visualcam fikus

for milling
2D, 2.5D & 3D

fikus visualcam for milling offers a quick and productive solution for programming milling machines and CNC machining centres. **fikus visualcam** has been developed to speed and solve quickly any shop floor milling job in 2 dimensions (pockets, drills, slots and contours), 2.5 dimensions like shaped walls pockets or complex 3D surfaces.

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Key Features

■ Complete solution for milling in 2 and 2.5 axes: Prefinish, finish, drill cycles, slots...

■ Strong functions for 3D complex surfaces machining: roughing, finishing, re-finishing, bi-tangencies...

■ Drilling Wizard, that automatically recognizes drilling types

■ Logical process of machining.

■ Post-processors optimized for any machine model for efficient tool-paths.

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Ease to use. The CAM manager guides the user through the parts' programming logic process, from geometric definition to creation, calculation, simulation and post-processing of NC machines' programmes.

Create and modify the geometry. If you need to draw geometry entirely, or from a previous plan, or if you must import it from another CAD system and must be modified, **fikus visualcam** CAD software offers you powerful functions to create and edit geometry:

■ Functions to generate and modify wire geometry.
■ Contour extracting and surface manipulation.
■ Gear creation, text and geometry reduction.
■ Edition quick bar to move, copy, scale and modify geometry.

Apply the technology. The technologic processes are applied combined to many geometries, with different heights and positions. **fikus visualcam** software controls the interactions between the different holes and punches. For this reason, the software optimizes the machine program with sub-routines and repetitions, using cycles and specific machine functions.
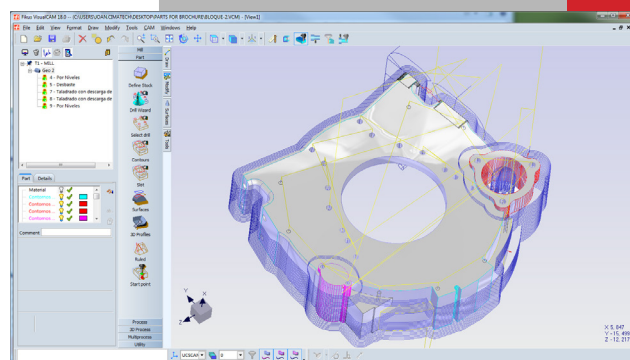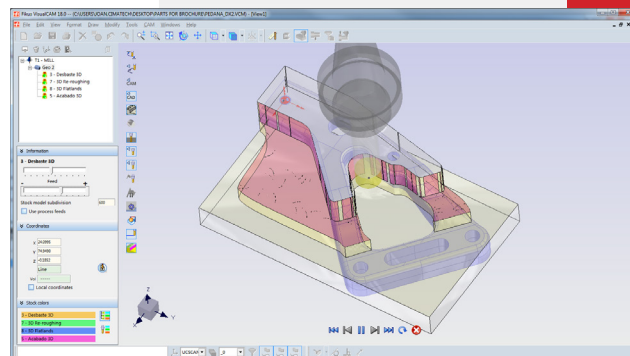

Machining manager
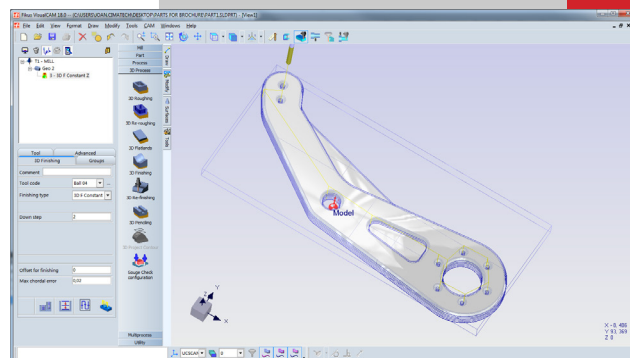
Machining process and parameters
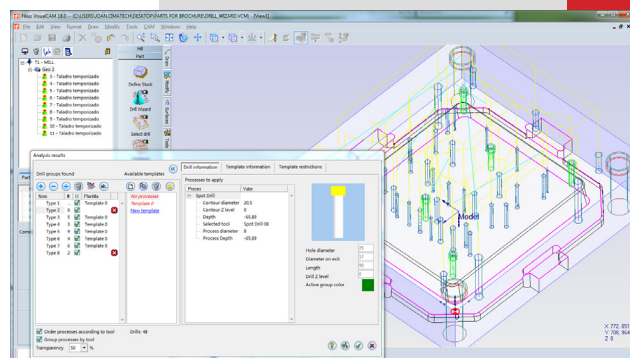

Drills automatic recognition wizard

Machining simulation

The machining strategy for a specific part can be stored in a **Multiprocess Template.** When you need to machine a similar part, you only need to apply the template and the machining process will be configured quickly and safely. **The Drill Wizard**, which recognizes the drills in 3D and classifies them by type, develops the optimum machining routine automatically.

The **Surface Machining Module** has all the necessary functions to machine complex 3D surfaces, included advanced optimization options.
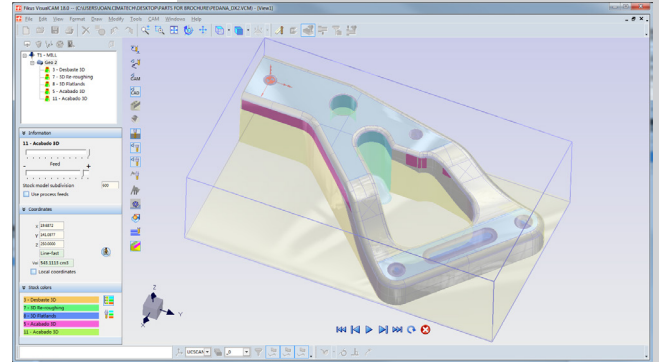
Part definition. Select the contour to rough and finish. If necessary, you can add a draft angle to the walls or create special form surfaces. You can select as well 3D curves and complex surfaces.

Machining processes. When the part is already defined, is time for machining. We must apply to the geometry a process for drilling, roughing, finishing or slotting, and to define the technological parameters (tools, feeds...). That's all you need.

Do you need to repeat the same process changing only some parameters? You only need to "copy and paste" and change the relevant values. Re-organize your processes by only dragging with the mouse.

Templates. Is your machining strategy well defined and tested? Store it as a template and use it again with other similar parts; you will be sure using a tested efficient strategy.

Drills. Do you need to make many drills? fikus visualcam selects them automatically -including different planes orientations-, classifies them by types and machines them. You only need to "teach" the program how to do it the first time for any type of drill.

Calculation and simulation. Now is time for processing all the information. The software calculates all the data and allows you to simulate the machining in the computer. fikus visualcam will calculate the most efficient tool-paths and show it to you in a realistic way, together with the part, the material and the machine shown as solids.

Post-processing and verifying. Finally you can generate your machining programme using your machine's specific post-processor provided by fikus visualcam. You can verify the program with the CNC editor or, directly, send it to the machine.

Other functions. fikus visualcam offers you many other useful functions like: report generator, tools library for different tools and materials, machining transformations (matrix, copies...) and many more functions.

Machining report for shop floor

Machining simulation showing the finished part

Post-processors

Fikus Visualcam for Milling includes postprocessors for most of CNC controls in the market, as:

- HEIDENHAIN
- OKUMA
- FANUC
- SIEMENS
- FAGOR
- SELCA

Data Interface

- IGES
- Solidworks
- DWG
- Parasolid
- DXF
- Cimatron E
- STEP
- ISO Formats
- HPGL
- Bitmap Files

System requirements

- PC Computer with processor Intel Core 2 Duo 2GHz or higher (i7 recommended)
- RAM Memory: 2GB or bigger
- Graphic Card with OpenGL (NVIDIA recommended)
- Operating System: Microsoft Windows XP, Vista, 7 or 8 (32 and 64 bit)
- CD/DVD unit
- Hard Disk: 1GB free
- 3 butons mouse

Available languages

Catalan, Chinese, English, French, German, Italian, Polish, Portuguese, Russian, Spanish and Turkish.

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