



PROJECT

PROJECT DATE:
October 2009

DESCRIPTION:
agri-foodstuffs plant
size: 2500 m² on 2 levels
location: United Kingdom
overloaded installation

RESOURCES:
2 surveyors
2 Trimble FX scanners

CONDITIONS:
120 hours of scanning
plant in service
substantial vibrations

END PRODUCTS:
point cloud (6 billion points)
185 scanner stations
overall accuracy: 15 mm
2 Pointools Model licences

HIGH-SPEED 3D SCANNING FOR IMMEDIATE REVAMPING!

The revamping of agri-foodstuffs workshops is a costly project, in terms of preparation and analyses. However, if the project is to be conducted in an existing installation, with no interruption in production, this can be a real headache, particularly if up-to-date plans are lacking.

3D scanning is ideally suited to the model case facing one of the world's largest industrial operators in the agri-foodstuffs sector.

Following the acquisition of an existing plant in the UK, the uprating of this plant to standard and the increase in production on the site involved a complete rethink of the production process. To this end, the acquisition of a 3D model of the entire workshop

appeared to be indispensable. In 5 days, 2 Urbica engineers completed the exhaustive surveying and 3D capture of the following:

- piping and electricity systems,
- production equipment,
- civil engineering structures.

Barely 10 days after scanning, the design office was able to simulate the installation of new equipment in the 3D model of the plant. The tapping of pipes, debottlenecking of racks, detection of collisions between the actual situation and plans, etc. have been designed with a high degree of precision on the 3D point cloud. For the operation of files in Autocad, Urbica has also supplied 2 Pointools Model licences.

For more information, consult the Urbica team.

