

Hotline-Support KOSY/MCS

Category 3: **Software nccad9**

Description: **What is new in nccad**

A suggestion to try out – Tick the box when you have tried it out

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General notes

You may be astonished about the novelties hidden in **nccad9**. They are also in **nccad8**, but there, the 3D-functions are missing. The range of functions has become so large, that there are hardly any users using all functions.

Please regard this page as a **suggestion for trying**, therefore only keywords and sometimes short descriptions are given.

Operation/Surface

Date January 2015.....

- Function groups**
After starting you must make a choice. Recommendation: For a start select *CAD/CAM 1 level*.
- Workpiece dimensions** > 3D-view. Possible to change colour, 2 individual.
All can be modified afterwards under icon group *Technology*, icon *WORKPIECE*
- Mouse wheel** > **Zoom** from mouse position to all sides, **rotate**: press mousewheel, move mouse.
- Tree** > „Collect“ the drawing elements in groups, groups instead of layers.
 - Select** choose a drawing element or group for editing
 - Position** shift the position by drag & drop
 - Sort** for assigning machining (Technology)
 - Names** Individual names for parts and groups

And always recommended: Read the status bar at the bottom. It tells you „where you are“ and „what the computer wants you to do next“.

From Drawing to Machining

Date January 2015

- The process chain**
Above the function menu the tabs **Start until Machine** are placed.
It is easy to go forward and backward. *Start* means: call up a new file.
- Dialog box: Drawing elements** > The window appears when you are drawing, you can enter numbers at once.
 - Draw** draw roughly, then edit for exact measures.
 - Orientation** on point, on centre, measures.....
- Dialog box: Technology** > The window appears at once, with assignment to tree. Mind **explanatory windows**.
 - Separate Fz** to feed in the workpiece, activatable.
 - Appro./depart** with closed contours, with/without helix.
 - Start height** instead of shifting WZP
 - Slow F** very low values are possible
 - Bore cycles** 3 different cycles with drawing element *Points*
- Simulation with NC-Code** > clear depiction, course of operation can be well analyzed.
 - 3D view** use mouse wheel
 - NC Code** is depicted.
 - Single steps** a *slider* as aid
 - Cont. Correct.** original contour remains visible
- Multiple side machining** > Draw in different levels
 - WZP-automation** When only 3 axes are available
 - Draw** use levels and groups individually
- Turn and mill Special** > Use the turning unit as 4th axis, manufacturing premium pieces.
 - Turning contour** Draw, define machining parameters and simulate.
 - X-Y-levels** Draw and copy several times to the round part

Draw and Edit

Date January 2015

- Catch and select**
Settings for catch and grid. Intersection with different *Selection distance* for searching in the drawing surface, direct selecting in the tree. Group generation by hotkeys [Ctrl] + [click].
- Single drawing elements** > too many elements are disturbing, see just one for editing.
 - Select** select just 1 drawing element
 - Nect** make neighbouring part visible
- New/modified functions** > Practical ideas, special wishes
 - Stretch/Shrink** distort /adapt a contour
 - Point list** enter a series of points
 - Conversions** many different functions
 - 3D-Polygon** a canal inside, still no partly infeed.

Helpful features

Date January 2015

- Aids**
Videos and slide assistants, generation of service files, installation wizzard, link to MAX-HomePage.
- Macros** > Automation of NC-runs. Also specific.
 - Basic** for standard movements (Ref.run, unclamp pos.)
 - BAE** programming special BAE-switch operations
- Expansion of limits** > According to versions. See list *Modules and Data*. Since **nccad9a**:
 - Undo** more actions can be undone
 - Up to 5 files** but without copying each other
 - Up to 30 groups** much mor than layers
 - NC-lines** huge number, depending on storage capacity, for3D
- 3D-functions** > Available since **nccad9**, different machine equipment.
 - Quick & Simple** all automatic and guided by wizzard
 - Contour & Body** from polygon to STL-body
 - Print** with extruder
 - Scan** equipment in different categories
- Machine selection** > The range of controllable machines and their *Parameters* are supported.
 - Representation** the chosen machine resp. type is depicted
 - Assistant** When type of machine is unknown
- Correction memory/tool changer** > Tools combined with technology-parameters and graphics in simulation, tool changer user friendly.
 - Tool set** WZP constant
 - 3D-connection** No CAM-expert required
 - Chang. position** Z-height to define freely

Help

It may happen that you do not know how to understand it and how to do it. No problem: Use our helppages in the menu *Help/Help topics*.