RELSOFT S.A.
ENGINEERING SOFTWARE

EPLANT represents the best available option for Plant Design. Joints together in the same product the sophistication required for big projects with the easy of operation and the reduced size of drawing files. All that at an affordable cost.

EPLANT
Software for Plant Design with AutoCAD

AutoCAD
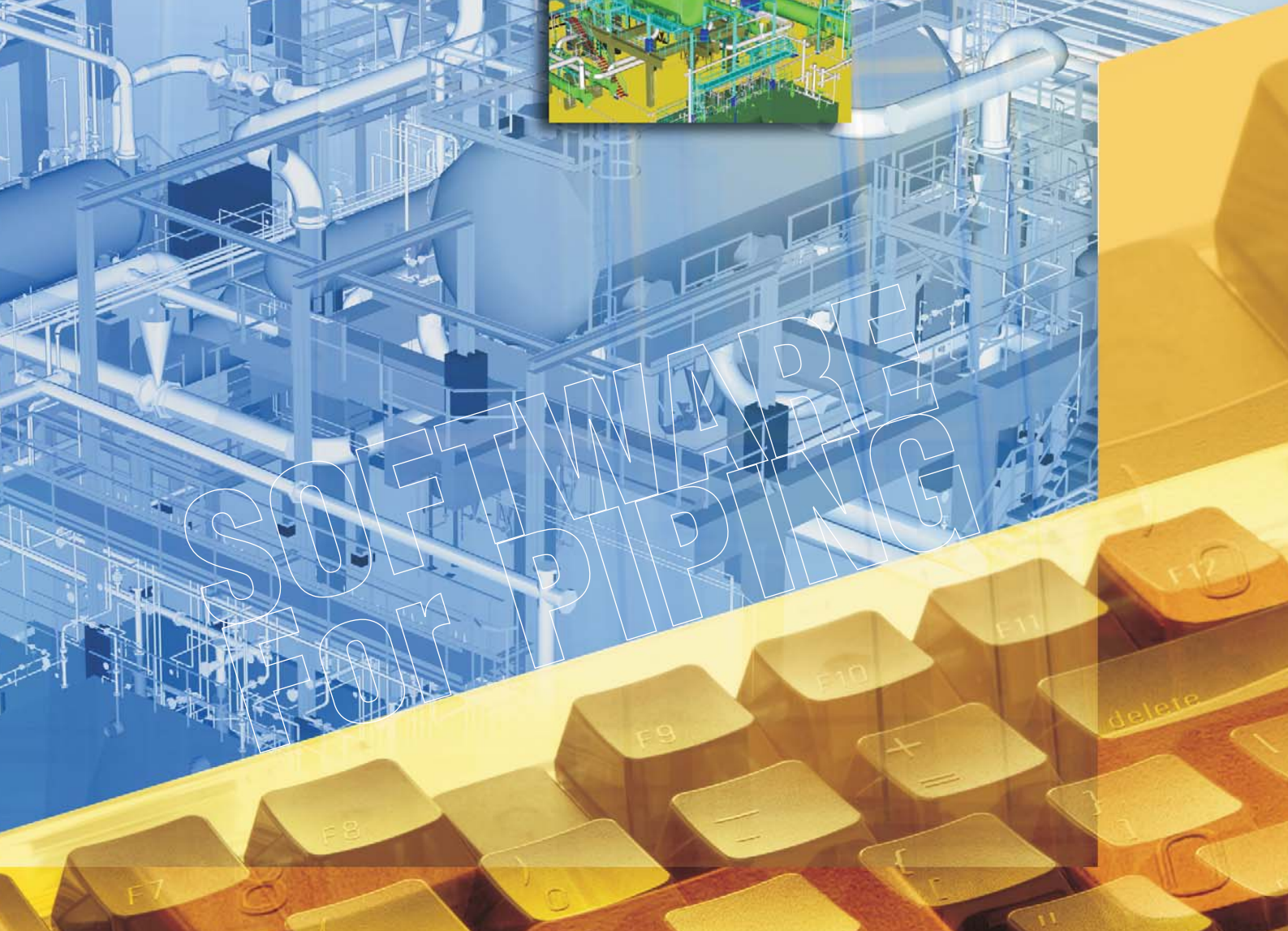compatible along with all document viewers.

3D Models
Works with very small dwg files.

Materials
Integrated Material Requisition generation.

SOFTWARE for PIPING

RELSOFT S.A.
ENGINEERING SOFTWARE

EPLANT
Software for Plant Design with AutoCAD

EPLANT is composed by three modules:

EPLANT-Piping:
3D Equipments and Piping modeler with Isometric and 2D Plan extraction and Material Requisitions generator.

EPLANT-STH:
3D Structural, Cable Trays and HVAC modeler.

EPLANT-P&ID:
P&ID drawing with report generation (lines, equipments, instruments, etc.).

EPLANT-Piping - Technical Specifications

3D MODEL
It allows to build plant models with several thousands piping lines inside drawing files very small (1000 lines fill inside a 6Mb dwg file). The 3D model is the source for generating all information, assuring in this way the consistency during the Project. The project itself can be divided into different dwg files. All EPLANT commands automatically support the external reference files (XREF).

PIPING SPECIFICATIONS
Piping component generation is driven by specifications. Specification format is easy to understand. New specifications are easy to load. Existing models can be automatically updated with changes in the specifications.

DIMENSIONAL CATALOG
The default piping component catalog is quite extensive (110000 components). It includes ANSI and DIN standards for carbon steel, Alfa Laval for stainless steel, Victaulic for mining projects, several providers of PVC, PP, FRP, PRFV, ERFV. New catalogs and components can be added by the user itself.

ISOMETRICS
Piping isometrics are automatically generated without additional programs. Dimension and annotation criteria and MTO reports can easily be changed. The isometric drawings are intelligent files with the same properties as the 3D models. For this reason, additional annotations can always be added after the extraction. In case the line has the spools defined, the spool isometrics are also generated in separated drawing files. The same for welding numbers.

2D PLANS
2D plans and elevations can be automatically generated with a suitable command. Annotations are placed in semiautomatic mode. Symbology can be double or simple line. 2D plans can be automatically updated in case of changes in the 3D models as well as the corresponding annotations.

INTERFERENCE CHECKING
Interference checking allows to identify and eliminate conflicts between objects that were not visually detected during the model construction.

MATERIALS AND COSTS
EPLANT-Piping is a complete management material system because allows to automatically integrate the material of all the project models and to generate Material Requisitions, assigning revisions and item numbering.

MATERIAL CODIFICATION
Three different material coding systems can be used at the same time to comply with the most stringent client requirements.

SCHEDULING
3D models can be used to graphically represent any construction or operational phase associated to equipments and lines, assigning dates and color codes to each equipment and line.

EXTERNAL DOCUMENTS
Any object inside 3D models, 2D plans and isometrics can be linked to External Files in any format (doc, xls, gif, etc.)

EXPORT TO NAVISWORKS
3D models can be exported to the Navisworks program along with all properties to help in the Design Review.

EXPORT TO PDMS
EPLANT 3D models can be automatically exported to the PDMS system. An additional conversion program is required that allows to import the component catalog and piping specifications in PDMS format. No PDMS licenses are needed for the conversion.

DEMO VERSION
Using the system without the corresponding hard-lock, the Demo Version is automatically activated. This version allows to works with some limitations and is available without any charge. It can also be used to query an existing EPLANT project.