



## Turbomachinery Geometry

SCDS developed a fast, non-intrusive and inexpensive technology for turbomachinery digitization, accurate geometry creation and reverse engineering.

### Technological Features and Performances

- o Non-intrusive, complete and rapid tri-dimensional sensing; a hydro turbine, for instance, is fully digitized in maximum 2 days
- o Solid model creation in another 3 days
- o Modeled surface accuracy within 0.04"
- o Creation of high quality surfaces (NURBS-based)
- o Capturing the most inaccessible areas

### Effective Solutions for:

- o Providing the geometrical and meshing basis for numerical analysis
- o Refurbishment projects
- o Efficiency assessment
- o Performing dynamic stability studies
- o Repairing or reproduction of older turbines and blades
- o Optimizing the time for product and production development
- o Production launch and control
- o Periodic inspections
- o Quality Assurance
- o Reverse Engineering of turbines and turbine blades
- o Supporting new manufacturing processes

### Available Export Formats:

- o DXF/DWG, IGES, STEP, STL
- o ASCII (XYZ, TXT, PTS)

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