

3D CAD and Files

Three-dimensional computer aided design, or 3D CAD, is software that helps architects, artists, engineers and designers create schematics for three-dimensional objects, be it curves, surfaces or solids. Ideas of geometry, scale, mass and biomechanics are all necessary elements of the design process. The computer model can be edited, adjusted or completely reworked at no added cost outside of the time spent.

We can work from almost any file type but can only build from 3D. 2D file types (.BMP, .JPEG, .TIFF, PDF) do not include sufficient information to drive the modeling process, requiring a 2D-3D conversion.

3D CAD Systems

- Inventor
- Materialise Magics RP
- Materialise 3-Matic
- PTC Pro/Engineer Wildfire I
- Rhinoceros V3.0
- Siemens PLM
- SolidWorks
- Unigraphics

Universal Translators

- STL (Rapid Prototyping File)
- IGES (Initial Graphics Exchange Specifications)
- STEP (International Standard for Exchange of Product Model Data)
- VDA (Surfaced Data Interface)
- X_T (Parasolid)
- OBJ (3D Object)
- WRL (Virtual Reality Modeling Language)

Native CAD Files

- SLDPRT (Solidworks Model File)
- EXP (Catia V4 Export File)
- MDL (Catia V4 Native File)
- PRT (Pro/Engineer Part File)
- PRT (Unigraphics)
- 3DS (3D Studio)
- 3DM (Rhino File)