

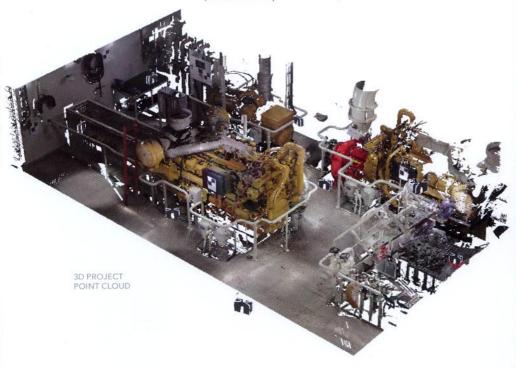
PRECISION MEASUREMENT



APPLICATIONS

As-built documentation

- Retrofitting
- Reverse engineering
- Shape analysis
- Site modeling and layout
- Quality control
- Quantity surveys (volume and piles studies)



DAMEN SCAN TEAM

Based in the Netherlands and with offices in amongst others the United Arab Emirates and China, we operate worldwide with vast experience. We employ highly-skilled CAD engineers which allows us to process all our data in-house.

The majority of our point cloud processing is completed utilising Autodesk Autocad, Revit, Inventor, Cadmatic Rhino & Blender.



We use the latest 3D scanning technology; the FocusS 70 laser scanner, for short-range, precise measurement. It is ideal for engineering, construction and other precision applications, delivering realistic and true-to-detail scan results with a range of up to 70 metres.

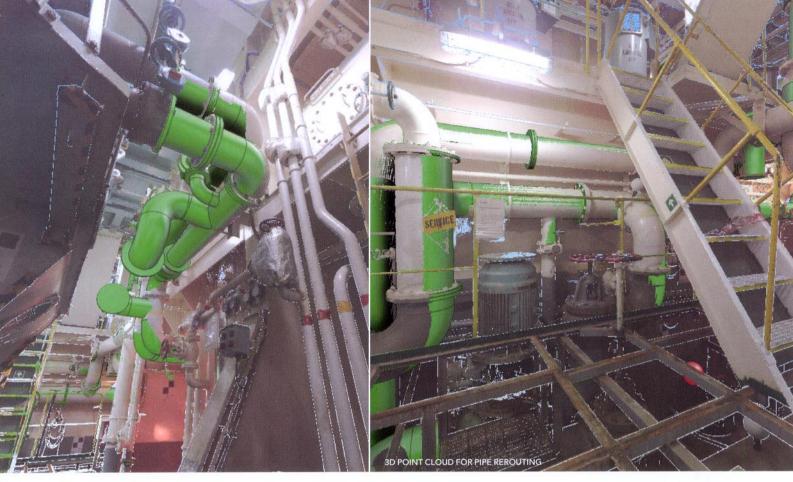
- Distance accuracy up to ±1mm
- Range from 0.6m up to 70m
- Measurement speed up 976,000 points per second
- IP Class 54
- HD photo overlay up to 165 megapixel color

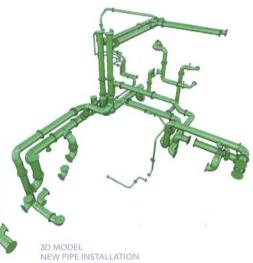
The security and confidentiality of our clients' data is paramount within our working practices.











Damen offers a wide a range of point cloud-related products such as 2D documentation, 3D models and Building Information Models (BIM).

3D SCAN SERVICES

HIGHLY PRECISE ENGINEERING

Our products and services are suitable for industrial sites, offshore installations, vessels, architecture, heritage and large-scale urban regeneration projects.

OVERLAY MODEL IMPLEMENTATION NEW SYSTEM

SCENARIO 1

ORIGINAL

3D SCAN

PROJECT POINT CLOUD

The as-built overlay model from the point cloud can be used for the refitting of new pipes and installations.

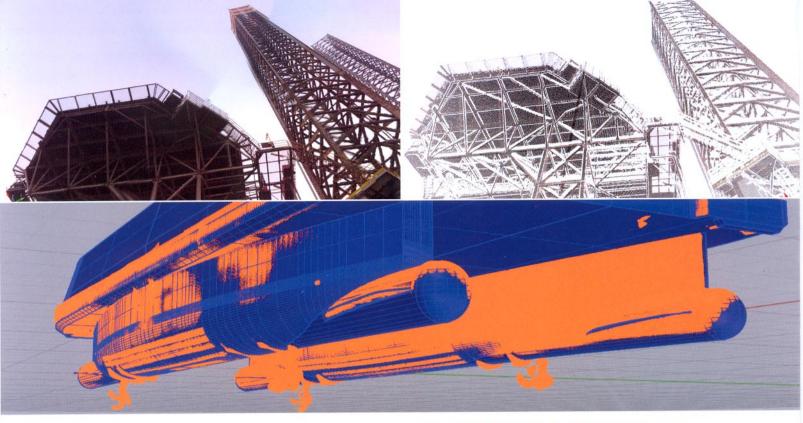
SCENARIO 2

REVERSE ENGINEERING

PROTOTYPE

REPRODUCTION

Highly accurate surface reconstructions can be generated from the project point cloud.



PRODUCTS

- Registered point cloud
- 3D CAD modelling
- 3D mesh modelling
- BIM modelling
- Plant design modelling
- 2D/3D as-built documentation
- 3D virtual reality
- Quality control
- Clash detection
- Volume survey
- 3D topographical surveys

BENEFITS OF 3D LASER SCANNING

- Quickly capture all of the physical measurements of any physical object (e.g. ships, offshore installations (oil rigs))
- Save time in design work
- Ensure parts will fit together on the first try
- Capture engineering optimizations inherent in manufactured parts
- Utilize modern manufacturing methods for parts that were originally made before CAD
- Compare 'as-designed' models to the 'as-built' condition of manufactured parts

3D LASER SCANNING APPLICATIONS

DAMEN

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