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PUMA

REDUCING TIMES, COSTS AND RISKS IN THE PIPING MATERIAL MANAGEMENT



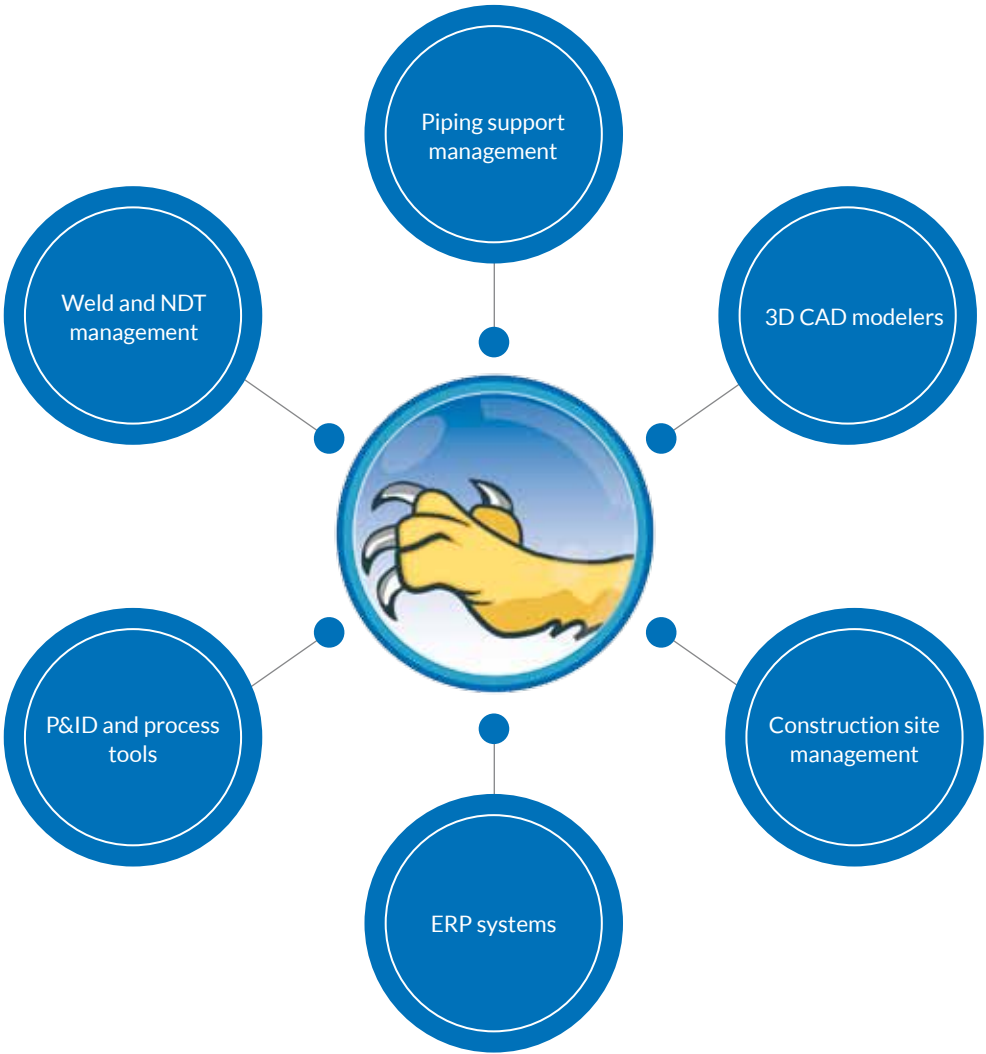
OVERVIEW

Puma5 is an integrated engineering IT suite that supports all the activities of the piping discipline, managing the line list, piping specification development, material management up to the generation of material requisitions. Puma5 guarantees the integrity of data improving the overall quality of the project execution, reducing the impact of costs and the delay of the schedule; Puma5 has been designed on the requirements of the major EPC contractors.

During each stage of the project life cycle all data resides on a single database: this gives the possibility to perform consistency checks, ensuring that all data is consistent with international and company standards, raising warnings to the engineers who will take appropriate actions to avoid possible problems that might arise during the project development.

Thanks to its modular architecture, Puma5 can be used either as a total solution or in a customized version by choosing the single modules of interest to be installed, but always allowing a seamless integration alongside with other products or in-house solutions already in use.

A powerful change management system helps material engineers to keep track of changes that might occur during the project life cycle.



BUSINESS BENEFITS

Fast implementation and quick learning curve thanks to the user-friendly UI based on Microsoft® Office™ interface.

Consistent and controlled reports improve the overall project quality and reduce labor costs.

Lower overall project costs by reducing material shortages and surpluses, engineering man-hours and by early detecting potentially material supply issues.

Web-enabled by means of Terminal Services or Citrix XenApp, allowing collaboration across project teams located in different parts of the world.

Reduce the project schedule with the integration of engineering design solutions such as process tools, 2D and 3D CAD systems and procurement solutions.

Puma5 has a unique feature of automatically building the project catalogue from the piping classes, saving time and start-up costs.

KEY FEATURES

PIPING CLASSES

Piping classes define the characteristics of the components related to piping specifications. Editing is very quick since it is carried out using the Data Dictionaries. From the piping classes, the application automatically creates the list of the project piping components (component catalogue) that will be later used to carry out the Material Take-Off.

BRANCHES TABLES AND ASSEMBLIES

Branches tables define components for line intersections between header and branch. The application will automatically provide the necessary components detail from the piping classes connected to the branches tables. Assemblies (e.g. vents, drains, instrument connections) can be managed in the application. The piping assemblies are then used in Material Take-Off allowing Users to count them; the application will automatically provide the necessary piping components detail.

COMPONENT CATALOGUE

The component catalogue is automatically produced from piping classes including weight and surface based on formulas that can be configured by the User. Component dimensions can be added whenever a link to the 3D model is needed. Companies already having their own coding for piping components can use it directly in the component catalogue.

MATERIAL TAKE-OFF

The Material Take-Off input is quick and easy by means of a friendly interface that allows Users to select components directly from the piping classes template or it can be imported directly from the 3D model. Material Take-Off consistency is guaranteed by an automatic check against the latest version of the piping classes and it can be upgraded to the last available component catalogue.

MATERIAL REQUISITIONS

Material Requisitions are automatically generated from the bill of materials list. In order to manage material contingencies, the quantities of materials can be automatically increased using convenient and easy surplus rules. The delta quantities - arising from revisions of the Material Take-Off - are automatically managed by the application.

FLUID STREAMS AND LINE LIST

Fluid streams and line list can be managed by the application; the data consistency between fluid streams, line list and piping classes is guaranteed by an automatic check against the latest version of each one of them. For European projects PED calculation is available.

PAINTING AND INSULATION

Painting and insulation is an highly valuable feature. Painting cycles and insulation specifications can be defined by the User and together with line list, fluid streams and Material Take-Off data the application automatically computes the required insulation and painting materials.

MECHANICAL CHECKS

The mechanical checks module calculates pipe thickness using data from piping classes and/or line list. The module also verifies the vacuum condition on lines and piping classes, it calculates the reinforcing pads and performs hydraulic and pneumatic tests calculation. It supports ANSI B31.1, B31.3, B31.4, B31.8 and ASME VIII standards.



CAD INTERFACES

Thanks to a completely automated process, the application can produce the components catalogue complete with the dimensional data, the piping specs and the accessories tables which are needed by 3D modelers in order to be ready for modeling. Besides the 3D modelers directly supported-Intergraph® PDS™, Aveva® PDMS™, Bentley® AutoPLANT™, Unigraphics® NX™- the application can be seamlessly integrated with ELENA 3D CAD interface.