



## Smap3D Piping

### Software for Planning 3D Piping Systems

Use Smap3D Piping to plan complex 3D piping systems for machinery and production plants. The software is completely integrated in SolidWorks. An extensive library and many intelligent functions save time and money and avoid the need for expensive reworking. Our solution provides the optimal process for plant design, covering P&ID diagrams, 3D planning and accurate isometrics.

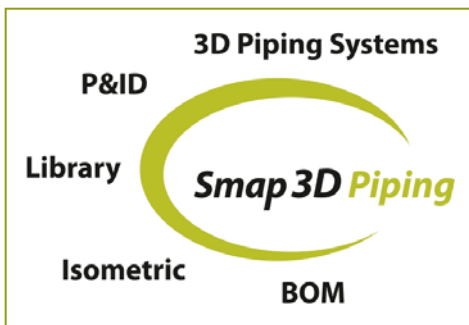
#### Easy 3D pipe systems development with pipe classes

Smapp3D Piping is used to set the components to be used in specific situations by defining them in pipe classes. This controls the many automatic functions and the user only has to concentrate on drafting the tube path in 3D. Smap3D Piping generates complete piping assemblies on the path automatically, using the correct bends, pipes, tees, flanges etc.

Pipe classes can be defined very easily by the user. The user only has to set material, diameter, pressure, temperature and so on for the components.

Pipe classes are used when modifying the design as well. If an assembly is assigned a different pipe class in the course of a process change, all that needs to be done is alter this in Smap3D Piping. The software automatically swaps all the components and pipes which are affected by the change.

Smapp3D Piping is an advantage for every plant designer!



**Optimal process chain  
for plant construction:  
P&ID – 3D Plan – Isometrics**





## Highlights of Smap3D Piping



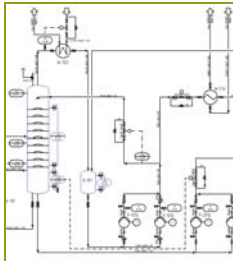
### Extensive library

for plant design guarantees that Smap3D Piping can be used straight away. Various international standards are available: DIN/ISO, ANSI, UNI, GB, JIS, GOST.



### Choice of sections

Smap3D Piping processes tube sections which can be defined as the user wishes. Cable ducts, air ducts, etc. can be created quickly and efficiently.



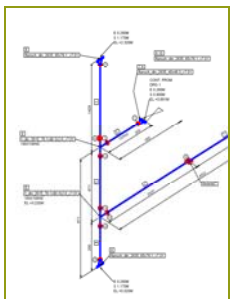
### P&ID

Smap3D P&ID is a database controlled 2D system for the creation of intelligent piping and instrumentation diagrams.



### Insulation

The insulation information is defined in the pipe classes. A separate value is defined for the dimension of each diameter. Insulation and the required cut-offs for fittings are then generated automatically.



### Pipe Isometric

is generated from the 3D model at the click of a button. All the information such as measurements, cut-outs, annotations, lists of welds and materials are generated automatically. The system software is market leader Alias's ISO GEN.



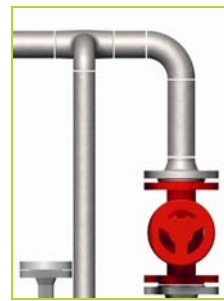
### Pipe reductions / expansion

are placed with a few mouse clicks. All the necessary tasks such as separating assemblies, placing of reducer/expander, shortening pipes, changing the diameter etc are carried out by Smap3D Piping automatically.



### Bills of Materials

All the relevant information in the plant design is available in Smap3D Piping. Standard reports can be produced in the Solid-Works BOM. Dedicated plant design BOMs can be produced using the CAD system, the isometric or Smap3D BOM.



### Welding gaps

are generated automatically. The width of the gap required is defined in the pipe class according to diameter. Smap3D Piping generates the pipes with the length reduced, including the necessary BOM information.

Smap3D Piping needs no further system requirements. Further information about the software and its capabilities can be found at:

[www.Smap3D-Piping.com](http://www.Smap3D-Piping.com)

Smap3D is a product from CAD Partner GmbH.



**Business Partner:**  
**Pelf Infotech Private Limited**  
"Vimal Sadan", 11/16-A,  
Nirzar Hsg. Soc., SBI Colony,  
Opp. Swapna Shilp, Kothrud,  
Pune - 411 038 MH INDIA



Fon: +91-20-25454612 / 25439405  
Fax: +91-20-25454612 / 25439405  
info@pelfinfotech.com  
[www.pelfinfotech.com](http://www.pelfinfotech.com)