



QUINDOS® RESHAPER

Measure - analyze offline!



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QUINDOS as a universal measurement concept

Optical and tactile – within a single software package

QUINDOS Reshaper is a powerful and flexible software package that uses proven technology for the inspection and evaluation of digital scans. The package supports a wide variety of sensors for collecting digital representations of actual parts. Mobile devices with laser scanners such as the ROMER Absolute Arm SI or SE, devices using White Light Scanner (WLS) technology or Computed Tomography (CT) Scanners – QUINDOS Reshaper provides the ability to inspect and evaluate the scanned parts on a single workstation.

Multiple technologies – one measurement program – one strategy

The 3DReshaper software from Hexagon Metrology converts the point cloud into a mesh, which can then be measured and analysed using the QUINDOS modular software package.

QUINDOS communicates with 3DReshaper via the standardized I++DME interface to access and manipulate the scanned data in the form of meshes and point clouds. For basic measurement methods the data exchange between

QUINDOS and 3DReshaper is similar to the data exchange between Quindos and a coordinate measuring machine (CMM), making comparisons of different sensor technologies very easy.

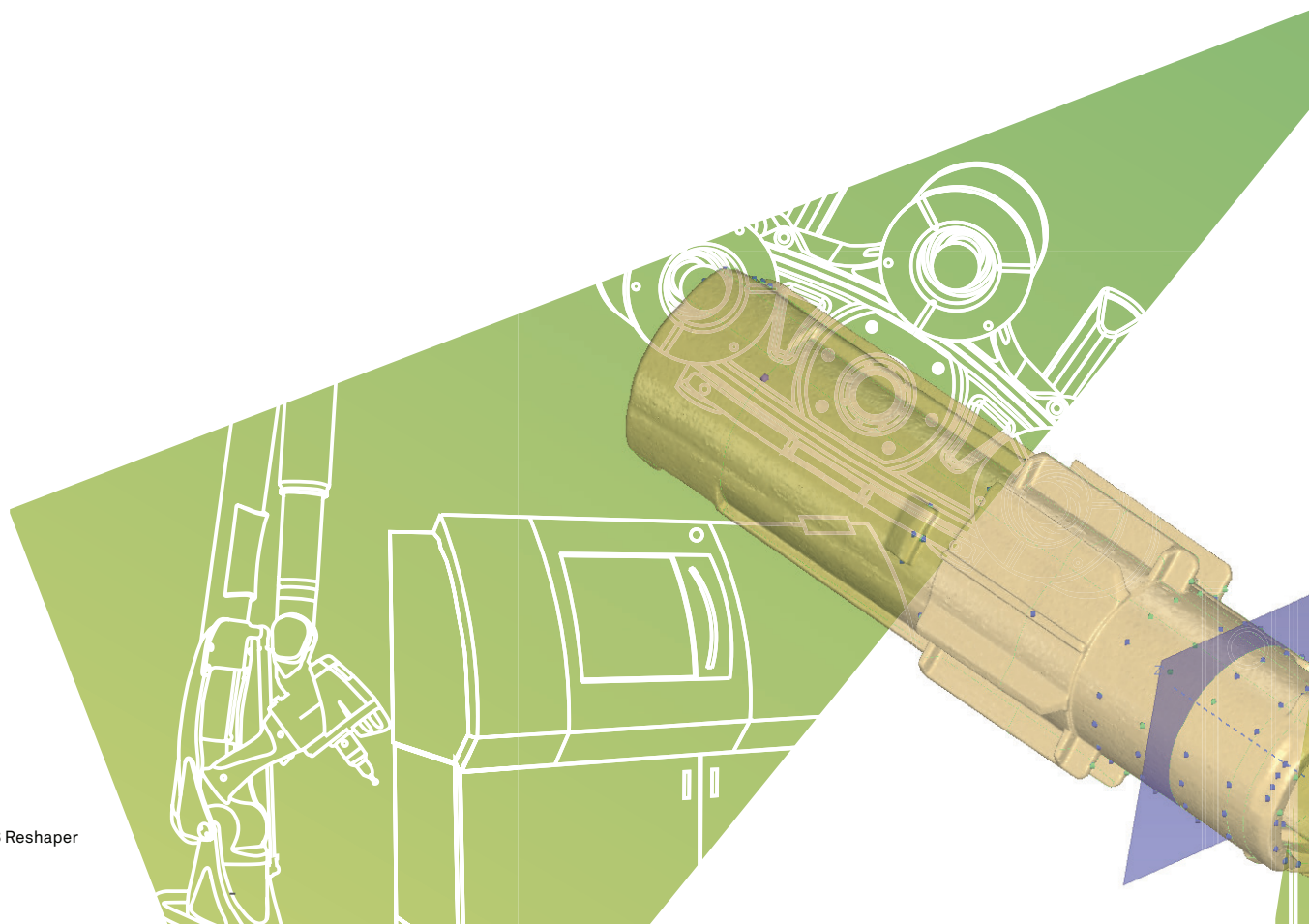
Very few modifications are necessary in order to reuse existing part programs to measure virtual parts without restrictions on the measuring strategy.

From single points to complete point clouds

The mouse is used to perform manual single point probings on-screen. Reshaper delivers the actual points. The coordinates are sent to the measurement program further processing.

The same functionality is used in CNC mode. Generated point patterns, in either single-point or scanning mode are measured on the scanned data.

QUINDOS Reshaper can be further enhanced by the tried and tested QUINDOS options, enabling analysis of standard geometries, freeform surfaces and special geometries.



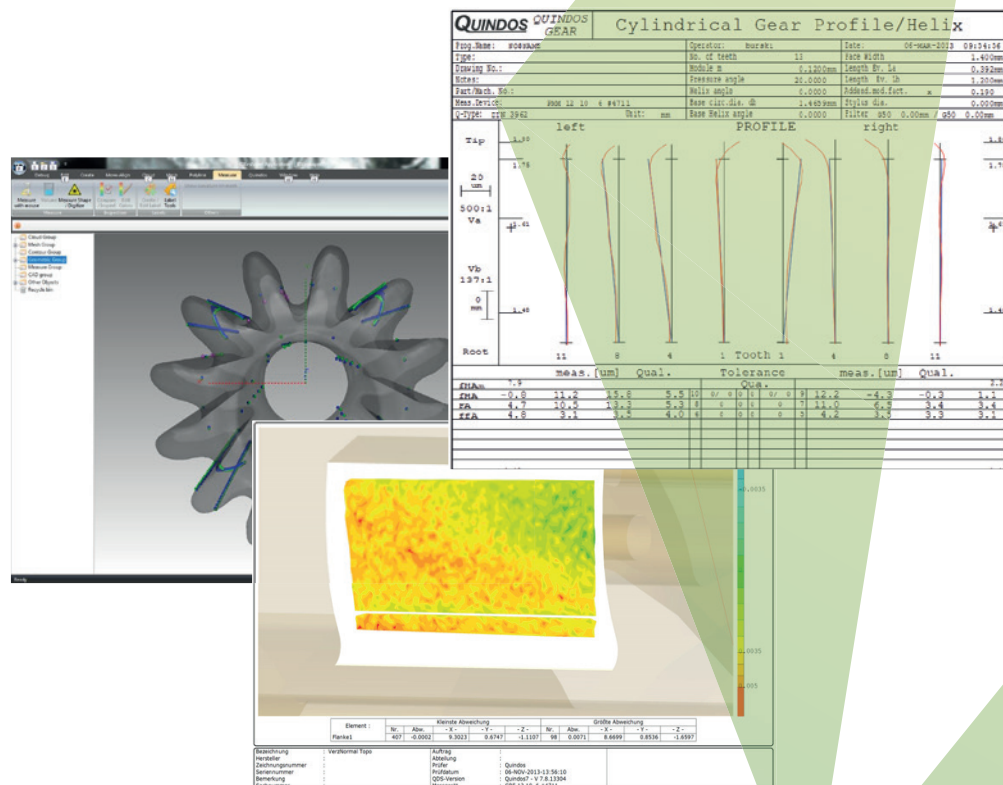
MESH AND POINT CLOUDS

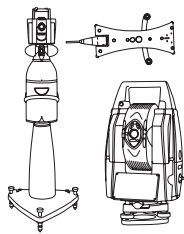
Perform analysis any time, anywhere with professional measuring strategies and traceable results

QUINDOS Reshaper: an expandable software package that grows with your component range – right up to powertrain expert level

Machine-independent quality control

- 3D Reshaper control and parameter definition via QUINDOS
- Import of point clouds from the measurement device in real time with no loss of data
- Pre-defined parameter sets for mesh generation aimed at the measuring uncertainty of the system in use
- Functionalities of professional measurement and analysis software based on over 25 years of experience in the powertrain sector from set-up through to traceability of measurement results
- Modular design allowing expansion with over 50 options ranging from gear measurement to turbine blade analysis
- Create measuring reports and 2D/3D plots in accordance with the requirements of the measuring task
- Automatic processing of CNC-compatible measurement programs with error handling
- Reverse engineering option available

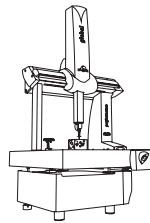




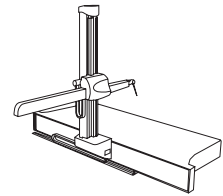
LASER TRACKERS
& STATIONS



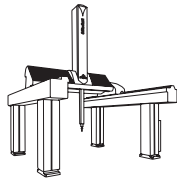
PORTABLE MEASURING ARMS



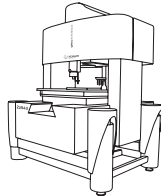
BRIDGE CMMS



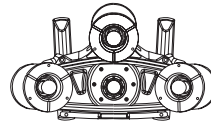
HORIZONTAL ARM CMMS



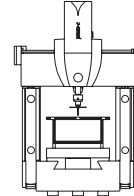
GANTRY CMMS



MULTISENSOR & OPTICAL SYSTEMS



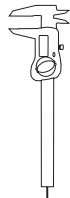
WHITE LIGHT SCANNERS



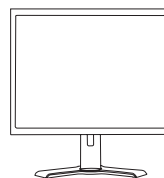
ULTRA HIGH ACCURACY CMMS



SENSORS



PRECISION MEASURING
INSTRUMENTS



SOFTWARE SOLUTIONS



HEXAGON
METROLOGY

Hexagon Metrology offers a comprehensive range of products and services for all industrial metrology applications in sectors such as automotive, aerospace, energy and medical. We support our customers with actionable measurement information along the complete life cycle of a product – from development and design to production, assembly and final inspection.

With more than 20 production facilities and 70 Precision Centers for service and demonstrations, and a network of over 100 distribution partners on five continents, we empower our customers to fully control their manufacturing processes, enhancing the quality of products and increasing efficiency in manufacturing plants around the world.

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