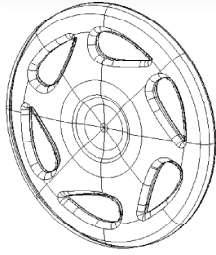# 3d data power

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, Manufacturing, Simulation and Analysis:

- 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
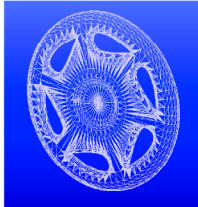- Reduce triangle count of STL models, and more
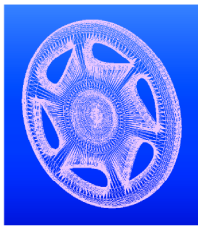
DeskArtes 3Data Expert

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
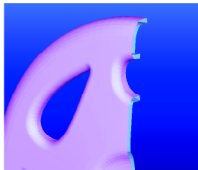· The best triangulation quality and accuracy on the market

Verify and Repair STL, ZPR 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
· Split along parting lines, check draft angles
· Compute intersections and trim surfaces
· Add and modify textures and colors on triangle 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
· Links to Z Corp, Contex, Stratasys and Objet systems

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
· Check for distances, angles, area, volume
· Cut&Paste, print images, e-mail encrypted files
· Optional ray traced visualization provided

Contact your local DeskArtes distributor:

deskartes
www.deskartes.com