



DeskArtes 3Data Expert

DeskArtes 3Data Expert software is designed for manufacturing engineers who need to efficiently create and manipulate standard 3D CAD files and faceted STL models for Rapid Prototyping, Additive Manufacturing, 3D Printing and Simulation:

- Convert IGES, VDA-FS, ProE, UG, STEP and CATIA model data to solid STL
- Automatically detect and repair various mistakes in the model
- Split and combine models with Boolean operations
- Offset models into solid sheets or hollow parts
- Reduce triangle count of STL models, and more



DeskArtes 3Data Expert



Convert Surface Data

- Import any IGES, VDA-FS, ProE, UG, STEP or CATIA files
- Accurately convert your surface models to solid STL
- Automatically fill gaps, remove overlaps and fix trimming errors
- The best triangulation quality and accuracy on the market



Verify and Repair STL and VRML models

- Fill in gaps and holes in the model
- Find and repair intersection and overlapping triangles
- Check and fix normal orientation of triangles
- Separate disconnected parts into different models
- Reshape triangulation, reduce triangle count



Design and Combine

- Design new parts by Extrude, Rotate, Sweep and Loft
- Unite models, subtract parts with Boolean operations
- Cut with any curve, create pins and holes
- Check draft angles
- Compute intersections and trim surfaces
- Add and modify textures and colors on faceted models



Offsetting and Shelling

- Turn open models to solid sheets
- Make parts hollow, reduce material volume
- Expand/shrink parts to allow for coating and polishing



Rapid Prototyping Utilities

- Position parts into RP workspace
- Punch holes, add pins to the model
- Slicing of either STL or real surface models
- Support structures for liquid and powder based processes



Communicate and Measure 3D CAD Models

- Rotate, zoom and clip into models
- Change colors, materials and light points
- Mark-up, annotate model details with text comments
- Measure distances, angles, area, volume
- Cut&Paste, print images

Software download and 30-day evaluation available at www.deskartes.com

Contact your local DeskArtes distributor: