



PRECISE 3DM

3D SCANNING SERVICES



ABOUT US

Precise 3DM is a 3D Business solutions provider.

We equip companies with advanced disruptive technologies that help their day to day productivity. We also provide in-house & on-site 3D technical solutions that enable companies to avail highly specialized and challenging short and long term projects. Our solutions increase profit and decrease turnaround time, directly benefiting their business.

ONE-STOP 3D SCANNING SOLUTION

scan anything anywhere

Precise 3DM has a large variety of scanning technology for our clients to choose from.

Our technology portfolio allows our clients the freedom to scan anything they may want, from small objects to entire acres of factories.

The Precise 3DM Post Processing Team is a 100 member dedicated workforce that tackles all ranges of complex 3D challenges. 3D Scanned parts can further be analyzed, reverse engineered, virtually simulated, modified, 3D printed and more.

Our dedicated point of contact will keep in touch with you all the way to project completion, and will further assist you after the service if necessary.

ONE-STOP 3D SCANNING SOLUTION

1. OPTICAL BLUE LIGHT 3D SCANNING SERVICE

Super-High Accuracy, Small and Large size objects .

This technology involves projection of structured light in a fringe pattern to capture the contour of an object . A software then converts these images to generate 3 dimensional geometry

What we can 3D Scan ?

1. Machined components
2. Small Plastic Components
3. Screws and Fasteners
4. Miniature Components
5. Tyre Surfaces



2. HANDHELD METROLOGY 3D SCANNING SERVICE

Industrial Grade metrology 3D Scanning , Ultimate Portability.

These scanners are extremely compact and have a wide range of application. It projects laser light on to an object and sensors continuously record the changing distance and shape of laser light. This creating an accurate digital image.

What we can 3D scan ?

1. Large Vehicle Interiors
2. Extra Large Pumps and Valves
3. Wind turbines
4. Entire Automotive vehicles
5. Automotive BIW bodies
6. Aircraft Interiors
7. Bigger machines and Etc....



3. ARM BASED 3D SCANNING SERVICE

Scan Surfaces & Probe the features like circle slot or any 2d features.

Operation of arm based 3D scanner is similar to a CMM machine. The joint movements of the arm is tracked in order to know its position in 3D space. A probe or laser attached to the end of the arm then records the data.

What we can 3D Scan ?

1. Sheet Metal Components
2. Molds and Dies
3. Small Machine Assemblies
4. Die Casting Components
5. Automotive Frames
6. Automotive Fixtures



4. LONG RANGE 3D SCANNING SERVICE

Scan large environments and objects.

Long range scanners work on the concept of time of flight. The time taken by a laser to reach an object and reflect back to sensor is recorded thus obtaining the distance . These scanner captures millions of points by rotating 360 degree and hence are suitable for large building structure.

What we can 3D Scan ?

1. Entire factory scanning for digital twin
2. City Planning
3. Building Design
4. Reconstruction
5. Automotive and Shipbuilding
6. Aerospace
7. Defense
8. Heritage Conservation
9. Surveying As - Built



5. MULTIFUNCTIONAL 3D SCANNING SERVICE

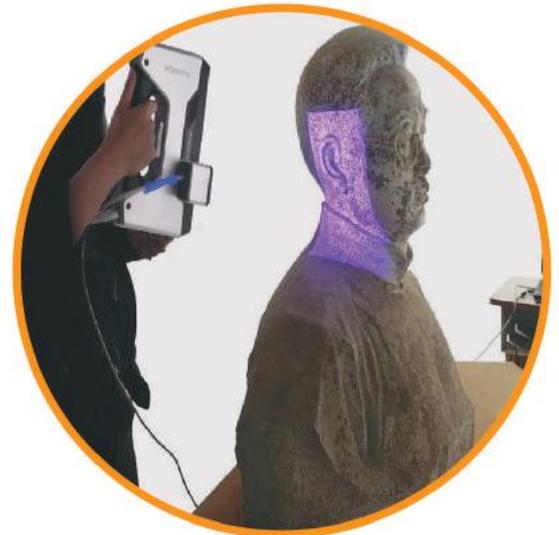
White Light Color Scanning.

Multifunctional scanner like our Einscan series offers versatile scan modes to the users including handheld rapid scan , HD scan and fixed scan with / without a turntable.

with the color pack accessory we can also capture the object color and texture.

What we can 3D Scan ?

1. Any Statues
2. Color scanning of Human Body
3. Object with Textures
4. Dental Models
5. Medium sized Die Casting Components
6. Engineering objects
7. Small and large Toys



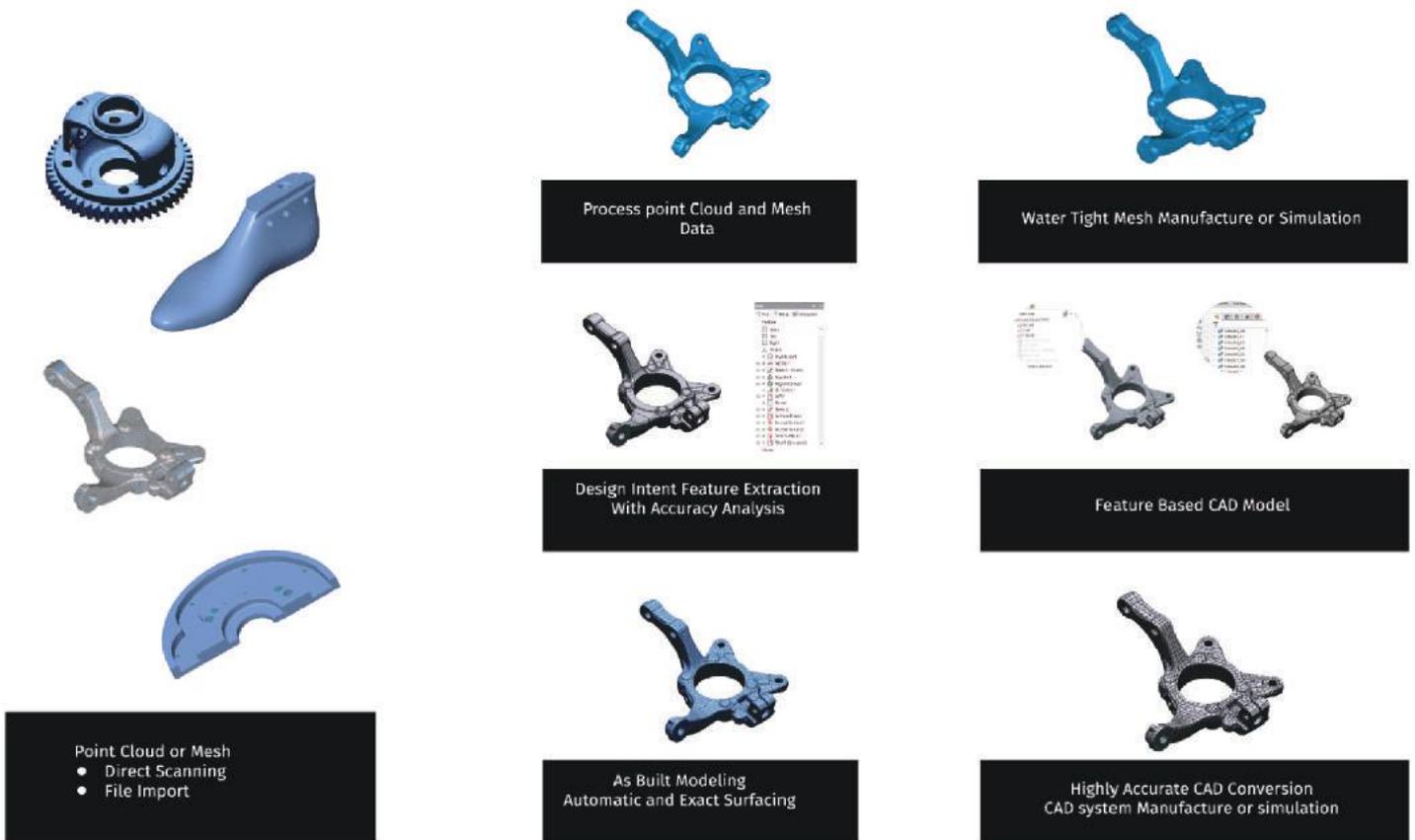
DIGITAL REVERSE ENGINEERING SERVICE

The gathered point cloud data from our advanced Scanner is then used to generate a feature based CAD model or a water tight mesh depending on the application, to trouble-shoot , reproduce , study , analyze , inspect the part.

We are one of India's largest Reverse Engineering & Digital inspection companies.

1. 50+ Digital Reverse Engineering Experts
2. 20+ Digital Reverse Engineering Based Applications
3. 25+ Unique Processes for Individual Industries
4. 5+ Design Software workflow integration support
5. 1 Dedicated Reverse Engineering Software
6. 3 Different Types of Scan to CAD modelling Techniques
Direct-to-Manufacture, Editable, History-Based,
Parametric CAD File Deliverables

WORKFLOW



APPLICATIONS

1. 3D Scan to Parametric CAD
2. Scan to NURBS Modeling
3. Hybrid Modeling
4. Organic Shape Feature Based CAD Reconstruction
5. Digital Sculpting from Digitized Shape
6. Design Modification
7. Neutral CAD to Editable CAD CAD Modification

8. Automotive Digital Transformation
9. VFX and Animation Model Reconstruction
10. Mesh Modeling
11. Extract Surface Curvature
12. Blueprint to CAD Construction CT Scan to CAD Modeling



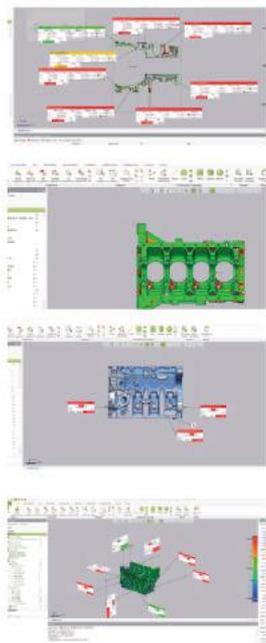
DIGITAL INSPECTION SERVICE

In this process physical part is converted into digital model and super imposed with the reference CAD model to compare the geometry and dimensions of the part to be inspected and generate detailed report.



Inputs can be physical objects, scan-data from any scanner and existing CAD designs.

WORKFLOW



Input
Direct Scanner Integration
Preplanned Probing Routines
Walk Up Inspection Tools
Scanning Automation

Advanced Digital Inspection
Digital Alignments
2D and 3D Inspection
Digital Measurements
GD&T analysis
Digital Analysis Applications

Detailed Digital Report
Viewport Driven Reporting
Customizable Templates
2D & 3D PDF Report
Trend Analysis



PRECISE3DM

Email : service@precise3dm.com

Mobile : 9940352575 / 9840478347

Website : www.precise3dm.com

Chennai:

Rajas Tower, No:2/461, 2nd Floor,
Medavakkam Main Rd, Kovilambakkam,
Chennai, Tamil Nadu 600129

Mumbai:

No:403, 4th floor, Techno Park,
New Link Rd, opposite Metro Station Ic
Colony, Eksar, Borivali West, Mumbai,
Maharashtra 400092.