3D Pressure Vessel Design Software® (3D PV 2017)

Rapid Design

3D PV 2017® enables the rapid configuration and detailing of tanks and pressure equipment automating the generation of 3D geometry models, elevation and layout drawings, fabrication and assembly drawings, production component lists and bill of material.

Easy to use Graphical User Interface

Through the easy to use graphical interface a complete design can be configured and detailed in less than one hour including the automatic generation of 3D geometry with production details, to scale drawings, bill of material, production and cost reports.

The configuration and layout of the vessel components is facilitated through intuitive user interface created specifically for vessel design. A user can quickly select the appropriate types and dimension for the heads, shells, support system, nozzles, and other internal as well as external features. Fabrication details for shell courses, plate sizes, edge preparations, weld types, and other production details are quickly and easily added to the model. Utilities are provided to inspect the details on the 3D geometry, edit the drawings, export the bill of material, and many other functionalities to facilitate rapid updates of design changes.

3D PV2017 integrates with your existing engineering and business software. Export of drawing to AutoCAD® and other CAD systems, and bill of material to business applications.

Wide Range of Tank Designs

3D PV 2017® supports a wide range of tank designs and configurations from horizontal with saddles to vertical with legs, skirts, or support rings. Columns, with multi sectional shells with different diameters and transitional sections are also supported. Half pipe jackets on heads and shells are supported.

Internal components such as tray rings, baffles, and vortex breakers, as well as external components including lugs, clips, and vacuum rings can be integrated. Manways and nozzles with various configurations and attachments are supported. The design of the ladders and platforms as well as their attachment is also provided.

Rapid Response to Design Changes

Within minutes design changes can be made to modify, add, or delete features. The 3D geometry, drawings, bill of material, and cost reports are automatically updated.

Benefits and Impacts

Easy to use graphical interface. Mastered in less than a day of training.

Intuitive Design Environment. From configuration to 3D geometry, to-scale drawings, and bill of material in one hour.

TEHNOSOFT LTD

3D PV 2017® is distributed by Tehnosoft Ltd, Zagreb.

For more information, please contact us at +385(0)98 9080321 or via email at tehnosoft@tehnosoft.hr. You can also visit our web site www.tehnosoft.hr and www.3dpv.net.
Rapid Design And Fabrication Drawings With 3D PV!

USE IT TO BELIEVE IT

3D Pressure Vessel design software 2017®
Design and Validate Your Products Digitally

- Downstream users require rapid creation of production-ready drawings.
- Designers need to optimize product performance and make accurate design decisions without detecting that during manufacturing.

Automation

- Complete BOM (bill of material) can be generated to drawings.
- Nozzle Table and Coupling table, contains type, size, rating and another data for each item.

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3D Pressure Vessel design software 2017®

3D PV® software is a special software for 3D modeling of pressure vessels, towers and heat exchangers. It enables creating 3D models faster and easier than any other known way.

Two versions are available: 3D PV 2017 Suite for pressure vessels and towers and 3D PV 2017 Professional for pressure vessels, towers and Heat exchangers.

Additionally, it is able to create 2D fabrication drawings for static equipments by using Autodesk inventor as a platform (Autodesk Inventor 2014 up to 2018).

WEB: www.3dpv.net
www.tehnosoft.hr
E-mail: tehnosoft@tehnosoft.hr
Special interface for each item
Flexibility in iLogic modeling makes you able to create wide range of equipments.
- Pressure Vessels.
- Towers.
- Heat Exchangers
- Slug Cutcher Finger Type and vessel type.
and more...
Additionally, can use it to create horizontal and vertical pressure vessels with different supports types (saddles, skirt, support lugs and support legs, etc.), this model containing manholes, forged nozzles, Re-pads, different types of lifting lugs, trannion and different types of stiffening rings.

This module needs Autodesk Inventor as a platform (mainly), so 3D PV can not be used without it, and requires good knowledge of Autodesk Inventor.
Standards:

- Flanges according to ASME B16.5 for sizes < 24” and ASME B16.47 series A or B for sizes > 24”.
- Flanges according to EN1092-1 2007.
- Couplings according to ANSI B16.11 AND BS3799.
- Fittings according to ASME B16.9-1993.
- Standard McNeil type Handhole, according to (BS1503-224-460).
- Standard McNeil type Manhole, according to (BS1501-151-430A).
- User defined standards available on demand