



PROJECT

PROJECT DATE:

May 2008

DESCRIPTION:

Pharmaceutical plant
5-tank sterile room
Shampoo production
Location: France

RESOURCES:

2 engineers
1 Trimble FX scanner

CONDITIONS:

1 day on site
Plant in service
15 days of processing
Polished stainless steel tanks

RESULT:

Autocad 3D modelling
Cloud of points (650 million)
25 scanner positions
Overall accuracy to 10 mm

LASER SCANNING and 3D MODELLING OF A CHEMICAL PLANT

In the chemical or pharmaceutical industry, the rate of development of products entails the constant updating of installations and equipment. To this end, it is essential that accurate and up-to-date plans of any modification should be available at the earliest opportunity.

In Blois, Procter & Gamble manage all their installations using 3D data files which are updated on a continuous basis. To facilitate these operations, Urbica has completed a comprehensive 3D survey of a sterile room to produce a 3D model in Autocad.

The degree of fine detail (DN10, collars, nuts, sensors, etc.) dictates the use of an accurate and high-speed laser scanner. The 3D model allows the presence and position of any chemical

product line to be detected at any time, together with the interconnection points of pipelines.

In one day, Urbica was able to digitize the entire room (90m²), notwithstanding the dimensions of the premises and the disruption of production.

The "condition zero" represented by this model will allow any modification to be identified in future. Specifically, in May 2008, the 3D Autocad files were used to assist the installation of a new stainless steel tank in an already fully-equipped room.

For more information, please contact the Urbica team.

