

PROGRAMMING SYSTEM Solo PROFESSIONAL

DCAMCUT Solo PROFESSIONAL is a powerful CAD/CAM system for Wire EDM programming, beginning with 2-Axis up to 4-Axis that works directly on 2D and 3D CAD models.

Besides the integrated technology databases for all common machines, the efficient solution offers you extensive possibilities for import and export of CAD data. All the interfaces for direct data transfer from external systems are already included as standard.

DCAMCUT Solo PROFESSIONAL contains the CAD package **EDMCAD I**, the design environment to create individual parts.

The scope of services can optional be extended by the following packages:

- **EDMCAD II** consists parametric CAD design for the construction of individual parts, assemblies & derived drawings based on sketches
- **EDMCAD III** consists parametric CAD design for the construction of individual parts, assemblies & derived drawings based on sketches incl. dimensioning and element dependencies.
- **Automation module** Automate processing sequences using color coding and names. I.e. select contours, assign contour properties, automatically assign job and cutting sequence definitions and cutting schemes.
- **MDSC module** For Mitsubishi, Sodick and Fanuc: Create multiple clamping with corresponding machining programs in a main program. Manage events and machining groups on the machine (batch machining). Create NC program output to different machine types with just one programming run.



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*Supported machines for the multi-axis modules on request.

FUNCTIONAL SCOPE Solo PROFESSIONAL

The DCAMCUT PROFESSIONAL SOLO package offers the following services:

EDMCAD I

CAD design environment for creating of individual parts, assemblies & derived drawings

2D Contour Generation

2D contour definition based on CAD-sketches

2-level Contour Generation

Controlled surface machining via existing upper and lower contour and synchronization lines (sketches)

2-Axis pocketing

Standard 2-axis pocketing

Standard Simulation

Standard simulation incl. offset surface calculation & visualization for all interfaces

Solid Simulation

Solid simulation for 3D visualization incl. separation check & removability-analysis

Parametrics

Associativity of existing EDM-jobs into model changing (automatic recalculation on volume models, surface models and sketches)

4-Axis Contour Definition

4-axis contour generation on volume & surface models

Feature Recognition

Automatic recognition & generation of EDM-contours on volume & surface models incl. filter functions

Template Technology

Generation and listing of contour, job & program templates

NC Browser

NC Browser technology incl. graphic feedback



SERIAL FUNCTIONS Solo PROFESSIONAL

- Global corner rounding
- Automatic gap closing in CAD-data
- Controlled synchronization on 2-level models
- Contour duplication with attached EDM technology
- Implementation of different approach/retraction strategies
- Simple programming of contour multiple connections
- Integrated finish-cut module with freely definable skim-cut strategies
- Free positioning between contours (via action-points) with and without wire
- Punctual manipulation of single contour elements (offset change, conic change, machine-specific commands)
- Automatic classification of the start points through the contour via drawn boreholes
- Multiple definition of boreholes
- Forced perpendicular approach/retraction
- Multiple definition of action points
- Cut off function after skim-cuts
- Overcut with full technology
- Shortened approach for skim-cuts
- Skim-cuts offset
- NC Data output with unicode-characters
- Adaption of local coordinate systems
- Filter for contour selection
- Contour & NC program code information while solid simulation



CAD-EXPANSION BUNDLE Solo PROFESSIONAL

Included CAD Interfaces:

- DWG (*.dwg)
- DXF (*.dxf)
- IGES (*.igs; *.iges)
- STEP AP203/214 (*.step; *.stp)
- Parasolid (*.x-t; *.x_b; *.xmt_txt; *.xmt_bin)
- ProE (*.prt; *.xpr; *.asm; *.xas)
- Unigraphics (*.prt)
- Inventor (*.ipt; *.iam)
- SolidWorks (*.sldprt; *.sldasm)
- Solid Edge (*.par; *.psm; *.asm)
- Rhino (*.3dm)
- ACIS (*.sat)
- VDAFS (*.vda)
- VRML (*.vrl)
- STL (*.stl)
- Adobe Photoshop Files (*.psd)
- Adobe Illustrator Files (*.ai)
- CADKEY (*.prt; *.ckd)
- IDF (*.emn; *.brd; *.bdf; *.idb)
- CATIA Graphics (*.cgr)



MINIMUM SYSTEM REQUIREMENTS Solo PROFESSIONAL

- Current Intel or AMD processor with SSE2 support
- 64-bit operating system recommended
- Microsoft Windows 10 Professional / 64 Bit
 - With CAD SolidWorks 2022 Microsoft Windows 10, 11/ 64 Bit
- 16 GB system memory (RAM)
- 30 GB hard disk space
- graphic card: <https://www.solidworks.com/support/system-requirements>
- USB interface or broadband Internet connection

We would like to remind you that a valid maintenance contract gives an opportunity to get the latest updates, new product versions and our hotline support services.



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