Solid Edge ST8: Design Without Boundaries

Dan Staples and Craig Ruchti
Solid Edge ST8
Design without boundaries

Siemens Solid Edge ST8 delivers a uniquely powerful and accessible 3D design portfolio coupled with an amazing user experience, allowing you the freedom to design without boundaries.
Solid Edge ST8
Design without boundaries

Image courtesy of Ross Robotics Ltd.
"Like Me" Pattern Recognition
"Like Me" Pattern Recognition

- Enhanced Pattern Recognition for any collection of faces
- Can be run multiple times on the same part
- Extends reuse and edit-ability of imported parts
“Our company uses three different CAD systems across multiple locations, so reuse of 3D data from these formats is vital. Synchronous technology within Solid Edge greatly facilitates use and modification of this imported data while avoiding lengthy and costly redesign.”

Christian Zobel
Project Manager CAD-M/PDM
Philips Medical
Synchronous Technology
Design Intent
Solid Edge ST8
Uniquely powerful

Synchronous Technology Design Intent

- New Design Intent interface (previously Live Rules)
- Intuitive heads-up panel
- More predictable geometry edits
- Less time learning, more time designing
Pattern by Table
Pattern by Table

- Pattern using a table/spreadsheet
- Pattern in irregular ways, not just rectangular or circular
- Link patterns together for design automation
There’s an App for that…
Technical Publishing for Solid Edge
Solid Edge University 2015
Brian Roberts, President
Technical Publishing for Solid Edge

- Technical Illustrations
- 3D Animations

- Work Instructions
- Illustrated Catalogs
- Product Manuals

- Online 3D Instructions
- HTML5 Web Catalogs
- Team Collaboration

www.quadrispace.com
Enhanced Welding
Enhanced Welding

- Apply weld beads as a Part for greater welding flexibility
- Streamlined process for duplicating weld beads across multiple parts
- Easily extract property information in a drawing, e.g. symbols and costing
Enriched Digital Mockup
Solid Edge ST8
Uniquely powerful

Enriched Digital Mockup

- Enhanced Path Relationship options for more realistic marketing animations
- Drive Motors from the Variable Table for better design validation
- On-the-fly sub-assembly relationship override
- Efficient .WMV output support
Solid Edge ST8
Uniquely powerful

There’s an App for that…
Dynamic Designer
CAD-Embedded Design Validation for SOLID EDGE

Solid Edge University 2015
Scott Ziemba, Director of Customer Service
Simulation Products for Students, Educators and Engineers

www.design-simulation.com
Enhanced Drawings
Enhanced Drawings

- Advanced dimension and annotation handles
- New interface for Format Values
- Unique parts lists and ballooning for subassemblies; great for large assembly drawings
- Linked Property and Reference Text in Text Boxes for automation
- Flexible thread dimensioning
- Technical requirements text
Solid Edge ST8
Uniquely powerful

Drawing Compare

- Quickly and easily compare drawings
- Interactive interrogation, with color coding for clarity
- Save comparison for future reference
There’s an App for that…
ECAD/MCAD integration
Solid Edge & E³.series

Solid Edge University 2015
October 27\textsuperscript{th}, 2015

John Molloy
E³.series Channel Manager
ECAD Integrated Solution for ST8

• Why ECAD and MCAD integration?
  – Complexity
  – Electrical connectivity
  – Space premiums
  – Full 3D definition requirement, including wiring, cables and harnesses
ECAD Integrated Solution for ST8

• How is it accomplished?
  – Data sources
  – Manual entry
  – Intelligent Electrical design tools
  – Automated data extraction.
  – E³.series
ECAD Integrated Solution for ST8

- Zuken
  - Global Corporation
  - Founded in 1976
  - Focused on ECAD tools
  - CR5000 & CR8000.
  - E³.series
ECAD Integrated Solution for ST8

- **E³.series**
  - Schematics
  - Panel layouts
  - Wiring
  - Cabling
  - Object based
  - Component tracking
  - Error reduction
  - Connection tracking
  - Data extraction
ECAD Integrated Solution for ST8

- $E^3$.series – Solid Edge integration
  - $E^3$.3DBridge
  - Project search
  - Wire, cable and harness selection
  - Automatic generation of CMP and CON files
Enhanced Electrical Routing
Enhanced Electrical Routing

- Improved ECAD import experience
- Persistent PMI for efficient routing
- Route imported cables through clips and other part geometries for accurate packaging
- Split and reuse existing paths to easily create custom bundles and cables
- Splice wires and cables to fully represent any wiring schematic
- Flexible documentation
Solid Edge ST8
Uniquely powerful

**CAM Express**
- Enhanced PMI data transfer including hole data
- Cut regions for rest milling
- Blade (impeller) swarf cutting improvements

**CAMWorks for Solid Edge**
- WYSIWYG with G-code based machining simulation
- “Before” model e.g. casting input
- Tool crib priority and optimized Tech DB
Solid Edge ST8
Uniquely powerful

Design Management with Solid Edge for SharePoint
✓ SharePoint 2013 support
✓ Simplified creation and deletion of links
✓ Easier and extended access to design data

Design Management with Teamcenter Integration for Solid Edge
✓ Launch Solid Edge from Active Workspace web client
✓ Balloon drawings with Teamcenter Find Numbers
✓ Automatic part and revision numbering enhancements
✓ Teamcenter and Teamcenter Rapid Start 9, 10, and 11 support
Solid Edge by Subscription

- Monthly basis - manageable, regular cost
- Includes maintenance and support
- Accommodate changes in production demands by adding licenses when needed

Solid Edge Mobile Viewer

- New app supporting Windows 8.1
- Microsoft Surface App Store
Solid Edge ST8
Accessibility unleashed

Solid Edge in the Cloud
✓ No installation required, stream directly in web browser
✓ Available now to trial in US & UK
✓ You decide - on your desktop, in the Cloud, or both

Solid Edge on Microsoft Surface Pro 4 tablet
✓ The tablet powerful enough to replace your workstation
✓ Mobile access to full Solid Edge
✓ Solve engineering problems and collaborate more effectively anytime, anywhere
Solid Edge ST8
Amazing user experience

Enhanced In-Software Experience

- Movie During Install
- Solid Edge Learning Portal
- Solid Edge Community Live Feed
- Solid Edge News Feed
Solid Edge App Marketplace

- Online shopping for Solid Edge partner apps
- Easy online shopping experience
- Enhances partner product visibility
- Siemens Software Partners (ISVs) can list Solid Edge-related apps
- Support and maintenance for products provided by ISV

www.plmappmarketplace.com/solidedge
Solid Edge ST8
Design without boundaries

Image courtesy of Ross Robotics Ltd.

Uniquely powerful
Accessibility unleashed
Amazing user experience
Thank you.