Floating Point Solutions Private Limited



Product Catalog

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MeshWorks 1.0

Home Page	:	http://www.fpsols.com/meshworks.html
Installer	:	http://www.fpsols.com/installers/MeshWorks.exe
PAD URL	:	http://www.fpsols.com/PAD/MeshWorks.xml
Price	:	500 USD
Description	:	MeshWorks - Advanced Mesh Editing Software

MeshWorks is an advanced mesh editing software built using the powerful MeshLib mesh library. With MeshWorks you can create, transform and modify meshes very easily.

A mesh is usually created by exporting a solid model from another CAD system. Meshes created this way are very difficult to modify and sometimes the very nature of their geometry renders them useless for further processing. MeshWorks gives you the power to manipulate meshes so that you can alter their geometry and make them suitable to your needs.

Some of the useful capabilities of MeshWorks are:

Surface Reconstruction: MeshWorks reads a point cloud from a text file and creates a mesh that wraps around the points. MeshWorks uses an advanced surfacing algorithm that accurately approximates the original surface.

Hollow & Offset: MeshWorks hollows a mesh to a specified wall thickness. The hollow can be internal or external or both. MeshWorks also offsets a mesh internally or externally.

Stitch Faces: Some CAD systems export meshes with loosely tied faces. The edges of adjacent faces seem to coincide to the naked eye, but actually there are minute needle shaped spaces between adjacent faces. MeshWorks stitches adjacent faces of a mesh together to remove the gaps.

Fill Holes: MeshWorks fills large holes present in a mesh. Holes can occur due to original geometry or due to other MeshWorks mesh editing commands such as clipping. Filling holes is essential to make a mesh water-tight.

Flip & Unify Face Normals: MeshWorks inverts a mesh by flipping the direction of the face normals. Sometimes the normals of a mesh are not consistent in their direction. MeshWorks unifies all the face normals so that they point in the same direction, i.e. inwards or outwards.

Sub-Divide Faces: MeshWorks sub-divides each face of a mesh to yield 4 faces to result in a high resolution mesh.

Smoothen: MeshWorks can smoothen meshes with jagged and rough surfaces. This "relaxes" the mesh and results in faces that are better shaped.

Decimate: MeshWorks can decimate a mesh to reduce the number of faces. This greatly simplifies large meshes with very high resolution.

Clip: MeshWorks can clip a mesh to cut away a portion of the mesh or divide the mesh into two parts by retaining the cut portion.

Standard Objects: MeshWorks creates standard objects such as box, sphere, cylinder, cone, torus and even text.

Measurement: You can measure vertices and distance between two vertices of a mesh. MeshWorks also calculates mass properties of meshes such as surface area and volume.

Transformations: You can move, align, rotate, scale, mirror and shear meshes precisely giving accurate values for the transformation parameters. You can also move, rotate and scale meshes free hand with the mouse.

Superior 3D Trackball Style Viewing: MeshWorks lets you view your models with the 3D trackball style mouse interface. Navigate easily through your drawing using the mouse with dynamic zoom, pan and orbit.

Colors & Transparency: MeshWorks allows you to assign colors and transparency to meshes so that you can see through them. This is very helpful when viewing hollowed models.

Multiple Projects with Clipboard Support: You can open multiple MeshWorks Project files and work with them simultaneously. You can cut or copy meshes from one project and paste them into another.

Print and Print Preview: MeshWorks supports the standard Windows print and print preview operations.

Import and Export: MeshWorks supports the following file formats:

- MeshLib Mesh File Format (.msh)
- Stereolithography File Format (.stl)
- Alias|Wavefront OBJ File Format (.obj)

MeshWorks Lite is a stripped down version of MeshWorks which does not have advanced mesh manipulation capabilities (The commands in the “Modify” menu are not available). It offers basic mesh modification and transformations. MeshWorks Lite is priced at USD 200.

Point Cloud 1.0

Home Page	:	http://www.fpsols.com/point_cloud.html
Installer	:	http://www.fpsols.com/installers/PointCloud.exe
PAD URL	:	http://www.fpsols.com/PAD/PointCloud.xml
Price	:	250 USD
Description	:	Point Cloud - Point cloud processing software

Point Cloud is a reverse engineering software to process point clouds. Point Cloud can reconstruct a triangular mesh over a cloud of points or drape a surface over the points.

A point cloud can be created by scanning the surface of an object (surface scan) or by scanning the entire solid (solid scan). Point Cloud understands this difference and processes points differently in each case.

Point Cloud also has the ability to compensate for probe diameter. There is an inherent error with probe based scanners since they digitize points at the center of the probe. Point Cloud takes care of this very efficiently.

DWG DXF Convert 1.0

Home Page : http://www.fpsols.com/dwg_dxf_convert.html
Installer : http://www.fpsols.com/installers/DWGDXFConvert.exe
PAD URL : http://www.fpsols.com/PAD/DWGDXFConvert.xml
Price : 40 USD
Description : DWG DXF Convert - Convert DWG DXF files without AutoCAD

DWG DXF Convert is an AutoCAD DWG/DXF bi-directional translator built using the powerful DWGDXFLib library. It converts an AutoCAD DWG file into an AutoCAD DXF file and vice-versa without the need of AutoCAD. DWG DXF Convert also supports batch conversions of multiple DWG or DXF files.

DWG DXF Convert allows you to choose the AutoCAD version of the output DWG/DXF file. The versions supported by DWG DXF Convert are:

- AutoCAD Release 9
- AutoCAD Release 10
- AutoCAD Release 11/12
- AutoCAD Release 13
- AutoCAD Release 14
- AutoCAD 2000/2000i/2002
- AutoCAD 2004/2005

DWG DXF Convert is very easy to use. Simply select the input and output DWG/DXF file names and the output AutoCAD version.

A command line version of DWG DXF Convert is also available. The command line version is priced at 200 USD

AutoProject for AutoCAD

Home Page	:	http://www.fpsols.com/autoproject.html
Installer	:	http://www.fpsols.com/installers/AutoProject.exe
PAD URL	:	http://www.fpsols.com/PAD/AutoProject.xml
Price	:	100 USD
Description	:	AutoProject for AutoCAD - AutoCAD plug-in to project 3D entities to a 2D plane

AutoProject for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to project 3D entities to 2D entities in the XY plane in the AutoCAD model space.

A common but inefficient method of creating workshop ready drawings is to create the top view, the front view, a side view and sometimes an isometric view of a 3D model all in the 2D XY plane. Then these 3 or 4 views are placed relative to each other to give the end user a complete idea of what the 3D model is all about. Experienced draftsmen have confirmed that the isometric view is the one that takes most of the time, whereas the orthographic views only end up adding to the time spent in completing the drawing. A closer look at this method will show you that, in effect, you are drawing a single entity 4 times over, one for each view.

With AutoProject for AutoCAD you can drastically reduce the time spent in creating a workshop ready drawing, while making full use of the AutoCAD 3D functionality. All you have to do is create a 3D drawing of the model you wish to describe and AutoProject for AutoCAD will take care of the rest. With AutoProject for AutoCAD you can create 6 orthographic views and 8 isometric views within no time.

Point Cloud for AutoCAD

Home Page	:	http://www.fpsols.com/point_cloud_ac.html
Installer	:	http://www.fpsols.com/installers/PointCloudAC.exe
PAD URL	:	http://www.fpsols.com/PAD/PointCloudAC.xml
Price	:	250 USD
Description	:	Point Cloud for AutoCAD - AutoCAD plug-in to convert a point cloud into a surface

Point Cloud for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD to ability to process point clouds. You can import a point cloud into AutoCAD as it is or fit a surface that passes through the points to recreate the original object. This is ideal for reverse engineering and GIS applications. There are different ways of fitting a surface depending on the nature of the point cloud.

Point Cloud for AutoCAD also has the ability to compensate for probe diameter. There is an inherent error with probe based scanners since they digitize points at the center of the probe. Point Cloud for AutoCAD takes care of this very efficiently.

Point Cloud for AutoCAD has a wizard that helps you process point clouds. When working with the wizard you can switch to "Expert" mode at any time.

Point Cloud for AutoCAD is very easy to use. It adds a new command to AutoCAD called "POINTCLOUD". Simply type "POINTCLOUD" at the AutoCAD command prompt and follow the simple instructions.

Points Import for AutoCAD

Home Page	:	http://www.fpsols.com/points_import_ac.html
Installer	:	http://www.fpsols.com/installers/PointsImportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/PointsImportAC.xml
Price	:	30 USD
Description	:	Points Import for AutoCAD - AutoCAD plug-in to import a point file

Points Import for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to import points from text files.

Reverse Engineering, GIS and similar applications create point files as output. Points Import for AutoCAD reads these text point files and imports the points into the current drawing in AutoCAD.

Points Import for AutoCAD is very easy to use. It adds a new command to AutoCAD called "POINTSIN". Simply type "POINTSIN" at the AutoCAD command prompt and select a point file to import.

IGES Import for AutoCAD

Home Page	:	http://www.fpsols.com/iges_import_ac.html
Installer	:	http://www.fpsols.com/installers/IGESImportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/IGESImportAC.xml
Price	:	200 USD
Description	:	IGES Import for AutoCAD - IGES file import plug-in for AutoCAD

IGES Import for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to import geometric data from ASCII IGES files.

The Initial Graphics Exchange Specification (IGES) file format standard was developed to address the incompatibility issue with various CAD/CAM systems. This standard allows efficient and accurate exchange of product definition data across almost all CAD/CAM systems.

IGES files contain graphical data in the form widely accepted by most CAD/CAM systems. IGES Import for AutoCAD converts this geometric data into corresponding AutoCAD entities and adds them to the contents of the currently opened AutoCAD drawing.

IGES Import for AutoCAD is very easy to use. It adds a new command to AutoCAD called "IGESIN". Simply type "IGESIN" at the AutoCAD command prompt and select an IGES file to import.

STL Import for AutoCAD

Home Page	:	http://www.fpsols.com/stl_import_ac.html
Installer	:	http://www.fpsols.com/installers/STLImportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/STLImportAC.xml
Price	:	200 USD
Description	:	STL Import for AutoCAD - STL file import plug-in for AutoCAD

STL Import for AutoCAD is a STL file import plug-in for AutoCAD. STL Import for AutoCAD gives AutoCAD the ability to import geometric data from ASCII as well as binary Stereolithography (STL) files.

The STL file format is the Rapid Prototyping industry's standard data transmission format and is the format required to interact with stereolithography machines. Stereolithography files contain solids which are made up of 3 sided facets. STL Import for AutoCAD converts these facets into a single AutoCAD PolyFace Mesh entity and adds it to the contents of the currently opened AutoCAD drawing.

STL Import for AutoCAD is very easy to use. This plug-in adds a new command to AutoCAD called "STLIN". Simply type "STLIN" at the AutoCAD command prompt and select a STL file to import.

STL Export for AutoCAD

Home Page	:	http://www.fpsols.com/stl_export_ac.html
Installer	:	http://www.fpsols.com/installers/STLExportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/STLExportAC.xml
Price	:	200 USD
Description	:	STL Export for AutoCAD - STL file export plug-in for AutoCAD

STL Export for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to export geometric data to ASCII as well as binary Stereolithography (STL) files.

AutoCAD already has a "STLOUT" command which exports STL files. But unfortunately it has some limitations. Firstly, it exports only 3D Solids and that too only one at a time. It does not export 3D Face, Polygon Mesh and Polyface Mesh entities which can very well be a part of a STL model. STL Export for AutoCAD addresses these issues. With STL Export for AutoCAD you can now export multiple 3D Solid, 3D Face, Polygon Mesh and Polyface Mesh entities to a single STL file.

STL Export for AutoCAD is very easy to use. It adds a new command to AutoCAD called "STLEX". Simply type "STLEX" at the AutoCAD command prompt and select the entities to export.

OBJ Import for AutoCAD

Home Page	:	http://www.fpsols.com/obj_import_ac.html
Installer	:	http://www.fpsols.com/installers/OBJImportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/OBJImportAC.xml
Price	:	200 USD
Description	:	OBJ Import for AutoCAD - Wavefront OBJ file import plug-in for AutoCAD

OBJ Import for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to import geometric data from ASCII Alias Wavefront OBJ files.

Alias is the world's leading innovator of 2D/3D graphics technology for the film, video, games, interactive media, industrial design, automotive industry and visualization markets. Their OBJ ASCII file format is widely accepted the world over for exchanging data between CAD applications.

OBJ files contain solids which are made up of 3 or 4 sided faces. OBJ Import for AutoCAD converts these faces into a single AutoCAD PolyFaceMesh entity and adds it to the contents of the currently opened AutoCAD drawing.

OBJ Import for AutoCAD is very easy to use. It adds a new command to AutoCAD called "OBJIN". Simply type "OBJIN" at the AutoCAD command prompt and select an OBJ file to import.

OBJ Export for AutoCAD

Home Page	:	http://www.fpsols.com/obj_export_ac.html
Installer	:	http://www.fpsols.com/installers/OBJExportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/OBJExportAC.xml
Price	:	200 USD
Description	:	OBJ Export for AutoCAD - Wavefront OBJ file export plug-in for AutoCAD

OBJ Export for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to export geometric data from AutoCAD to Alias Wavefront OBJ files.

Alias is the world's leading innovator of 2D/3D graphics technology for the film, video, games, interactive media, industrial design, automotive industry and visualization markets. Their OBJ ASCII file format is widely accepted the world over for exchanging data between CAD applications.

OBJ Export for AutoCAD can export the following AutoCAD entities: 3D Face, Polygon Mesh, PolyFace Mesh and Solid. These entities form the backbone of any 3D drawing.

OBJ Export for AutoCAD is very easy to use. It adds a new command to AutoCAD called "OBJOUT". Simply type "OBJOUT" at the AutoCAD command prompt and select the entities to export.

PIX Import for AutoCAD

Home Page	:	http://www.fpsols.com/pix_import_ac.html
Installer	:	http://www.fpsols.com/installers/PIXImportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/PIXImportAC.xml
Price	:	200 USD
Description	:	PIX Import for AutoCAD - Dr. Picza PIX file import plug-in for AutoCAD

PIX Import for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to import geometric data from PIX files.

PIX files are the native file format of a digitizer software called Dr. Picza which comes bundled with Roland DG digitizers. PIX Import for AutoCAD gives AutoCAD the ability to import data from PIX files. You can import the data as points, lines, polylines, splines, faces, polyface mesh or polygon mesh.

PIX Import for AutoCAD is very easy to use. It adds a new command to AutoCAD called "PIXIN". Simply type "PIXIN" at the AutoCAD command prompt and select a PIX file to import.

HPGL Import for AutoCAD

Home Page	:	http://www.fpsols.com/hpgl_import_ac.html
Installer	:	http://www.fpsols.com/installers/HPGLImportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/HPGLImportAC.xml
Price	:	200 USD
Description	:	HPGL Import for AutoCAD - HPGL PLT file import plug-in for AutoCAD

HPGL Import for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to import geometric data from HPGL Plot (PLT) files.

HPGL is the Hewlett Packard Graphics Language designed for specifying 2D graphical information for the HP range of plotters. It was not intended as an interchange format but some software suppliers use it as such. HPGL is a command set embedded in the ROM of pen plotters to help reduce the work required by applications programmers to create plotted output. HPGL uses two-letter mnemonics as instructions for drawing lines, circles, text, and simple symbols.

HPGL plot files contain information regarding the movement of the pen of the HP plotter. HPGL Import for AutoCAD converts these pen movements into AutoCAD entities and adds them to the contents of the currently opened AutoCAD drawing. HPGL Import for AutoCAD supports plot files created by drivers for the following plotters:

- Hewlett-Packard 7475A
- Hewlett-Packard 7550A
- Hewlett-Packard 7580B
- Hewlett-Packard 7585B
- Hewlett-Packard 7586B
- Hewlett-Packard Draftmaster 1 (7595A)
- Hewlett-Packard Draftmaster 2 (7596A)
- Hewlett-Packard Draftpro (7570A)
- Hewlett-Packard Draftpro-DXL (7575A)
- Hewlett-Packard Draftpro-EXL (7576A)

HPGL Import for AutoCAD is very easy to use. It adds a new command to AutoCAD called "HPGLIN". Simply type "HPGLIN" at the AutoCAD command prompt and select a HPGL Plot (.plt) file to import.

NC Import for AutoCAD

Home Page	:	http://www.fpsols.com/nc_import_ac.html
Installer	:	http://www.fpsols.com/installers/NCImportAC.exe
PAD URL	:	http://www.fpsols.com/PAD/NCImportAC.xml
Price	:	200 USD
Description	:	NC Import for AutoCAD - Numeric Control NC file import plug-in for AutoCAD

NC Import for AutoCAD is a plug-in for AutoCAD. This plug-in gives AutoCAD the ability to import Numeric Control files.

CNC Machines worldwide use Numeric Control files (.nc or .ncc) to convert programmed instructions to tool movement. NC programs consist of a sequence of codes with parameter data to arrive at a precise description of the toolpath. But the best of NC programmers also can make mistakes. NC Import for AutoCAD lets you import NC files into AutoCAD so that you can view the intended toolpath in 3D.

NC Import for AutoCAD converts the commands in NC files into the corresponding AutoCAD entities and adds them to the contents of the currently opened AutoCAD drawing.

NC Import for AutoCAD is very easy to use. It adds a new command to AutoCAD called "NCIN". Simply type "NCIN" at the AutoCAD command prompt and select a NC file to import.

STL Import for SolidWorks

Home Page	:	http://www.fpsols.com/stl_import_sw.html
Installer	:	http://www.fpsols.com/installers/STLImportSW.exe
PAD URL	:	http://www.fpsols.com/PAD/STLImportSW.xml
Price	:	200 USD
Description	:	STL Import for SolidWorks - STL file import add-in for SolidWorks

STL Import for SolidWorks is an add-in for SolidWorks. This add-in gives SolidWorks the ability to import graphical data from ASCII as well as binary Stereolithography (STL) files.

The STL file format has become the Rapid Prototyping industry's standard data transmission format and is the format required to interact with stereolithography machines. This format approximates the surfaces of a solid model with triangles.

Stereolithography files contain solids which are made up of 3 sided facets. STL Import for SolidWorks reads these triangular surfaces and knits them into a solid in a new SolidWorks part document. If the attempt to knit the surfaces into a solid succeeds, the solid appears as the base feature (named Imported1). If the surfaces represent multiple closed volumes, then one part is made for each closed volume. If the attempt to knit the surfaces fails, the surfaces are grouped into one or more surface features (named Surface-Imported1, 2, ...).

STL Import for SolidWorks is very easy to use as it adds a new file type to the SolidWorks File Open dialog box. To import a STL file select Open from the File menu. Select "Stereolithography Files (*.stl)" from the "File of type" combo box and select a STL file to import. A new part document will be created containing the imported STL file.

OBJ Import for SolidWorks

Home Page	:	http://www.fpsols.com/obj_import_sw.html
Installer	:	http://www.fpsols.com/installers/OBJImportSW.exe
PAD URL	:	http://www.fpsols.com/PAD/OBJImportSW.xml
Price	:	200 USD
Description	:	OBJ Import for SolidWorks - Wavefront OBJ file import add-in for SolidWorks

OBJ Import for SolidWorks is an add-in for SolidWorks. This add-in gives SolidWorks the ability to import graphical data from ASCII Alias|Wavefront OBJ files.

Alias is the world's leading innovator of 2D/3D graphics technology for the film, video, games, interactive media, industrial design, automotive industry and visualization markets. Their OBJ ASCII file format is widely accepted the world over for exchanging data between CAD applications.

OBJ files contain solids which are made up of 3 or 4 sided faces. OBJ Import for SolidWorks reads these surfaces and knits them into a solid in a new SolidWorks part document. If the attempt to knit the surfaces into a solid succeeds, the solid appears as the base feature (named Imported1). If the surfaces represent multiple closed volumes, then one part is made for each closed volume. If the attempt to knit the surfaces fails, the surfaces are grouped into one or more surface features (named Surface-Imported1, 2, ...).

OBJ Import for SolidWorks is very easy to use as it adds a new file type to the SolidWorks File Open dialog box. To import an OBJ file select Open from the File menu. Select "Wavefront Files (*.obj)" from the "Files of type" combo box and select an OBJ file to import. A new part document will be created containing the imported OBJ file.

OBJ Export for SolidWorks

Home Page	:	http://www.fpsols.com/obj_export_sw.html
Installer	:	http://www.fpsols.com/installers/OBJExportSW.exe
PAD URL	:	http://www.fpsols.com/PAD/OBJExportSW.xml
Price	:	200 USD
Description	:	OBJ Export for SolidWorks - Wavefront OBJ file export add-in for SolidWorks

OBJ Export for SolidWorks is an add-in for SolidWorks. This add-in gives SolidWorks the ability to export graphical data to ASCII Alias Wavefront OBJ files.

Alias is the world's leading innovator of 2D/3D graphics technology for the film, video, games, interactive media, industrial design, automotive industry and visualization markets. Their OBJ ASCII file format is widely accepted the world over for exchanging data between CAD applications.

OBJ Export for SolidWorks tessellates the surfaces of a part and writes the triangular surfaces of the part to an OBJ file.

OBJ Export for SolidWorks is very easy to use as it adds a new file type to the SolidWorks File Save As dialog box. To export an OBJ file select Save As from the File menu. Select "Wavefront Files (*.obj)" from the "Files of type" combo box and select an OBJ file to export.

HPGL Import for SolidWorks

Home Page	:	http://www.fpsols.com/hpgl_import_sw.html
Installer	:	http://www.fpsols.com/installers/HPGLImportSW.exe
PAD URL	:	http://www.fpsols.com/PAD/HPGLImportSW.xml
Price	:	200 USD
Description	:	HPGL Import for SolidWorks - HPGL PLT file import add-in for SolidWorks

HPGL Import for SolidWorks is an add-in for SolidWorks. This add-in gives SolidWorks the ability to import graphical data from Hewlett Packard Graphic Language Plot files.

HPGL is the Hewlett Packard Graphics Language designed for specifying 2D graphical information for the HP range of plotters. It was not intended as an interchange format but some software suppliers use it as such. HPGL is a command set embedded in the ROM of pen plotters to help reduce the work required by applications programmers to create plotted output. HPGL uses two-letter mnemonics as instructions for drawing lines, circles, text, and simple symbols.

HPGL plot files contain information regarding the movement of the pen of the HP plotter. HPGL Import for SolidWorks converts these pen movements into SolidWorks entities and adds them to the contents of a new SolidWorks drawing. HPGL Import for SolidWorks supports plot files created by drivers for the following plotters:

- Hewlett-Packard 7475A
- Hewlett-Packard 7550A
- Hewlett-Packard 7580B
- Hewlett-Packard 7585B
- Hewlett-Packard 7586B
- Hewlett-Packard Draftmaster 1 (7595A)
- Hewlett-Packard Draftmaster 2 (7596A)
- Hewlett-Packard Draftpro (7570A)
- Hewlett-Packard Draftpro-DXL (7575A)
- Hewlett-Packard Draftpro-EXL (7576A)

HPGL Import for SolidWorks is very easy to use as it adds a new file type to the SolidWorks File Open dialog box. To import a HPGL Plot file select Open from the File menu. Select "HPGL Plot Files (*.plt)" from the "File of type" combo box and select a PLT file to import. A new drawing document will be created containing the imported PLT file.

NC Import for SolidWorks

Home Page	:	http://www.fpsols.com/nc_import_sw.html
Installer	:	http://www.fpsols.com/installers/NCImportSW.exe
PAD URL	:	http://www.fpsols.com/PAD/NCImportSW.xml
Price	:	200 USD
Description	:	NC Import for SolidWorks - Numeric Control NC file import add-in for SolidWorks

NC Import for SolidWorks is an add-in for SolidWorks. This add-in gives SolidWorks the ability to convert tool movements in NC commands to corresponding lines and arcs in a SolidWorks 3D sketch.

CNC Machines worldwide use Numeric Control files (.nc or .ncc) to convert programmed instructions to tool movement. NC programs consist of a sequence of codes with parameter data to arrive at a precise description of the toolpath. But the best of NC programmers also can make mistakes. NC Import for SolidWorks lets you import NC files into SolidWorks so that you can view the intended toolpath in 3D and create curves and surfaces directly from the toolpath.

NC Import for SolidWorks is very easy to use as it adds a new file type to the SolidWorks File Open dialog box. To import a NC file select Open from the File menu. Select "Numeric Control Files (*.nc)" from the "File of type" combo box and select a NC file to import. A new part document will be created containing the imported NC file.

Points Import for SolidWorks

Home Page	:	http://www.fpsols.com/points_import_sw.html
Installer	:	http://www.fpsols.com/installers/PointsImportSW.exe
PAD URL	:	http://www.fpsols.com/PAD/PointsImportSW.xml
Price	:	200 USD
Description	:	Points Import for SolidWorks - Point file import add-in for SolidWorks

Points Import for SolidWorks is a add-in for SolidWorks. This plug-in gives SolidWorks the ability to import points from text files.

Points Import for SolidWorks is very easy to use as it adds a new file type to the SolidWorks File Open dialog box. To import a point file select Open from the File menu. Select "Point Files (*.txt)" from the "Files of type" combo box and select a point file to import. A new part document will be created containing the imported points.

MeshWorks for Rhino

Home Page	:	http://www.fpsols.com/meshworks_rh.html
Installer	:	http://www.fpsols.com/installers/MeshWorksRH.exe
PAD URL	:	http://www.fpsols.com/PAD/MeshWorksRH.xml
Price	:	500 USD
Description	:	MeshWorks for Rhino - Mesh manipulation commands for Rhino

MeshWorks for Rhino is a plug-in for Rhino. It adds a variety of mesh manipulation commands to Rhino. Some of the useful commands are given below:

Hollow	:	Hollows the mesh to a given wall thickness. Hollowing is particularly useful while preparing a model for Rapid Prototyping as it saves material, time and money while building a prototype.
Offset	:	Offsets a mesh to either shrink or expand it.
PointsToMesh	:	Creates a mesh from a set of points.
Stitch	:	Knits loosely tied faces of a mesh and attempts to make a mesh water-tight.
FillHoles	:	Adds faces to an existing mesh in order to fill any holes. The result is a water-tight mesh.
ExtractSolid	:	Extracts a solid from a mesh.
ExtractPlanarSurfaces	:	Extracts a planar trimmed NURBS surface from a mesh.
ExtractShells	:	Extracts connected surfaces from a single mesh and creates a new mesh for each connected surface. This is useful while working on different parts of a mesh.
ExtractSurfaces	:	Extracts surfaces of a mesh and creates a new mesh for each surface.
ExtractFeatures	:	Extracts features of a mesh. This is useful to create a NURBS model from a polygon mesh.
ExtractBoundaries	:	Extracts the boundaries of an open mesh.
SplitMesh	:	Splits a mesh with a planar surface into two parts.
Smoothen	:	Relaxes a mesh by removing sharp edges.
Decimate	:	Reduces the number of faces of a mesh while maintaining continuity in the topology.

MeshWorks for Rhino adds a new menu to the existing Rhino menu containing all the added commands. Simply use this menu to manipulate meshes.

Point Cloud for Rhino

Home Page	:	http://www.fpsols.com/point_cloud_rh.html
Installer	:	http://www.fpsols.com/installers/PointCloudRH.exe
PAD URL	:	http://www.fpsols.com/PAD/PointCloudRH.xml
Price	:	250 USD
Description	:	Point Cloud for Rhino - Rhino plug-in to convert a point cloud into a surface

Point Cloud for Rhino is a plug-in for Rhino. This plug-in gives Rhino the ability to process point clouds. You can import a point cloud into Rhino as it is or fit a surface that passes through the points to recreate the original object. This is ideal for reverse engineering and GIS applications. There are different ways of fitting a surface depending on the nature of the point cloud.

Point Cloud for Rhino also has the ability to compensate for probe diameter. There is an inherent error with probe based scanners since they digitize points at the center of the probe. Point Cloud for Rhino takes care of this very efficiently.

Point Cloud for Rhino has a wizard that helps you process point clouds. When working with the wizard you can switch to "Expert" mode at any time.

Point Cloud for Rhino is very easy to use. It adds a new command to Rhino called "PC". Simply type "PC" at the command prompt and follow the simple instructions.

Mesh To Solid for Rhino

Home Page	:	http://www.fpsols.com/mesh_to_solid_rh.html
Installer	:	http://www.fpsols.com/installers/MeshToSolidRH.exe
PAD URL	:	http://www.fpsols.com/PAD/MeshToSolidRH.xml
Price	:	250 USD
Description	:	Mesh To Solid for Rhino - Rhino plug-in to convert a mesh into a solid

Mesh To Solid for Rhino is a plug-in for Rhino. This plug-in gives Rhino to ability to convert a mesh into a solid.

A mesh is a useful entity when it comes to defining geometry of an object. However, certain Rhino commands such as boolean operations, offset, extrusion, etc, cannot be performed on meshes. Moreover, Rhino does not export meshes to IGES, STEP, ACIS, ParaSolid, VDA and similar file formats, thereby rendering the mesh model useless for further solid modeling in another CAD system. Rhino imports STL, OBJ and other similar files as meshes only. If you need to modify these imported objects you need to convert them into solids.

Rhino has an internal "MeshToNurb" command. This command converts each and every face of the mesh into a Nurbs surface and joins them together. This makes the final solid object complicated and difficult to work with.

Mesh To Solid for Rhino, on the other hand, studies the mesh object and determines the features that define the geometry of the model. It then creates a single trimmed Nurbs surface for a group of mesh faces that collectively define a feature. Finally it joins all the trimmed Nurbs surfaces to form the final solid. The resulting solid contains a far lesser number of faces and is much easier to work with.

Mesh To Solid for Rhino is very easy to use. It adds a new command to Rhino called "MeshToSolid". Simply type "MeshToSolid" at the command prompt and select the mesh you wish to convert into a solid.

PIX Import for Rhino

Home Page	:	http://www.fpsols.com/pix_import_rh.html
Installer	:	http://www.fpsols.com/installers/PIXImportRH.exe
PAD URL	:	http://www.fpsols.com/PAD/PIXImportRH.xml
Price	:	150 USD
Description	:	PIX Import for Rhino - Dr. Picza PIX file import plug-in for Rhino

PIX Import for Rhino is a plug-in for Rhino. This plug-in gives Rhino the ability to import graphical data from PIX files.

PIX files are the native file format of a digitizer software called Dr. Picza which comes bundled with Roland DG digitizers. PIX Import for Rhino gives Rhino the ability to import the digitized data from PIX files. You can import the data as points, lines, polylines, nurb curves, faces or nurb surfaces.

PIX Import for Rhino is very easy to use as it adds a new file type to the Rhino File Open dialog box. To import a PIX file select Open from the File menu. Select "Dr. Picza Files (*.pix)" from the "File of type" combo box and select a PIX file to import. A new drawing will be created containing the imported PIX file.

NC Import for Rhino

Home Page	:	http://www.fpsols.com/nc_import_rh.html
Installer	:	http://www.fpsols.com/installers/NCImportRH.exe
PAD URL	:	http://www.fpsols.com/PAD/NCImportRH.xml
Price	:	150 USD
Description	:	NC Import for Rhino - Numeric Control NC file import plug-in for Rhino

NC Import for Rhino is a plug-in for Rhino. This plug-in gives Rhino the ability to import commands from NC files.

CNC Machines worldwide use Numeric Control files (.nc or .ncc) to convert programmed instructions to tool movement. NC programs consist of a sequence of codes with parameter data to arrive at a precise description of the toolpath. But the best of NC programmers also can make mistakes. NC Import for Rhino lets you import NC files into Rhino so that you can view the intended toolpath in 3D.

NC Import for Rhino is very easy to use as it adds a new file type to the Rhino File Open dialog box. To import a NC file select Open from the File menu. Select "Numeric Control Files (*.nc,*.ncc)" from the "File of type" combo box and select a NC file to import. A new drawing will be created containing the imported NC file.

OBJ Import for Rhino

Home Page	:	http://www.fpsols.com/obj_import_rh.html
Installer	:	http://www.fpsols.com/installers/OBJImportRH.exe
PAD URL	:	http://www.fpsols.com/PAD/OBJImportRH.xml
Price	:	150 USD
Description	:	OBJ Import for Rhino - Wavefront OBJ file import plug-in for Rhino

OBJ Import for Rhino is a plug-in for Rhino. This plug-in gives Rhino the ability to import graphical data from ASCII Alias Wavefront OBJ files.

Alias is the world's leading innovator of 2D/3D graphics technology for the film, video, games, interactive media, industrial design, automotive industry and visualization markets. Their OBJ ASCII file format is widely accepted the world over for exchanging data between CAD applications.

OBJ files contain solids which are made up of 3 or 4 sided faces. OBJ Import for Rhino converts these faces into a single Rhino Polygon Mesh entity and adds it to the contents of a new Rhino drawing.

OBJ Import for Rhino is very easy to use as it adds a new file type to the Rhino File Open dialog box. To import an OBJ file select Open from the File menu. Select "Wavefront Files (*.obj)" from the "File of type" combo box and select an OBJ file to import. A new drawing will be created containing the imported OBJ file.

HPGL Import for Rhino

Home Page	:	http://www.fpsols.com/hpgl_import_rh.html
Installer	:	http://www.fpsols.com/installers/HPGLImportRH.exe
PAD URL	:	http://www.fpsols.com/PAD/HPGLImportRH.xml
Price	:	150 USD
Description	:	HPGL Import for Rhino - HPGL PLT file import plug-in for Rhino

HPGL Import for Rhino is a plug-in for Rhino. This plug-in gives Rhino the ability to import graphical data from HPGL Plot (PLT) files.

HPGL is the Hewlett Packard Graphics Language designed for specifying 2D graphical information for the HP range of plotters. It was not intended as an interchange format but some software suppliers use it as such. HPGL is a command set embedded in the ROM of pen plotters to help reduce the work required by applications programmers to create plotted output. HPGL uses two-letter mnemonics as instructions for drawing lines, circles, text, and simple symbols.

HPGL plot files contain information regarding the movement of the pen of the HP plotter. HPGL Import for Rhino converts these pen movements into Rhino entities and adds them to the contents of a new Rhino drawing. HPGL Import for Rhino supports plot files created by drivers for the following plotters:

- Hewlett-Packard 7475A
- Hewlett-Packard 7550A
- Hewlett-Packard 7580B
- Hewlett-Packard 7585B
- Hewlett-Packard 7586B
- Hewlett-Packard Draftmaster 1 (7595A)
- Hewlett-Packard Draftmaster 2 (7596A)
- Hewlett-Packard Draftpro (7570A)
- Hewlett-Packard Draftpro-DXL (7575A)
- Hewlett-Packard Draftpro-EXL (7576A)

HPGL Import for Rhino is very easy to use as it adds a new file type to the Rhino File Open dialog box. To import a PLT file select Open from the File menu. Select "HPGL Plot Files (*.plt)" from the "File of type" combo box and select a PLT file to import. A new drawing will be created containing the imported PLT file.

HPGL Export for Rhino

Home Page	:	http://www.fpsols.com/hpgl_export_rh.html
Installer	:	http://www.fpsols.com/installers/HPGLExportRH.exe
PAD URL	:	http://www.fpsols.com/PAD/HPGLExportRH.xml
Price	:	150 USD
Description	:	HPGL Export for Rhino - HPGL PLT file export plug-in for Rhino

HPGL Export for Rhino is a HPGL plot file export plug-in for Rhino. This plug-in gives Rhino the ability to export geometric data from Rhino to HPGL Plot (PLT) files.

HPGL is the Hewlett Packard Graphics Language designed for specifying 2D graphical information for the HP range of plotters. It was not intended as an interchange format but some software suppliers use it as such. HPGL is a command set embedded in the ROM of pen plotters to help reduce the work required by applications programmers to create plotted output. HPGL uses two-letter mnemonics as instructions for drawing lines, circles, text, and simple symbols.

HPGL Export for Rhino breaks down Rhino entities into pen movements and writes them to the output plot file. HPGL Export for Rhino supports the following plotters:

- Hewlett-Packard 7475A
- Hewlett-Packard 7550A
- Hewlett-Packard 7580B
- Hewlett-Packard 7585B
- Hewlett-Packard 7586B
- Hewlett-Packard Draftmaster 1 (7595A)
- Hewlett-Packard Draftmaster 2 (7596A)
- Hewlett-Packard Draftpro (7570A)
- Hewlett-Packard Draftpro-DXL (7575A)
- Hewlett-Packard Draftpro-EXL (7576A)

HPGL Export for Rhino is very easy to use as it adds a new file type to the Rhino File Save As dialog box. To export a PLT file select Save As from the File menu. Select "HPGL Plot Files (*.plt)" from the "File of type" combo box and select a PLT file to export to.

Point Cloud for Surfcam

Home Page	:	http://www.fpsols.com/point_cloud_sc.html
Installer	:	http://www.fpsols.com/installers/PointCloudSC.exe
PAD URL	:	http://www.fpsols.com/PAD/PointCloudSC.xml
Price	:	250 USD
Description	:	Point Cloud for Surfcam - Surfcam plug-in to convert a point cloud into a surface

Point Cloud for Surfcam is a plug-in for Surfcam. This plug-in gives Surfcam the ability to process point clouds. You can import a point cloud into Surfcam as it is or fit a surface that passes through the points to recreate the original object. This is ideal for reverse engineering and GIS applications. There are different ways of fitting a surface depending on the nature of the point cloud.

Point Cloud for Surfcam also has the ability to compensate for probe diameter. There is an inherent error with probe based scanners since they digitize points at the center of the probe. Point Cloud for Surfcam takes care of this very efficiently.

Point Cloud for Surfcam is very easy to use. It adds a new file type to the Surfcam File Open dialog box. Simply select "Open" from the "File" menu and choose your point cloud file. This brings about the Point Cloud dialog box where you can process the point cloud.

STL Import for Surfcam

Home Page	:	http://www.fpsols.com/stl_import_sc.html
Installer	:	http://www.fpsols.com/installers/STLImportSC.exe
PAD URL	:	http://www.fpsols.com/PAD/STLImportSC.xml
Price	:	200 USD
Description	:	STL Import for Surfcam - STL file import plug-in for Surfcam

STL Import for Surfcam is a STL file import plug-in for Surfcam. STL Import for Surfcam gives Surfcam the ability to import geometric data from ASCII as well as binary Stereolithography (STL) files.

The STL file format is the Rapid Prototyping industry's standard data transmission format and is the format required to interact with stereolithography machines. Stereolithography files contain solids which are made up of 3 sided facets. STL Import for Surfcam converts these facets into surfaces or line meshes and adds it to the contents of the currently opened Surfcam drawing.

STL Import for Surfcam is very easy to use. This plug-in adds a new file type to the Surfcam File Open dialog box. Simply select a STL file to import.

HPGL Import for Surfcam

Home Page	:	http://www.fpsols.com/hpgl_import_sc.html
Installer	:	http://www.fpsols.com/installers/HPGLImportSC.exe
PAD URL	:	http://www.fpsols.com/PAD/HPGLImportSC.xml
Price	:	200 USD
Description	:	HPGL Import for Surfcam - HPGL PLT file import plug-in for Surfcam

HPGL Import for Surfcam is a plug-in for Surfcam. This plug-in gives Surfcam the ability to import graphical data from HPGL Plot (PLT) files.

HPGL is the Hewlett Packard Graphics Language designed for specifying 2D graphical information for the HP range of plotters. It was not intended as an interchange format but some software suppliers use it as such. HPGL is a command set embedded in the ROM of pen plotters to help reduce the work required by applications programmers to create plotted output. HPGL uses two-letter mnemonics as instructions for drawing lines, circles, text, and simple symbols.

HPGL plot files contain information regarding the movement of the pen of the HP plotter. HPGL Import for Surfcam converts these pen movements into Surfam elements and adds them to the contents of the Surfcam element database. HPGL Import for Surfcam supports plot files created by drivers for the following plotters:

- Hewlett-Packard 7475A
- Hewlett-Packard 7550A
- Hewlett-Packard 7580B
- Hewlett-Packard 7585B
- Hewlett-Packard 7586B
- Hewlett-Packard Draftmaster 1 (7595A)
- Hewlett-Packard Draftmaster 2 (7596A)
- Hewlett-Packard Draftpro (7570A)
- Hewlett-Packard Draftpro-DXL (7575A)
- Hewlett-Packard Draftpro-EXL (7576A)

HPGL Import for Surfcam is very easy to use as it adds a new file type to the Surfcam File Open dialog box. To import a PLT file select Open from the File menu. Select "HPGL Plot Files (*.plt)" from the "File of type" combo box and select a PLT file to import.

NC Editor 1.0

Home Page	:	http://www.fpsols.com/nc_editor.html
Installer	:	http://www.fpsols.com/installers/NCEditor.exe
PAD URL	:	http://www.fpsols.com/PAD/NCEditor.xml
Price	:	100 USD
Description	:	NC Editor - View, edit and print Numeric Control NC files

NC Editor is a Numerical Control (.NC) file viewing, editing and printing application. CNC Machines worldwide use Numeric Control files (.nc or .ncc) to convert programmed instructions to tool movement. NC programs consist of a sequence of codes with parameter data to arrive at a precise description of the tool path. But the best of NC programmers also can make mistakes. NC Editor renders a 3D image of your NC program to let you verify that everything is how you planned it to be.

NC Editor has been designed keeping CNC programmers in mind. Below are some of the features incorporated in this incredible editor:

- Opens and works with multiple NC files simultaneously.
- Animation/Backplot capability.
- Imports NC commands from any text file
- Print and Print Preview capabilities.
- Undo operations.
- Support for clipboard operations.
- Automatic E-mailing of NC files.
- Rotate, Zoom and Pan the drawing with the mouse.
- Predefined Axis and Isometric views
- Perspective and Orthographic projection.
- Global and per file configuration.
- Context-sensitive help system.

Image Editor 1.0

Home Page : http://www.fpsols.com/image_editor.html
Installer : http://www.fpsols.com/installers/ImageEditor.exe
PAD URL : http://www.fpsols.com/PAD/ImageEditor.xml
Price : 30 USD
Description : Image Editor - Affordable Image Editing Software

Image Editor is an affordable software to edit images and apply various types of filters. It does the work of most high-priced image editing software.

Image Editor supports the following image file formats

- Windows Bitmap Files (*.bmp)
- CompuServe Bitmap or Animation Files (*.gif)
- PaintBrush PCX Files (*.pcx)
- Targa Bitmap Files (*.tga)
- WBMP Bitmap Files (*.wbmp)
- Windows Meta Files (*.wmf)
- Icon Files (*.ico)

The editing capabilities of Image Editor are listed below

- Add text to image
- Set/Remove transparency
- Convert image to grayscale
- Dither image by Floyd-Steinberg error diffusion or ordered dither
- Repair image to give it a more smoother look
- Negate image
- Apply the ellipse transform
- Flip image horizontally or vertically
- Rotate image freely
- Resample image by nearest pixel, bilinear or bicubic method

Image Editor can apply various filters to an image. The filters are listed below

- Threshold
- Colorize
- Gamma
- Lighten
- Darken
- Contrast
- Noise
- Median
- Erode
- Dilate
- Contour
- Blur
- Soften
- Gaussian 3x3
- Gaussian 5x5
- Sharpen
- Edge
- Emboss
- Pseudo Colors
- Split to RGB, HSL, YUV, YIQ, XYZ and CMYK

PDF Create Convert 1.0

Home Page	:	http://www.fpsols.com/pdf_create_convert.html
Installer	:	http://www.fpsols.com/installers/PDFCreateConvert.exe
PAD URL	:	http://www.fpsols.com/PAD/PDFCreateConvert.xml
Price	:	30 USD
Description	:	PDF Create Convert - Create or Convert documents to PDF without the need of Adobe Acrobat

PDF Create Convert is a useful program to create PDF documents from scratch or convert an existing document to PDF without the need of Adobe Acrobat.

PDF Create Convert can import the following document types:

- PDF Create Convert Format - PCC (the native file format of PDF Create Convert)
- Microsoft Word Format - DOC
- Rich Text Format - RTF
- Hyper Text Markup Language - HTML, HTM
- Extensible Markup Language - XML
- Plain Text Format (ANSI) - TXT
- Plain Text Format (Unicode) - TXT

PDF Create Convert is very simple to use. Simply create a new document or open an existing document and "Save As" PDF. Creating or converting PDF documents has never been so easy.