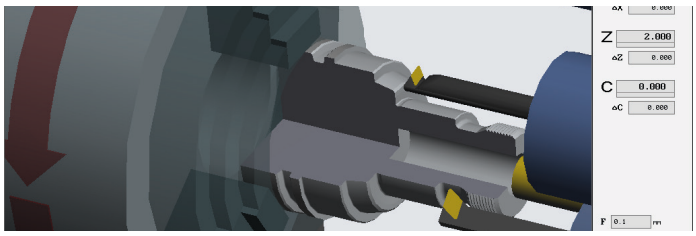
Help pictures and texts (for all input dialogues)



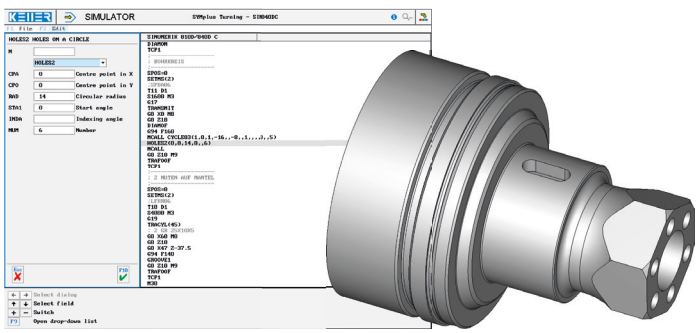
NC editor incl. input dialogue and syntax control



Perfect control due to simulation with position indicator (real time, fast mode, single block with path preview, measurement function, ...)



A simulator for the 810D/840D with C and Y axes is also available for an additional charge (with the TRANSMIT/ TRACYL functions, with milling cycles and cycles for hole patterns etc.)



COMMANDS/ FUNCTIONS/CYCLES

G0	Rapid traverse
G1	Line
G2	Arc, clockwise
G3	Arc, counter-clockwise
G4	Dwell time
G17/G18	Plane
G26/LIMS	Speed limitation
G33	Threading
G40/G41/G42	Radius compensation
G53	Positioning in mcs
G54-G57	Zero offset
G60/G64	Exact posit./Smooth.Corners
G90/G91	Exact positioning
G95/G96/G97	Feed/spindle
G110/G111/G112	Stipulation of pole
M	Additional function
R	Parameter assignment
GOTO/IF/WHILE	Jumps and loops
CFC/CFTCP/CFIN	Feed compensation
Comment	Explanations
MSG	Message
UP-Call	Sub-program call
T	Tool call
LABEL	Set
REPEAT	Program part repetition
SCALE	Scaling
TRANS/ATRANS	Zero offset absolute/incremental
DIAMON/DIAMOF	Diamter
CYCLE81	Drilling/centering
CYCLE82	Drilling/countersinking
CYCLE83	Deep-hole drilling
CYCLE84	Tapping without
CYCLE840	Tapping with
CYCLE85...89	Boring 1...5
CYCLE93	Recessing cycle
CYCLE94	Undercutting cycle
CYCLE95	Stock removal
CYCLE96	Thread undercutting cycle
CYCLE97	Thread cutting cycle
MCALL	Modal deselection
X/Y/Z/F/S/M	Modal commands
R	Parameter assignment
GOTO	Unconditional jump
IF	Conditional jump
WHILE	Conditional loop
ENDWHILE	End of while loop

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