

PROGRAMMING SYSTEM DCAMCUT EXPERT for SolidWorks

DCAMCUT EXPERT for SolidWorks is a CAM solution from DCAM that can be fully integrated into the existing SolidWorks CAD environment.

This efficient software offers simple and fast programming options directly within the SolidWorks design environment. In addition to many other functions, complete technology databases are also available for all common machine brands.

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

- **Multiaxis module I*** (erosive grinding)
- **Multiaxis module II*** (erosive grinding & multiplane machining indexed)
- **Multiaxis module III*** (erosive grinding, multiplane machining indexed & multiaxis machining simultaneous)
- **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.

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

MINIMUM SYSTEM REQUIREMENTS DCAMCUT EXPERT for SolidWorks

- 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 and/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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FUNCTIONAL SCOPE DCAMCUT EXPERT for SolidWorks

The DCAMCUT EXPERT for SolidWorks 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

Partial Destruction

2-Axis partial destruction

Destruction with predefined islands with target offset

2-Axis destruction with predefined islands with target offset

4-Axis Destruction

4-Axis destruction, 4-Axis destruction with predefined islands & 4-Axis partial destruction

Space Curve

Space curve processing for 3D curves

Approximation

Reduction of linked line elements within a user specified tolerance into arcs, circles & lines (optional CAD output)



SERIAL FUNCTIONS DCAMCUT EXPERT for SolidWorks

- 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

