Fugro offers a comprehensive dimensional control service specialising in precision 3D surveys.

**DIMENSIONAL CONTROL**
The basis of modern dimensional control is the combination of measurements with 3-dimensional mathematical modelling, so as to analyse the item surveyed and compare it with another object, or with its design.

Dimensional control methodology originated in the offshore industry, and is now used by our surveyors in the engineering, manufacturing, marine, aeronautical and automotive industries.

**SPECIALISED SERVICE**
The combination of our experience and the vast resources available to us in measuring equipment and methodologies enables us to provide the best and most cost effective solution for your measuring needs.

Our experience in dimensional control surveys is derived from providing services to a wide diversity of industries:

- Petroleum (onshore and offshore)
- Engineering
- Ship building
- Aeronautical
- Mining
- Manufacturing

This gives us the ability to adapt efficient measuring techniques from one industry sector or client to the other.
The objective of any dimensional control survey is to facilitate correct design, fabrication, installation and fit up; before, during and after design, construction and/or fabrication of relevant components.

Some of the benefits in using dimensional control methodologies are:

- Accurate, quick and efficient collection of 3-dimensional data
- Highly mobile measuring systems enable surveys in congested places and on objects in situ rather than having to remove object to measure
- Cost savings and improved safety by facilitating accurate design to eliminate hot work on site
- Reduced wear and tear on equipment and resultant early replacement on associated production line facilities or equipment such as conveyors, rollers, bearings, earth moving equipment and process machinery, thanks to accurate 3-dimensional alignments and symmetry surveys with analysis
- Mathematical fit-ups of two or more components by survey

Dimensional fabrication checks and 3-dimensional as-building on any object, from less than 1 metre to over 200 metres in size, with accuracies typically about 1 mm

High precision industrial metrology measuring system used for measuring objects to an accuracy of 2 thou (0.05 mm)

Monitoring surveys of objects, structures or buildings for possible settlement or deformation

3-dimensional alignment and symmetry surveys with three dimensional data analysis

Piping route and tie-in surveys for design and fabrication