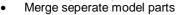
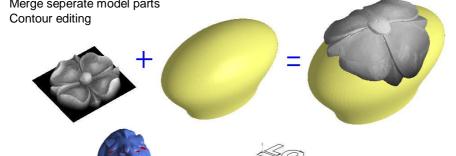


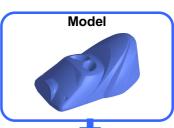
When your looking for that competitive edge in 3/4/5 axis and more!

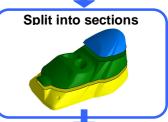
Indispensable tools for model preparation prior to machining

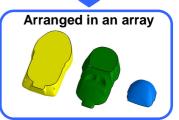
- Splitting / dividing of models when:
 - Model size exceed the CNC machines capacity.
 - Zones of the model are inaccessable.
- Automatically or manually create an optimised array of nested parts.
- Re-orientate a model according to any reference face with the mouse.
- Powerful interactive object placement tool.
- Extract any curve on the model with automatic control of the silhouette, the edges of the horizontal planes, the partion lines...
- Select, mask and fill holes.
- Projection and mapping of textures and designs to create detailed reliefs.
- Punch and die feature with constant offset for forming tools.
- Adjust the mesh with intelligent decimation.
- Display grids in greyscale and colour mapping

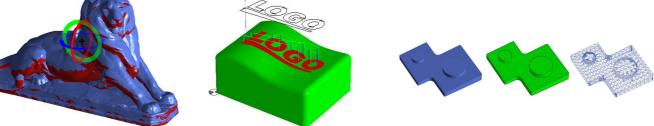






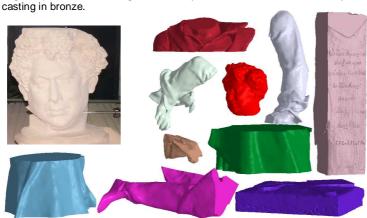






Meet the real world with Mayka ...

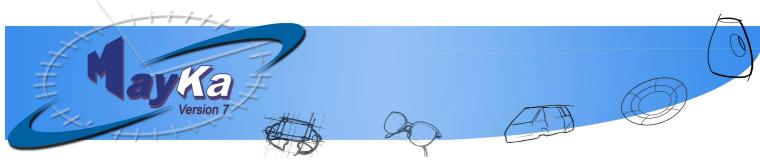
When Alexander Dumas (who wrote The Count of Monte-Cristo, Three Musketeers) needed to make an apperance after 200 years. His sculpture was scanned and imported into Mayka. Creaform used Mayka to scale and sliced it into manageble parts for machining. In a few days the 3 metre master was ready for casting in bronze.







Picasoft S.A.S. - Beauzy - Route de Châtres - 41300 Theillay - France - Tel : (33) 254 833 216 - Fax : (33) 254 833 572



The functionalities

2D machining

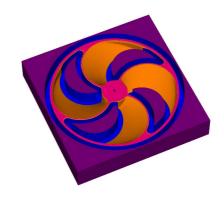
- Contouring with left and right tool compensation
- Spiral pocket roughing and finishing cycles
- Sweeping (Hatching) areas
- Contour centerline cutting
- Raised angle carving with conical tools

3D machining

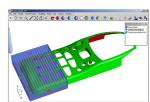
- 3, 4, 5 axis machining (4/5axis positioning & continuous)
- Cutting in all directions with cartessien, polar, conical, spherical and cylindrical methods.
- Inside and outside cylindrical cutting for rings etc.
- Optimised roughing with plunge, peck and ramp entry
- Model profiling of all boundries
- Z constant waterline cutting
- Automatic parallel planes cutting pocketing cycle's
- Cutting of all curved and non flat areas automatically
- Cutting limited to the partion line of the model
- Drilling, surfacing, core roughing
- Tool geometry and spindle collet collision detection.
- Residual machining during roughing. Mayka automatically limits the tool to the residual material of the original block and calculates a new residual block for the next process.
- Rest machining for finishing. Mayka shows the non machined surfaces, for example when the tool is too large for the models features. Then the following operation with a smaller tool will only cut the non machine sections.
- Tools specific to the machining of stone:
 - Epanelage (Slitting)
 - Core drilling with auto waste ejection cycle
 - Management of disc cutting tools
- Engraving of 2D outlines onto 3D models
- Machining of textures and reliefs to create detailed designs and lithophanes.
- Toolpath simulation and animation with cycle timings
- Rhinoceros 3D Plugin to transfer curves and meshes directly into Mayka.













5 axis JOBS CNC machine with Mavka Expert





Compatibility

Mayka Expert is full compatible with:

- 3D models: 3D-DXF, STL, Rhinoceros(3DM), 3DStudioMax(3DS)
- Images (gif, jpg, bmp) to utilise 3D grey scale levels
- Low reliefs: Type3 (vna), Stenza (mvg), Picza (pix), Terrain IGN.
- Vectors in 2D-DXF, Illustrator (ai & eps)

The powerful parameterised post processing engine allows all 3, 4 and 5 axis machines to be utilised with Mayka's post processors. Specific development is also available for special milling and robotic machine configurations.

