

PROGRAMMING SYSTEM DCAMCUT EXPERT for SolidWorks

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

The efficient solution offers simple and fast programming options directly within the SolidWorks design environment and, in addition to many other functions, also provides complete technology databases for all common makes of machine.

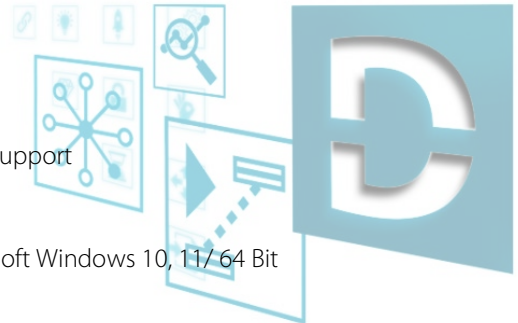
The scope of services can optional be extended by the following packages:

- Multiaxis module I (erosive grinding)
- Multiaxis module II (erosive grinding & multiplane machining indexed)
- Multiaxis module III (erosive grinding, multiplane machining indexed & simultaneous multiaxis machining; simultaneous wire EDM with single-axis rotary table connected with u/v-axis)
- Multiaxis module IV (erosive grinding, multiplane machining indexed & multiaxis machining simultaneous) and freeform Wire EDM with Guiding Curve

Minimum system requirements:

- 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)
 - 12 GB hard disk space
 - graphic card:
- <https://www.solidworks.com/support/system-requirements>
- USB interface or broadband Internet connection (DVD on request)

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.



FUNCTIONAL SCOPE DCAMCUT EXPERT for SolidWorks

The DCAMCUT EXPERT for SolidWorks package offers the following services:

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 clearing

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

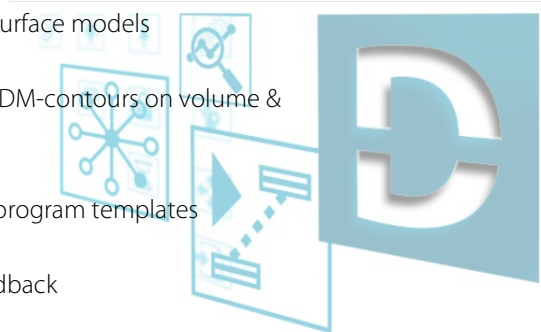
4-Axis destruction, 4-Axis destruction with predefined islands & 4-Axis partial destruction

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

