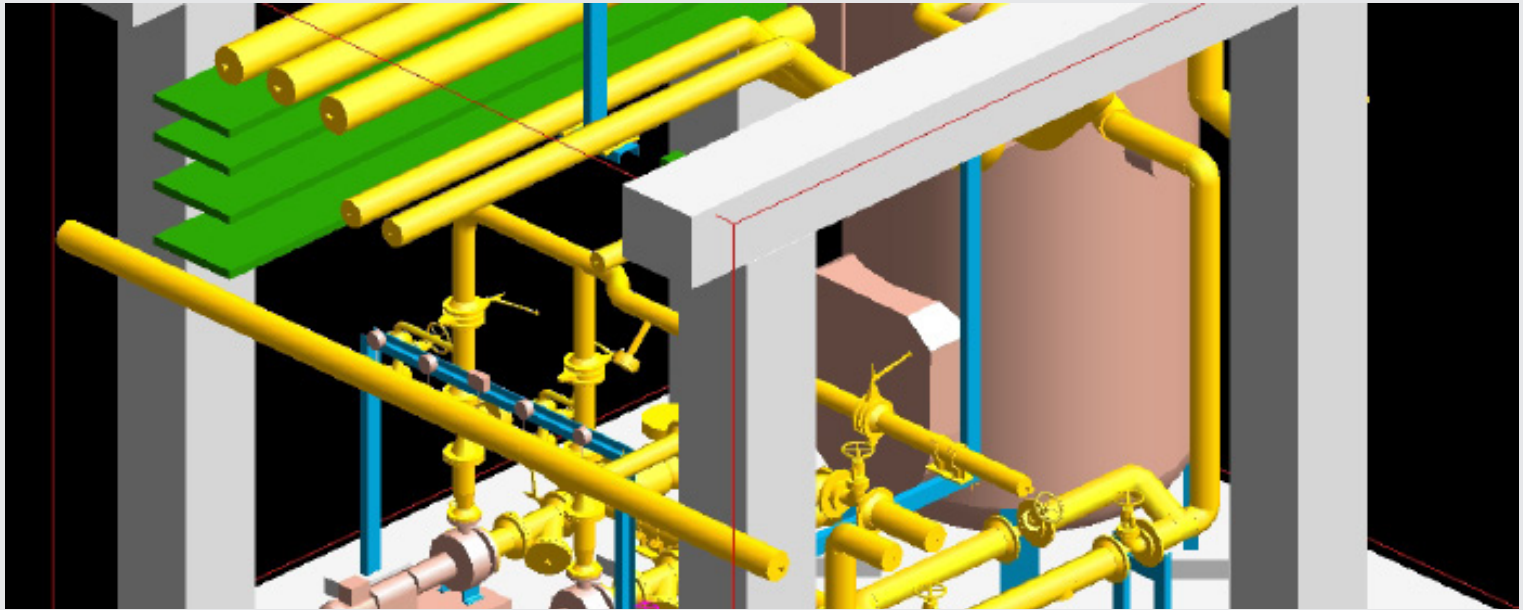


3D SUPPORT

BASICS OF 3D DESIGN TOOLS



Our 3D support team is responsible for issues in the following fields to process with 3D software: Steel and concrete construction/cable trays/HVAC ducts, Generation of 2D drawings based on model data, drawings/catalog parts and equipment modeling, Incorporation of 3D point-cloud data. The work is generally performed with a reduced detail level, so that the designers can avoid clashes in the 3D design and correctly work out connections.

Equipment

The equipment determined by project management is modeled and placed according to the pre-fixed positions in the design drawings. An alternative to modeling can be data importation for completed skids in STEP format.

Draft

The Draft team specialists will derive 2D drawings from the 3D models, e.g. layout plans, details, cross sections and views. Automatic labels are makeable, and measurements can be created manually. However, additional enhancements can be created with AutoCAD or MicroStation if necessary.

Steel/Civil/HVAC/Cable

Steel and concrete construction/cable trays/heating, ventilation as well as a/c ducts are designed.

Catalog

Component modeling for the pipe classes according to the current standards, manufacturer catalogs or drafts/drawings is carried out by the specialist catalog team.

Review

Reviews are regularly used for visualization in meetings.

Laserscan

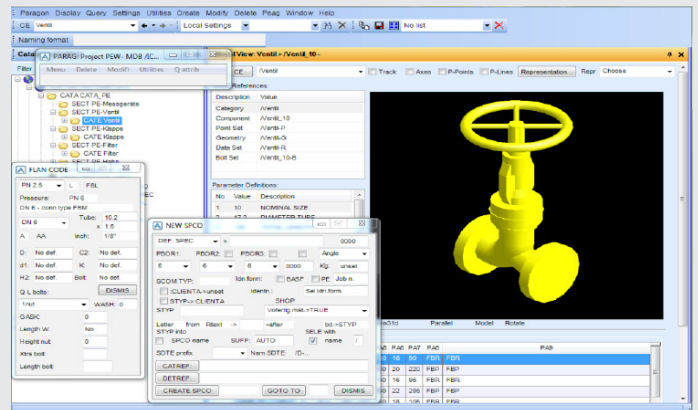
The laser scan team creates 3D models based on point-cloud data, determines the measurements and coordinates. Various software tools are used such as PDMS Design LFM Server, Leica Truview, and Navisworks.

Training Programs

In order to train our own colleagues as well as our clients, the 3D support team organizes training programs on a regular basis. The broad range of long-term experience of our respective specialists provides you with knowledge exceeding all manual information

CAE Programs in use

PDMS
E3D
PDS
S3D
AUTOPLANT
OPENPLANT
etc.



Engineering & Maintenance

Continental Europe

Bilfinger Peters Engineering GmbH
Karl-Räder-Str. 3-5 · 67069 Ludwigshafen · Germany
Phone +49 621 6506-0 · Fax +49 621 6506-245
info.peters@bilfinger.com · www.peters.bilfinger.com