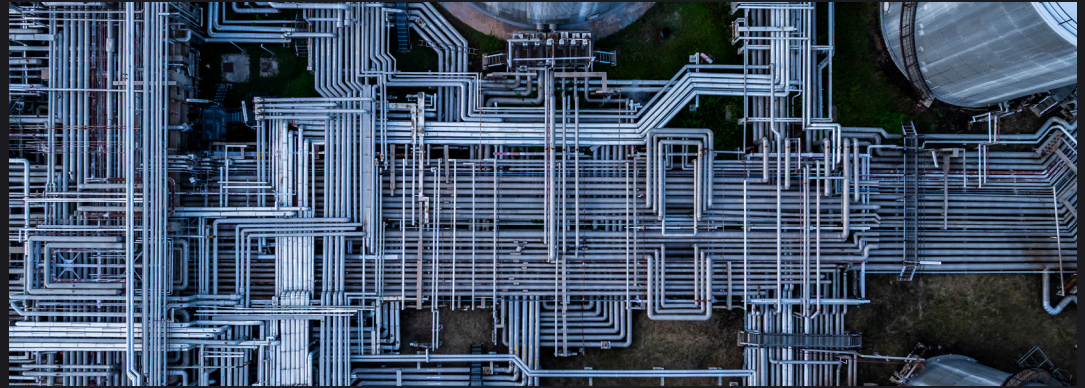




PRODUCT SHEET

Octave OnSite Spool Design

Fast and accurate spool and erection isometrics



Octave OnSite Spool Design (formerly Intergraph Spoolgen) is a proven, industrial-strength application that enables the creation of piping isometric drawings for fabrication and erection from the design created during the detail engineering phase of projects. You can add additional information – such as the location of field welds – and create new drawings and reports from the same source as the original drawings. OnSite Spool Design is built on Isogen, the industry standard software for automated piping isometric generation that has been deployed successfully on all sizes of plant engineering projects in every region of the world. Any piping project designed using CAD can use OnSite Spool Design, so both traditional and newly emerging industries can benefit.

OnSite Spool Design provides a fast return on investment, is simple to use, and requires minimal training. It significantly reduces:

- Labor hours
- Fabrication costs
- Project schedules
- Rework
- Errors during pipe erection
- Waste

Eliminate errors and rework through data consistency

Piping data is typically delivered from the engineering contractor to the pipe fabricator via IDF or PCF files (Isogen input files created in the EPC's design system). Using OnSite Spool Design ensures total data consistency with the original design of the piping system. This accurate flow of electronic data significantly reduces the chances of piping data errors, avoiding expensive rework, saving time and associated cost.

Add fabrication and erection information to isometrics

Piping fabricators can easily add fabrication and erection information to electronic pipeline data files (IDF or PCF) without the need for re-drafting or re-entry of material data. Isogen is integrated with OnSite Spool Design for isometric regeneration, which allows control over the look and feel of the isometrics you produce so you get the drawings you need.

Spools are defined by the addition of field weld positions on the isometric drawing on-screen. Oversize Spools are shown to the user so they instantly see which Spools need adjustment. OnSite Spool Design then automatically produces the required number of spool isometrics for pipe fabrication in the workshop. Erection isometrics for the complete pipe can also be produced, aiding onsite activities when the spools are finally erected in-situ.

Provide a rapid return on investment

OnSite Spool Design is widely used by the world's leading pipe fabricators and by EPCs generating fabrication drawings. Extensive global project use has identified quantifiable savings in terms of labor hours, manufacturing costs, project schedules, rework and erection errors. OnSite Spool Design generates significant financial savings and provides a very quick return on investment.

Integrate with all leading plant design systems

Piping fabricators can use OnSite Spool Design in conjunction with all leading 3D plant design systems, including Forte 3D (formerly Intergraph Smart 3D, PDS and Forte 3DWorx (formerly CADWorx); Aveva PDMS and E3D; Bentley OpenPlant; Autodesk Plant3D). Whatever system an EPC uses, OnSite Spool Design can deliver the isometric drawings required for fabrication and erection.

Projects without Isogen data

You can work with OnSite Spool Design even when isometrics are only available as PDFs or other hard copy. When you purchase a license of OnSite Spool Design, you also receive a license of Forte Isometrics (formerly Intergraph Smart Isometrics), which is used to create new piping isometrics by rapidly re-drawing an existing isometric. Piping specifications and materials catalogs from a variety of plant design systems can be converted automatically to Forte Isometrics thus enabling piping isometrics available in paper copy only to be sketched and an electronic PCF produced. This means the same workflow can be used for both hardcopy and electronic projects.

Visualize piping data in 3D

Interactively display the contents of pipeline data files (IDF/PCF) imported into OnSite Spool Design as scaled 3D models. You can see the size of spools relatively to fixed volume, helping to decide how to divide up large spools. 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 OnSite Spool Design-generated piping report data with almost any downstream IT system, such as material control, procurement, workshop and weld management systems, Loop Core/Intergraph Smart Materials, OnSite Production (formerly Intergraph Smart Production), Oracle, SAP®, Microsoft Excel- or Access®-based or other legacy systems using file-based reports or an API.

KEY FEATURES

- Enables the addition of fabrication and erection information to piping isometrics from plant design systems
- Generates all necessary isometric drawings and material reports automatically
- Import data from line lists, spread sheets or databases
- Create custom scripts to automate common tasks
- Defines spools by the addition of field weld positions onscreen
- Enables you to add your own pipeline attribute data
- Enables the importing of piping data from leading plant design systems such as Forte 3D and PDS
- Delivers drawing output files in AutoCAD, MicroStation, or SmartSketch® format
- Allows engineers to use their own backing sheets
- Provides a range of dimensioning options – string, composite, overall, and to center or end of valves
- Supports optional output files, including material control, weld summary, spool information, cutting list, printed bill of materials, component traceability, bending control, drawing cross reference, and bulk material list
- Supports industry-standard drawing sizes that conform to ANSI, "A" series, or your custom size
- All versions of client files are stored, and different versions can be compared
- Automatically incorporate local changes when new isometrics are issued by the client
- Maintain consistent weld and spool numbering

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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