

3DReshaper – Specifications 2018

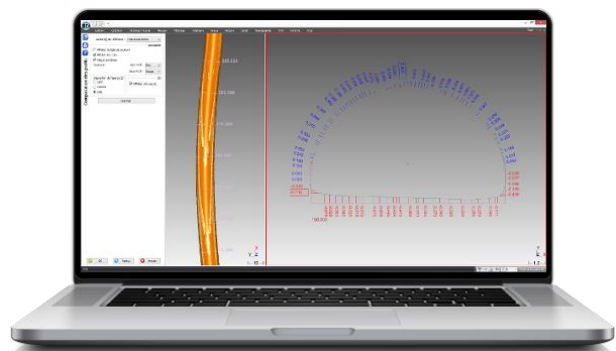
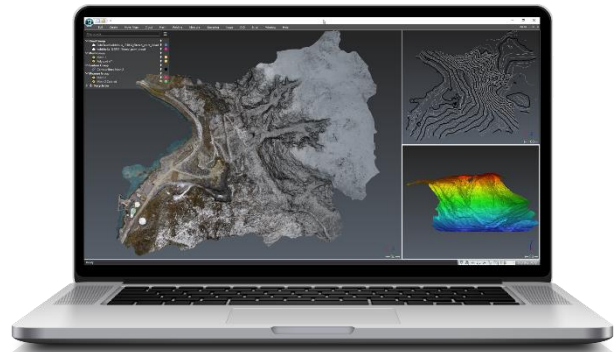
Technodigit
the **Reshaper** Technology
part of **Hexagon**



Technodigit
14 Porte de Lyon
01700 Neyron - France

Web: www.3dreshaper.com
Email: sales@3dreshaper.com
support@3dreshaper.com
Standard: (+33) (0)4 78 69 62 40
Fax: (+33) (0)4 78 69 46 30

One Software, Infinite Application



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

3DReshaper® processes 3D point clouds **wherever they come from**: 3D scanners, laser scanning, photogrammetry, 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 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
- Manual and Automatic filtering (distance, inspection and real color, according to a shape...)
- Regular Sampling and Density Homogenization
- Segmentation

□ Registration / Alignment

- Best Fit
- Best Align N Points
- Targets Extraction
- Translation, Rotation, Free Move...
- Local Coordinates System

□ 3D Meshing

- Real 3D Meshing
- Spherical Meshing
- 2D Meshing
- Mesh Refining
- Improvement tools: Smoothing, Decimation, Holes Filling, Sharp Edges and Borders Reconstruction, Junction...
- Mesh Extrusion
- Meshing under constraint (with polylines)
- Spikes Detection
- Undercuts, Boolean operations
- Write on mesh...

□ Control / Inspection

- Angle / Distance / Surface
- Cubature / Volume
- Geometrical Shapes Extraction
- 3D Inspection
- 2D Inspection
- Customizable Reporting (2D + 3D PDF)

□ Polylines / Section

- Sections (planar, radial, etc.)
- Edition (smoothing, stretching...)
- Median Line
- Decimation
- Chaining
- Neutral Axis Extraction

- Feature line extraction

□ Scripting

□ AutoCAD (2016 and more) **add-in**

□ Animation – Video

□ Image/Texture Management (optional)

- Automatic & Manual Mapping
- Texture from Colors
- Adjustment
- Repetitive Textures (material)
- Camera Calibration
- Ortho-Images Export
- Ortho-Images Texturing
- Atlas of images

□ CAD Surface Modeller (optional)

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

□ Surveying Module (optional)

- Cross-sections (tunnel, DTM...)
 - Cross sections creation
 - Cross sections comparison
 - Overbreak and Underbreak volumes
 - 2D Inspection Map
 - Complete report
 - Unroll
- Tunnel Extractor (filter and mesh)
- Ground Extraction (DTM)
- Building Extraction
- Automatic Breaking Lines
- Contour Lines
- Surface analysis (levelness, flatness, slope)
- Stockpile Volume

□ Tank Monitoring Module (optional)

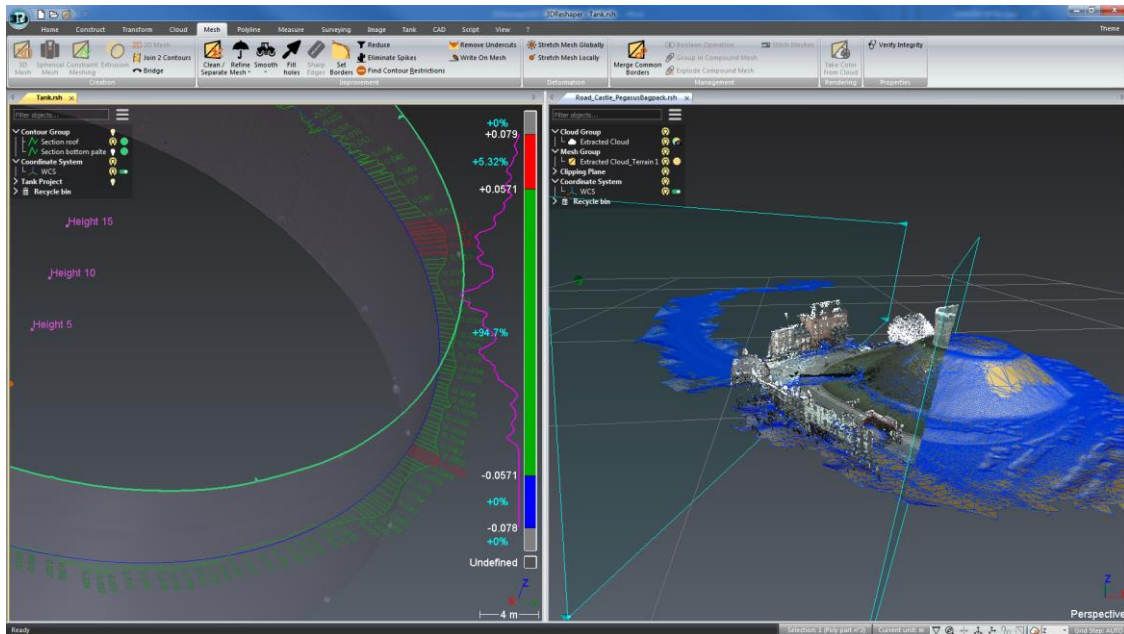
- 3D Inspection
- Roundness and verticality
- Settlements
- Export and Reporting

□ CloudWorx Plugin (optional)

3DReshaper - Specifications

User-Interface

Orthographic and perspective view / Multiview / Tree Explorer / AutoSaves / Clipping Box and Plane / Grid / Shortcuts / User Coordinates Systems/ Help Center / Several languages available...



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.

Recommended Specifications

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

RAM: minimum 12-16 GB RAM

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

Operating system: Microsoft Windows 7 – 8 – 8.1 – 10 (64-bit mode only)

Hard Disk: 1Gb free disk space

Main file import/export formats supported by 3DReshaper

Point cloud: ASCII, Leica Geosystems files including the Leica Nova MS50/60, JetStream and MSView through the CloudWorx plugin, LAS, LAZ, 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

Report: 3D PDF, [SketchFab](#) (3D models sharing platform)

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](#)