

## 3D-LaserScanning

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### WHAT'S OUR SERVICE?

Complementing our business segment of major project management, we have extended our range of services by using 3D-LaserScanning technology in the field of digital as-built surveys of buildings and objects for visualization purposes in 2D and 3D models.

### WHAT'S 3D-LASERSCANNING?

3D-LaserScanning allows you to digitally capture at highest precision objects, buildings or sites, regardless of type, shape and size.

As a result you will obtain a permanently available and highly valuable data record of 3-dimensional measurement data, technical documentation as well as a gallery of extremely detailed high-resolution panoramic images suitable for various application options.



## WHAT'S THE RANGE OF APPLICATIONS?

Depending on your requirements this data record, the so-called "point cloud", enables the generation of a digital measurement including layouts, facade plans and building sections, but also construction and revision documents.

In the field of digital factory design and systems engineering 3D-LaserScanners are considered to be a high-performance process for the industrial measurement.

Their use also allows to create a visualisable collision and edge-interference model applicable in the area of system planning, building services and process engineering.

Even at difficult-to-reach places the measurement of refineries, pipelines, containers and warehouses can easily be carried out as 3D-LaserScanning offers a non-contact solution. Thereby the scanning process usually can be done during running production and without scaffolding erection.

Further important areas of application to be mentioned are archaeology and monument preservation. 3D-LaserScans can record and archive entirely and fault-free the current state of historical buildings.

The generated true-to-deformation survey serves as a basis for construction permit application and a smooth implementation planning.

In case of natural structural changes, environmental impacts or destruction, the collected data allows a complete reconstruction. Examples of this nature are maintenance work on the Cologne Cathedral and the fire of Notre Dame Cathedral.

## WHAT'S YOUR BENEFIT?

- Comprehensive and accurate documentation of the as-is state. According to your needs in 2D as a CAD plan with building sections or in 3D as solid model, edge-interference model, BIM model or full visualization (VR)
- Quick measurement at reduced personnel requirement
- Efficient 3D evaluation and convenient follow-up activities in your own office
- Measurement of difficult-to-reach up to non-accessible areas
- Cost saving as separated measurements of every maintenance group are not necessary any more
- Minimisation of rework because of a transparent and accurate planning process
- Reduction of costs due to prebuilt data models
- Savings potential as a result of continued use of data in follow-up projects



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