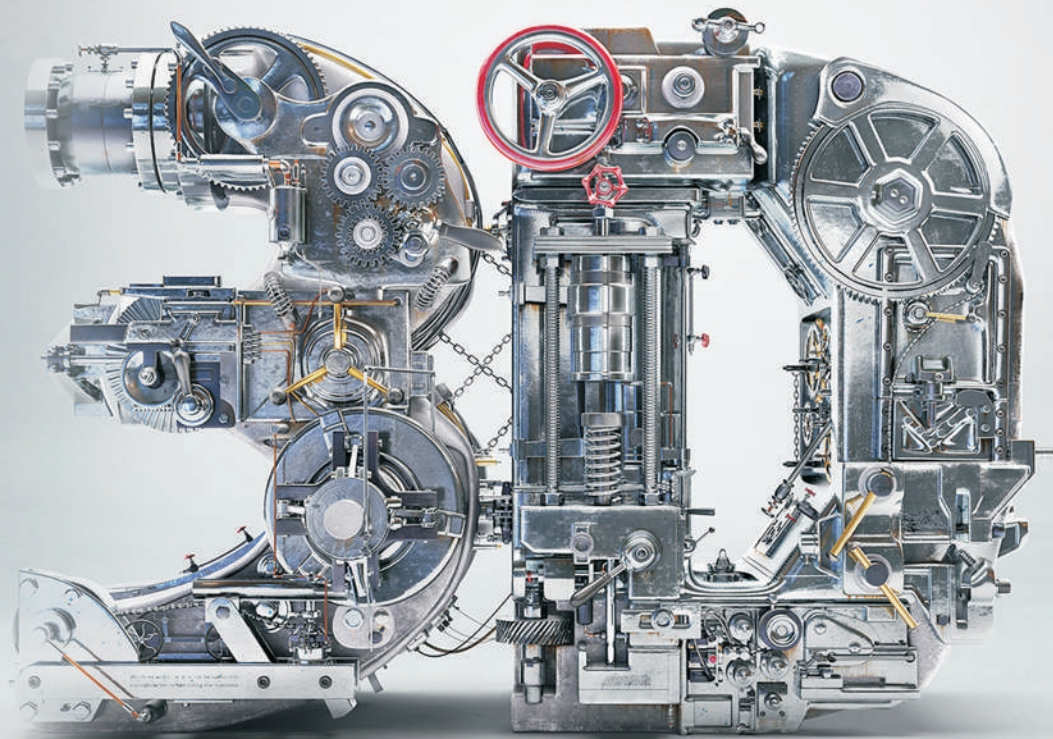


JET 3D SCAN



#METROLOGY STANDARD

www.jet3dscan.com



WHO WE ARE

WHO WE ARE

At Jet 3D scan we are innovative, passionate and determined to unveil the path of 3D arena with endless opportunities. We provide service in area of 3D scanning, reverse engineering, Product development, manufacturing and Engineering solutions that enable clients to achieve desired outcomes. We thrive to comprehend our client's difficulties and compile all ideas to provide best solutions that can empower industry to conclude to a firm and accurate decision. Having worked with variety of companies, from various industries, we have gained an understanding of the market demands required in research and development, product development, and manufacturing. Our suite of solutions has been carefully selected to ensure that you can meet these demands, while positioning your business for sustainable growth and a competitive advantage.



Founder's Message

Establishment of JET 3D Scan in 2015 was a vision for providing metrology solution using latest equipments for manufacturing and inspection standards in accordance to Industry 4.0 standards. Our team consists of cross domain specialist trained with latest hardware and software to enable end to end service offerings and deliver best in class solution to our customer.



Director's Message

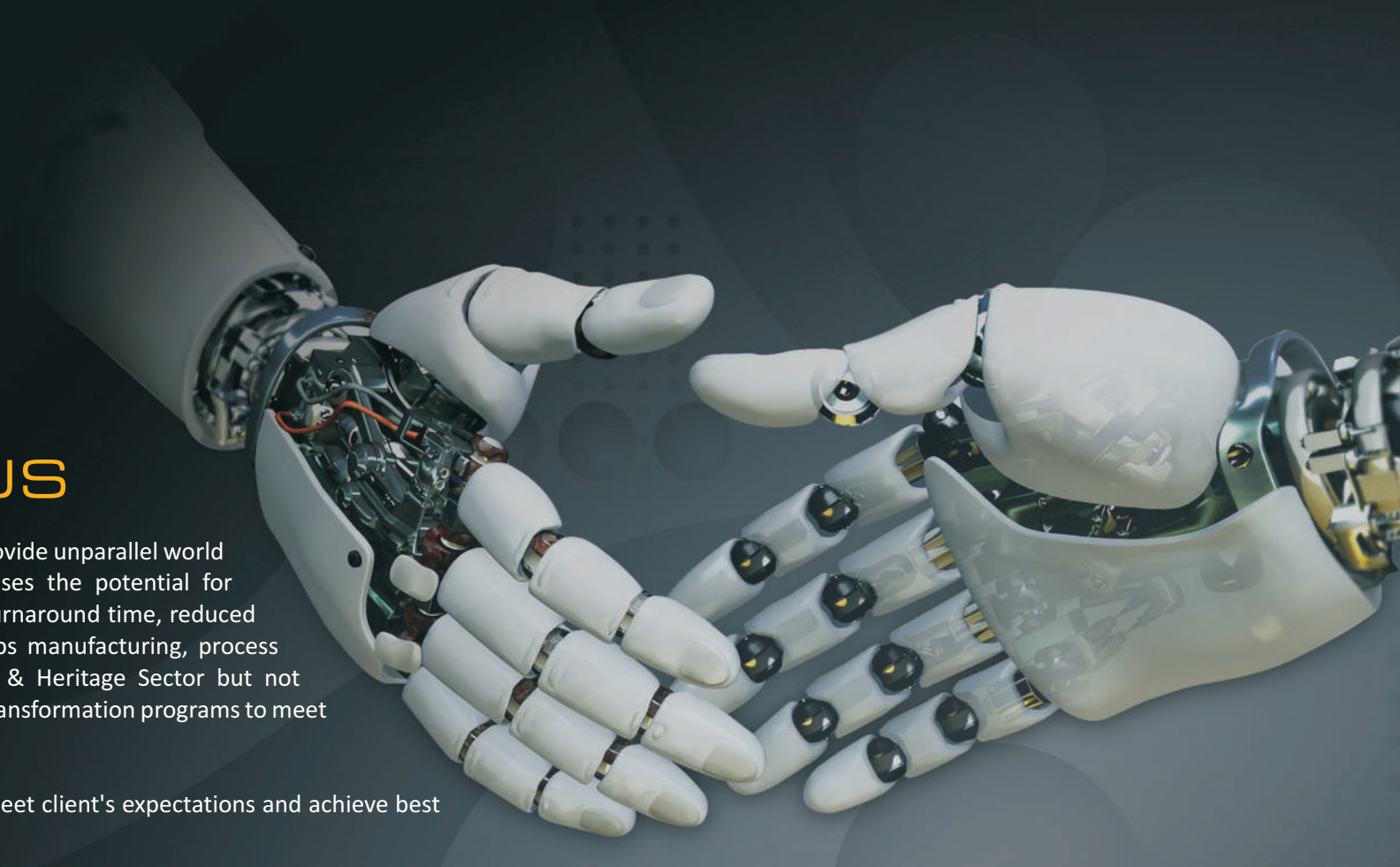
Jet3D scan is capable and competent to perform digitization and engineering works as per client's requirements and expectations. We focus on understanding clients requirements in depth and extend best resources to complete the job. Our team members are well trained and we focus on continuous development and upgrading our skillset to comply to the ever changing technology landscape.

ABOUT US

Jet3D Scan is determined to provide unparalleled world class. 3D services that increases the potential for higher productivity, reduced turnaround time, reduced CAPEX/OPEX costs. JET3D helps manufacturing, process industries, Plants & Factories & Heritage Sector but not limited to help in their digital transformation programs to meet their physical to digital needs.

At Jet3D we always thrive to meet client's expectations and achieve best results in desired time line.

Our Solutions Includes: 3D Scanning, Reverse Engineering, 3D Printing, Rapid Prototyping, , Direct Digital Manufacturing,3D Long Range Scanning, Heritage Digitization and preservation and 3D CAD Design.



3D SCANNING

INTRODUCTION :

3D Scanning is a non-contact type, non-destructive technology that digitally captures the shape of physical objects using a structured light source or lasers. 3D scanners create a "point cloud" of data from the surface of an object. 3D Scanning is a way to capture a physical object feature, size, color, dimension and shape into the computer cad universe as digital 3 dimensional representation.



APPLICATION AREAS & BUSINESS BENEFITS OF 3D SCANNING SERVICES :

- 1 Engineering purpose includes : 3D and 2D Drawing generation with CAD parameters.
- 2 Inspecting surface of the manufactured components.
- 3 3D Textured Scanning be beneficial in augmented reality, virtual reality and animation.
- 4 Obtaining high data quality with precise pin point accuracy.

Types of 3D Scanning:

Blue Laser line Scanning

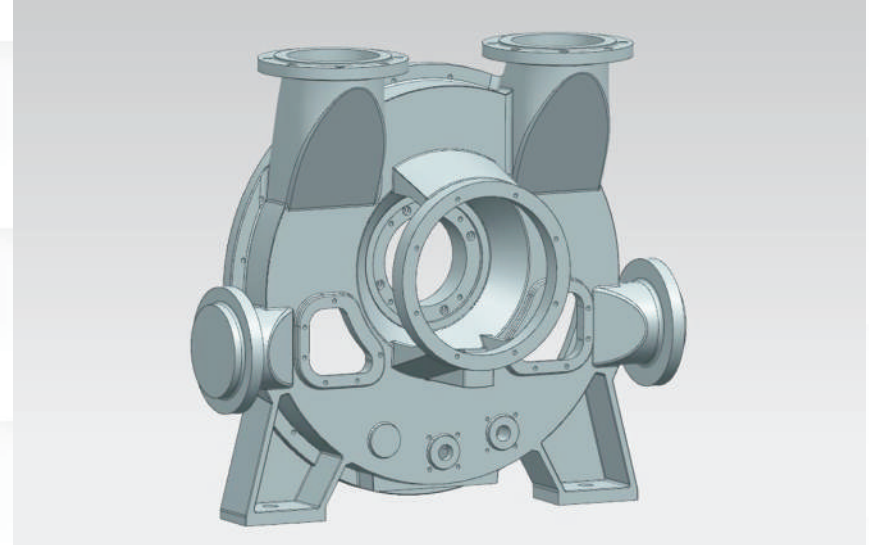
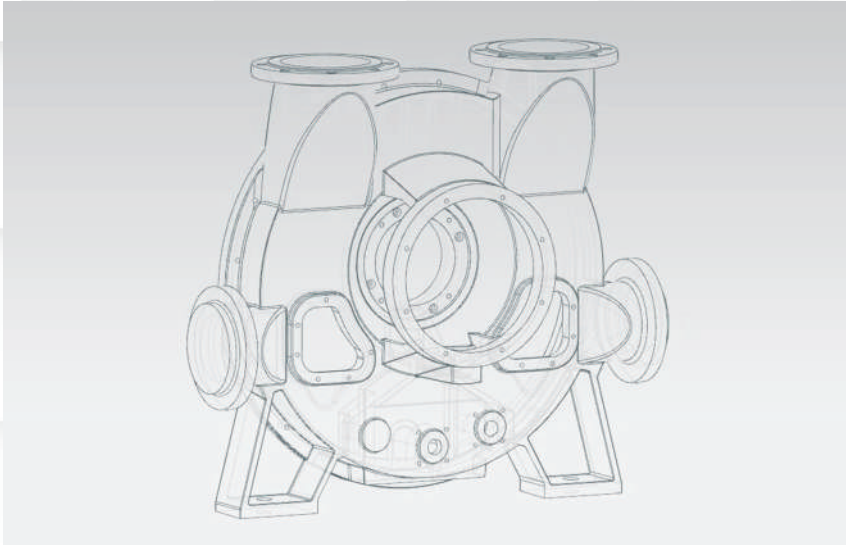
Red Laser line Scanning

Structured White light Scanning

Reverse ENGINEERING

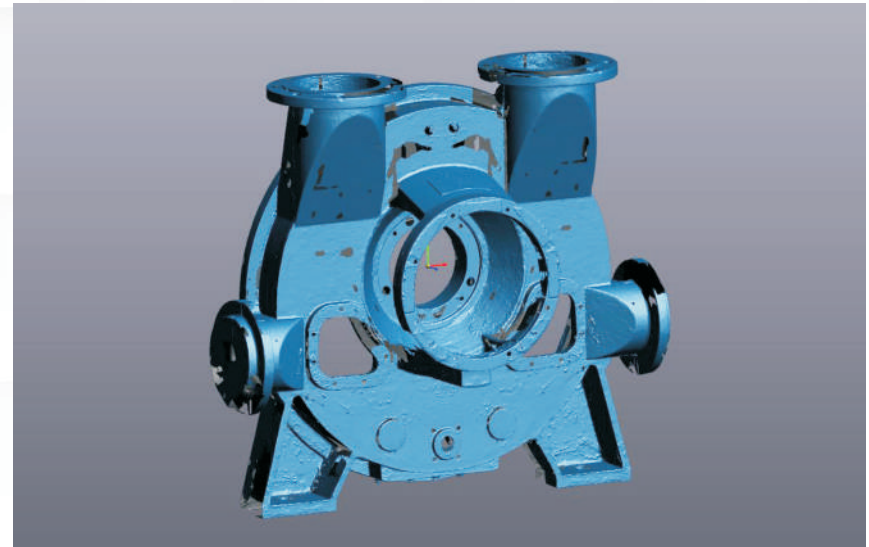
INTRODUCTION :

Reverse Engineering is a process of converting real world object to virtual world with parametrically accurate 3D CAD models and 2D Drawings by using 3D Metrology grade equipment such as handheld scanner, Scan arms and long Range terrestrial scanners.



APPLICATION AREAS & BUSINESS BENEFITS OF REVERSE ENGINEERING

- 1 Drawing preparation of precise components in case of absence of drawing.
- 2 Physical object, living or non living can easily brought to virtual world.
- 3 Accurate Data conversion in variety of CAD file formats.
- 4 Product Optimization from old products.
- 5 Aesthetic and performance optimization.
- 6 Tool, Jig and Fixture Design at low cost and in less time.



CMM INSPECTION



INTRODUCTION :

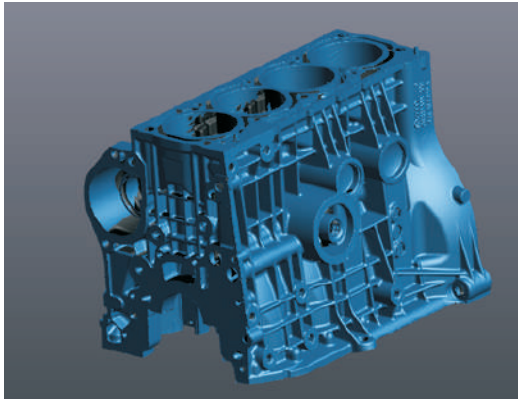
CMM inspections uses precise scanning technology that measures the geometry of any physical object. It probes discrete points on the surfaces of the object to provide precise inspection reports. This technique of measurement has been used since 1960.

APPLICATION AREAS & BUSINESS BENEFITS OF CMM INSPECTION

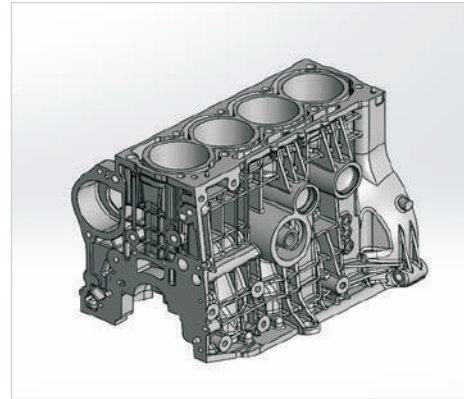
- 1 Part validation with accurate fitments checking.
- 2 Batch Inspection, reporting and dimensional quality control (SPC).
- 3 On site Inspection with negligible setup systems.
- 4 Live and instant Gauge validation, Assembly Inspection and Tool Inspection.
- 5 GD&T point check in X, Y & Z coordinates.
- 6 Inspecting the parts from Casting to machining to final finishing stage.

3D SCAN to CAD

INSPECTION



3D SCAN DATA



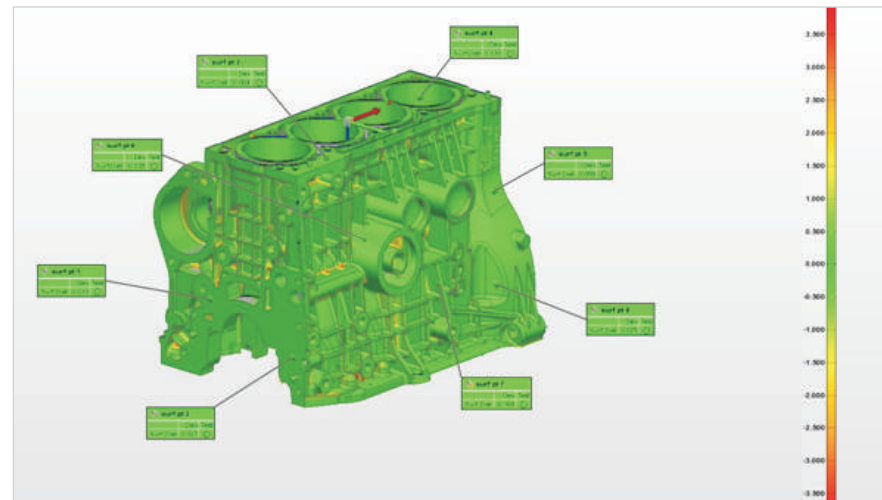
3D CAD MODEL

INTRODUCTION :

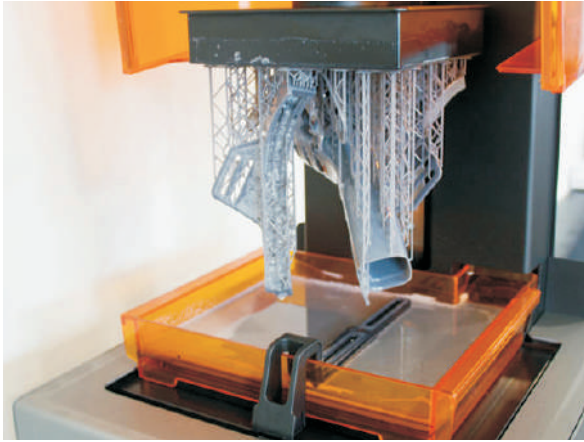
Using 3D Scanning techniques, the captured point cloud data through contact and non-contact scanners if overlapped with existing CAD models to address many use cases like to map surface deviation, inspection results etc.

APPLICATION AREAS & BUSINESS BENEFITS OF THE 3D SCAN TO CAD INSPECTION

- 1 Flush point and Gap point inspection, to ensure the parts will fit together on the first try.
- 2 Capture Engineering optimizations inherent in the manufactured parts.
- 3 Quick and efficient way to compare part "as designed" to "as manufactured".
- 4 Most efficient method for inspecting the component from all the side and views.
- 5 Cross sections inspection for warpage, defects and tolerance reset and recheck.
- 6 Complex 3d inspection with automation report help user to find our pin point defects, which will lead to find root cause of the error with fast troubleshooting.



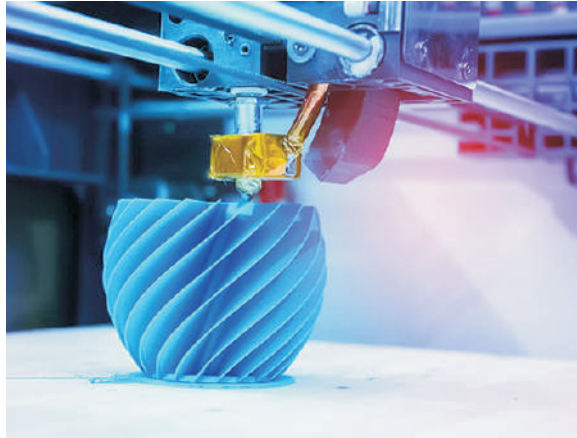
3D SCAN TO CAD COMPARISON



3D PRINTING

INTRODUCTION :

3D Printing, Rapid Prototyping or Additive Manufacturing helps construction of 3D objects from CAD to Physical object. This helps in product development to quick assessments with a variety of materials and configurations. There are variety of processes such as FDM, FFM, SLA, SLS, DLP, MJF AND MJP. 3D Printing process is a technique where material is deposited, joined or solidified using heat or binders added together typically layer by layer.



APPLICATION AREAS & BUSINESS BENEFITS OF 3D PRINTING.

- 1 Flexible designing work flow. 3D Printing allows designers, inventors and innovators to design and manufacture complex designs.
- 2 Small batch production of parts with variety of material.
- 3 Cost savings for trial and error before manufacturing molds and dies.
- 4 Dimensional, physical and visual inspection before production.
- 5 Cost effective and minimum waste of materials and resources.

3D Long Range Scanning



INTRODUCTION :

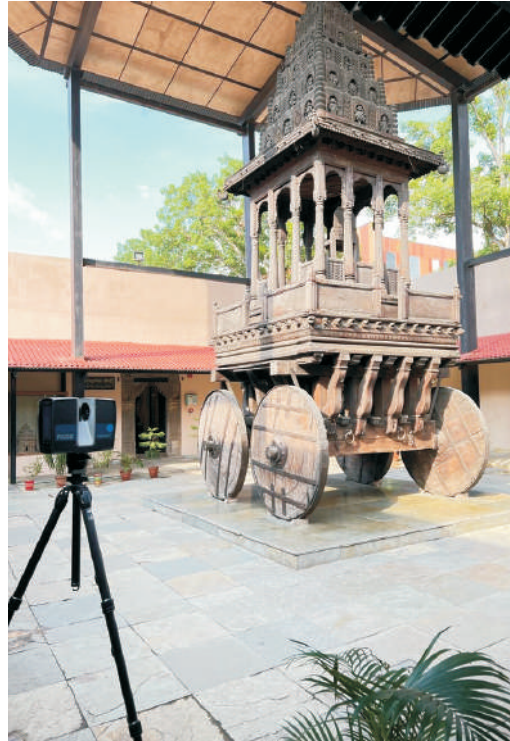
Long Range Scanner or the Terrestrial Scanner are used to capture dimensional, visual and animatable 3D scan data or point cloud. 3D Long range scanning is used to prepare a photo realistic 3D Data of the Scanned area. This equipment can be operated in tough weather condition and does not require any complex setup.

APPLICATION AREAS & BUSINESS BENEFITS OF 3D LONG RANGE SCANNING.

- 1 Scanning heritage buildings, artworks, religious monuments and artifacts for digitization and optimization purpose.
- 2 Crime scene data analysis in order to study the crime scene virtually at any premises.
- 3 Preparation of old manufacturing plants and sites drawings and layouts, where civil drawings are not available.
- 4 Large sized component inspection.
- 5 Easy to use, plug and play technology and no rigid setup required at site.



DIGITAL 3D HERITAGE CONSERVATION



INTRODUCTION :

The relevance and need of preserving the heritage and archaeological sites is increasing with the speed of light, through technological advancements we can digitally preserve the heritage by 3D scanning the object. This object can be an idol, artifact, fort, palace, museum or any monument relating to history.

APPLICATION AREAS & BUSINESS BENEFITS OF 3D HERITAGE PRESERVATION :

- 1 Non destructive technique which will allow us to capture data without causing damage.
- 2 Exact photo realistic for as per sample 3D textured digitization needs.
- 3 Beneficial for preserving texture, geometry and position.
- 4 Non contact type technique which preserve the untouchability to the objects and monuments in order to preserve its heritage.
- 5 3D accurate scan data can be used for re development, animation or reconstruction purpose.



JET 3DSCAN

SINCE 2015



1000+
CLIENTS



15000+
PROJECT
COMPLETED



10+
AWARD
CERTIFICATE



15+
TEAM

POWERED BY :



INDUSTRIES WE SERVE



AUTOMOTIVE



HEAVY ENGINEERING



INDUSTRIAL MACHINERY



HERITAGE PRESERVATION



ART & ARCHITECTURE



MEDICAL



CONSUMER PRODUCTS



DEFENSE & AEROSPACE



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