

## ISOGEN®



### AUTOMATIC PIPING ISOMETRICS FROM 3D PLANT DESIGN SYSTEMS

ISOGEN® is the industry-standard application for the automatic production of piping isometrics and bills of materials, with about 50,000 users worldwide. ISOGEN is the core technology of Intergraph's popular suite of piping software solutions for the plant life cycle. It is highly configurable and is the most automated engine available today for piping isometric drawing production.

Eliminating the need to manually edit isometric drawings significantly reduces fabrication and on-site construction errors. Consistent drawing content is provided through isometric repeatability, which ensures that the number of drawings, basic content, and spool and weld numbers following pipe design changes remain consistent.

ISOGEN's companion product, I-Configure™, allows you to customize and configure your isometric drawing output. You can choose from a range of options to obtain the isometric output you require using standard wizards. For example, you can employ in-house terminology and foreign language text, place standard information and symbols at user-defined locations, and choose from a variety of 2D and 3D skew representations.

### OUTPUTS AND REPORTS

- Bills of materials
- Bending reports
- Weld reports
- Support summaries
- Insulation length calculation
- Pipeline surface area calculation
- Weight and center-of-gravity calculations

### KEY FEATURES

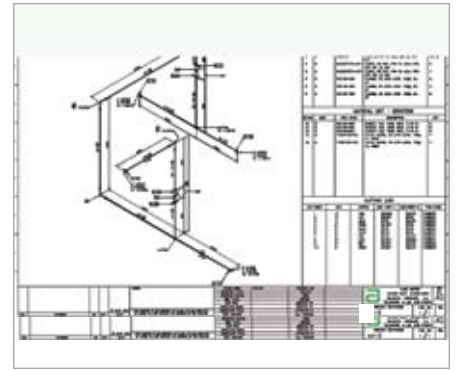
- Produces automatic piping isometrics from all leading plant and pipe design systems
- Is embedded within all leading 3D plant design systems, including Bentley and COADE
- Provides fully customizable reports and drawings
- Generates a wide range of standard outputs and reports
- Generates bills of materials
- Handles metric and imperial dimensions
- Produces isometrics, via unique system logic, that are clearly laid out and annotated in accordance with current industry practices
- Includes options to suppress or modify the representation of information

## FULL CUSTOMIZATION

- Alternative text – You can include in-house terminology as headings or messages, with support for foreign languages
- Text positioning – Standard information and symbols can be placed at user-defined locations
- Ability to ensure the same number of drawings, basic content, and spool and weld numbers following pipe design changes via isometric repeatability
- Grouping of messages on individual components
- Item code description and substitution
- User-defined fittings and symbols
- Choice of 2D or 3D skew representation

## DRAWING OPTIONS

- Ability to reference dimensions to nearby objects external to the pipeline, such as steelwork and equipment
- Insulation/tracing/fluid flow on pipe and fittings
- Pipe centerline or BOP elevations
- Continuation/nozzle connection points shown by dotted pipeline indication
- Additional materials – You can add-in materials to the bill of materials
- User-defined spool prefixing and numbering
- Support for hygienic pipework fittings
- Detail sketches
- Tapping points on fittings
- Unique part numbers
- Location points and penetrations
- Reinforcement pads on fabricated tees and crosses



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## ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data into understandable visual representations and actionable intelligence. Intergraph's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph

PP&M provides enterprise engineering software for the design, construction and operation of plants, ships and offshore facilities. Intergraph SG&I provides geospatially-powered solutions to the defense and intelligence, public safety and security, government, transportation, photogrammetry, utilities, and communications industries.

For more information, visit [www.intergraph.com](http://www.intergraph.com).

