

EXAPTplus Basic system

EXAPT offers the Basic system for a fast and reliable NC data generation for all machining processes according to shop-floor requirements. It is the core system based on efficient PC systems, continuously developed, flexible and oriented to new manufacturing, machine and application requirements.

Users apply EXAPTplus as Stand-Alone NC programming system with or without interfaces to CAD systems (model exchange) and also integrated with EXAPTsolid in the CAD/CAM compound. Even the parallel operation of these application forms is possible.

The following advantages are offered to the user:

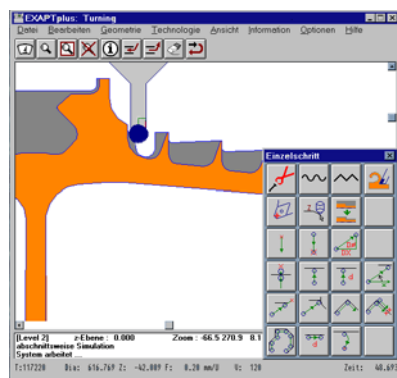
- practical NC programming providing maximum utility value for all manufacturing processes
- efficient system support for the programming of new parts, part families and variants

- effective simulation to guarantee reliable results
- possibility to use low-cost hardware platforms
- investment-saving starting package for first-time users expandable step-by-step to a comprehensive integrated CAD/CAM architecture
- convincing time-saving potential by user-definable menu control according to the requirements of specific production processes
- automatic generation of additional information for setting/resetting and capacity scheduling

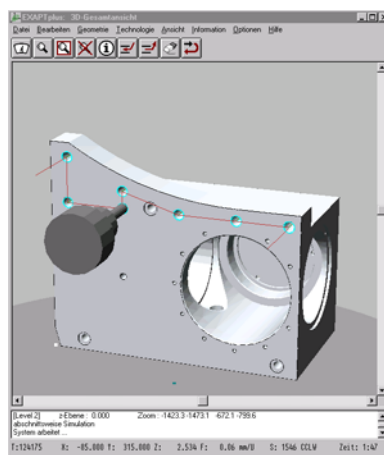
Performance features

- universal NC programming system for machining operations up to 3D
- graphic-interactive mode of operation with event-controlled multi-window technology

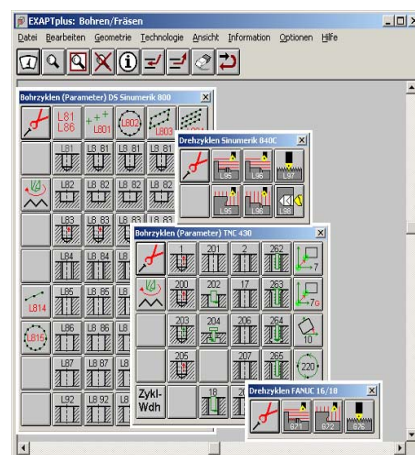
- geometry- and contour-generating in user-definable planes
- single-step programming for all common machining processes
- multi-plane/multi-side programming
- programming for complete machining (turning/drilling/milling)
- graphic simulation of input, processing results and environment
- fast generating of workpiece geometry and tool paths
- standardized platform for all expansion modules
- standardized and user-configurable operator interface
- fast generating of NC data for new and similar parts
- expansion modules for NC data administration
- possibility of interoperability with further EXAPT systems for production data organisation



Single-step programming for turning operations with updating of the part being machined



Use of CAD model data for NC programming



User-configurable operator interface based on the machining objects

EXAPTplus Basic system

(Art.-no. 11026)

Supplementary modules to the EXAPTplus Basic system

- Parametric (subroutine and variant technique) (Art.-no. 11040)
according to separate product information
- Graphic objects (supporting devices, clamping devices, units, etc) (Art.-no. 11044)
- DXF output (Art.-no. 11045)
- User objects (manufacturing objects) (Art.-no. 11048)
- Menu configuration (Art.-no. 11049)
- Dynamic zoom window function (Art.-no. 11043)
- DDE interface (Art.-no. 11052)

Loading of CAD data

CAD-NC link (Art.-no. 11546)

Further processing of CAD data with technological attributes (if available in CAD system!). Geometry processing in accordance with production requirements (contours, tolerances, surface quality, origins, etc.)

Interfaces for CAD data input

- IGES (Art.-no. 11547)
- NDI (Art.-no. 11549)
- DXF (Art.-no. 11550)
- MI (Art.-no. 11551)
- SAT (Art.-no. 11554)

CAD/CAM integration

EXAPTsolid (Art.-no. 19865)
volume-oriented part and machining modeling with integrated EXAPTplus NC planning
according to separate product information

Technology-oriented modules as extension

- EXAPTplus Turning (Art.-no. 11069)
- EXAPTplus Drilling/Milling 2.5D (Art.-no. 11071)
- EXAPTplus Milling 3D (Art.-no. 11840)
- EXAPTplus Wire-eroding (Art.-no. 11084)
- EXAPTplus Nesting (Art.-no. 19244)
- EXAPTplus Measuring (Art.-no. 11077)
- EXAPTpdo NCV - NC data administration (Art.-no. 11658)
according to separate product information for modules mentioned before

Machine tool-oriented supplementary modules

- EASYPP postprocessor (Art.-no. 17620)
- EXAPT NC Editor (Art.-no. 13888)
- CNC cycles (Art.-no. 17628)
according to separate product information for all modules mentioned before

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.