FIBROX 3D
TECHNOLOGIES PVT. LTD.

COMPANY PROFILE

www.fibrox3d.com

0.1 m / sq.m.

Ein Scan White light/ Structured light 3D Scanner

- Scan Speed: 20 fps100,000 Points/s
- Point Distance: 0.2 mm-2 mm
- Accuracy: 30Micron

2.5m / sq.m.

Hexagon Scan ARM 85 Series 3D Laser scanner

- Point Acquisition Rate: 752 000 Points/s
- Minimum Point Spacing: 0.011 mm
- Accuracy: 50Micron

<1km / sq.km.

FARO FOCUS M70 3D Laser scanner

- Point Acquisition Rate: Up to 488,000points/s
- Point spacing: 0.6mm
- Ranging Error: +/-3mm

500km / sq.km. or, more

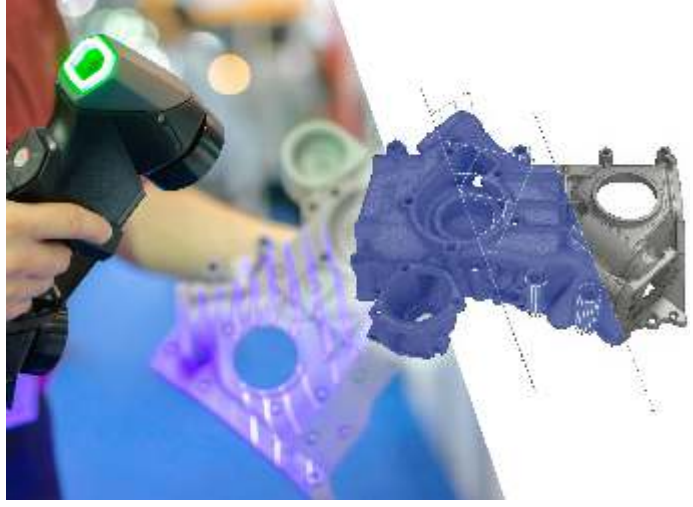
Drone – RTK
DJI MAVIC 3 ENTERPRISE
DJI PHANTOM 4 PRO

- 25km Per Day in Linear or
- 200 Acre Per Day in Area
- Positional Accuracy: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

- Product Design And Prototyping
- Reverse Engineering
- Inspection

- Laser Scanning
- Bim / As Built Modeling

- Surveying / Photogrammetry
- Gis Mapping



REVERSE ENGINEERING

- When Customer have the exact thing which he want to manufacture
- We capture its dimension with the help of 3D Laser Scanner
- We prepare as built model first than improve it according to clients requirements
- After finalizing we prepare manufacturing drawings

WORK FLOW/FLOW CHART

01 Customer came up with some concepts and reference products

02 We design the best out of 3D Scanned data and prepare 3D model

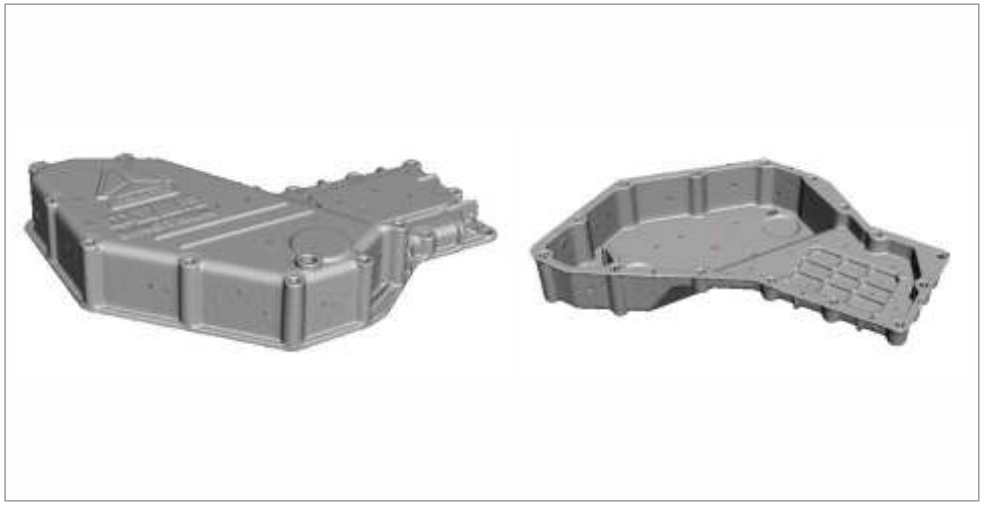
03 Afterwards on client's request we 3D Print prototype

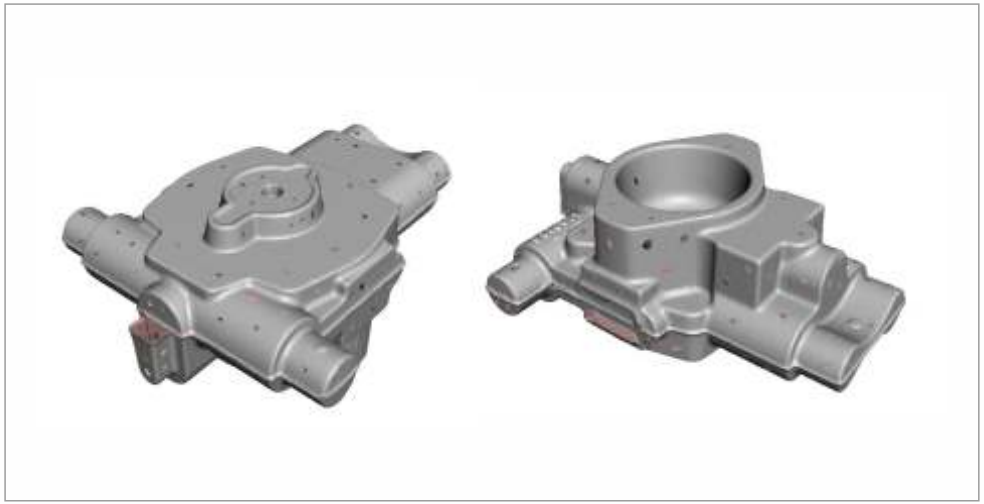
04 On final approval; we prepare manufacturing drawings

STATISTICS : Reverse Engineered The Product Till Date:

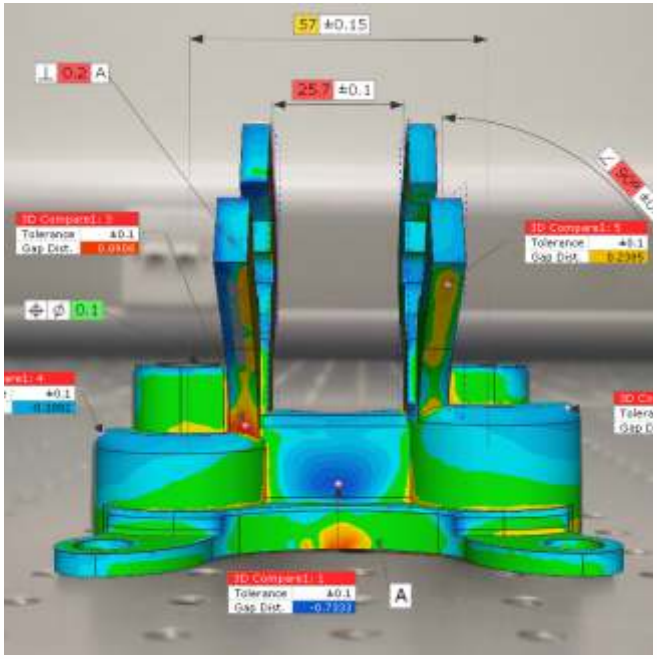
7000+

Reverse Engineering





3D INSPECTION



- When customer have 3d model and product
- We do scanning and superimpose it on the CAD Model after that we spot the difference
- This helps customer to improve their product

WORK FLOW

01 Customer came up with his Product / Die / Tool / Casting

02 We do scan it

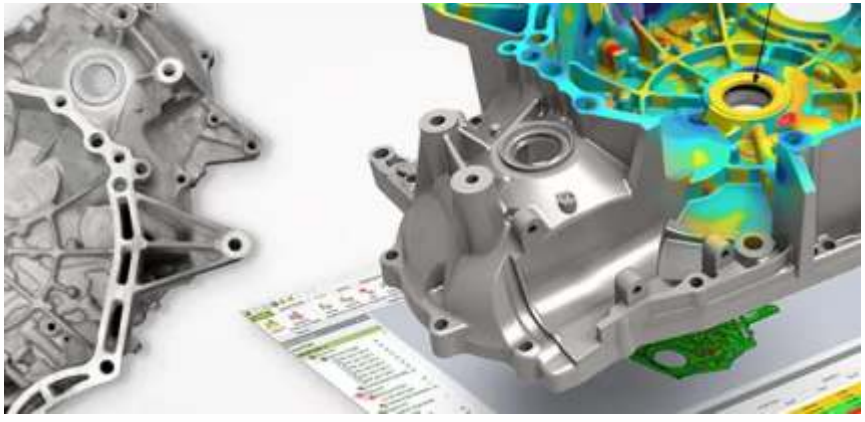
03 We do find the defects and cause behind it

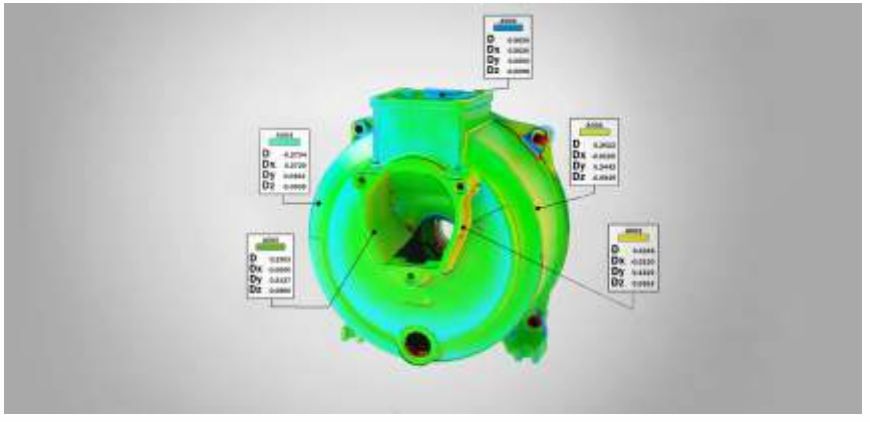
04 We do prepare a detailed report.

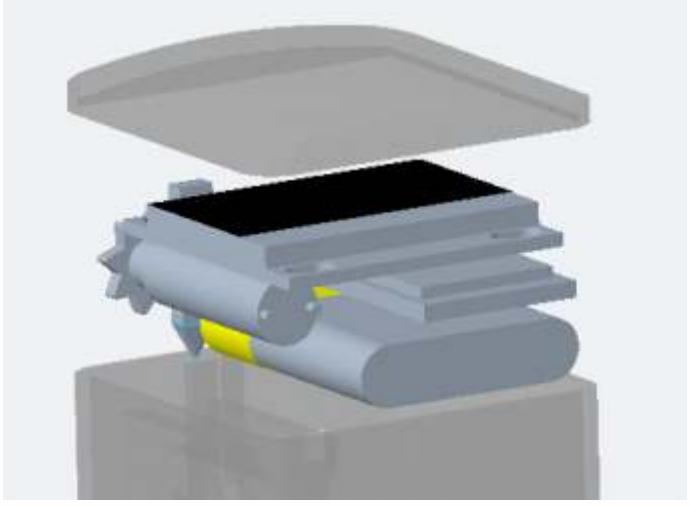
STATISTICS : Inspection Done Till Date:

8000+ PRODUCTS

3D Inspection







NEW PRODUCT DESIGN AND PROTOTYPING

- We design & develop a product based on customer's requirements
- You share the concept we will share manufacturing drawings
- Whether it a product/machine of 100 components or 1000 components we will do it with accuracy and time

WORK FLOW

01 Customer came up with some concepts and reference products

02 We design the best out of it and prepare 3d model

03 We make one prototype and take market review, after some iteration we do final design

04 Based on Final design, we prepare manufacturing drawings

STATISTICS : Product Designed Till Date:

25+

New Product Design And Prototyping

3D LASER SCANNING

- When customer wants measurements of a building, heritage property, Plant or, Ship's Engine room; we fulfill all their requirements using 3D laser scanning technology.
- We provide 3D Point cloud data based on client's requisite.

WORK FLOW

01 Customer wants to measure/verify/model existing facility.

02 We scan on-site client location.

03 We process off-site, clean and prepare colored point cloud data.

04 We deliver the data based on client's required format. (.RCP , .RCS, .E57, .POD, .LSPROJ , .FLS etc.)

STATISTICS : Projects Completed Till Date:

120+

3D Laser Scanning







3D LASER SCANNING - BWTS

- 3D Laser Scanning/Feasibility survey for Ballast water treatment system installation onboard vessel(ship)
- Using this 3D Scanned data, Marine Engineering consultant do reverse modeling & placement of equipments & pipe routing in Engine room of ship.
- Along with 3D Model; we also do Surveying also to collect the required information from vessel(ship).

WORK FLOW

01 Customer finalize the project on urgent basis.

02 We scan on-site client's vessel(ship) location.

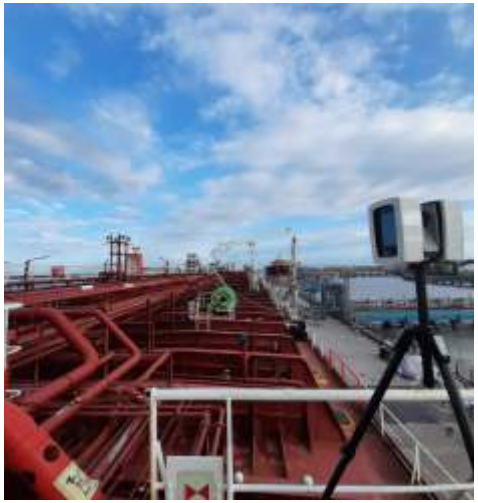
03 We process off-site, clean and prepare colored point cloud data.

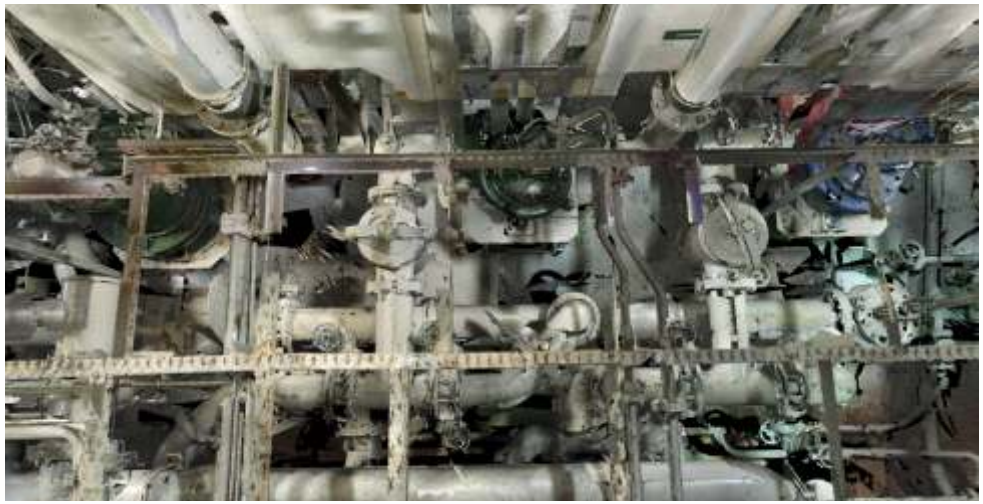
04 We deliver the data based on client's required format. (.RCP , .RCS, .E57, .POD, .LSPROJ , .FLS etc.)

STATISTICS : Projects Completed Till Date:

100+

3D Laser Scanning - BWTS





3D LASER SCANNING - EGCS

- 3D Laser Scanning/Feasibility survey for Exhaust Gas cleaning system onboard vessel(ship)
- Using this 3D Scanned data, Marine Engineering consultant do reverse modeling & placement of equipments & pipe routing in Engine room of ship.
- Along with 3D Model; we also do Surveying also to collect the required information from vessel(ship).

WORK FLOW

01 Customer finalize the project on urgent basis.

02 We scan on-site client's vessel(ship) location.

03 We process off-site, clean and prepare colored point cloud data.

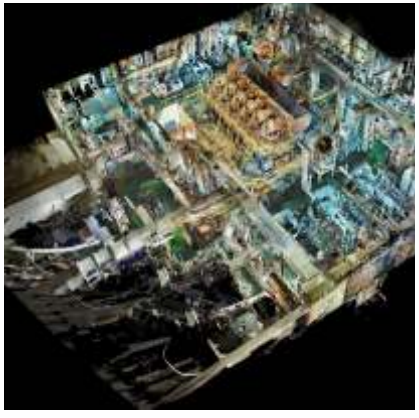
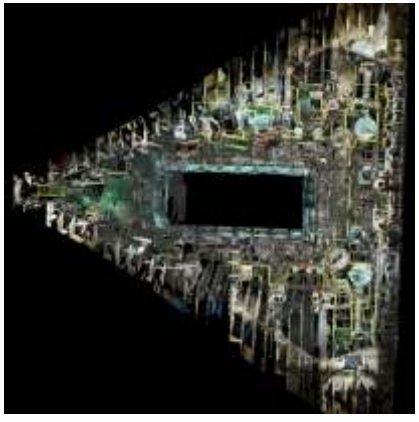
04 We deliver the data based on client's required format. (.RCP , .RCS, .E57, .POD, .LSPROJ , .FLS etc.)

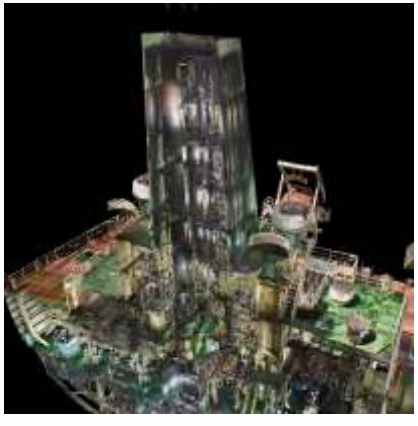
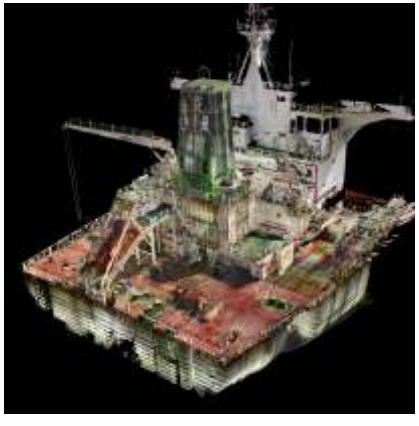
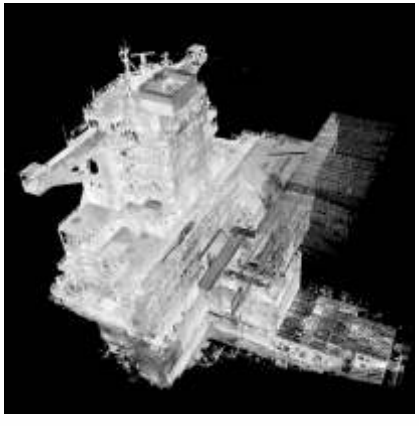
STATISTICS : Projects Completed Till Date:

25+

3D Laser Scanning - EGCS



3D LASER SCANNING - PLANT

- 3D Laser Scanning of existing plant, processing plant, manufacturing facility to digitally store the plant.
- Brown-field projects – where new equipment, unit, plant unit need to be commission/de-commission.
- Re-develop an existing plant facility, strengthen the existing plant requires digital information(3D Models, ISOs) with measurements

WORK FLOW

01 Team mobilization for 3D Scanning on-site.

02 Collect the 3D scanned data.

03 We process off-site, Clean and prepare colored point cloud data.

04 We deliver the data based on client's required format. (.RCP , .RCS, .E57, .POD, .LSPROJ , .FLS etc.)

STATISTICS : Projects Completed Till Date:

15+

3D Laser Scanning - Plant

3D LASER SCANNING - HERITAGE

- 3D Laser Scanning of heritage site, monument, artefacts, ancient temples, Palaces for digital documentation and analyze
- Sometimes client want us to prepare the 2D drawings (All side elevation, Top-Plan & ceiling plan.

WORK FLOW

01 Team mobilization for 3D Scanning on-site.

02 Collect the 3D scanned data.

03 We process off-site, Clean and prepare colored point cloud data.

04 We deliver the data based on client's required format. (.RCP , .RCS, .E57, .POD, .LSPROJ , .FLS etc.)

STATISTICS : Projects Completed Till Date:

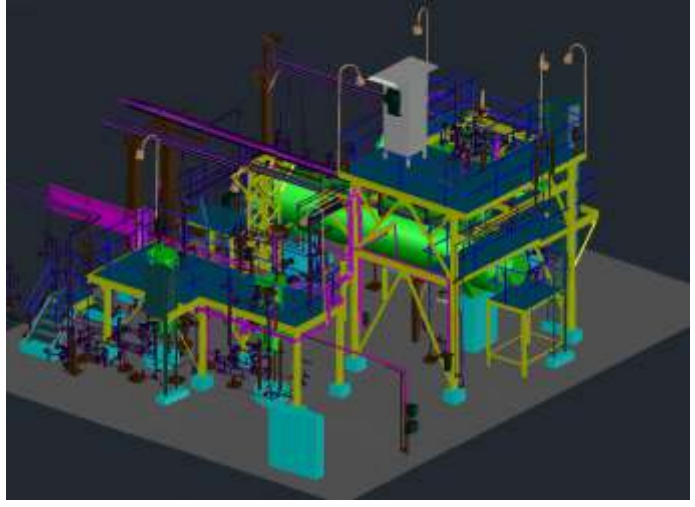
20+

3D Laser Scanning - Heritage







CYCLONE MODELING

- When customer wants digital replica of what we scanned or, have point cloud data and wanted us to prepare an As-built model.
- Our team do As-built modelling on Cyclone software/Intelligent modelling software - AutoCAD plant3D, PDMS, E3D, etc. based on customer's requirement.

WORK FLOW

01 Customer provides 3D point cloud data.

02 We prepare a 3D non-intelligent model then do improvements on customer's suggestions.

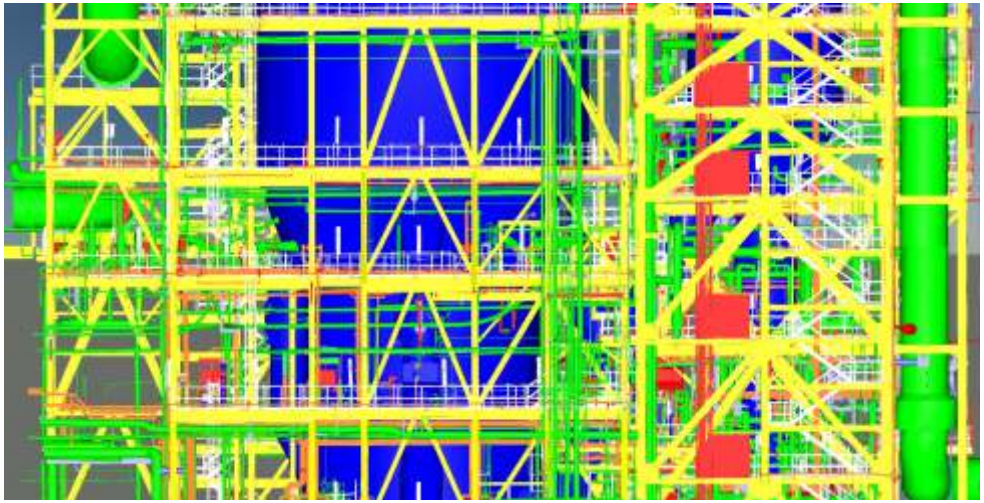
03 Final stage QA/QC of 3D model.

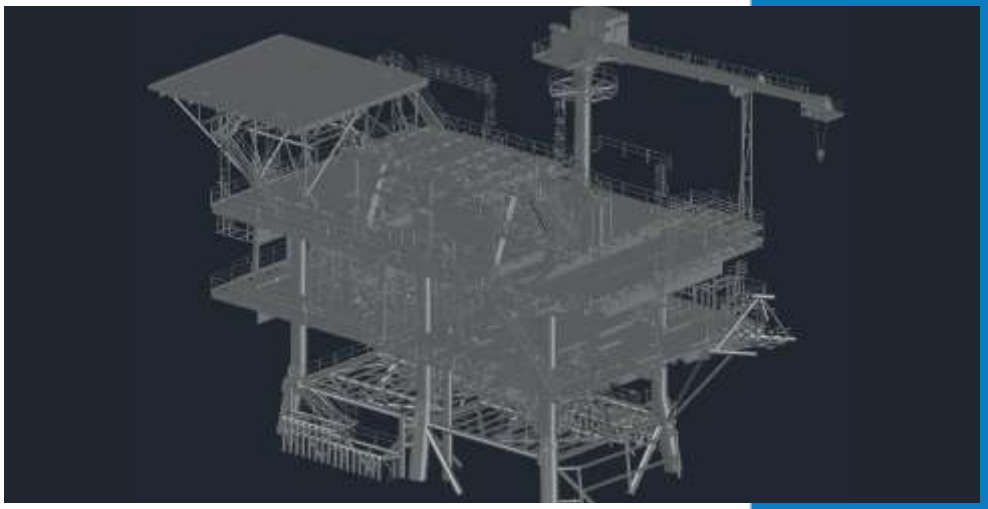
04 And submission of deliverables like .DWG, .DXF, .NWD, etc.

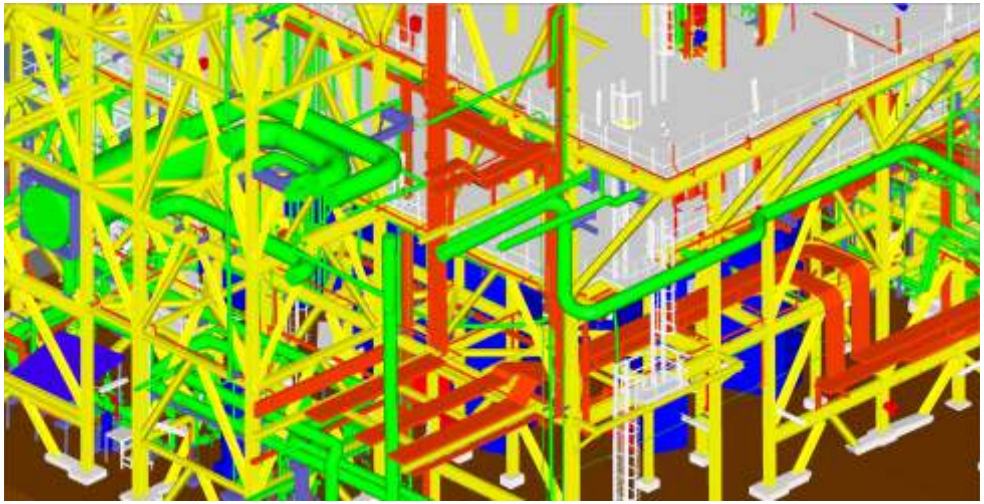
STATISTICS : Projects Completed Till Date:

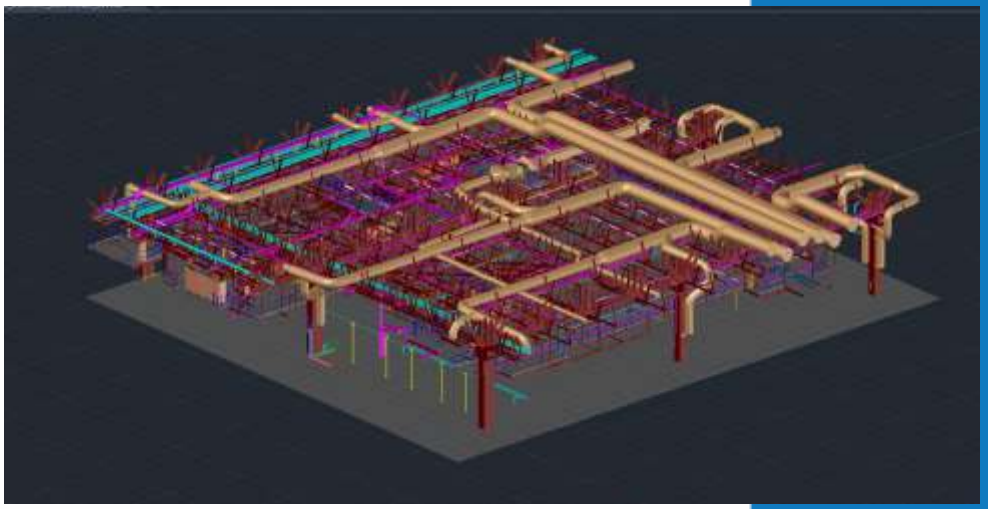
10+

3D Laser Scanning – Cyclone Modeling

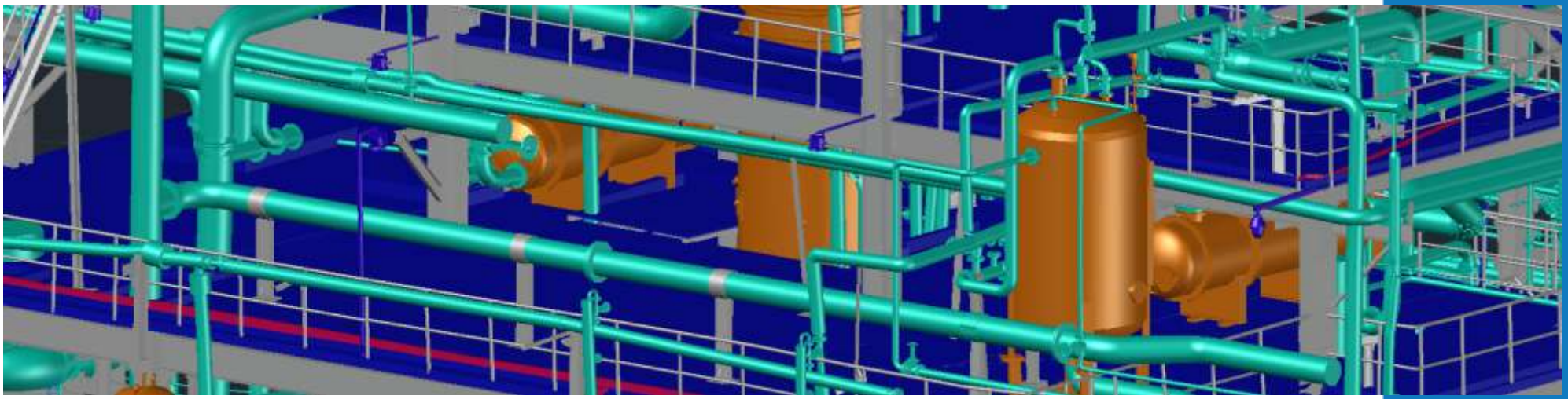


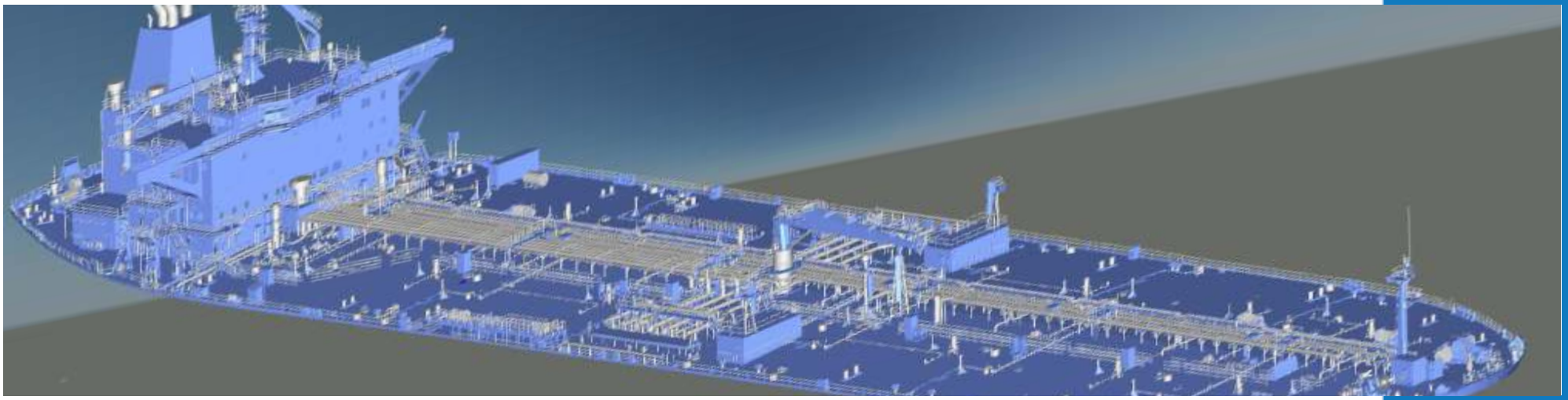






3D Laser Scanning – Cyclone Modeling





DRONE SURVEYING

- When customer requirement is to map/survey the larger area; we use Drone an instrument for measuring/mapping/surveying. (DJI MAVIC 3 ENTERPRISE RTK)
- When 3D mesh model of heritage monument/site needed to be captured using photogrammetry technique. (DJI PHANTOM 4 PRO)
- Survey of Mines, Linear railway-line projects, Large area mapping ,etc.

WORK FLOW

01 Customer finalize project with requirements.

02 Team mobilize to survey location with equipments.

03 Collect all the data with extra buffer area also to prevent any data loss at the end.

04 Pre-check & process the small dataset on-site only to verify

05 Process all the data with accuracy, cross-check with real-time measurements, QA/QC

06 Submit the final data delivery.

STATISTICS : Projects Completed Till Date:

15+

Drone Surveying








DRONE SURVEY – POST PROCESSING

- Drone images stitching using GIS processing software and applying Ground controls to place the data into exact geo location.
- We cross check all the measurements with total station, DGPS points to verify the accuracy for the project registered.
- Usually client requires, contour levels and Topographic feature oriented map.

WORK FLOW

01 Customer provides geo-tagged images of project.

02 We process the whole Dataset on client's requirements.

03 We deliver as per client's requisite. (Orthomosaic, Point cloud, 3D mesh model, DSM, DTM, DEM, Contours, L-section, AutoCAD features line drawing, etc.)

Drone Data Post Processing

Thank You!

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