Scan2000™ Reverse Engineering Software

The Digitizing Solution for SolidWorks®

Engineering Design, Manufacturing, and Control

- Aerospace
- Automotive
- Cinematics
- Consumer
- Design
- Manufacturing
- Marine
- Medical
- Mold
- Quality Control
- Recreation
- Tool and Die

Scan2000 is the reverse engineering software product developed exclusively for SolidWorks.

Scan2000 is completely and seamlessly integrated within SolidWorks, allowing access to the feature-based intelligence of SolidWorks while simultaneously expanding functionality.

Real-time reverse engineering with powerful features and true single window integration are the basis for the continued success of **Scan2000**.

Scan2000 is now enhanced with these features:

- Interactively create solid features from digitized contours, supplying only a digitized location for height, depth, or offset.
- **Scan2000**'s real-time data acquisition coexists with all SolidWorks sketch tools and feature creation tools…sketch a SolidWorks line or digitize a **Scan2000** line with no process switching.
- Spline modification tools have been added to improve overall feature quality. Offset, synchronize node count, and trim to a contour or plane
- Dynamic display of a solid probe tip. Select from the default library of probe tips, or design your own as a SolidWorks part file.
- Fast uptime. Little, or no learning curve because of **Scan2000**'s conformance to the SolidWorks user interface…with only a difference in the mode of input (mouse vs. digitizer).
- Hardware configuration is quick and responsive using the **Scan2000** built-in digitizer setup and probe tip calibration wizards.

SolidWorks Solution Partner

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Scan2000 Tools and Capabilities:

Sketch Digitizing:
- Point
- Line
- Arc
- Circle
- Rectangle
- Spline
- Continuous compensation

Sketch Segment Control:
- Auto-Connect
- Auto-Tangency
- Auto-Close contour
- Auto-Tip Compensation
- Display of Model or Sketch coordinates

System Requirements:
- Operating systems: Windows® 2000, Windows XP Pro
- 128m Ram minimum, 256m Recommended
- CPU 500MHz minimum
- Digitizing arm
- Video compatible with SolidWorks
- Serial or USB port

Integration:
- Fully 100% integrated with the SolidWorks environment
- User control of Scan2000 Feature Mgr. View using SolidWorks' skins
- All part digitizing parameters and coordinate systems are integral features of SolidWorks
- User input is via Scan2000 Property Pages
- Digitizing in sketch mode is fully compatible with the SolidWorks sketch tools

Documentation:
- Hardcopy Users Guide
- Online, always active Help

Reference Planes:
- Digitize points
- Offset to digitized location
- Fanfill (create multiple planes that fill the compound angle between two existing planes)

Spline Creation/Modification:
- Close at creation
- FreeScanning through an unlimited number Planes, Faces, and Surfaces for cross-section creation
- Node count modify
- Close
- Offset, move or copy
- Trim to a planar boundary
- Trim to a contour

System Options:
- Display current probe tip vector
- Display current probe tip location in large format
- Select location of Scan2000 FMV and status
- Dynamically rename sketches
- Group like sketches in folders
- Force relations
- Use minimum digitizing
- Digitizer and display units
- Set working tolerances
- Change active digitizer
- Digitizer activation and communication parameters
- Dynamic probe tip tracking
- Digitizer button assignment
- Digitizer sound assignment
- Sounds assignment for digitizer actions
- Keyboard hotkeys
- Dynamically rename reference planes
- Group planes in folders
- Plane creation parameters

Solid Features:
- Spherical (create from unlimited digitized points)
- Extrude boss (extrude a contour to a digitized height)
- Extrude cut (extrude a contour to a digitized depth)

Coordinate Systems:
- Origin coordinate system aligns digitizer data to the Model Origin
- Minor systems defined relative to Origin system, allowing unlimited leap frogging.
- Number of coordinate systems is unlimited
- Systems defined by a single plane and origin location

Probe Tip Library:
- Standard set of defined probe tips
- Unlimited custom tips definable
- Each tip can be displayed on-screen as a unique 2D or 3D graphic
- 3D tip graphics are displayed as wireframe, hidden lines removed, or shaded. User defined 3D tips are SLDPRT files
- Tip calibration accomplished per digitizer specifications
- Probe tip QuickChange button located on toolbar

Support:
- 24-7 online website user support
- Telephone support through your local Scan2000 VAR
- Training provided by your local Scan2000 VAR

Contact:
- For more information, go to http://www.scan2000.net