# SERVICE 3D-SCAN



- VIRTUAL TOUR OF YOUR PLANT3D POINT CLOUD
- EXECUTION IN A SHORT TIME
- OVER 1 MIO. POINTS PER SHOT
- COST SAVING PLANNING



# Excellent plant data gathering with Steinmüller Engineering Laser scan service.

For investigations of layout and to enable future 3D-planning it is recommended to carry out a 3D-Laser-scan. Especially for modernization, where the selected concept is planned to be investigated in more detail, a 3D-scan of your plant house gives support. The 3D-scan can also be used for all other future activities such as planning of erection works, maintenance or the development of detailed layout and arrangement of required components.

The 3D-scan includes the outer surfaces of the components in the near distance of your plant itself. The result will be pictures and a point cloud:

#### **APPLICATION**

#### Fields of Application

- Preparation for modification phases
- As built documentation
- Better planning of future Maintenance
- Reverse Engineering

#### **BENEFITS**

- Accurate as-built data collection with HDR images
- Reduced time and resources in the field
- Improved productivity
- Sound basis for subsequent engineering

#### **TECHNICAL DATA**

#### Hardware

- Leica RTC360
- Resolution 3, 6 or 12mm (at a distance of 10m)
- Scan distance 0.5m to 130m
- Scan range 360°x 300°
- 36MP HDR photo
- Tablet for site activities

#### Software

- Leica Cyclone Register 360
- Output as a ReCap format
- Virtual tour with Leica TrueView (available for our customers as freeware)
- Post-processing of the point cloud in Autodesk Inventor

## **SERVICES**

- Scanning of required area/ plant
- Registration and processing of point clouds
- Delivery of point cloud in required format
- Delivery of true views and HDR images

### **VALUE ADDED SERVICES**

- 3D CAD Modelling using the point cloud data
- Handover of point cloud data c/w 3D-model
- Linking of component details via system identification numbers



# REFERENCE LIST EXCERPT

PROJECT	NO. OF SCAN POSITIONS	NO. OF SCAN LEVELS/ FLOORS	OBJECT
LEAG Lippendorf Block R	250	4	Flue gas desulfurisation plant (2 absorbers)
GKS Schweinfurt	111	4	Boiler house
LEAG Lippendorf Block S	211	4	Flue gas desulfurisation plant (2 absorbers)
Sappi Stockstadt Mill K8 + K9	213	12	Boiler houses K8 and K9
Slovnaft Refinery boiler 1	105	6	Boiler house
Slovnaft Refinery boiler 2	105	6	Boiler house
Slovnaft Refinery boiler 3	112	7	Boiler house



Point Cloud with HDR-Images in a virtual tour



**Point Cloud View** 

# TURN OUR EXPERIENCE INTO YOUR ADVANTAGE!

# CONTACT

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