

اوشين تيك سوليوشنز
OCEAN TECH SOLUTIONS

CHOICE OF SOLUTIONS



ENGINEERING CONSULTANCY & NAVAL
ARCHITECTURE FIRM

OFFSHORE | MARINE | OIL & GAS

UAE | INDIA

Who We Are



ENGINEERING CONSULTANCY



NAVAL ARCHITECTURE



OFFSHORE

Rig upgradation & repairs, FPSO & FSO Conversions, Jackup & Accommodation Barges, Accommodation Modules, Loadouts & Float off, Float overs



MARINE

Concept Design, Ship New Building, Ship Conversions & Upgradations, BWTS & Scrubber Retrofit Engineering, Loading Softwares, Marine Project Management



OIL & GAS

Feed Verification, API Storage Tanks, Refinery + Petrochemical Engineering, Oil & Gas Piping, 3D Modeling Services, Pressure Vessels, Storage Silos

Global Position



UAE

Ocean Tech Solutions
SAIF Zone, Z - 51
P.O. Box: 513745
Sharjah, UAE
Ph: +971 6538 6233

INDIA

Ocean Tech Solutions
ES4, Heavenly Plaza,
Padamugai, Kakkanad
Cochin - 682021
Kerala, INDIA

VISION

To be the most respected and responsible integrated products & service provider in oil and gas industry by delivering sustainable, innovative, high quality, safe, competitive, and on-time solutions to our clients

MISSION

Ocean Tech Solutions is devoted to make positive influence among our clients where we operate by using our unlimited passion and competence with innovation being an integral part of our mission

CORE VALUES

We believe in treating our customers with utmost respect and faith. And to grow along with a touch of creativity, invention and innovation, integrating honesty, integrity and business ethics into all aspects of our business functioning



Our Services



Naval Architecture

Naval architecture solutions for new building, up gradation and retrofiting all kinds of ships and offshore structures, from oil tankers, tugboat, cargo ships, yachts and passenger ferries to oil and gas platforms.



BWTS / Scrubber

Customized turnkey solutions for Ballast Water Treatment System & Scrubber System Installation projects, starting from feasibility study and basic engineering to final installation drawings for pre fabrication.



Offshore Engineering

Turnkey engineering for floating and drilling structures such as, FPSO & FSO vessels, semi-submersible drilling platforms, floating drill ships, bottom founded platforms, jacket platforms, jack-up drilling rig, accommodation barge etc.



3D Laser Scanning

Delivering a wide range of Marine and Naval 3D experience, for mechanical engineering, BWTS, scrubber, ship hull modeling, reverse engineering, as building, Stern and Keel alignment inspection, engine rooms and fuel tanks 3D inspections.



Onshore Engineering

Customized engineering solutions for onshore capabilities addressing all aspects of land rigs, gas or liquid hydrocarbons facilities including pipeline landfalls, terminals, storage tank farms, and transportation systems.

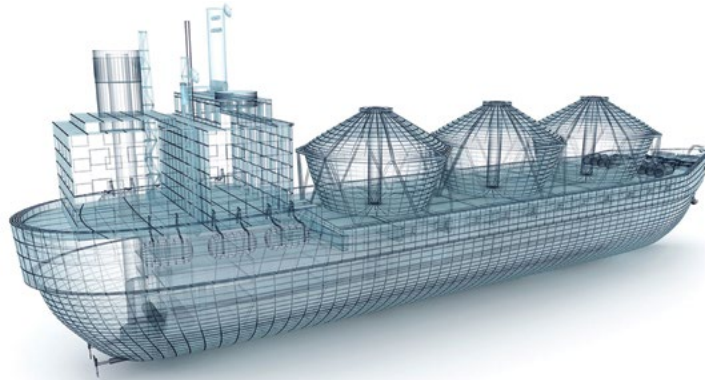
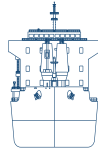
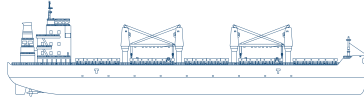
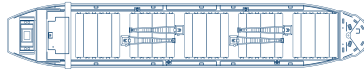


Offshore Containers

Cost effective engineering solution for DNV class approved offshore containers like offshore accommodation modules (20 ft / 30ft / 40ft), generator & transformer rooms, diving module, container workshops and DNV approved lifting and tool basket.

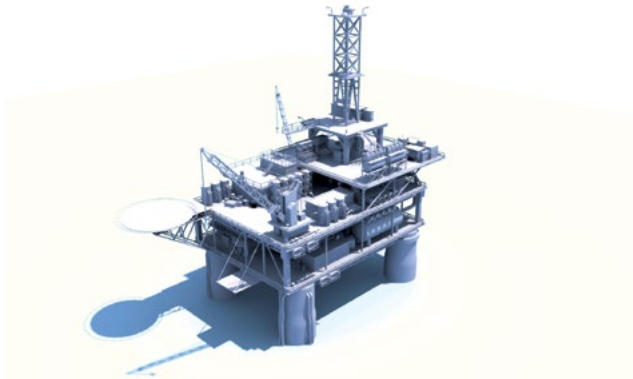


NAVAL ARCHITECTURE



- Ship New Building
- Stability Booklet
- Dead weight survey and inclining experiments
- Drawings as per Classification Society's approval
- Mooring and Towing analysis
- Loading conditions and Preload / Ballasting procedures
- Longitudinal strength
- Tonnage and freeboard calculation
- Life Saving Appliance (LSA) and Fire Fighting Arrangements (FFA)

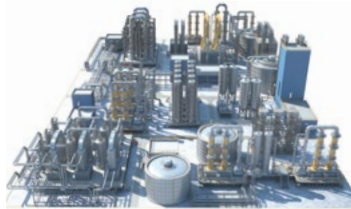
- Turnkey engineering for Jack-up rig conversion and upgradation
- Jack-up accommodation barge
- Semi-Submersible drilling rig
- FPSO & FSO vessels conversion and upgradation
- Ship conversion engineering for filed requirements
- Jacket float on
- Jacket Platforms
- Transportation and installation engineering
- Subsea pipeline engineering
- Marine vessel design



OFFSHORE ENGINEERING



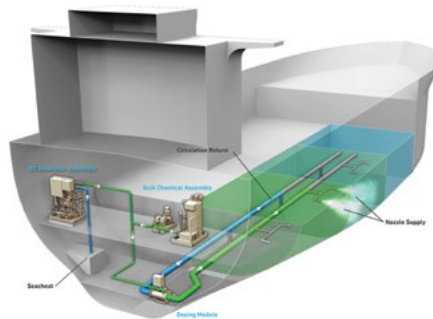
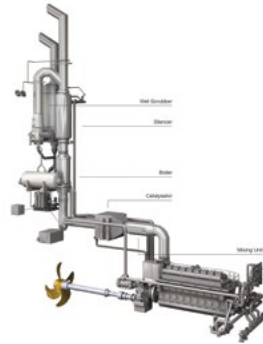
ONSHORE ENGINEERING



- Turnkey engineering for API storage tanks
- MEP design engineering services including Structure, HVAC, Electrical, Piping & Fire protection
- Refinery
- Petrochemicals
- Onshore pipelines and piping
- Pressure vessels and air receivers
- Customized engineering solutions for land rigs



- Cost effective BWTS and Scrubber engineering solutions from a qualified and experienced team complying of Marine / Piping / Mechanical / Structural / Electrical Engineers and Naval Architects
- 3D Laser scanning services for engine, pump rooms and engine exhaust funnels
- Feasibility study report
- Basic engineering and class approval
- Detail engineering and fabrication drawing
- Site supervision
- We deal with Alfa Laval, ERMA FIRST, Wärtsilä and BIO SEA



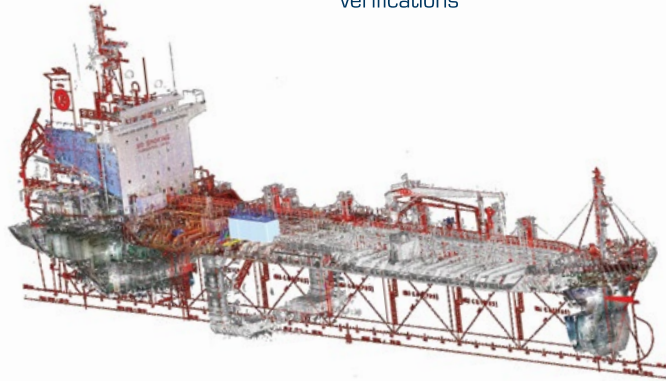

BWTS/SCRUBBER ENGINEERING



3D LASER SCANNING SERVICES



- 3D scan data by FARO Laser scanner for generating As Built drawing
- Seamless and precise documentation for the existing status analysis of Ship, Offshore Rig, Onshore Rig, Terminals, Refineries and Petrochemical Production facilities
- Engine and Pump room scanning for BWTS
- Tailor made scanning solution for vessel modification / upgradation projects
- Engine room and exhaust system scanning for Scrubber
- Reverse engineering and alignment verifications



- Cost effective engineering solution for DNV class approved offshore open and closed containers of various size and type
- Multi house offshore accommodation modules (20 ft / 30 ft / 40 ft)
- Recreation, Mess room & Galley
- Acoustic generator & transformer rooms
- Offshore control rooms
- Office containers and diving module
- Container workshops & tool rooms
- DNV approved lifting and tool basket



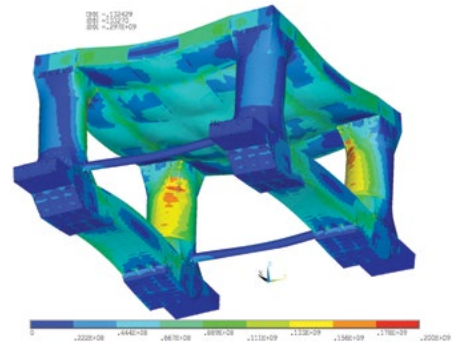
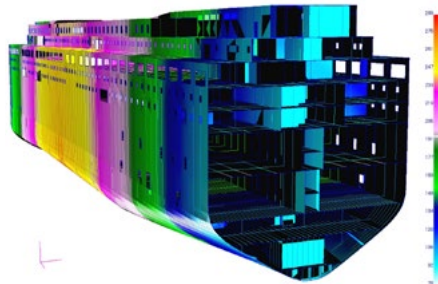
OFFSHORE CONTAINERS

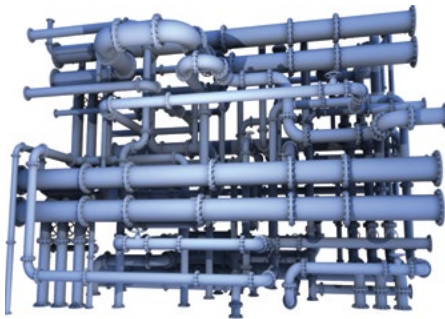
CORE DISCIPLINE

1. Structural Engineering

2. Piping and Process Engineering
3. Electrical Engineering
4. Mechanical & HVAC Engineering

- Elevated Structural Analysis for jack up rig
- Finite Element Analysis for Crane Pedestal
- Helideck Analysis as per CAP 437 & ICAO
- Jacking structure, Spud Can and Cantilever Analysis
- Finite Element Analysis for in-place and vessel dynamic conditions
- Ship conversion and modification engineering, to meet classification society rules ABS, DNV-GL, BV, LR, IRS in line with codes like, API, AISC, API-RP 2a, API 2c, AWS & SOLAS
- Detail Engineering Services





CORE DISCIPLINE

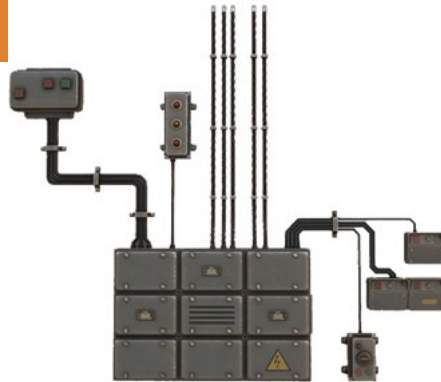
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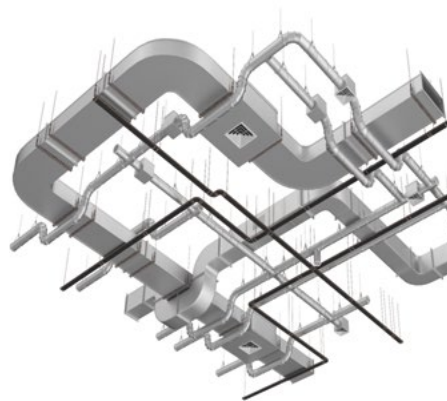
- Piping Isometric and P&ID design
- Piping 3D modeling and Spool Generation
- Pipe Stress Analysis and Pipe Support Design using Caesar II
- Piping Flow and Pressure Drop Calculation
- Material selection and Technical Specification
- Pipe wall Thickness Calculation

CORE DISCIPLINE

1. Structural Engineering
2. Piping and Process Engineering
3. Electrical Engineering
4. Mechanical & HVAC Engineering

- Single line diagram preparations
- Short Circuit Calculation and selectivity analysis
- Electrical Engineering and Design Drafting
- Electrical Load schedule preparation and Analysis
- Cable schedule, MCT sizing, Lighting, General Arrangement and Material take off
- Vendor offers, drawings and client specifications reviews
- Instrumentation engineering and design drafting





CORE DISCIPLINE

1. Structural Engineering
2. Piping and Process Engineering
3. Electrical Engineering
4. Mechanical & HVAC Engineering

- Heat Ventilation and Air Conditioning Calculations by HAP
- Engine Room, Accommodation, Shaker and Mud process room ventilation Design
- Duct sizing and Routing
- Firefighting design



CB-020-MS



CALIBRATION SERVICES



OFFSHORE | ONSHORE | MARINE
OIL & GAS | INDUSTRIAL SERVICES

UAE | INDIA

Ocean Tech Calibrations is a specialized division of **Ocean Tech Solutions** serving Middle East's Offshore, marine & oil gas sector, since 2017.

Being DAC & IAS Accredited with ISO 9001 Certification, Ocean Tech Calibrations stand ahead in the industry as a well-equipped electrical mechanical, instrument and equipment calibration center.

Ocean Tech Calibrations conform to the highest regulatory and audit requirements of various industries like oil Gas, marine & Offshore, heavy industries, water treatment, manufacturing, petrochemicals, construction, steel, cement, F&B, aero etc.

Ocean Tech Calibrations ensures the use of hi tech and modern equipment to keep in pace with international standards and the company take special care in guaranteeing the efficiency of instruments and test equipment, to provide full service in both lab and onsite services.



CALIBRATION



Pressure



Temperature



Electrical



Mass / Balance



Dimension / Linear



Torque



Flow / Valve



Gas



General

COMPETENCY



TURNKEY ENGINEERING
SOLUTIONS



DESIGN
OPTIMISATION



**FAST DELIVERY
TIME**



**20+ YEARS INDUSTRY
EXPERIENCED TEAM**



**300+ SUCCESSFUL
PROJECTS**



PROJECTS

01

New Built Design
for 11MT Bollard Pull
Tug Boat



Gulf Cobla (L.L.C.)
الخليج كوبلا (ل.ل.م.)



02

Engineering for
Mooring upgradation-
West Eclipse / Semi-
Submersible Rig

Seadrill

03

Upgradation for SEA
LION 7/ Jack up Rig



SAIPEM

04

Scrubber design
for Monsoon, Costa
Atlantica / Vessels



HARRIS PYE

A JOULON COMPANY

05

BWTS design for Bigroll
Biscay, CMA CGM
Thalassa / Vessel



AVANTIS

MARINE COMPLIANCE SOLUTIONS



10

Jacking Structure
Analysis for Preload
and Elevated Conditions



06

Pipe Stress Analysis
for fire line of storage
tank farm



07

Stability and Mooring
Calculation for Sagar
Samarat/MOPU



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IMCC Investment L.L.C

08

HVAC Heat Load
Calculation for Engine
Room, Plant and
Accommodation



09

Piping Isometrics for
High and Low Pressure
Lines





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