CAD/CAM/CNC-Software

nccad9

An overview on the different versions

Date: 2017, January 19 / DB   Subject to alterations

Basic-Version:
can be compared to the earlier milling version of *nccad8*
No 3D-functions, 1 file to open, limited number of NC-sentences

Detailed info about *nccad9* on www.max-computer.de
in Products/Software/.....

Function/Feature	*nccad9*basic	*nccad9*
Collaboration with MultiControllerControl unit **MCS** and CNC-machine, e.g. **KOSY**.	✔	✔
Connection to PC via RS232 (COM) or USB (different solutions)	✔	✔
PC-System requisits: Windows XP/Vista/7/8/10, MS DotNET.	✔	✔
Support of up to 6 axes (corresp. to existing axiscontroller)	✔	✔
Reverse play can be taken into account (makes not always sense)	✔	✔
Current reduction in standstill	✔	✔
Microstepping, position settings with 1/1000 resolution	✔	✔
Feed control, LookAhead, adaptable ramps	✔	✔
Separate feed for XY a. Z. Feed range 0,01...approx. 200 mm/sec (depending on drive)	✔	✔
Maximum step frequency about 100 kHz	✔	✔
Reference run and limit value control in all axes	✔	✔
Manual operation by keyboard or optional handwheel	✔	✔
Save/Edit 20 workpiece zeropoints	✔	✔
Contact to edge, different manual operation modes (jump, continuous)	✔	✔
Define special positions (unclamp, tool change, end of program....)		✔
Interrupt machining by *Stop & Go* (hood contact required)	✔	✔
Safety through hood and emergency stop	✔	✔
Tool memory, tool change manual or automatic	✔	✔
Tool-length measuring and correction (hardware optional)	✔	✔
Control of spindle speed (if spindle is controllable 0..10V)	✔	✔
Dispensing functions (pad-/path dispensing, different dispensing methods)		✔
SPS-Functions, microjet dispensing, (order hardware separately)	✔	✔
Workpiece copies	✔	✔
Edit machine parameters, assistant for individual installation	✔	✔
NC-Programming by texteditor and 3D-simulation	✔	✔
Teach In (Save manual positions, autom. generation of NC-Code)	✔	✔
G- and M-Codes (standard after DIN/ISO and machine specific)	✔	✔
Syntax-check, on/off	✔	✔
More than 5000 codesentences until limitation of memory		✔
Macro-programming (standard cycles, spindel on/off, individual)		✔
File-import DIN/ISO 66025 via adapted postprocessor	✔	✔
CAD part (draw by mouse or graphic dialogue, edit, convert)	✔	✔
Organisation via tree in groups (layers)	✔	✔
More than 3 groups of drawing elements (max. 30)		✔
Draw/edit all geometrical basic elements, engraving texts, dimensioning, lettering	✔	✔

Feature	Col1	Col2
Operations: Shift, copy, scale, trim, catch, grid and others	✔	✔
Spec. machine related drawing elements (thread, gear, pcb, 3Dpolygon, bore holes)	✔	✔
Draw in levels (up to 6 for multilateral machining)	✔	✔
Draw turning contour and surface elements *Turn & Mill*		✔
Undo in more than 3 levels (max. 10, 200 drawing elements)		✔
2D file import DXF, HPGL, 1 x image (GIF, JPG, PNG).	✔	✔
3D- drawing (plastic zones) with STL-generation *Contour & Body*		✔
- STL-viewer, interactive, with zoom and rotate		✔
- 6 different methods from contour to 3D-body		✔
CAM-Module (define and assign technologies)	✔	✔
Paths, contour correction (radius correction), pocket, pocket with isle, infeed tot./part.	✔	✔
Group technology, indiv. technology, change order of machining	✔	✔
Start height, safety distance, interruption for manual operation	✔	✔
Multiple lateral machining, support of axes with angle position		✔
SPS-functions integrated (hardware existing)	✔	✔
Support of tool geometry, shaft	✔	✔
Extended 4-axes-machining with turning unit (optional hardware turning unit)		✔
Approach and depart, infeed/out via 3D-polygon		✔
Special cycles for boring, thread cutting, engraving	✔	✔
3D-**Simulation** with tool/workpiece graphics, with NC-sentences and single step	✔	✔
3D milling machining of STL-files *Quick & Simple*, with assistant		✔
3D milling machining with external CAM as extension, on demand		✔
3D file import STL		✔
Support of specific tool geometries (ball, radius....) with 3D		✔
File operations (load, save with documentation elements)	✔	✔
Open more than 1 file (up to 5 at a time)		✔
Network ability	✔	✔
Licencing via code key with first start	✔	✔
Service-file generable	✔	✔
Special functions and extensions, for extra charge		✔
3D-scanning, 3D-print with extruder (equipment existing)		✔
Axes switch		✔
Depth-controlling/measuring, by contact or by distance sensor		✔
Service performances (DL-functions) after separate list, please contact us		✔
Drive double axis (gantry)		✔
Servo drives		✔
Help/Support by MAX computer & mechatronics	✔	✔
Bringing in service/First steps (videoclips, assistants)	✔	✔
Help topics as integrated helpfile or as PDF	✔	✔
Hotline at fixed hours		✔
e-mail in special cases	✔	✔
Support via internet (download, FAQ,)	✔	✔
Operating manual with the delivered system KOSY or by OEM-partner	✔	✔