



## PRODUCT SHEET

# Octave Forte Isometrics

Automatic piping isometrics from sketches



### Key features

Sketch pipelines or piping systems in minutes and generate 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

Pipe-editing capabilities feature automatic insertion of gaskets, flanges and bolts

Includes standard ANSI and DIN catalogs

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 your company standards

Keeps track of changes and allows integration of piping data with in-house systems using an API

Octave Forte Isometrics (formerly Intergraph Smart Isometrics), powered by Octave Forte Isogen, is a simple-to-use yet powerful pipe sketching application. Forte Isometrics is the choice of piping engineers and designers for producing industry standard isometric drawings quickly and cost-effectively.

### Create piping isometrics in minutes

Design time equals money. Why spend hours producing isometric drawings using 2D CAD systems when you can use Smart Isometrics and do it in minutes? Smart Isometrics 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; determine the pipe dimensions; and then let Smart Isometrics do the rest. Nine different Isometric templates are provided with Smart Isometrics to support different drawing types.

### Produce piping system isometrics

Smart Isometrics enables the piping engineer to design and produce isometrics for individual pipelines, several pipelines designed together in one session, or complete piping systems, providing piping data input to stress analysis applications, or aiding the inspection, testing and commissioning of installed pipelines.

## Realize a rapid return on investment

Smart Isometrics provides dramatic productivity gains for piping isometric production. It takes only minutes to sketch a piping system in Smart Isometrics, and 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 to eight hours. You can realize considerable cost savings and a rapid return on investment when using Smart Isometrics for either new design or as-building projects.

## Ideal for 'as-built' isometrics

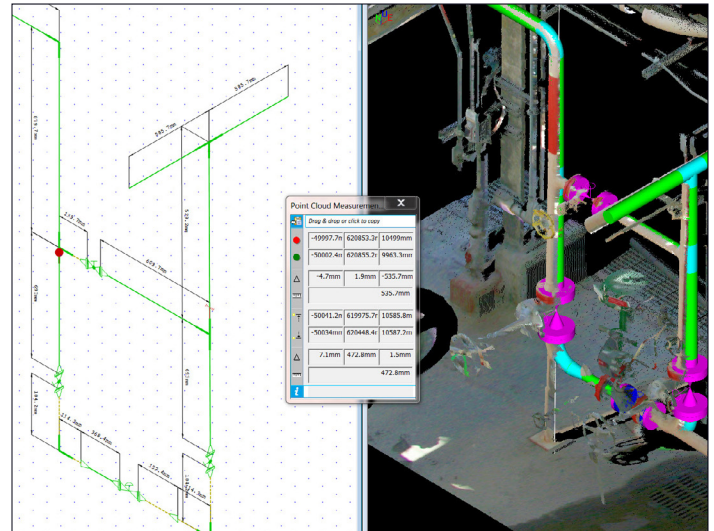
Checking the accuracy of existing piping data is easy with Smart Isometrics. Using the Import feature, you can import as-designed pipes from any Isogen-compliant plant design system. Using Smart Isometrics on a ruggedized tablet PC device, you can walk down the pipelines in the field, marking up the original as-designed piping data to reflect the real-world, as-built status of the pipes. Finally, you can produce new isometrics documenting plant conditions.

## Compatible with leading plant design systems

Virtually all leading plant design software supports the Isogen IDF or PCF file format, meaning you can use the same Smart Isometrics solution in all projects. You can also transfer reference data held in Intergraph Smart Reference Data application to Smart Isometrics, ensuring consistency of design and control of the materials and piping specifications used by engineers on projects.

## Visualize piping data in 3D

Using its integral 3D view, you can interactively visualize pipelines designed in Smart Isometrics, 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, enabling pipes designed near one another to be visually inspected to detect clash problems between new and existing pipework. These models can be saved in MicroStation or AutoCAD format.



## Manage change

Smart Isometrics keeps track of change, as piping data evolves, each state of the isometric is preserved automatically, including any drawings you have generated. Forte Isometrics is fully compatible with Octave InConcert for digital asset management.

## Interface piping data with downstream IT systems

Interface Forte Isometrics-generated piping report data with almost any downstream IT system, such as material control, procurement, workshop, and weld management systems, Intergraph Smart Materials, Oracle, SAP®, Microsoft Excel®- or Access®-based systems or other legacy systems.

More Information at [octave.com](https://www.octave.com)

## About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property, and assets— for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency, and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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