

Design Expert

(DE0710-030200P)

- Input/Output of Models in DA Format / Graphical Object Library/ DXF
- Transform, Measure, Volume, Area, Annotate, Print, E-mail, Encrypt
- Macros for frequently used command series
- Surface Design: Rotate, Extrude, Sweep, Lofting, Interpolate etc, TrueType text
- Surface Deformations: Bend, Twist, Taper, Project to Surfaces
- Graphical Deformations: Bend, Twist, Taper
- Curve Input with Image Templates
- Multiple Surface Trimming & Variable Radius Blends
- Multiple Copy/Paste on Surfaces, Copy Array for 1,2 or 3 dimensional copy matrices
- Real-time OpenGL Rendering: Rotate, Zoom, Pan, Clip, Move Light, Clipping
- Real-time OpenGL Materials, Reflections, Transparency, Background Images, Textures etc

Visualizer functions

- Photo realistic images with ExTrace ray-tracing
- Shadows, Reflections, Transparency, Complex textured surfaces
- Camera and Light points, Spotlights, Light colors and Intensities, Soft Shadows
- Background Processes for image generation

STL functions

- Input/Output of Models in STL Format
- Conversion of Design Expert generated Surfaces to STL Models
- Full Repair & Editing of Design Expert generated STL Models
- Reduce & Refine Triangle Count in Design Expert generated STL Models
- Combine Design Expert generated STL Models with Union, Difference and Split
- Generate Offsets to Design Expert generated STL Models
- Generate professional 2D Drawings from Design Expert generated STL Models

IGES / VDA-FS translator

- Input/Output of Design Expert generated Models in IGES / VDA-FS format
- Read Files From Other CAD/CAE Systems
- Transport DeskArtes Models to CAE/CAM Systems
- File Conversion between IGES and VDA-FS Formats

Optional 2D Drawings

- Generate professional 2D Drawings from non Design Expert generated STL data
- Distance, Angle, Diameter and Radius calculation
- Annotations and Balloons
- EU/US Standard Views, Coordinate Axis Views and Section Views

Optional Batch Processing for RP

(DE0710-030009BA)

- Batch Process IGES or STL files for Rapid Prototyping when not at the computer
- Automatic IGES to STL conversion
- Automatic STL Repair
- Report files in DeskArtes internal format for easy subsequent operations on processed data
- Automatic process queue recovery

Optional Reverse Engineering module

(DE0710-030007ST)

- Slice STL data and generate Surfaces

VDA/IGES/STL functions for non DA models

(DE0710-030001ST)

- Input, Output, Translate, Repair and Modify VDA/IGES/STL files

Optional CATIA 4 translator

(DE0710-030002CT)

- Input and Modify CATIA 4 Files

Optional CATIA 5 translator

(DE0710-030003CT)

- Input and Modify CATIA 5 files

Optional Unigraphics translator

(DE0710-030004UG)

- Input and Modify Unigraphics files

Optional ProE translator

(DE0710-030005PR)

- Input and Modify ProE files

Optional STEP translator

(DE0710-030006EP)

- Input and Modify STEP files