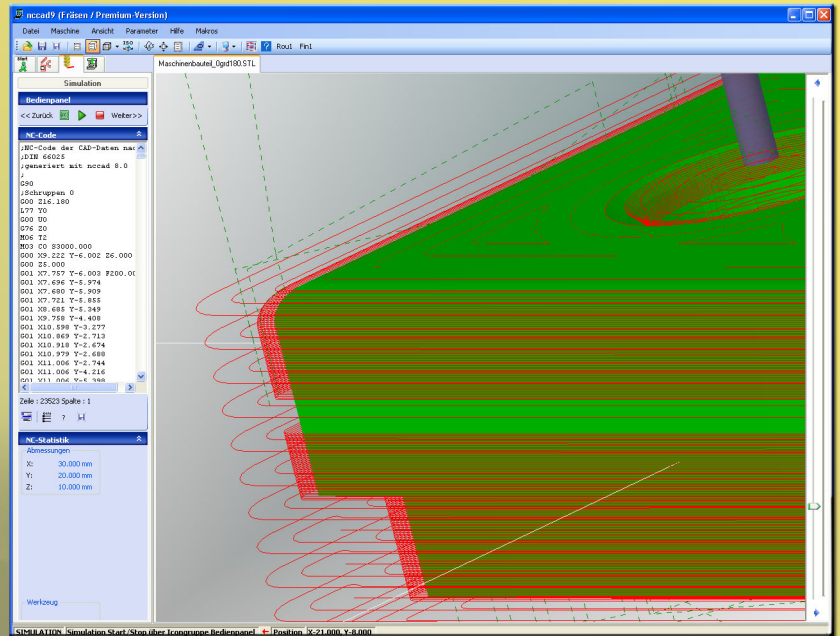


nccad9

CAD / CAM / CNC - Program for quick results in machining

- Workshop programming simplified.
- The newcomer needs little time to get familiar with, the expert is pleased about the gain in time.
- Professional 3D-strategies, easy to apply without special knowledge.
- Contour accuracy in details in μ -range.
- Delivery with matching control or with ready for use CNC-machine.
- Upgradable and fit for tomorrow.



3 ways to get a machining program.....

2D drawing 2^{1/2}D machining

Draw patterns resp. contours, allocate technology parameters, simulate and start machining.

3D external drawing 3D machining

Import STL-file, choose settings, simulate and start machining
(see also „Quick&Simple“ below).

CNC direct

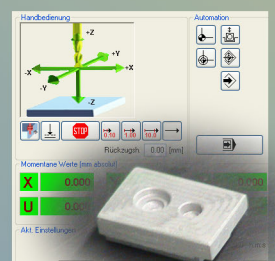
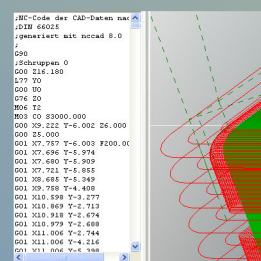
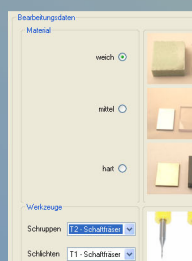
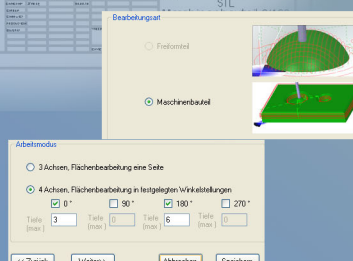
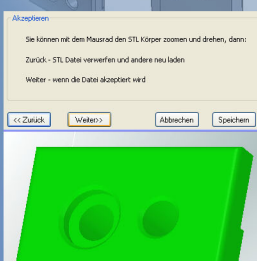
Input NC-codes, simulate and start machining.

Function „Quick & Simple“

Fast and easy way to get a three-dimensional workpiece

- Import STL-file - Check it from all sides through rotation and zoom.
- Input working mode - 3-axes or 4-axes in fixed angle positions.
- Select type of machining - Free forming part (art) or mechanical parts (true to measure).
- Input machining parameters - Material (soft, medium, hard), tools (rough/finish).
- Check millings tracks by means of Simulation, prepare machine and start milling.

New



CAD 2D

Draw and Edit 2D-contours in dialogue:

Line, polygon, rectangle, circle, arc, point, pointlist, oblong hole, engraving texts (TrueType, single track 1-/multi line).

List in tree „Drawings“. Easy selection via tree or mouse on constructionpoint or intersection with variable catch-distance.

Direct allocation of technology to drawing element or group of drawing elements.

Aids: Intelligent catch, millimeter grid, reference point.

Edit: Delete, shift, copy, rotate, undo (up to 10 steps, max. 200 parts). Shift constructionpoint, mirror, circular arrangement, scale, trim, lengthen, convert into line or polygon, chamfer, round.

Symbols: Generate, load, detach.

Documentation: Dimensioning, labelling

CNC

Input/Edit CNC-Code sentences after DIN/ISO 66025 with immediate simulation view, approx. 30 G- and M-codes, individual macro-programming.

Support of the MultiController control

MCS: Manual operation, handwheel (optional), Administration of up to 20 workpiece zeropoints (WZP), run of program (with

/without LookAhead resp. Spooler).

Software resolution 0.001 mm = 1 µm.

Older MAX-controls with IF2, 3 and 4 are supported, too.

Specialties

Special functions

Design and milling of circuit boards, generation of pads/paths and outlines.

Import

2D: DXF and 3D: STL. Connection to LabVIEW (optional).

Drawing files

Administration/storage of up to 5drawings.

Options

Support of 4th/5th axis simultaneously, StandAlone, analog depth measuring.

Application as coordinate table, dispensing system, measuring machine.

Customer specific solutions.

CAM 2^{1/2} / 3 D

Technology data in any number of machining groups: Feed XY, separate feed Z, total depth, depth per steps, tool diameter, contour correction interior/exterior, blind hole, pocket (with/without isle), approach/depart, helix-attack.

Tool administration with correction memory, WZP-shift, support of the options automatic toolchanger and tool-length measurer.

Generate NC-codes automatically, NC-editor with code check.

Simulation, also per single steps.

CAM +

Quick & Simple STL - The fast and simple way to get to 3D-workpieces (see pictures on page 10f of the flyer). Automatic generation of bond bridges and removal of raw material.

3-axes-multiple-sides machining with automatic OP calculation.

Turning & Milling with optional turning unit:

Draw/import the turning contour. Input of revs for roughing and finishing, partly feed and finishing height. Draw the contour for surfacing with input of start height and angle position, with repetition in different angle

positions.

General information

Licence

Machine-/control related licence: Machining at related hardware only, programming/simulation at any number of PCs.

30-digit licence-key with delivery.

Help and support

Electronic manual, introductory videos (in German), Slides assistant, examples, hotline, further developments, Internet.

Computer

PC with Windows XP/Vista/7(32 or 64 bit)

Serial port RS232 (COM-Port) or via USB-converter.

* **nccad9** in performance level **A** replaces **nccad7.5Prof** and corresponds at present **nccad8.xStd** + the following extras: STL-milling in 3D-zone with „Quick & Simple“, turning & milling, approach/depart, helix.

nccad9 Versions and ordering designations

CAD/CAM/CNC-Softw. nccad9 professional version	Full functions, professional 3D-strategies. Data see above and. PDF-files..nccad9_OverviewFeatures_...	----	*
SK9basic CAD/CAM/CNC-Software nccad9 basic version	Data as SK9, but without 3D-functions, limited rang of functions.	----	**
SU9basic9 Software-Upgrade nccad9basic to nccad9	e.g. upgrade to 3D-functions, full range of functions	260,--	
SU169 Software-Upgrade nccad1....6 to nccad9	For MAX-customer, who did not updgrade before	o.d.	
SU79 Software-Upgrade nccad7 to nccad9	For all customers	280,--	
SU89 Software-Upgrade nccad8 to nccad9	For all customers, spec. price	120,--	
SU7basic9basic Software-Upgrade nccad7basic to nccad9basic	For OEM-partners, upgrade from simple ver. 7 to simple version 9	320,--	
SU7basic9 Software-Upgrade nccad7basic to nccad9	For OEM-partners, upgrade from simple ver. 7 to prof. version 9	570,--	
SU8basic9 Software-Upgrade nccad8basic to nccad9	For OEM-partners, upgrade from simple ver. 8 to prof. version 9	190,--	
DL10 Problem solution for individual workpiece (programming ex., help for finding solution, sample, advice)		120,--	

* Complete offer with KOSY, with other control units o.d. ** together with MCS and for OEM-partners All prices are suggested retail prices in EURO plus statutory VAT

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