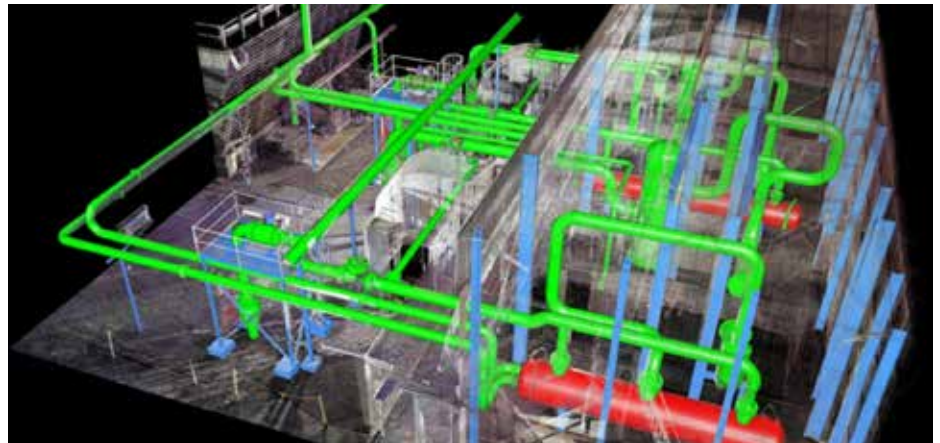


3D LASER SCANNING & DIMENSIONAL CONTROL

INNOVATIVE SURVEYING SOLUTIONS THAT SHORTEN PROJECT DURATION, IMPROVE SITE SAFETY AND INCREASE ACCURACY

Surveying services have become an essential element in managing the entire life cycle of a project from design and construction through to installation, upgrade and revamp.



Our Surveying Services

Effective surveying services offer unprecedented gains for clients working in industries such as oil and gas, shipbuilding, renewable energy, refining, petrochemical, nuclear, manufacturing, and aerospace. Benefits include shortening of project duration, improved site safety, increased integration accuracy as well as reduced field time and potential component modification.

3D Laser Scanning

We offer a unique solution that delivers high definition 360-degree by 320-degree photo-realistic panoramic scans to a 3D CAD surface model.

Our high definition 3D digital capture techniques gather a large amount of field information in a very short period of time. The process works by capturing a series of high definition 3D laser scans on site that can be processed immediately for analysis.

The scans are individually referenced to the plant coordinates with the help of an industrial survey methodology and software system called DIMES (Data Integrated Management Engineering System). These as-built high definition 3D data sets produce a virtual plant / facility environment that can be integrated directly with CAD systems to interrogate and clash check against new Design Models.

Engineering groups can design directly within this data to ensure the elimination of clashes and interferences.

Dimensional Control Management

Our expertise and experience in Dimensional Control Management can meet these challenges and help ensure “clash-free” design and installation of projects involving piping, structural and equipment components that must integrate and “fit first time.”

Dimensional control applications include, but are not limited to:

- New-build Modular (9.5K tons/ea) Piping/ Structural Integration Assurance
- FPSOs, TLPs, SPARs, Semi-subs, Jackets, MinDocs, Compliant Towers, Onshore
- Ship repair / build involving hull alignment surveys
- Fabrication verification surveys for steelwork and pipe

FOR MORE INFORMATION

 survey.mapping@intertek.com

 intertek.com/asset-integrity-management/surveying