

# EXAPT NC-Editor

The machine-specific NC program represents a vital element in NC planning that is ultimately responsible for the reliable machining of workpieces. The EXAPT NC-Editor is the universal entry solution for the direct

generation  
control  
editing  
analysis  
simulation

of NC control data. Additional extension levels offer the easy determination of even difficult geometry conditions, the processing of non-DIN-conform NC records as well as the time calculation.

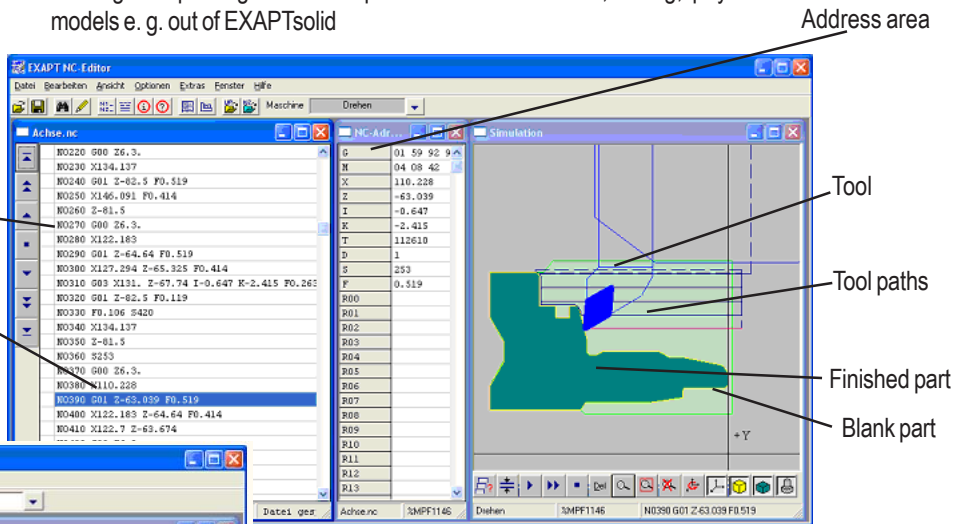
### Performance characteristics

- efficient control of the NC program by assigned displaying of the NC program area, NC address area and especially the graphic area for the simulation of the machining process sequence

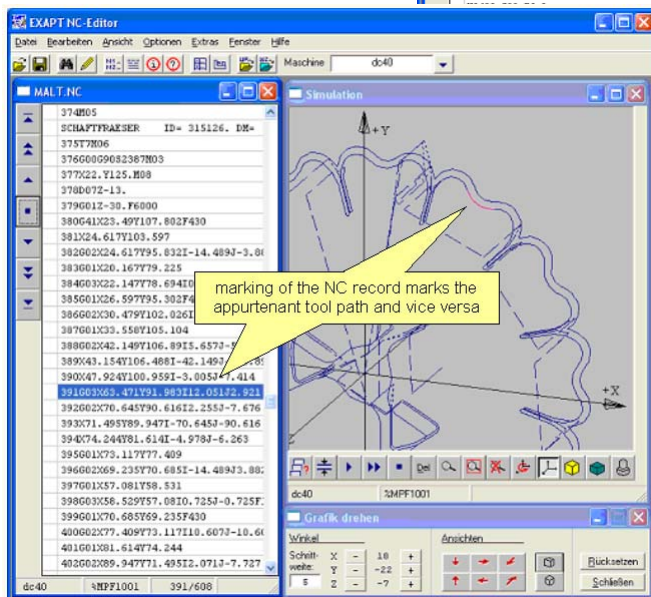
- processing of NC programs, CNC cycles and CNC subroutines on basis of DIN 66025 independent of the generating method
- adaptability to machine-specific conditions for uniform input of NC data also with graphic support, e. g. mask-controlled parameter input with assignment visualisation
- powerful functions for change, paste, delete, (re-)formatting, (re-)numbering etc. of the NC program
- display of an NC program structure-related to tool calls, comments or cycles/subroutine calls
- marked displaying of changed NC records with the possibility to reset
- expandable graphic simulation with display of the current cutting tool being in operation as well as assignment to the existing workpiece geometries up to 3D models e. g. out of EXAPTSolid

- interactive graphic control of the NC records by zooming and rotating functions in the graphic area
- bi-directional connection between a displayed tool path and the appurtenant NC record for clear graphic-interactive system use
- general examination of the NC records according to DIN 66025 if the punctuation marks, address values, limit values of starting and end codes are correct
- possibility to extend by differentiated time determination of NC control data also with planned time tables for the compilation of time components like usage time, production time, setup time, distribution time acc. to Refa or to user-specific requirements for calculation, timing, payment

NC program area  
Current NC record



Display of the areas for the user interaction for NC program machining



Simulation of tool paths on NC record basis with bi-directional linking of NC record and appurtenant tool path

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(Art.-no. 13888)

## Supplementary modules

- EXAPTplus Geo for geometry generation and also supply of workpiece geometries (Art.-no. 11026)
- NC-Editor time calculation expandable for the compilation of te, th, tr, tv acc. to Refa or individually for calculation, timing, payment (Art.-no. 13893)
- Difference display of NC program (Art.-no. 13903)
- NC record retranslator (NC record/ EXAPT part program) (Art.-no. 13894)

- NC-Editor CL2NC CLDATA/NC record output converter (Art.-no. 13895)

## Extensions

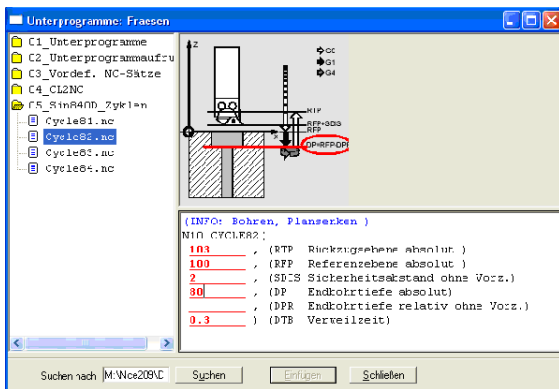
Extensions for subroutine and cycle processing incl. simulation and time calculation are available for the following controls:

- SIN 8M/8MC (Art.-no. 13896)
- SIN 840D (Art.-no. 19764)
- SIN 880 (Art.-no. 19765)
- SIN 840C (Art.-no. 19804)
- SIN 850 (Art.-no. 19805)
- VEM CNC 600 (Art.-no. 19806)

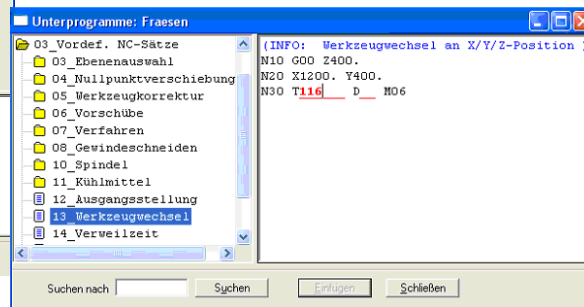
- TNC 4xx (Art.-no. 20178)
- BOSCH C200 TT (Art.-no. 20176)
- MAZAK M640 (Art.-no. 20179)
- Okuma 100 OH-OSP (Art.-no. 20180)
- Further on request

## Installation requirements

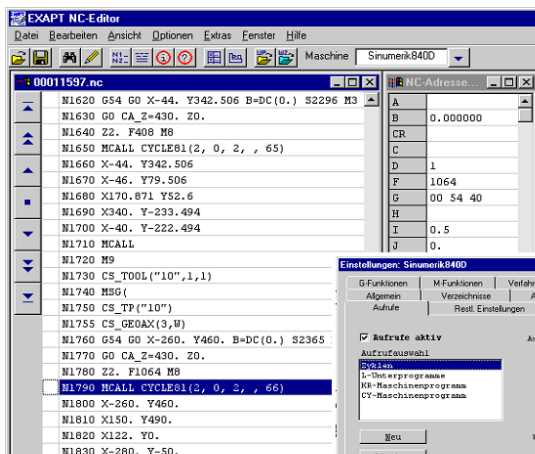
EXAPT systems are based on Windows for the use on single PCs or servers in the network compound. Required hardware configurations depend on the software constellation and the user-related quantity of data. More details follow in the current EXAPT-recommendation for hardware configuration.



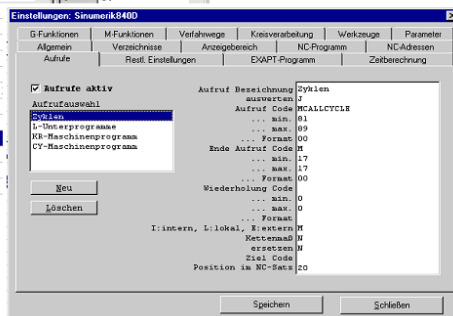
Use of CNC subroutines



Use of pre-defined NC records



- Use for:
- notation deviating from DIN/ISO format, e. g. Sinumerik 840D
  - figure of CNC machining cycles
  - origin offset
  - parallel axes



	Geplantezeit	Baugzeit	Einbaizeit
Maße	38.93	33.85	5.08
Programme	38.93	33.85	5.08
Werkzeuge	Geplantezeit	Baugzeit	Einbaizeit
0	0.02		
2	2.84	2.32	.52
4	8.72	7.92	.80
2	1.08	.73	.35
6	1.93	1.51	.42
7	.77	.5	.27
8	5.13	4.87	.26
7	5.12	.85	.42
8	3.45	3.08	.36
2	5.53	5.04	.49
5	2.97	2.48	.49
7	3.89	2.9	.19
2	2.13	1.66	.47

Time calculation