

Scan2000™ Reverse Engineering Software

The Digitizing Solution soon to be released for Unigraphics® NX
Engineering Design, Manufacturing, and Control

Aerospace

Automotive

Cinematics

Consumer

Design

Manufacturing

Marine

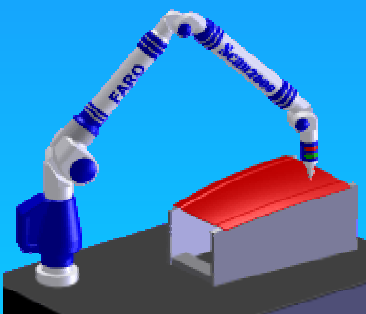
Medical

Mold

Quality Control

Recreation

Tool and Die



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Scan2000 is the reverse engineering software product developed for the demands of the Unigraphics NX user.

Scan2000 is completely and seamlessly integrated within the NX environment, allowing access to the feature-based intelligence of NX 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**.

Performance 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 NX modeling tools and feature creation tools...sketch an NX line or digitize a **Scan2000** line with no process switching.
- **Sx™** module adds high performance spline modification tools to improve overall feature quality. Offset, close, synchronize, join, and trim spines to a contour or plane.
- **FastCheck™** module for complete part detail inspection, and free-form surface topology comparison.
- Dynamic display of a solid probe tip. Select from the default library of probe tips, or design your own as an NX design file.
- Fast uptime. Little, or no learning curve because of **Scan2000**'s conformance to the Unigraphics NX 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.

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 WCS or local coordinates

System Requirements:

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

Integration:

- Fully 100% integrated with the Unigraphics NX environment
- User control of Scan2000 Status windows, including placement and appearance
- All part digitizing parameters and coordinate systems are integral features of NX
- User input is via Scan2000 Property Pages
- Digitizing in sketch mode is fully compatible with the NX sketch tools

Documentation:

- Hardcopy Users Guide
- Online, always active Help

Datum 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
- Join two splines

System Options:

- Display current probe tip vector
- Display current probe tip location in large format
- Select location of Scan2000 status displays
- Dynamically rename sketches
- Group like sketches
- 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 datum planes
- Group planes
- Plane creation parameters

Solid Features:

- Spherical (create from unlimited digitized points)
- Extrusions created by digitizing to a height or depth utilizing boolean operations

Coordinate Systems:

- Origin coordinate system aligns digitizer data to the WCS
- 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 as NX design 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>