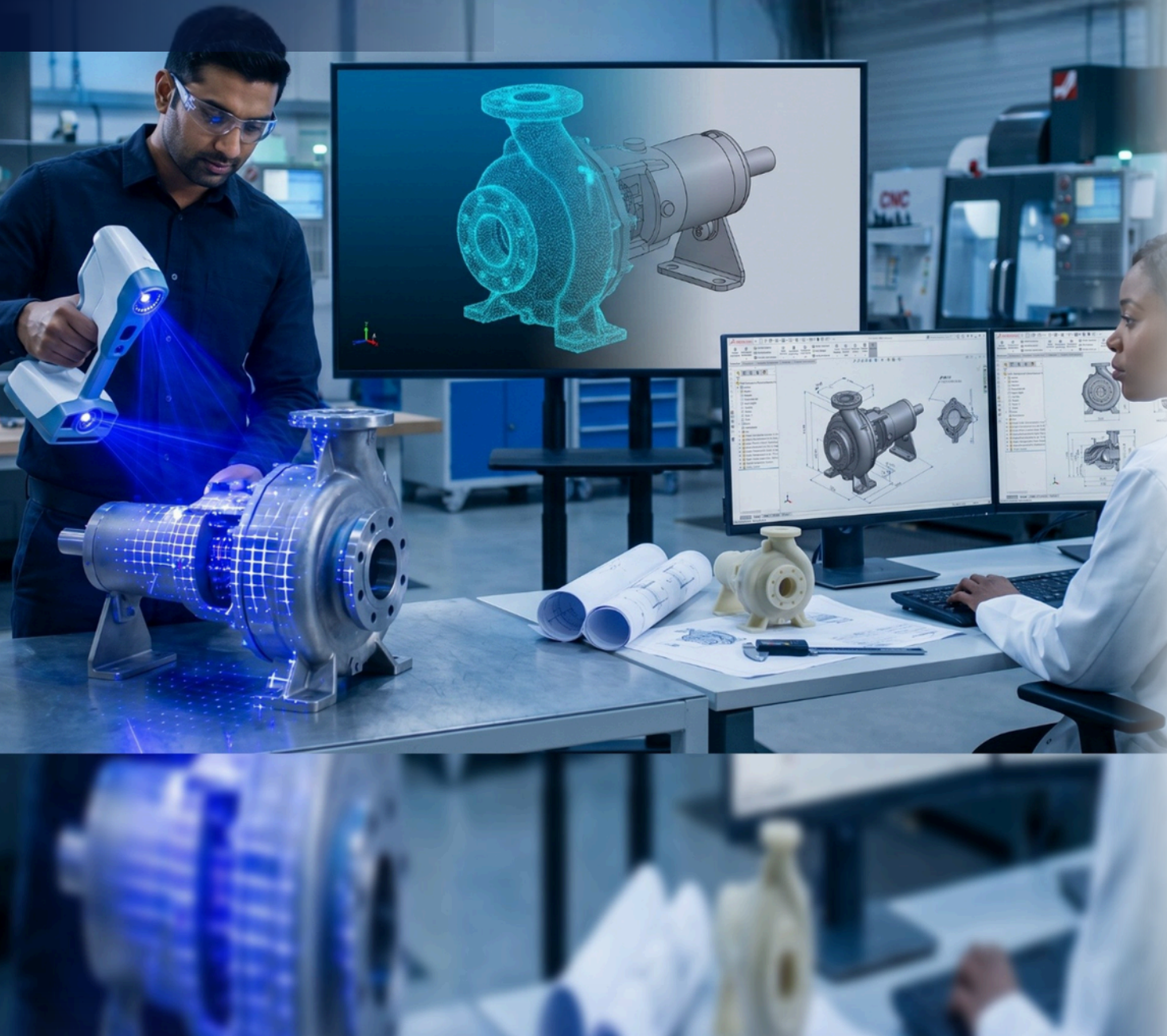


Empowering Your Business with
3D Scanning



POWERING CONNECTIONS



**Precision Digital Capture
& Reverse Engineering**

- ✓ **High-Precision 3D Data Capture:** Utilization of advanced 3D scanning technologies, including laser scanners (e.g., structured light, handheld), photogrammetry, and industrial CT scanning, to capture highly accurate and dense point cloud data or mesh models of physical objects, components, and environments.
- ✓ **Accurate Reverse Engineering for Legacy Parts:** Transformation of 3D scan data into fully parametric CAD models (e.g., SolidWorks, CATIA, AutoCAD) for legacy components where original drawings are unavailable, enabling reproduction, modification, or improvement of parts for various industries.
- ✓ **Quality Inspection and Deviation Analysis:** Non contact dimensional inspection by comparing 3D scan data against original CAD models or design specifications, generating detailed deviation maps, geometric dimensioning and tolerancing (GD&T) reports, and first article inspection (FAI) reports.
- ✓ **Digital Archiving of Physical Assets:** Creation of comprehensive digital twins and 3D archives of physical assets, historical artifacts, or complex machinery, ensuring preservation of critical geometric information for future reference, maintenance, or virtual simulation.

Technical Specifications

Features

- ✓ Scanning Technology
- ✓ Accuracy
- ✓ Resolution
- ✓ Measurement Volume
- ✓ Output Formats
- ✓ Software
- ✓ Applications
- ✓ Material Compatibility
- ✓ Data Processing
- ✓ Reporting

Specifications

- ✓ Structured Light Scanners, Handheld Laser Scanners, Industrial CT Scanners, Photogrammetry
- ✓ Up to $\pm 0.01\text{mm}$ (0.0004 inches)
- ✓ Up to 0.02mm (0.0008 inches)
- ✓ From small components (e.g., 50mm^3) to large assemblies (e.g., 5m^3)
- ✓ Point Cloud (PTS, XYZ), Mesh (STL, OBJ, PLY), CAD Models (STEP, IGES, Parasolid, SolidWorks, CATIA)
- ✓ Geomagic Design X, Geomagic Control X, PolyWorks Inspector, GOM Inspect, Faro Scene
- ✓ Reverse Engineering, Quality Control, Rapid Prototyping
- ✓ Digital Archiving, Tooling & Fixture Design, Wear & Tear Analysis
- ✓ Suitable for metals, plastics, composites, ceramics, wood, and complex geometries
- ✓ Noise Reduction, Mesh Optimization, Surface Reconstruction, Feature Extraction, GD&T Analysis
- ✓ Deviation Maps, FAI Reports, Trend Analysis, Statistical Process Control (SPC)

Why Choose Us?

- 01.** **Unrivaled Precision and Detail:** Our state-of-the-art 3D scanning technology captures intricate geometries with sub-millimeter accuracy, delivering highly detailed digital models essential for precise reverse engineering, quality inspection, and advanced design applications.
- 02.** **Revitalize and Innovate Legacy Assets:** We transform physical objects into intelligent CAD models, enabling you to reproduce obsolete parts, integrate them into modern systems, or innovate upon existing designs, extending the lifespan and functionality of your valuable assets.
- 03.** **Accelerated Quality Assurance:** Our non-contact inspection methods provide rapid, comprehensive, and objective quality control, generating detailed deviation analyses and GD&T reports that significantly reduce inspection time and improve product quality.

GET IN TOUCH WITH US

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