

Case: New 36" piping in existing pipe system, Dow Terneuzen (2008)

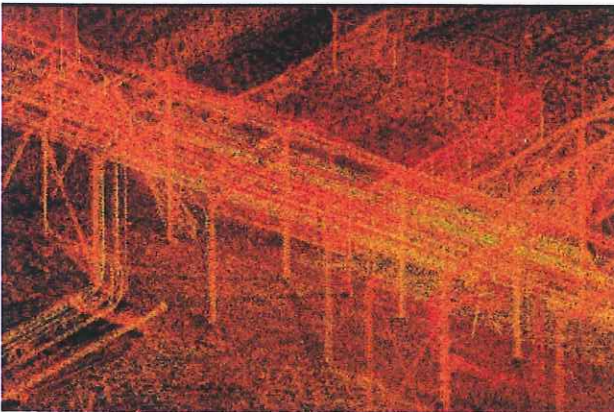
3D laser scanning

3D laser scanning is an accurate and fast method for the measuring of existing environments where new building activities are to take place. Thanks to this technology, measurements can be taken over long distances without the need to actually touch the points to be measured.

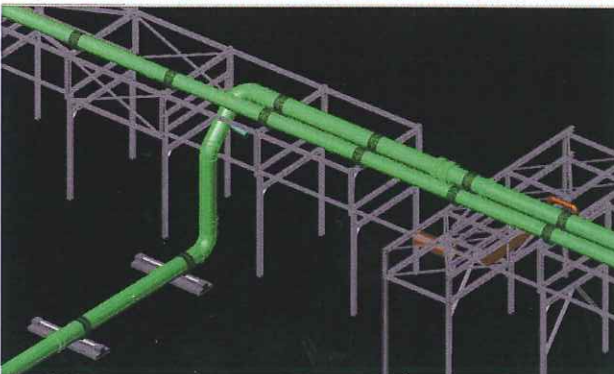


No scaffolding needed

By making use of 3D laser scanning, the existing pipe system, including pipe bridges, sleepers and connection points, were accurately measured. Thanks to the possibility to take measurements over a long distance, without having to physically touch the measured points, scaffolding was not needed. The results of these measurements formed the basis of the engineering project for the newly to be laid 36" pipeline.



Thanks to the accuracy of the measurements, a minimum number of field weldings were needed for this pipeline. Because all possible problems that could occur with the new pipework or the supporting constructions were already solved during the design process, the very long 36" pipeline could be installed on site within a very short time.



In 2003, Engiplast started 3D laser scanning and processing the scanning results into 3D models and measuring reports. Engiplast has gained a wide experience with this measuring technique, especially in the process industry.

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