INTERGRAPH SPOOLGEN®

FAST AND ACCURATE SPOOL AND ERECTION ISOMETRICS

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. Spoolgen 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.

Spoolgen 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 Spoolgen 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.

Spools are defined by the addition of field weld positions on the isometric drawing on-screen. Spoolgen 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 on-site activities when the spools are finally erected in-situ.

Provide a Rapid Return on Investment

Spoolgen 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. Spoolgen generates significant financial savings and provides a very quick return on investment.

Integrate with all Leading Plant Design Systems

Piping fabricators can use Spoolgen in conjunction with all leading 3D plant design systems (including Intergraph Smart® 3D, PDS®, and CADWorx®; Aveva PDMS; and Bentley AutoPLANT and PlantSpace). Whatever system an EPC uses, Spoolgen can deliver the isometric drawings required for fabrication and erection.

Projects without Isogen Data

You can work with Spoolgen even when isometrics are only available as PDFs or other hard copy. When you purchase a license of Spoolgen, you also receive a license of 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 Smart Isometrics format, 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 Spoolgen 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 Spoolgen-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 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 Smart 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 HEXAGON

Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Our industry-specific solutions create smart digital realities that improve productivity and quality across manufacturing, infrastructure, safety and mobility applications.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at hexagon.com and follow us @HexagonAB.

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