ThyssenKrupp System Engineering

3D Laserscan - a modular service provisioning package

Flexibility of analysis
Laser scanner survey data can offer many data analysis methods which may be adapted to suit your specific requirement.

- Provisioning of the scanning results immediately after the measurement
- 2D layout reconciliation / visualization
- Exported cross sections, projected views and animations
- 3D modeling
- Scene WebShare/ HTML overview layout

Non-contact measurement
Apart from measuring whilst in operation, data may also be captured in hard to access areas without entering hazardous zones.

Improved economy
Despite relatively short measuring times on site, no accuracy need be sacrificed in respect of the measured data. Costly and time-consuming re-measuring on site is rendered superfluous, replaced instead by analysis processes in the office.

The advantages of 3D laser scanning are manifest. The use of state of the art laser scanning techniques will save you costs such as caused by outdated as-is data upsetting planning of your processes.

- Data capture without disrupting your operations
- Largely independent of actual lighting conditions
- Fast, non-contact measurement
- Very short on site measuring times
- High degree of detail
- No costly repeat measurements require

Benefit from the multitude of potential applications:
- Industry and plant construction
- Architecture and building
- Archeology and protection of cultural heritage
- Digital factory and logistics planning
- Documentation of crime and accident scenes

Virtually unlimited further areas of application are in evidence. Please contact us about your requirements – together we will find the solution.
3D laser scanning is a modern imaging process for fast and accurate 3-dimensional surveying, representing a cost-effective alternative to conventional measurement methods.

Optimal results are pre-programmed
To meet its own standards, ThyssenKrupp relies on FARO for its data acquisition, one of the globally leading manufacturers in the field of computer-supported measuring systems. For the subsequent visualization ThyssenKrupp will, depending on requirements, apply various software solutions for individualized presentation concepts.

Scene WebShare
A specially configured web server will offer you access to 3D documentation via Internet Explorer. This platform allows you to effortlessly exchange and analyze project data in cooperation with customers or business partners. Operation is intuitive, requiring no special skills.

2D layout reconciliation
Overlaying an existing 2D layout with the results of a scan will highlight differences and facilitate changes in minimum time.

Cross-section view / 2D visualization
Even beyond classic manufacturing layout, there are virtually no limits to visualizations. Different concepts may easily be visualized and evaluated.

Planned – As-is comparison
Overlaying the recorded points cloud with existing 3D CAD models will highlight interference contours and deviations between reality and scheduled status.

Documentation of As-is status / modeling
The accurate points cloud documents the current As-is status and forms the basis for downstream 3D modeling.

Stock take / animation
Fast capturing of manufacturing plant, but also of protected historical buildings with the option of virtual walk-through / fly-through animations.
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FARO Scene LT
This free viewer offers you extensive options for viewing existing scans and working environments. You may also personally import VRML CAD models.

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An innovation to reduce your costs

ThyssenKrupp System Engineering

3D Laserscan

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