

Laser scanning

Laser scanning for project support

3D laser scanning technology for improved project performance and simplified planning processes

Challenge

Lack of CAD data and high design costs to recreate an existing plant frequently prohibits the use of 3D design tools during project execution. Often, outdated or redlined drawings and on-site visits are used as a measurement basis for projects. This holds huge potential for errors: measured values are forgotten or false and drawings no longer represent the as-built situation on-site. As a result, projects suffer cost overruns due to redesigns caused by undocumented as-built situation.

Solution

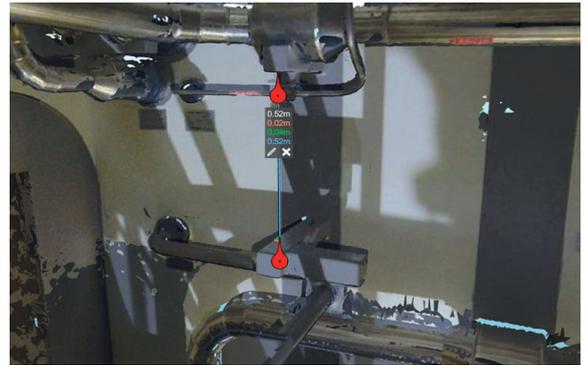
Framatome offers a solution to ensure that customers are able to rely on their 3D data using a 360° laser scanning method. With state of the art scanning equipment, Framatome produces scan clouds, that directly allow 3D layout design and forgoes recreations of models in CAD.

With just a few scans by a trained expert a room can be digitally modelled and measurements be taken. 3D scanning technology can benefit many different kinds of projects. For example, the performance of transportation & assembly studies in scale 1:1 by using Virtual Reality and minimal effort.

Customer benefits

- Design Review and correction of CAD models
- Significant time reduction in comparison to manual scanning
- Reduce redundant work and travel costs
- Use of as-built scan data to merge with new 3D CAD-planning
- Enables comparison of as-built with as-designed at any point of the project's lifecycle

Your performance
is **our** everyday **commitment**



References

Germany

- Documentation Battery Storage Facility, Use of 360°-Panorama Views

Japan

- Feasibility Study: Air Vent Installation

Netherlands

- Modernization of control cabinets; Transportation study of MCP-Motor

Slovenia

- Documentation of Facility Potential Use: Training in VR

Spain

- Implementation of NAS within existing Aeroball Measurement System

Switzerland

- Design Review, Transportation & Assembly Study

Key figures

5mm 3D point accuracy @ 10m distance

~5min per scan

Contact: integrated-systems@framatome.com
www.framatome.com

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