FANUC
RoboCut CAMi

Programming Software for all FANUC Wire EDM Machines
Immediate HELP screens available for any icon by using the F1 key.
In addition, when the mouse cursor hovers over any icon, a text box explanation displays the exact function of that icon.

Dimensioning
Part geometry can be dimensioned, saved and printed. The dimensioned layer can be turned off and on again at any time.

Job Quoting
Cycle times are easily determined. A handy feature for job quoting and scheduling. After the program is created, an icon can be picked and the screen below is displayed.

Features:
STEP (Solid Model) Files can be Imported
Programming Taper
RoboCut CAM\textsuperscript{i} simplifies the programming of complex tapered figures where the angle of taper varies from one element to another. Several methods of creating corner radii are provided. Top and bottom corner radii can be set to match or specified individually.

Programming a Die With Land and Relief
Dies with land and relief angles are programmed easily by defining the overall part height and land thickness. The programmer can set the land at the top or bottom of the part and choose the order for cutting the land and relief angle.

Programming 4-Axis Shapes
This cutting function simplifies the programming of parts with different shapes at top and bottom. An animated simulation displays the movement of the upper and lower nozzles and wire during the cutting process.

Designed specifically for all FANUC wire EDM Machines
The powerful yet user friendly AI cutting condition setting screen allows the operator to specify the number of cuts, surface finish, accuracy, punch or die shape, and will then display recommended settings to choose from.
powerful software designed to take full advantage of the advanced features of FANUC i Series EDM machines and controls.

Coreless Cutting
This function facilitates the programming of shapes as well as multiple circular patterns. User may select either the polygon method or offset method for creating an optimized wire path.

Cutting Multiple Shapes
RoboCut CAMi offers a variety of choices when cutting more than one shape. Multiple cutting strategies can be selected to easily create a program that will maximize the unattended cutting time of the machine, or finish one part at a time

Error Trapping
Mistakes made when processing a drawing will cause error messages to be embedded within a specially formatted version of the G-code program. This prevents programs from being created that will cut bad parts.

*** Start of NC data preparation ***
%
O0001
G00G40G50
M21P2
M88
(FIG#1 / CONTOUR - 1)
M21B1H50W0
S0D0G04X2.
M15P0
G92X0.00000Y0.00000I0.50000J0.00000
G90G01G41X0.Y0.5

MKNCDFTER-W 121: Approached position is inside of the figure. At least one of the approached positions to the approach elements is inside of the upper or lower contours, seen from the start point.
X0.5G61R0.25
Y-0.5R0.25
X-0.5R0.25
Y0.5R0.25
X-0.1
M01
X0.
M00
G40Y0.
G90G00X0.Y0.
M30
%
*** End of NC data preparation ***

Rendering
Automatically installed with RoboCut CAMi, rendering software displays a solid view of the part and simulates the actual machine movement while post-processing the program. Two different nozzle colors are used to indicate excessive taper angles, while the maximum taper angles are displayed.

Drag and Drop Program Transfer
Programs can easily be loaded into each machine by selecting the machine from the left window, and then dragging the program from the top window to the bottom window.
Additional Features

Backplotting: Any G code program can be plotted out and converted into geometry, which can then be modified and re-programmed. This saves time from re-drawing a part from scratch.

Layering: 256 Layers (Draw/Show/Select Settings)
- Show Layer Setting
- Select Layer Setting

Printing Figures: Prints figures from the drawing window and adjusts the printed image to specified scale

CAD Data Conversion: DXF Format
- IGES Wire Frame Format
- Step File Format

Preparation of NC Data: Selection of NC Data Format
- Confirmation During/After Execution
- Tool Path Drawing
- Absolute position display of wire position
- Single Step
- Offset Interference Checking
- Remove Interfering Elements (Auto-Trim)

Machining Figures: Straight Figures
- Taper Figures
- 4-axis Independent Figures
- Die with land and relief figures
- Form Tools
- Involute Gears

Machining Functions: Maximum number of cuts per machining figure: 8
- Cutting Multiple Figures
- Closed figure cutting
  - Punch (Cutting Methods: 6)
  - Die (Cutting Methods: 4)
- Open figure cutting (Cutting Methods: 4)
- Reverse Cutting
- AI cutting condition setting (Standard/User Conditions)
- Cutting condition registration (User Conditions)
- Machine Support Functions
  - AI Corner Control
  - AWF (Automatic Wire Feed)
  - AWF Result Monitor
  - Retrace

Minimum System Requirements

Operating Systems: Windows® 7, 8, 8.1

CPU: 32 Bit (x86) or 64 Bit (x64) at 1GHz or higher

RAM: 1GB (32 bit)
- 2GB (64 bit)

Drives: Hard Drive: 16GB minimum
- CD-ROM Drive

Cards: 3D Video Accelerator Card

Monitor: SVGA or XGA; 1024x768 Resolution or Higher

Mouse: Two Button

Ports: Network Card with Ethernet Port
- USB Port

Included with RoboCut CAMi

- Software CD
- USB Protector Key
- Software Manual
- Registration Card

Support

Free phone support to the original purchaser:
- Free upgrades if you purchase a newer model machine and your version of RoboCut CAMi does not support it.

No annual support contracts ever need to be purchased.

Product support is available at our Technical Centers

Training

Each seat of RoboCut CAMi includes free training for two people within the first year of purchase.

These three day training courses are available at our Technical Centers throughout the year.

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