MPDS4
PLANT DESIGN & FACTORY LAYOUT

Highlights and Benefits

HIGHLIGHTS — BENEFITS

HIGHLIGHTS	Lowers Project Costs	Decreases Project Times	Reduces Expensive Errors	Boosts Design Productivity	Strengthens Competitiveness	Improves Project Communication	Ensures Project Quality	Increases Flexibility	Integrates Processes	Provides Easy 2D to 3D Transition	Competitive Differentiator
Design & Visualisation											
Easy to learn for 2D users	●	●		●	●					●	●
Use of existing 2D layouts as basis for 3D buildings	●	●	●	●	●		●	●	●	●	●
Parametric component libraries for fast placement & routing	●	●	●	●	●					●	●
Quick design and re-use of 3D product specials	●	●	●	●	●		●	●	●		●
Ability to handle extremely large 3D layouts with ease	●	●		●	●		●				●
Hard and soft space interference checking	●	●	●	●	●		●	●			
Consistency checking	●	●	●	●	●		●	●			
Concurrent design across disciplines	●	●		●	●		●				●
Global collaboration with user access controls	●	●		●	●	●	●	●	●		●
Version and change management tools	●	●	●				●	●	●		
Customisable reports and parts lists	●	●		●	●		●	●	●		
Engineering review walk-throughs directly in the 3D design	●	●	●	●	●	●	●			●	●
Integration of external 3D data (e.g. machinery models)	●	●	●	●	●		●	●	●	●	
Automatic generation of 2D drawings from 3D models	●	●	●	●	●	●	●	●	●		
Sales & Communication											
3D concept or pre-sales designs based on client's 2D layouts	●	●	●	●	●	●	●	●	●	●	●
Re-use of pre-sales concept data in main project phase	●	●	●	●	●		●	●	●	●	●
Easy design changes in meetings, in 2D or 3D	●	●		●	●	●	●	●			●
Movie-like 3D walk-throughs			●	●	●		●	●			●
E-mailable 3D plant models for use with separate review tool	●	●	●	●	●		●	●			●
Easy data exchange with customers, partners, suppliers	●	●	●	●	●	●	●	●	●		
Implementation & Administration											
Modular software - only buy what is required	●			●			●				
Quick to install and implement		●	●							●	●
Easy to create and administer projects and users	●	●	●	●			●			●	●
Extensible, customisable parametric parts catalogs	●	●	●	●	●	●	●	●		●	●
Configurable user interface and tooltrays	●	●	●	●			●				
Bespoke application / customisation development services	●	●	●	●		●	●	●			●
Quick-start implementation & modelling services		●	●	●	●		●	●		●	●
Design process automation capabilities & consultancy	●	●	●	●	●		●			●	●
Systems Integration											
Integration with existing engineering & enterprise software	●	●	●	●	●	●	●	●	●	●	
Extensive 3D and 2D CAD data interfaces	●	●	●	●	●	●	●	●	●	●	
Interface for automatic pipe isometric production	●	●	●	●	●	●	●	●	●	●	
Highly customisable and extensible open systems architecture	●	●		●	●		●	●			●

MPDS4 MODULES & ADD-ONS

2D/3D FACTORY LAYOUT	2D/3D CONVEYOR DESIGN	3D PIPING DESIGN	P&ID SCHEMATICS
3D STEEL DESIGN	3D ELECTRICAL DESIGN	3D STANDALONE REVIEW & VISUALISATION	3D COMPONENT DESIGN
3D HVAC DESIGN	3D ENGINEERING REVIEW	CAD, ERP, EDM & ANALYSIS INTERFACES	ISOGEN™ INTEGRATION