



## NEW FEATURES:

The latest version of SmartSketch offers a variety of powerful new features, including:

- Save as and open MicroStation V8 2D DGN files.
  - Unlimited number of levels.
  - Files larger than 32MB can be saved.
  - Cell names are not restricted to six characters.
  - Unlimited reference files.
  - Double-precision floating point coordinates.
    - Coordinate accuracy and fidelity regardless of global origin position.
    - Simplified seed file setup.
  - Curves and line strings can have up to 5,000 vertices.
- Fillet rectangle command.
  - No need to create four separate fillets for each rectangle.
- Group element selection also highlights other group elements when dimensioning using quick-pick tool.
  - Assists in identifying proper group element when element is coincident with elements of another group.
  - Available in both the Distance Between and Angle Between dimension placement commands.

## SMARTSKETCH®

### YOUR ENGINEERING COMPANION

Intergraph® SmartSketch® is a versatile and cost-effective precision engineering and drafting product. It gives EPCs and O/Os a competitive edge throughout the plant life cycle by speeding productivity, cutting costs, and offering a sophisticated degree of automation for detail work. As an interlocking piece of Intergraph's best-in-class life-cycle solution, SmartSketch is a premium tool for the drawing generation tasks inherent in your work process. You can also support Intergraph Smart™ 3D drawing production and editing.

### AUTOMATE PRODUCTION DESIGNS AND DRAWINGS

SmartSketch provides powerful features such as parametrics and relationships that enable execution of design changes quickly and efficiently. SmartSketch automatically creates and maintains relationships between geometric elements and supports parametric graphics. For example, a baseline design can be made customer-specific by driving it from an external data source such as a spreadsheet that holds the dimensions for the specific case. This will update the drawing in a matter of seconds, using a proven and verified design basis to ensure quality.

### CUT PRODUCTION TIME

Using SmartSketch, engineers and designers can create preliminary designs that draftsmen can easily detail and finalize, without the costly errors that frequently occur from misreading hand-drawn sketches. In addition, industry solutions in SmartSketch supply task- and application-specific templates that set up appropriate units, drawing scales, borders, title blocks, toolbars, and more than 7,500 symbols specific to your discipline's work environment. Templates for the process, power, and marine industries include those for process flow and block diagrams, electrical schematics, and plot plans.

### PRESERVE AND ENHANCE LEGACY DATA

SmartSketch enables you to reference, combine, edit, and create MicroStation and AutoCAD® data. By maintaining MicroStation and AutoCAD element symbology, you can augment schematic workflows where expensive and high-powered CAD is impractical. SmartSketch supports DWG, DXF, and DGN data formats to protect your investment in legacy data. You can write to PDF format as well.

## FIT YOUR WORK PROCESS

SmartSketch reduces costs to EPCs and plant owners in three ways. First, SmartSketch provides advanced design and drafting functionality at a fraction of the cost of traditional drafting packages. Second, SmartSketch easily integrates with corporate information, such as spreadsheets and other office tools, through its automation layer. Further, SmartSketch can be customized through programming to address your specific workflow. Finally, features that allow you to reuse data templates and easily update drawings help you avoid inconsistencies in your production drawing.

## ADD VALUE THROUGHOUT YOUR PLANT

SmartSketch adds value throughout the entire plant by offering full functionality for all phases of the life cycle. For example, SmartSketch can be used by engineering personnel in disciplines such as process design, power, electrical, structural, instrumentation, and HVAC.

During front-end engineering and design (FEED), you can sketch conceptual and preliminary drawings quickly and accurately. Process-, power-, and marine-specific solutions allow you to easily draft site layouts, preliminary process flow diagrams (PFDs), and single-line diagrams and schematics.

SmartSketch provides tools to rapidly produce and mark up structural, piping, and cable tray details, installation details, electrical and instrumentation schematics, and other drawings. Such functionality is valuable in the entire process, from design to construction, maintenance, and decommissioning. SmartSketch helps to avoid and/or automatically update design changes downstream and reduces the overall engineering process time by enabling quick and accurate revisions.

## SMARTSKETCH IS VERSATILE

SmartSketch is fully integrated with Microsoft® Office, providing a Microsoft-style interface. SmartSketch can combine graphics with Word documents or Excel® spreadsheets for installation and training manuals, technical illustrations, maintenance records, and equipment specifications. SmartSketch's

Save As PDF functionality converts drawings to PDF format for quick publication to your corporate intranet or extranet, making SmartSketch the ultimate online extension of your desktop.

## THE VALUE PROPOSITION

Save design time, increase accuracy, and enjoy cost savings.

**Parametric design:** Enter variables to save time and increase consistency when creating new designs.

**Precision drawing:** Use real coordinates and dimensions to create high-quality designs for construction and maintenance.

**Ability to leverage legacy data:** Read and write traditional CAD formats such as AutoCAD and MicroStation.

**Complements data-centric engineering suite:** Realize benefits in all phases of engineering, from front-end preliminary P&IDs to back-end drawing production. The solution powers the drawing creation functionality of Smart 3D.

**Extends to fit your work process:** Easily configure to interface or perform specific tasks that will enhance your work process.

**Microsoft Office-compatible:** Insert and combine graphics with Microsoft Office files.

**Engineering task templates:** Take advantage of symbol libraries and templates used by the various engineering disciplines, such as HVAC, architectural, and piping.

**Relationships:** Create and maintain relationships that ensure data connectivity and consistency.

**Report results:** Report symbol attributes in Microsoft Excel format.

**Platform for custom or third-party tool:** Build your own tools on top of SmartSketch.

**Other functionalities:** Take advantage of coordinate read-out, revision cloud, and SmartSelect.

## ABOUT INTERGRAPH

Intergraph helps the world work smarter. The company's software and solutions improve the lives of millions of people through better facilities, safer communities, and more reliable operations.

Intergraph Process, Power & Marine (PP&M) is the world's leading provider of enterprise engineering software enabling smarter design and operation of plants, ships, and offshore facilities. Intergraph Security, Government & Infrastructure (SG&I) is the leader in smart solutions for

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