I-Sketch™ is a simple-to-use yet powerful Microsoft® Windows-based, pipe-sketching application. Based on ISOGEN® technology, I-Sketch is fast becoming the first choice of piping engineers and designers for producing industry-standard isometric drawings quickly and cost-effectively.

**KEY FEATURES**

- Enables sketching of piping systems in only minutes and generation of isometric drawings in seconds
- Includes templates for production of check, fabrication, and erection-type drawings
- Integrates with all of the leading 3D plant design systems, including PDS®
- Includes time-saving pipe editing capabilities featuring automatic insertion of gaskets, flanges, and bolts
- Includes standard ANSI and DIN catalogs
- Facilitates the importing of piping specifications held in 3D plant design systems
- Enables the export of piping data to 3D plant design systems using I-Export™
- Supports multiple output formats, including DXF, DWG, DGN, and IGR (SmartSketch®)
- Generates a variety of reports, including bills of materials, welding, and cut pipe length lists
- Produces industry-standard ISOGEN isometric drawings to the user’s company standards

**PRODUCE PIPING ISOMETRICS IN MINUTES**

Design time equals money. Why spend hours producing isometric drawings using paper and pencil or 2D CAD systems when you can use I-Sketch and do it in minutes? I-Sketch is simple to use and easy to learn, requiring minimal training. You simply sketch the pipe; add any desired components such as flanges, valves, gaskets, and bolts; dimension the pipe; and then let I-Sketch do the rest.

Isometric drawing templates provided with I-Sketch include check, final, fabrication only, erection only, final weld information, final with cutting list information, and overview. I-Sketch is also available in all major languages, including English, German, French, Spanish, Italian, Czech, Korean, Japanese, and Chinese.

**REALIZE A RAPID RETURN ON INVESTMENT**

I-Sketch is widely used by the world’s leading EPCs because it provides dramatic productivity gains for piping isometric production. It takes only minutes to sketch a piping system in I-Sketch, and the isometric drawings with full bills of materials are then produced in seconds. Using 2D CAD packages or paper and pencil to draw isometrics usually takes between four and eight hours. Using I-Sketch results in considerable cost savings and a rapid return on investment.

**MARK UP AS-DESIGNED ISOMETRICS**

Checking the accuracy of existing piping data is easy with I-Sketch. You can import as-designed pipes (IDF or PCF files) from any 3D plant design system that uses ISOGEN. Then using I-Sketch on a ruggedized tablet PC device, you can walk-down the lines in the field, marking up the original piping data to reflect the actual as-built status. The captured markup detail can subsequently be used to modify the original pipe design, enabling new as-built isometrics to be produced.

**DOCUMENT AS-BUILT PIPING SYSTEMS**

When isometric documents do not exist, I-Sketch can be used to capture as-built piping systems electronically – it’s no longer necessary to use pencil and paper. You can simply sketch the piping system directly into I-Sketch on a rugged tablet device in the field,
and the application produces all of the required as-built isometric drawings and bills of materials.

**INTEGRATE WITH LEADING PLANT DESIGN SYSTEMS**

I-Sketch automates the conversion of piping specifications and materials catalogs from a variety of plant design systems. Following a brief implementation period during which the specific structure of the catalogs is described to the software, the conversion process takes only seconds.

I-Sketch’s ability to receive materials data from many different systems allows it to work closely with systems like PDS. Using the Import feature, as-designed pipes from any ISOGEN-compliant plant design system can be imported into I-Sketch and modified to produce as-built isometrics.

In conjunction with consulting services provided by Intergraph’s data exchange specialists, modified or newly created piping systems can be loaded into plant design or pipe stress analysis systems using I-Export.

**VISUALIZE PIPING DATA IN 3D**

Interactively display the contents of pipeline data files designed in I-Sketch, or IDF or PCF files from any other ISOGEN-compliant system, as scaled 3D models. Any number of files can be visualized simultaneously to create a 3D model of the entire piping system.

**INTERFACE PIPING DATA WITH DOWNSTREAM IT SYSTEMS**

Interface I-Sketch-generated piping report data with almost any downstream IT system, such as material control, procurement, workshop, and weld management systems, and SmartPlant® Reference Manager, Oracle, SAP, Microsoft Excel- or Access-based or other legacy systems.

**PRODUCE PIPING SYSTEM ISOMETRICS**

Merge several pipeline data files designed in I-Sketch, or IDF or PCF files from any ISOGEN-compliant system, to create complete piping system isometrics, useful for pipe stress analysis, or to aid in the inspection, testing, and commissioning of installed piping systems.

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**ABOUT INTERGRAPH**

Intergraph Corporation is the leading global provider of spatial information management (SIM) software. Security organizations, businesses, and governments in more than 60 countries rely on the company’s spatial technology and services to make better and faster operational decisions. Intergraph’s customers organize vast amounts of complex data into understandable visual representations, creating intelligent maps, managing assets, building and operating better plants and ships, and protecting critical infrastructure and millions of people around the world.

For more information, visit www.intergraph.com.