

3DRESHAPER®

The 3D scanner software

3DReshaper - Specifications

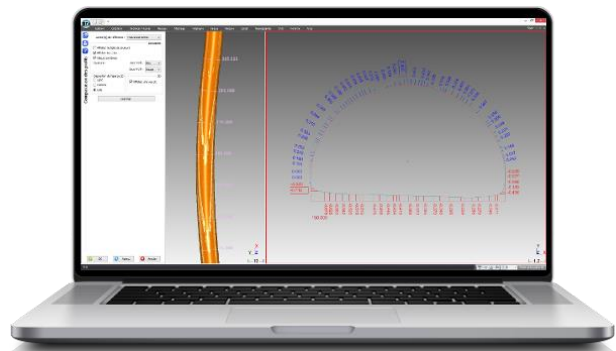
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the **Reshaper** Technology
part of **Hexagon**



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One Software, Infinite Application



3DReshaper® is an **easy-to-use** and **powerful** software dedicated to point cloud processing and 3D meshing.

3DReshaper® processes 3D point clouds **wherever they come from**: 3D scanners, laser scanning, UAVs, CMM, etc.

3DReshaper® covers a **wide array of needs** in terms of point cloud processing, 3D meshing, surface reconstruction, realistic rendering and reverse engineering.

3DReshaper® is also a 3D **surface comparison and inspection software** for all the users who want to easily control their models without investing in complex or expensive software.

3DReshaper® is used in **various applications**, such as architecture, cultural heritage, geology, mine, quarry, land surveying, tunnelling, civil engineering, shipbuilding and much more!

LICENSE DETAILS – 3DReshaper® Software

More information about all these features on www.3dreshaper.com

□ Point Cloud Processing

- Noise Detection
- Reduction
- Regular Sampling
- Density Homogenization
- Segmentation

□ Registration / Alignment

- Best Fit
- Best Align N Points
- Automatic Target Extraction
- RPS Alignment
- Local Coordinate System

□ 3D Meshing

- Real 3D Mesh
- 2D Mesh
- Deviation Error Refine
- Smoothing
- Decimation
- Holes Filling
- Sharp Edges Reconstruction
- Extrusion
- Meshing under constraint
- Spikes Detection
- Undercuts

□ Control / Inspection

- Angle / Distance / Surface
- Cubature / Volume
- Geometrical Shapes Extraction
- 3D Inspection
- 2D Inspection
- Reporting

□ Polylines / Section

- Sections (planar, radial, etc.)
- Smoothing
- Decimation
- Stretching
- Chaining
- Neutral Axis Extraction
- Feature line extraction

□ Scripting

□ Animation - Video

□ Image/Texture Management (optional)

- Automatic Mapping
- Manual Mapping
- Adjustment
- Repetitive Textures (material)
- Camera Calibration
- Ortho-Images Export
- Ortho-Images Texturing
- Atlas

□ CAD Surface Modeller (optional)

- BSplines and Nurbs Creation
- Local or Overall Surface improvement
- IGES/STEP Export

□ Surveying Module (optional)

- Tunnel Analysis
 - Cross sections creation
 - Cross sections comparison
 - Overbreak and Underbreak volumes
 - 2D Inspection Map
 - Complete report
 - Unwrapping
- Ground Extraction (DTM)
- Building Extraction
- Automatic Breaking Lines
- Contour Lines
- Surface analysis (levelness, flatness, slope)

3DReshaper - Specification

Protection system

Each license is protected by a physical dongle and an associated authorization code. The license can be transferable into another computer; but in case of loose or destruction of the dongle, the license is lost and a new one must be purchased.

An alternative protection solution consists in a renewable temporary codes linked with a specific computer for a standalone or node locked license (please see below the sales conditions).

Recommended Specifications (for large 3D data processing)

Processor: 2 GHz Dual Quad Core i7 or higher (i5 minimum)

RAM: minimum 4 GB for 32 bit OS and 8 GB or more for 64 bit OS

Graphic Card: NVidia – Quadro or GeForce 1GHz for instance (with OpenGL support)

Operating system: Microsoft Windows 7 – 8 – 8.1 – 10 64 bits (32bits supported)

Hard Disk: 1Gb free disk space

Main file import/export formats supported by 3DReshaper

Point cloud: ASCII, Leica Geosystems files including the Nova MS50, LAS, ESRI, ZFS, FLS, PTS, LandXML, E57, PLY...

Mesh: MSH, DXF, OBJ, STL, VRML, DWG, PLY...

Sections / contours: IGES, DXF, ASCII, DWG...

CAD model: IGES, STEP

Free 3DReshaper Viewer

Easily **deliver and communicate your data** thanks to the 3DReshaper free Viewer - valid 6 months and renewable – [Click here to download the 3DReshaper viewer](#)