

## PROCESS SOLUTION

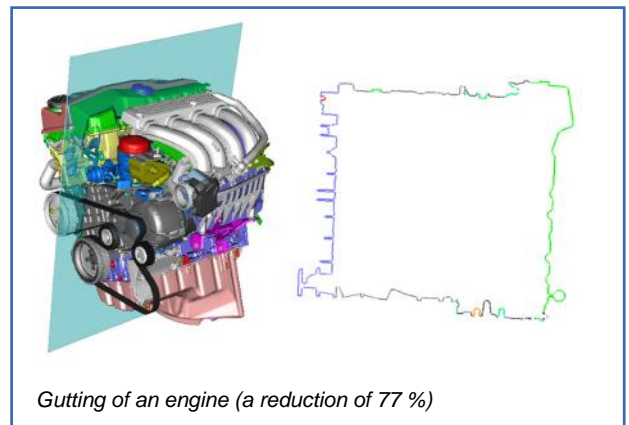
### Pro.DataReducer – Data Reduction

#### Client Requirements

The ever increasing complexity of products results in a continual increase in the amount of geometric 3D data. Despite a significant increase in hardware performance, the limitations of the visualization and engineering systems are constantly being reached. It therefore continues to be essential to reduce 3D mass data and to pre-process this data for data exchange or for subsequent processing. Furthermore, the geometrical details are often not required or desired for the subsequent processing or data circulation. For example, manufacturers of engine test benches do not require detailed information; but they do require the engine dimensions as early on as possible in order to ensure that the testing and inspection facilities to be produced can be manufactured parallel to engine development and with the appropriate lead times.

#### Teraport Solution

With the Pro.DataReducer process solution, 3D mass data or individual models can be reduced quickly and automated using a variety of approaches: Either the inner geometries are excluded by gutting, or the polygons of the model surfaces are processed. The accuracy or the acceptable amount of fuzziness of each data reduction option can be altered easily and without difficulty with the Teraport user interface DMU.Connect. Both the reduced model and all the detailed information on the calculation are subsequently stored.



#### Benefit for the Client

An engine comprising approximately 7 million triangles can, for example, be reduced to 1.5 million triangles without a loss of quality becoming apparent on the model surface. Additional potential of up to a total of 90% can be achieved in the case of models acting purely as placeholders. It is of particular advantage that the calculation can run in the background and that other applications such as, for example, CAD Systems, are hence in no way affected.

In addition to pure data reduction, the issue of non-disclosure of company know-how is becoming more and more important. Pro.DataReducer is also particularly suited for this purpose. Gutting ensures that no details are circulated.

#### **Further process solutions on the subject of data processing**

Independent of Pro.DataReducer, Teraport Engineering also offers the process solution **Pro.DataPatcher** (data preparation) as a further standard solution. This solution is for the connection and clipping of geometry models.

#### Contact Information

Further details can be found in our comprehensive information material and on our website (<http://www.teraport-engineering.com>). You can also contact us direct at the following address.

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