

GLM Lasermeßtechnik GmbH – 3-DIM PC-Basic

SOFTWARE FOR 3D MEASUREMENTS

3-DIM PC-Basic is an excellent program for industrial surveying and measuring tasks. For shipbuilders, railway workers, bridge builders and many more, 3-DIM is an indispensable tool.

3-DIM PC-Basic works point-based. The interface offers various layouts, among others:

- Graphics, error vectors (nominal/actual comparison)
- Point list including all metadata (e.g., target and actual data and tolerances)
- Dimensionstable, containing all calculated dimensions

The software is mainly used by shipyards in shipbuilding, in workshops for rail vehicles, and in steel construction companies (e.g., for the construction of bridge elements). It has now established itself as a standard tool. It's use goes beyond mere surveying. It plays a key role in quality assurance, as it precisely documents the course of the measurement including its results.

Other remarkable features are:

- Interface with Excel
- Dynamic evaluation for series measurement
- Macros for automatic serial measurement
- Tolerance optimization

Since the first version at the beginning of the 1990s, we have been continuously optimizing the software, contributing both our experience and suggestions from our customers – for the best possible practical suitability.

FLEXIBLE

3-DIM supports various working methods

- Measuring individual objects without test planning (free measuring)
- Measuring nominal data with immediate visualization of the nominal-actual deviation
- Values exceeding the tolerance setting are especially emphasized
- CAD data can be imported from 3-DIM PT*
- Measurements based on templates speed up repetitive measuring processes (series production). Software macros allow the automatic determination of the reference coordinates and calculating dimensions
- 3-DIM supports direct control of the instrument or data exchange with 3-Dim Observer
- Coordinate systems can be defined and changed in many ways at any time

PERFECT VISUALIZATION

- Graphical and numerical data display
- Error vectors depict size and direction of the deviation
- Additional data processing
- The built-in database allows the exchange of data in the network
- Export to ASCII, Excel, 3-DIM PT *
- Import almost any other data formats from ASCII files

*3-DIM PT is a plug-in für McNeel's Rhinoceros© NURBS modeling Software