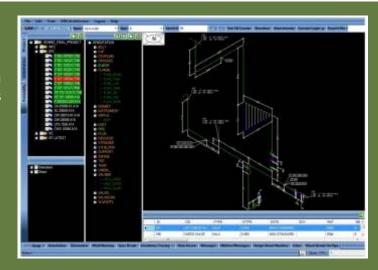# EUREKA D-SOFT PVT. LTD.

ISOMEC

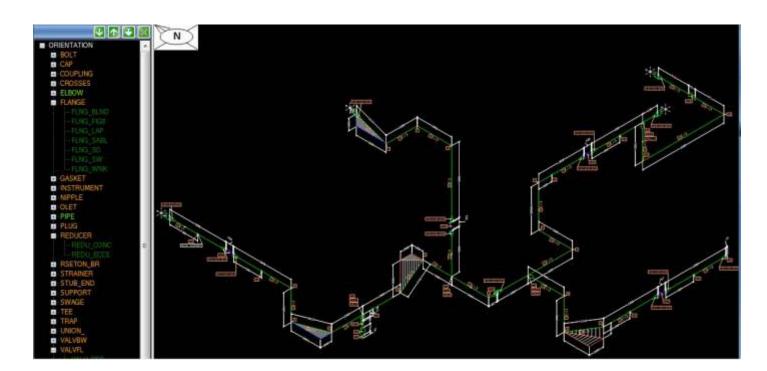## CONVERT HOURS REQUIRED FOR PIPING ISOMETRIC DRAWING, INTO JUST A FEW MINUTES

ISOMEC is a piping engineer's software used for making piping isometric drawings, piping spool drawings, bill of materials and reports automatically from the outline of piping routing reference .The software is specification driven, rule based and automated for routing intelligent piping isometrics. The piping components used in the isometrics are supported with dimensions and annotations with the objective to maximize automation and improving productivity.

BENEFITS OF USING ISOMEC :

- Cost saving because implementation of ISOMEC does not requires CAD.

- The software is specification driven. Just a rough sketch is required to turn the work that normally takes hours into minutes.

- ISOMEC can save 75% of time compared to manual CAD drafting & manual calculation of bill of material

- Can be configured for various industrial requirements by customizing the software using AUTOSYM & AUTOSPEC

- Revisions management is in-built in the software. Additions, deletions, modifications related to revision changes can be easily done on the existing routing. Multiple revisions graphics & bill of materials are maintained systematically in the software for easy reference & retrieval.

- Project management

GRAPHICAL USER INTERFACE OF ISOMEC :

INPUT :   Hand-made piping isometric or piping general arrangement drawing(GAD).

OUTPUT :   Piping isometric drawing with bill of material, cut length, weld type, Inch Dia etc. in DWG, DXF, DGN, PDF formats. Reports of line wise bill of materials, consolidated bill of materials in excel, text,csv formats.

ISOMEC is a spec-driven software which is backed with AUTOSPEC for generation of piping material specification from component catalogue. Graphical symbols can be created using Symbol Generator feature. The program combined with the unique features for piping specification generation and symbol generation turns into a independent world-class system facilitating automated isometrics.

Software is independent over general CAD	Reduction in project duration time
Efficient Rule based, specification driven	Creation of user Specific symbol
Automatic generation of isometric drawing with BOM	Data rich piping standard database as per ANSI, DIN, BIS, IS etc
Automatic summary reports for BOM / MTO	Automatic bolting as per bolt standard
Automatic Annotations (Annotation Generator)	Automatic Gasket as per standard
Automatic Dimensioning	Automatic Flanges as per the rules
Reducing design time	Insulation and Tracing graphics
Automatic change in specification with all the related components one can make the desired specification within a minute	Piping Standard support and provision to customize support as per the requirement
Provision for marking supports & labeling with support tag names.	A single functioning / working interface for viewing and editing all the project line data.
Providing support for making the desired labeling	Accessibility to data assets by everybody in the organization
Provision to add messages, attachments, instrument tag names etc.	Flexibility for designer to add / modify with ease
Proper documentation of projects including revision information	Firefighting special components catalogue is standardized in the software.
Isometric drawings with the material bill in DWG , DXF , DGN , PDF , formats	User can create piping assemblies like drains, vents etc.

FIRE FIGHTING INDUSTRY CATALOGUE :-

Special components & graphics like twin elbows, tapped elbows, tapped tees, tapped crosses, equal y-piece, right-angled y-piece,etc. are standardized for piping routing involved in safety/fire fighting industry.

There are many setting are available in software like Global setting ,Annotation setting ,Dimension setting, Layers, Symbol designer etc. This helps the user to configure the isometric output in desired way.

ISOMEC UNIQUE FEATURE :

ISOMEC is also used for performing revision changes / modifications of the existing isometric drawing. The program takes care of revisions in the piping components & piping routing through interactive tools. Revision changes can be updated with clouds & revised drawings are generated with indicative Cloud marking in the graphics and bill of materials.
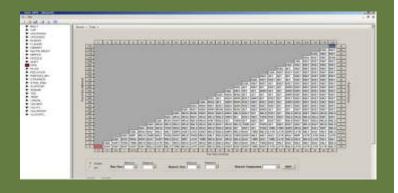
Firefighting standard catalogue available in ISOMEC.

AUTOSPEC (PIPING MATERIAL SPECIFICATION) :

This module is used for creating piping material specification from the component catalogue along with component dimensions. The component catalogue can be updated with piping items which are saved logically using breakup parameters like Item type, base material, material grade, material description, dimensional standard, short / long description, size, thickness / rating / schedule, end conditions etc.

Components belonging to a piping class can be selected from component catalogue. one can query on piping parameters to filter out the specific item of the specification.

AUTOSPEC is designed with inbuilt facilities generate & map branch tables with the piping class, which is used to automate the validation and the usage of right branching component in the piping routing.
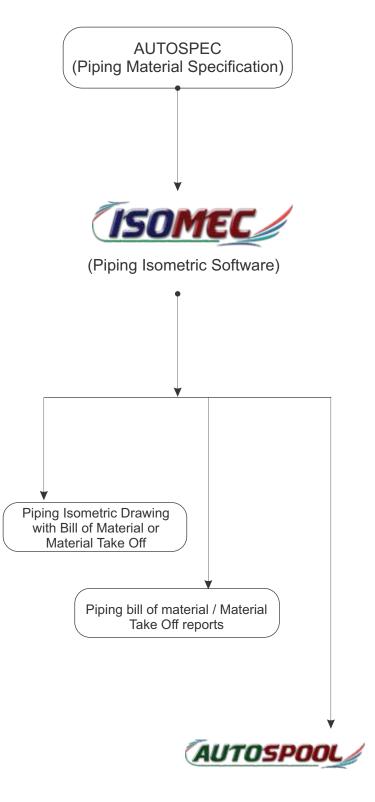
The module is user friendly & specifications can be created with ease.

Automatic branch table generation & Validation for accuracy.
AUTOSPEC is additionally flexible, in order to create defined description, material etc.

ISOMEC WORKFLOW

AUTOSPEC
(Piping Material Specification)

↓

ISOMEC
(Piping Isometric Software)

↓

Piping Isometric Drawing with Bill of Material or Material Take Off

Piping bill of material / Material Take Off reports

AUTOSPOOL

PIPING ENGINEER'S DREAM COME TRUE :

The plant piping engineers can now rejoice. EUREKA D-soft brings you ISOMEC , a complete software solution ideal for today's modern work environment. ISOMEC helps in saving precious time and offers huge cost savings. Where previously it would take few hours to design a piping isometric drawing , ISOMEC software can perform the same work and be done in minutes. What's more , it can completely be customized , in short it is a boon / asset for the piping engineering industry.

INTEGRATION WITH THE THIRD PARTY SOFTWARE :

The output / results from ISOMEC can be sent / shared with a third party software for further communication to CMM machine or to an in house customized software. We are open for creating integration with the clients existing software. One can also inbuilt the ISOMEC facility in customers specific application. Kindly get back to us for more information on the same.

ISOMEC has direct integration with AUTOSPOOL software for further Spooling operation and then to fabrication and erection control solution

TRAINING & CUSTOMER SUPPORT

We even provide training & customer support on and off site for successful installation of the software. This is to make sure the limitless merger of the software with the clients work process

MINIMUM RECOMMENDED HARDWARE & SOFTWARE

Machine I-7 onwards with 4 GB RAM. Operating system WIN 8.1 onwards (64 bit)

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