HEAVY LIFT TRANSPORT ENGINEERING & PROJECT SERVICES



AGENDA

- 1. INTRODUCTION
- 2. ENGINEERING SERVICES
 - a) Marine Heavy Lift and Transport Operations
 - b) Land based Heavy Transport Operations
 - c) Heavy Lifting Operations
 - d) Industrial Relocation
- 3. PROJECT SERVICES
 - a) Project Management
 - b) Planning
 - c) Budgeting
 - d) Surveys and Inspections
- 4. MAJOR PROJECT TRACK RECORDS



INTRODUCTION



- Dextra Engineering team is a dynamic, multidisciplinary, hands on team, consisting of enthusiastic, flexible, young and experienced engineers.
- Problem solvers with practical solutions, creative, initiative and possesses good communication skills.
- A good grasp of fundamental physical laws and mathematics, taking into consideration important factors such as sustainability, efficiency, costs, reliability and safety to satisfy all stakeholders.
- Dedicated to lifelong learning and development to stay up to date with latest technologies.

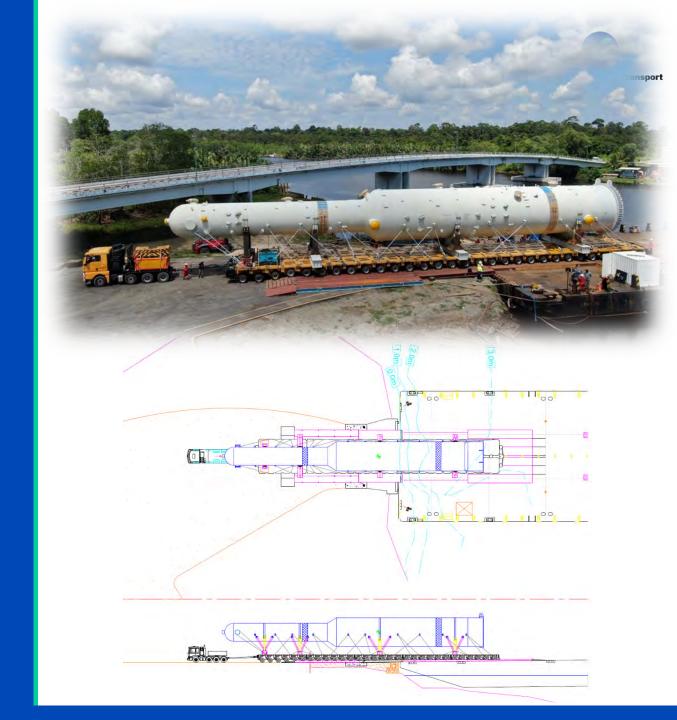






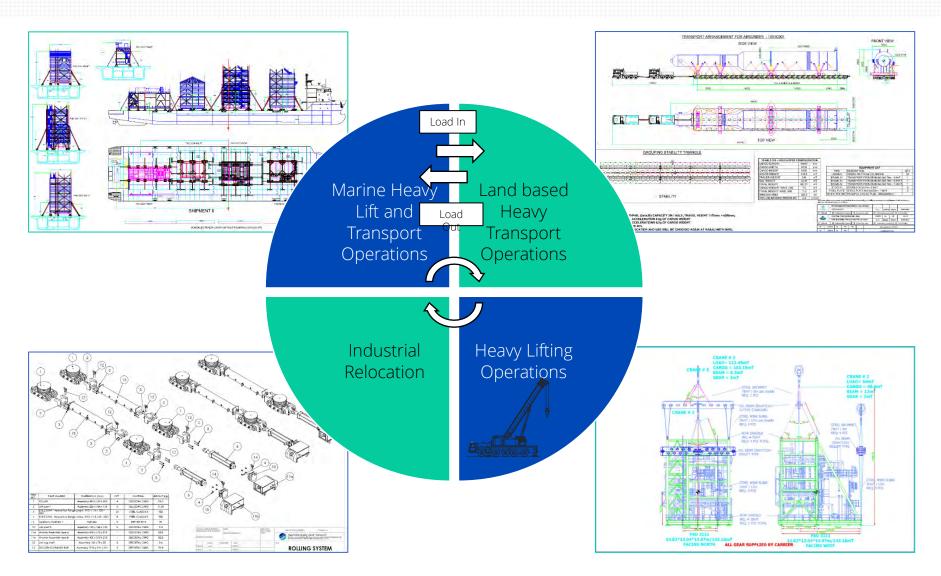
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OVERVIEW

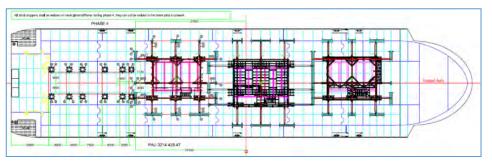


Marine Heavy Lift and Transport Operations



Range of our Marine Heavy Lift and Transport Operations include:

- Motion and seakeeping analysis
- Environmental considerations and restrictions for Sea transport
- Bollard Pull calculations
- Barge and Vessel Stowage Plan
- Hard and Soft Sea-fastening design
- Load staging design (stools, beams, etc)
- Mooring Calculations
- Longitudinal strength assessment



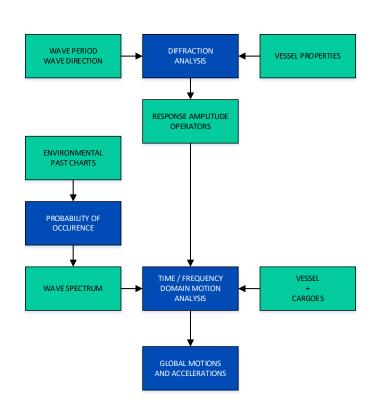


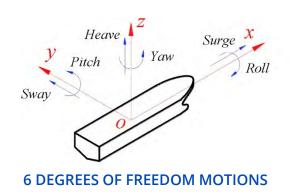


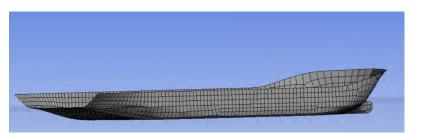
Marine Heavy Lift and Transport Operations

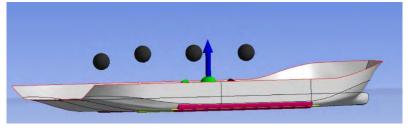


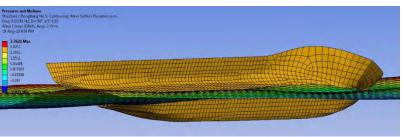
MOTIONS / SEA KEEPING ANALYSIS







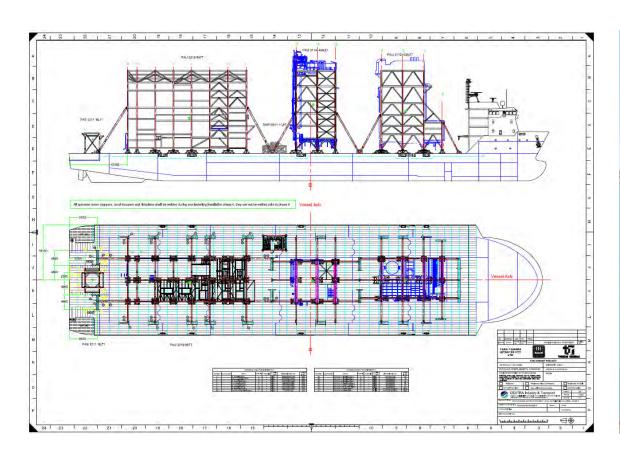




Dextra Transport

Marine Heavy Lift and Transport Operations

BARGE AND VESSEL STOWAGE PLAN:

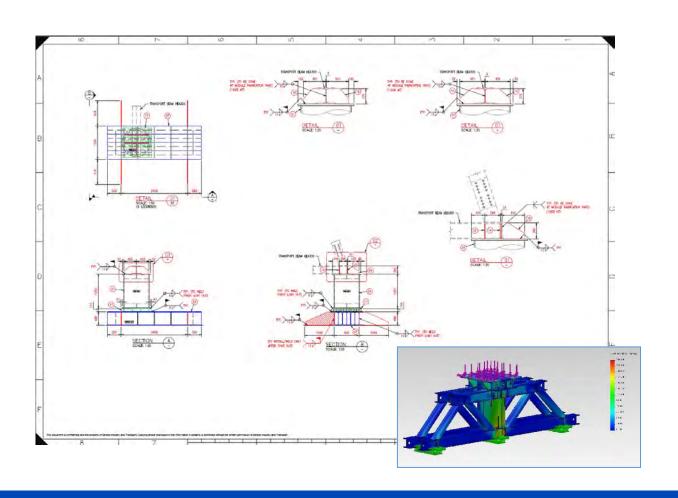




Marine Heavy Lift and Transport Operations



HARD SEAFASTENING DESIGN:

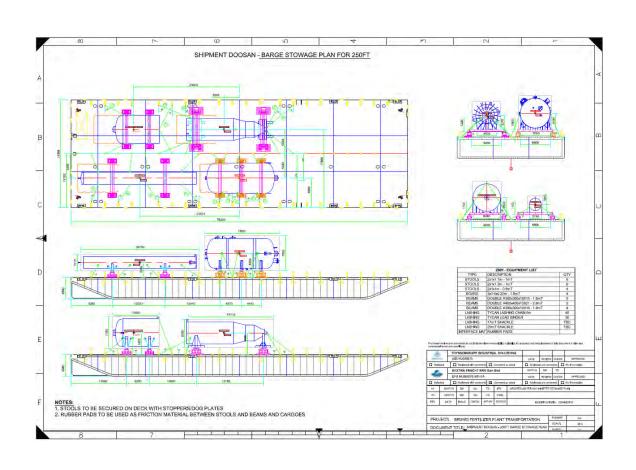




Marine Heavy Lift and Transport Operations



SOFT SEAFASTENING DESIGN:

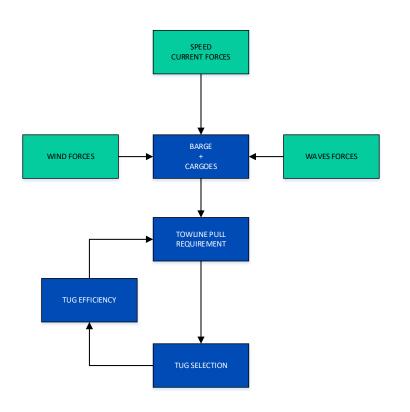




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Marine Heavy Lift and Transport Operations

BOLLARD PULL CALCULATIONS:



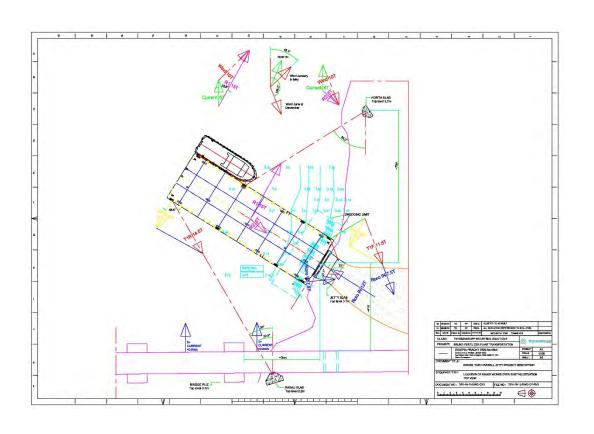


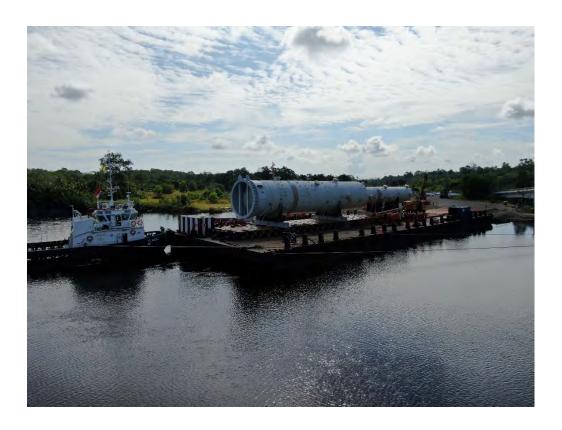




Marine Heavy Lift and Transport Operations

MOORING CALCULATIONS:

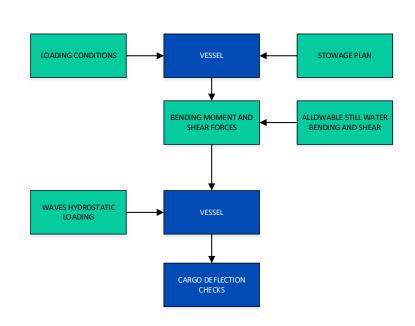


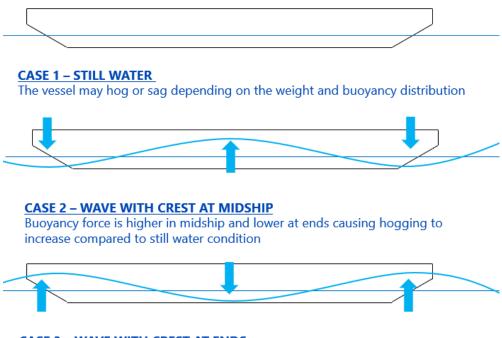




Marine Heavy Lift and Transport Operations

LONGITUDINAL STRENGTH ASSESSMENT / HOGGING SAGGING





CASE 3 – WAVE WITH CREST AT ENDS

Buoyancy force is lower in midship and higher at ends causing sagging to increase compared to still water condition

Land based Heavy Transport Operations



Range of our Land based Heavy Transport Operations include:

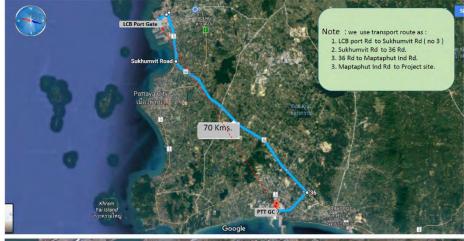
- Transport Survey and feasibility studies
- Transportation studies
- Transportation auxiliary equipment design
- Lashing and stability calculations
- Load In and Load out studies Ballasting
- Jetty Design and Construction
- Bridge Reinforcements



Land based Heavy Transport Operations



ROAD SURVEY:





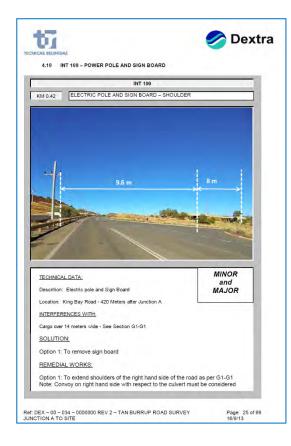


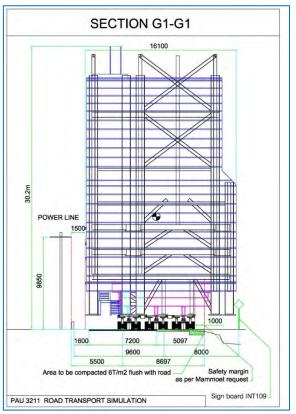


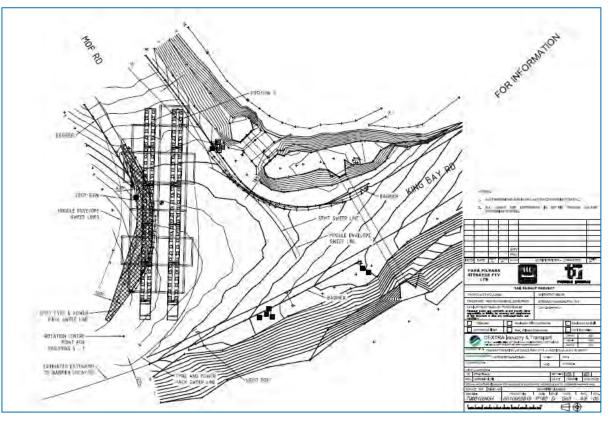
Dextra Transport

Land based Heavy Transport Operations

TRANSPORT FEASIBILITY:



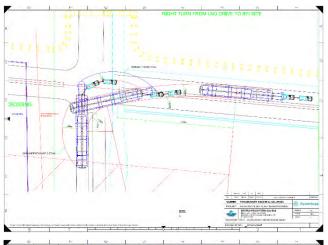


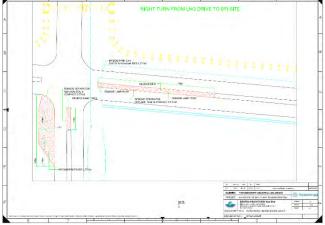


Land based Heavy Transport Operations



TRANSPORT SIMULATION/ROAD WORKS CONVENTIONAL TRAILER:









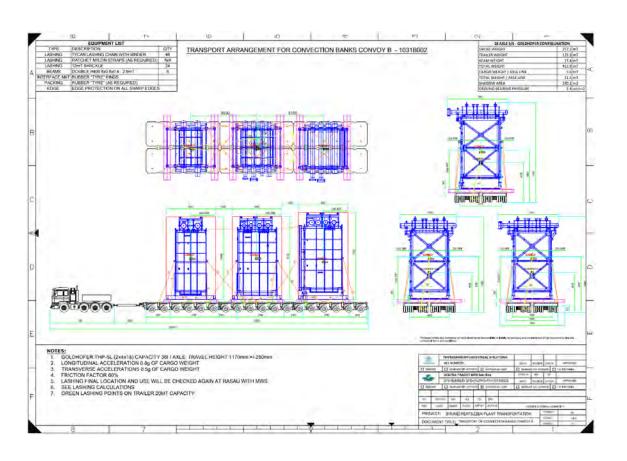




Land based Heavy Transport Operations



TRANSPORT STUDY CONVENTIONAL TRAILER:

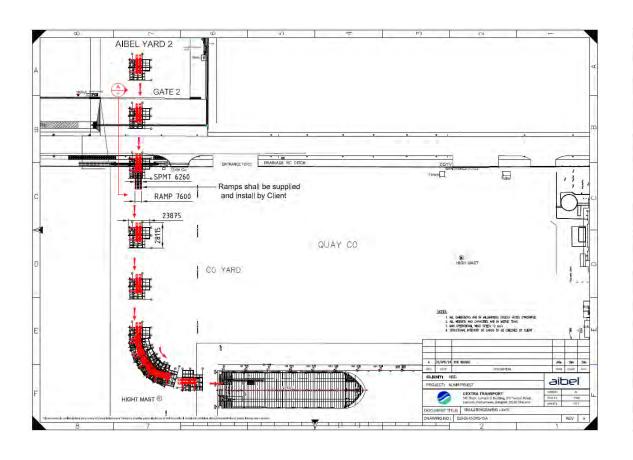


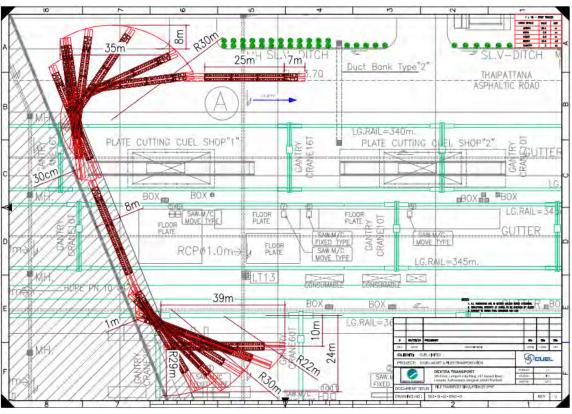




Land based Heavy Transport Operations

TRANSPORT SIMULATION/ROAD WORKS SPMT:

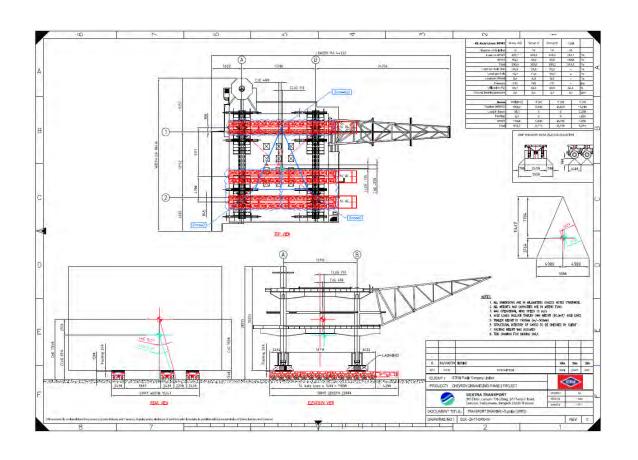


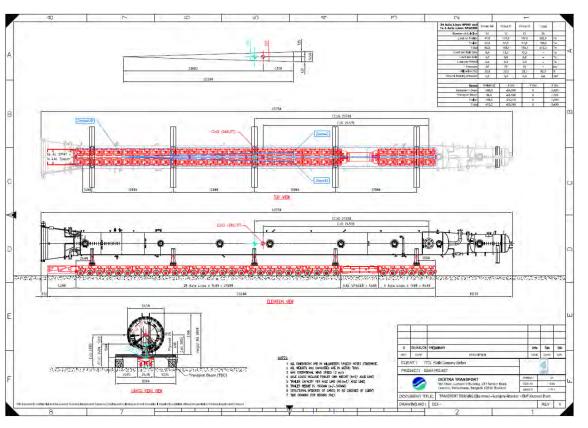


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Land based Heavy Transport Operations

TRANSPORT STUDY SPMT:

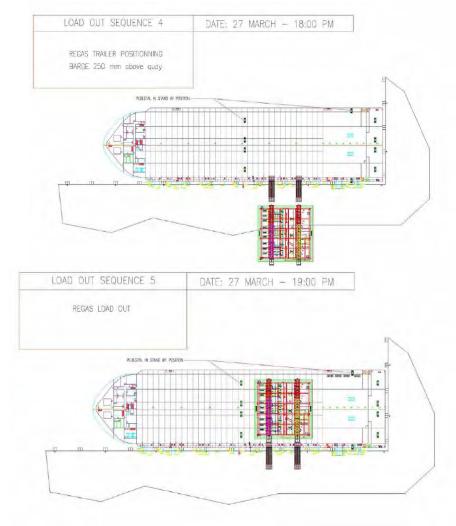




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Land based Heavy Transport Operations

LOAD IN/OUT - BALLAST CALCULATIONS:

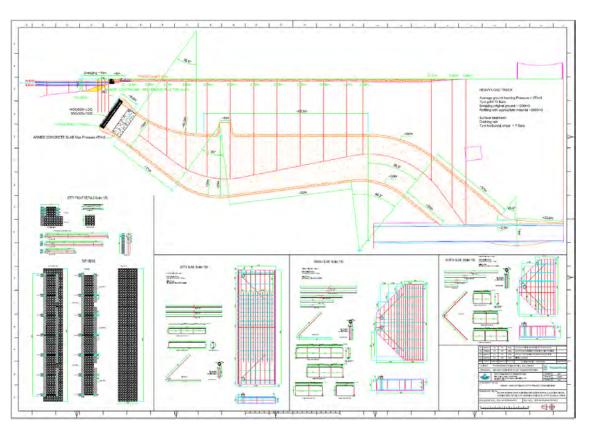




Land based Heavy Transport Operations



JETTY DESIGN/CONSTRUCTION:









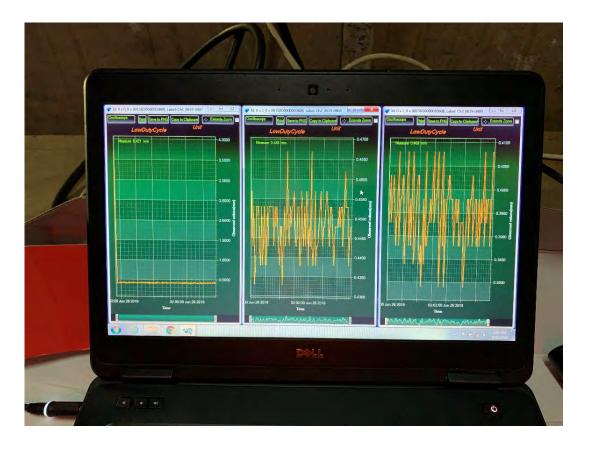


Land based Heavy Transport Operations



BRIDGE REINFORCEMENT WORK AND MONITORING:



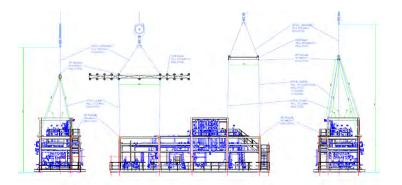


Heavy Lifting Operations



Range of our Lifting services include:

- Onshore and Offshore Lifting
- Lifting equipment selection (mobile crane, crawler crane, ringer crane)
- Single crane, dual crane lift, top and tail Lifting studies
- Construction site lifting consulting
- Rigging and lifting equipment design, selection and inspection (frame, spreader, linkplates, etc)

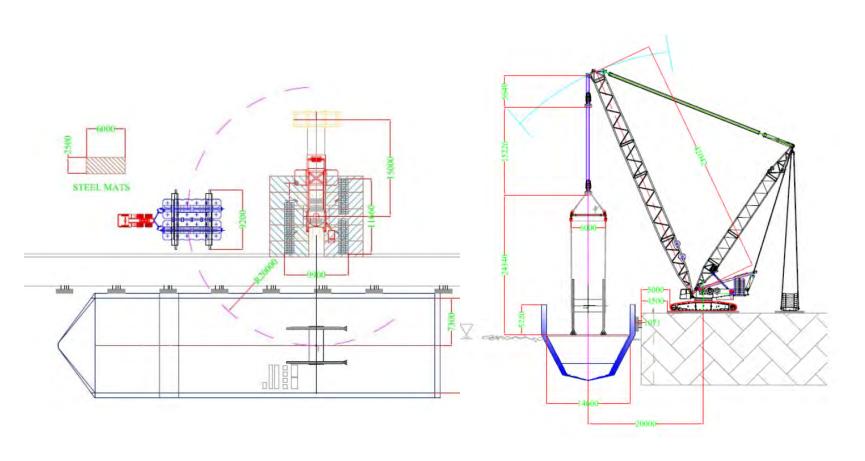




Dextra Transport

Heavy Lifting Operations

CRAWLER CRANE: 168mT Drum



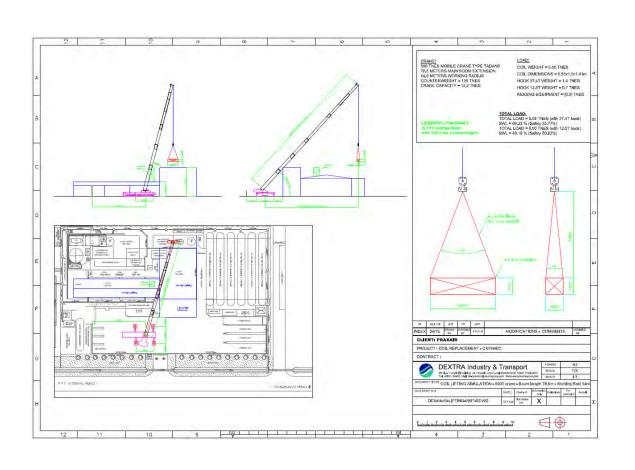




Heavy Lifting Operations



MOBILE CRANE:









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Heavy Lifting Operations

FLOATING CRANE:

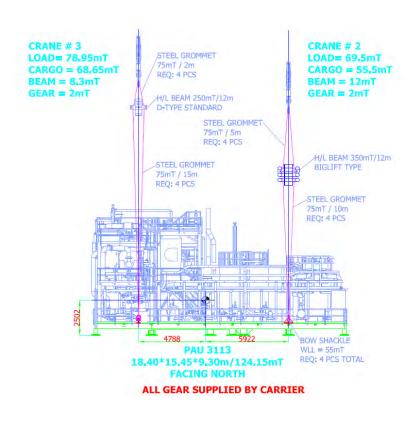




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Heavy Lifting Operations

GEARED VESSEL:

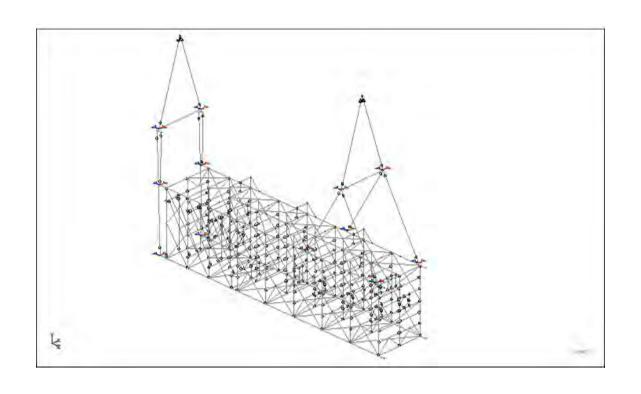


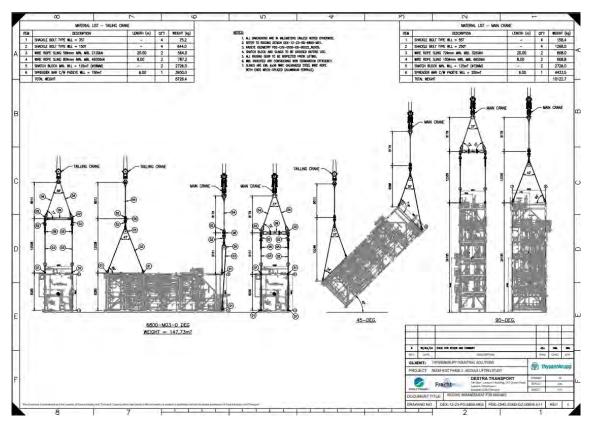


Dextra Transport

LIFTING STUDIES

LIFTING ANALYSIS:

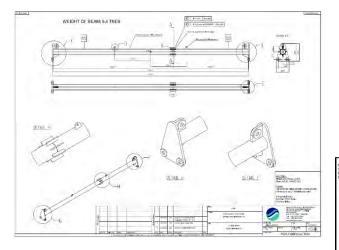


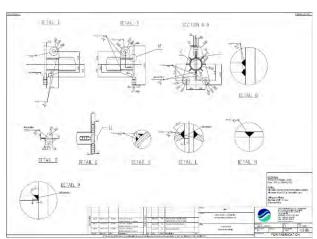


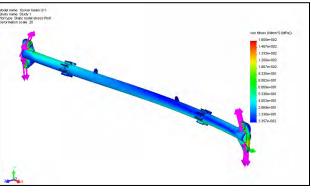
LIFTING STUDIES



LIFTING EQUIPMENT DESIGN:













Other engineering services that we could provide:

- Plant Dismantlement and Relocation
- Packaging and Packing
- Gantry crane study for machinery installation
- Tailor made handling equipment design and fabrication
- Jacking and skidding studies



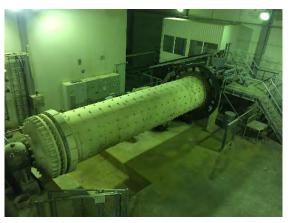




INDUSTRIAL RELOCATION



PLANT DISMANTLEMENT AND RELOCATION:









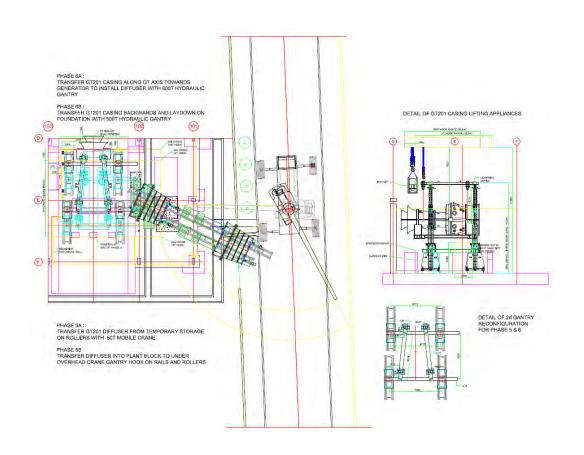


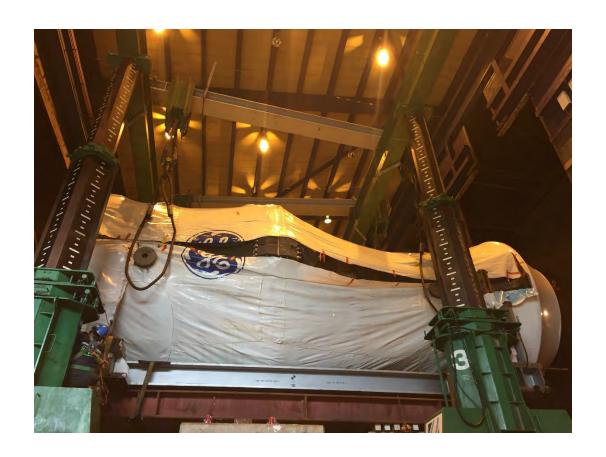






MACHINERY INSTALLATION:

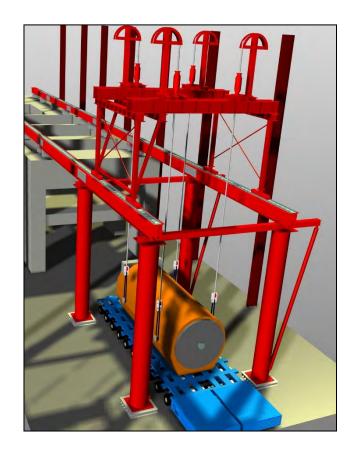




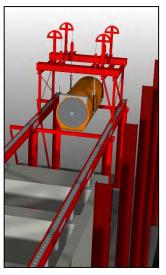
INDUSTRIAL RELOCATION

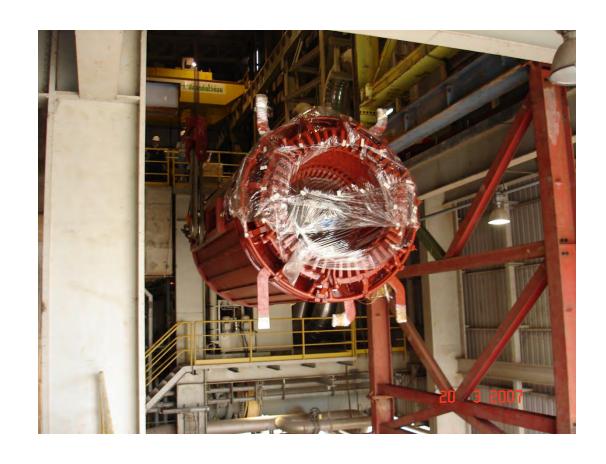


MACHINERY INSTALLATION:





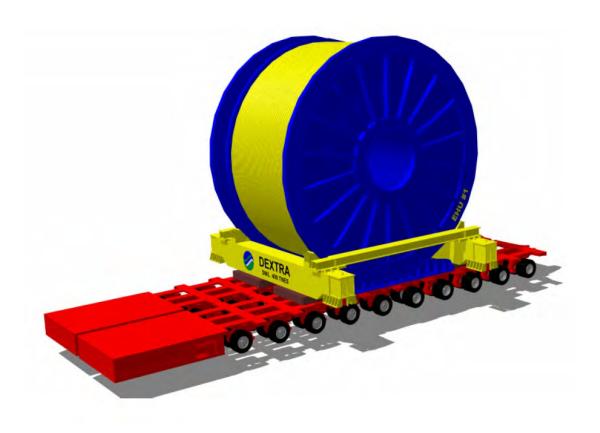




INDUSTRIAL RELOCATION



HANDLING EQUIPMENT:





INDUSTRIAL RELOCATION

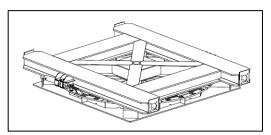


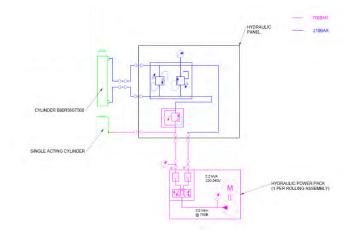
HANDLING EQUIPMENT:

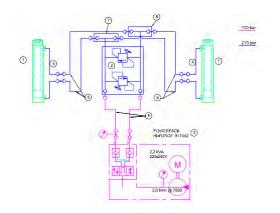
Rolling System



Turntable









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Project Management



Dextra Engineering team can provide Project Management Services specialized in Heavy Lift and Transport projects Worldwide including but not limited to:

- Early Involvement, leading kickoff meetings
- Project preparations phase, equipment and personnel selection and assessment
- Execution phase, ensure operations will be done as per engineered studies and Method Statements
- Completion and handover to client
- Evaluation and close out, lessons learned session





Planning

Our team can support you efficiently during bidding and/or project execution on the planning aspects of your Project or partial scopes

- Identify the project objectives
- Present clear deliverables and deadlines to Project Team
- Provide detailed Project schedule, advise on equipment and personnel needs and numbers
- Define roles and responsibilities amongst the Project Team
- Use the right Processes and Systems to monitor and manage the Project





Budgeting

Our team has the skills to provide an accurate Project Budget with clear cost centers identified and recommendations for savings

- Investigate resource information and follow Project Policies
- Forecasting the price of the complete project with a defined scope, clearly showing estimates basis
- Regularly reporting to Management to identify changes and potential budget risks using simple and easy one view sheets
- Measure Project performance based on expense, progress and commitments



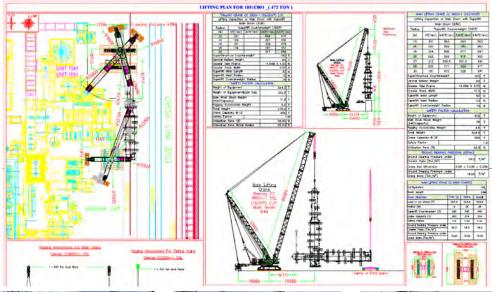
Surveys/Inspections and Consultancies



Our team has the skills and flexibility to bridge the engineering and the operations by:

- Design and manufacturing consultancy to ensure cargo suitability for intended transport
- Shipment planning and Preloading surveys
- Cargo Inspection damage and reports
- Marine assets survey and control of documentation and certificates
- Installation Supervision; verify, review and approve installation plans e.g. lifting- and rigging studies
- Two of our staff are Qualified Lloyd's Maritime Academy Marine Surveyors











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MAJOR PROJECT TRACK RECORDS



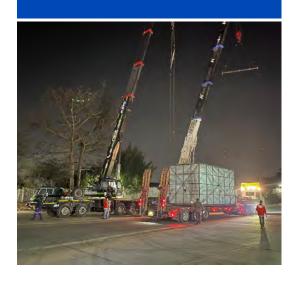




CRISP Package B & C
Tecnicas Reunidas
22 shipments of furnaces
& Modules (up to 4300mT)
Thailand to Singapore



Due Care Removal
General Motors
Transfer of engine block
and production lines
Thailand to Brazil



MAJOR PROJECT TRACK RECORDS





RAPID package 3
Tecnicas Reunidas
Crossover ducts hydrogen production facility
Malaysia



Gas Turbine outage
EGAT / General Electric
Gas Turbine casings
installation
Thailand

Tan Burrup Project

Tecnicas Reunidas

Numerous sea/land module shipments (up to 800mT)

Indonesia to Western Australia



ARTHIT Project

CO2 separator offshore modules

Thailand



PROJECT TRACK RECORDS





AAC factory dismantlement

Remote Group

1250mT of equipment to be dismantled and pack in containers

Latvia



Apache Reel Umbilical

JDR Cables

Numerous sea/land drums shipments

Thailand

Brunei Fertilizer Project

thyssenkrupp Industrial Solutions

Transshipments of project equipment (300,000 freight tons)

Brunei



Lekas LNG Regasification
Aibel / Petronas
900mT module Load in
Thailand



PROJECT TRACK RECORDS





MTB HP JV
Toyothai
Columns Transport
Korea



Bang Pakong Combined Cycle

Vogt Power

Superheaters shipments

Thailand

NPS- Thatoom

Alstom

Stators Swap

Thailand



Cracker Project

MOC

Project Equipment Shipments

Japan / Thailand





Thank you

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