

# Lam Heng Group of Companies

MARINE . OFFSHORE . OIL & GAS . DREDGING



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# Company Background

Lam Heng Group of Companies has been in the marine and offshore engineering business for almost 45 years. Our business has been growing steadily since incorporation.

We had established a track record in engineering services focused on offering fair and competitive prices, with high quality service and packaged with pragmatic solution.

With the experience and knowledge accumulated from serving a diverse range of engineering industries which include marine and offshore, petro-chemical, process plant construction, quarry and mining, semi-conductor and pharmaceutical, we are now position our collective strengths and facilities to serve those industries with prerequisite condition for heavy, time-demanding and stringent specification as in the Marine, Offshore, Dredging, and Plant Engineering Industry.

The focus of Lam Heng Group is on the niche of the engineering services markets that requires competent project management knowledge, special skills and hands-on experience with positive attitude to handle sophisticated machinery and equipment fabrication and assemble, on- site installation and commissioning project.

## Members Company:

- Lam Heng Marine Pte Ltd
- Lam Heng Technologies Pte Ltd
- Lam Heng Marine Engineering Pte Ltd
- Lam Heng Marine (Nantong) Pte Ltd (China)
- LHM Europe Hydraulic & Engineering B.V. (The Netherlands)



## Business Philosophy

- With the variety of hardware and software throughout the whole project value chain, we will be the final person to execute the delivery of integrated and pragmatic solution to our customer.
- We value-added by integrate and interface all the technologies together as customers need the competency and specialist from the synergy created within our member companies.
- Our collective experience and knowledge enable us to interface system seamlessly, and by outsourcing to our reliable services, our customer can enjoy the turnkey benefit and focus on their core business activity without worry.

## Business Model

- **Bridging & Integration Platform**  
Using Singapore as an integration platform for bridging the Western and Eastern strengths in term of advance technologies and lower business cost, armed with our Singapore proven management and business model for diverse languages and cultures, our competence management and experience staffs by using their core expertise to fulfill the demand from our business partners.
- **Win-Win Approach**  
We are always working in such a way to treat our customer as our partner to share the information and ideals, therefore enable us to offer and execute a pragmatic solution for on time delivery, competitive price, reliable quality with recognized class and confidential knowledge protection.

## Our Vision

Be a strategic partner to our customer in the marine, oil & gas, dredging, and plant engineering industry by providing and delivery of pragmatic engineering solutions for on time completion with competitive price and safety commitment.

## Our Mission

**For Customer:** We are committed to provide Total Quality Service with respect to product and service quality, customer support and value-added service.

**For Employees:** We are committed to focus on our people's skill and career development to meet the challenges of technological demands in the knowledge-based economy.

**For Suppliers:** We are committed to collaborate and integrate with our suppliers as our partner in providing high quality engineering services, by maintaining the highest level of integrity, direct and effective communication.

**For Shareholders:** We are committed to generate economic value to our shareholders through organic and sustainable growth for their prudent investment.



## Our Quality Policy

- Preference partner in provision of efficient, fast, & reliable services
- Always meeting customer expectations in terms of **Quality & Timely Delivery**

We are committed to strive at all times, to understand and serve our valued customers by providing highest standard of value-added works efficiently that meet their needs, and work towards continuously improving on the effectiveness of the quality management system and meets any applicable statutory and regulatory requirements.

## Our HSE Commitment

We are dedicated to continuous efforts in our operations compatible with protecting people, property, and the environment and committed to maintaining a healthy and safe operating atmosphere to its customers, employees, suppliers and the environment.

As far as reasonably practical, it is our goal to establish HSE responsibility and accountability at every level of our organization, on the global basis, we are committed to achieving health, safety and environmental excellence in all of our business practices and operations.

## Our Shared Value: The “4T” Culture

**Technology:** Passion in technological evolution inspires innovation.

**Training:** Passion in continuous skill development inspires life-long learning.

**Teamwork:** Passion in collective strength inspires synergy.

**Trust:** Passion in mutual respect inspires shared value.

### ➤ Offshore and Dredging Equipment

- Complete range of machining and fabricating workshop facilities for marine , offshore, oil & gas, and dredging industries, heavy weight and large size components and structures in turning, milling, boring, slotting, gear-cutting, plasma-cutting, plate and section bending and rolling.



### ➤ On-site Precision Machining and Laser Alignment & Dimensional Survey

- Complete in-situ machining solutions provider in line-boring, flange facing, track milling and machinery skid mounting levelling, with 3D laser alignment check and dimensional survey.



### ➤ Hydraulic Equipment & Component : Supplier, Services & Repair(In-house & Field)

- Equipment Repair and Servicing with in-house testing facilities
- System Troubleshooting and Commissioning : In-house and field service
- Supplier and Importer of components, spare parts, and seal kits for the following brands:

- |                         |                |               |
|-------------------------|----------------|---------------|
| ✓ Parker                | ✓ Hydromatik   | ✓ Denison     |
| ✓ EATON                 | ✓ Brueninghaus | ✓ Caterpillar |
| ✓ Vickers               | ✓ Sundstrand   | ✓ Hitachi     |
| ✓ Sauer Danfloss Daikin | ✓ Kawasaki     | ✓ Liebherr    |
| ✓ Rexroth               | ✓ Komatsu      | ✓ Volvo       |

#### • Hydraulic Pump

- ✓ Rotary Pump : 180 bar ~ 300 bar
- ✓ Gear Pump : 200 bar
- ✓ Piston Pump : up to 650 bar
- ✓ Screw Pump : high flow ~ low pressure (max 100 bar)
- ✓ Bent Axis Pump : 350 bar ~ 420 bar

#### • Hydraulic Motor

- ✓ Gear and Vane Motor
- ✓ Generator Motor
- ✓ Axial Plunger Motor
- ✓ Radial Piston Motor

#### • Hydraulic Valve

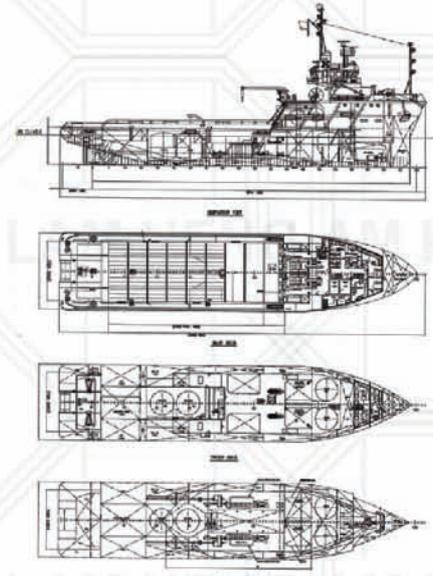
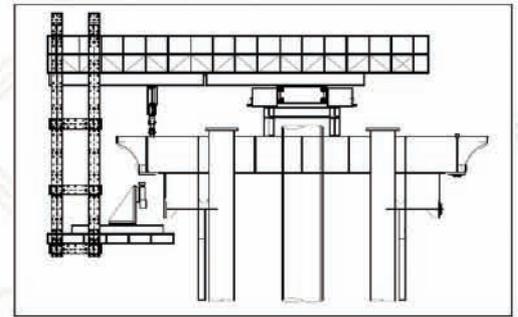
- ✓ Pressure Hydraulic Valve
- ✓ Flow Control Hydraulic Valve
- ✓ Direction Hydraulic Valve (Directional Control Valve)

#### • Hydraulic Cylinder & Accumulator, power packs



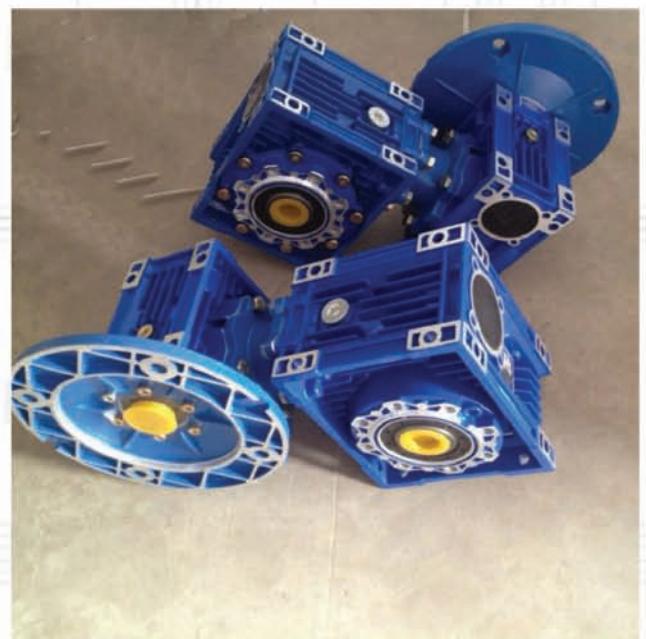
## ➤ Marine Project Management

- Design and Engineering
  - ✓ Feasibility Studies
  - ✓ Preliminary and Detailed Engineering Design and Analysis
  - ✓ Detailed Reports for Classification Society Approvals
- New Build
  - ✓ Marine & Offshore new building project supervision and management, including equipment procurement, inspection, commissioning and after-sales services.
- Special Repair and Conversion



## ➤ Marine Hardware, Component and Fittings Supplier (Customized & Standard Model)

- Marine Equipment Supply
  - ✓ Marine Elevator
  - ✓ Level Gauging System
  - ✓ Deck Machinery & Winch and Windlass
  - ✓ Deck cranes
  - ✓ Rudder & Rudder Stock
  - ✓ Propeller and Shaft
  - ✓ Marine Valves and Fittings
- Marine Hardware Supply
  - ✓ High grade Bolt, Nut, and Fastener
  - ✓ Ship Plate and Structure Profiles
  - ✓ Bearing and Seals





Collective Strength - Simplicity Solution

## Engineering collaboration with DRIE-D from the Netherlands

With both our extensive experience in the marine and offshore industry, means we could offer you the most optimum bearing and friction solutions, as well as deliver it to meet your operational and economical demands.

Our main activities are centered on friction and wear.

We understand the importance of the reliability and predictability of bearings and creating an efficient design fit for the harshest, corrosive and aggressive environments, for the most demanding bearing applications using our D-glide family of composite bearing materials. For the friction market segment, we hold an extensive stock of sheet and roll material in all sizes and of finished blocks and facings for many popular brake and clutch brands, as well as offering the renewal and replacement service to give you a one-stop solutions for all your brake and clutch issues.

## Main Properties of D-Glide Bearings

- Maintenance Free
- Low friction values
- Stable in all environments
- Standard or tailor-made
- Extensive reference list
- High allowable loads
- Low wear rates
- Electrically insulating
- Counter-face friendly
- DNV approval

## When should I consider using special composite D-Glide bearings?

Heavy loads, linear motions, lubrication difficult or not desirable, humid or aggressive environment, unusual dimensions, need for increased life time or reliability, lower wear rates or friction values.

## D-Glide Bearings Solutions

The D-glide family is a series of modern composite bearing materials that all consist of a combination of modern synthetic fibres and resins. They are being produced according to the latest technology. The D-glide P, F and FC qualities contain, amongst other ingredients, PTFE. This has resulted in friction values for these materials that are on an unequalled low level, compared with other plastic bearing materials as well as with respect to conventional lubricated plain bearings.

A major advantage of composite bearings in general, is that they in most cases do not need lubrication, this usually means though, that concessions need to be made to the lifetime.

By using the latest generation of synthetic fibres, resins and additives, this results in D-glide bearings that can operate in most applications without any form of maintenance. Bearings that allow the highest loads, with low to ultra-low wear rates and friction values—bearings that are resistant to almost everything, immersed in water or dry and anywhere in between and from arctic to tropical conditions. Bearings that are environmentally friendly, both in production and use.



## Break and Clutch Solutions

We supply our own brand of asbestos free woven brake lining and we represent some of the world's leading friction material manufacturers. DRIE-D for example represents the Honeywell Allied Signal subsidiary JURID for their industry and railway brake linings. We hold an extensive stock of sheet and roll material in all sizes and of finished blocks and facings for many popular brake and clutch brands. This enables us to ship 99 percent of our orders the same day.

Besides this we have one of the most modern friction repair shops in the country where all brake related work is being carried. Our large oven is big enough to vulcanize all linings that normally are vulcanized. We also rivet or bolt brake linings to their backings if there are good reasons to do so and if customers prefer to do this themselves we can also provide the special bolts or rivets.

With our machining equipment we can make frictions rings in all current diameters and we are very good at refurbishing friction cones.



## Port Equipment Solutions

Reduction of maintenance and down time always was and always will be a major goal for any port operation. Components break down because of design flaws, insufficient lubrications, less than optimum material choice or simply because the conditions and usage are more severe than foreseen. DRIE-D cannot change operating conditions but everything else falls within our area of expertise.





Collective Strength - Simplicity Solution



THE FASTEST IN GEARBOX REPAIR

## Service collaboration with STORK Gears from Netherlands

With both sharing the hallmark of down-time fighter in the market, our strategic partnership in service collaboration will enhance the capability of optimal service time with reliable quality for STORK Gears & Services in the South-East Asia and East Asia region.

STORK Gears & Services is part of the technical services division of STORK B.V. and is a specialised repair company with a huge amount of expertise in gearboxes and gear technology.

STORK Gears & Services is fully geared to manufacture, repair and modify gearboxes, gears and related components for all makes and types of gearboxes.

Lam Heng Group are able to support STORK in term of fully and comprehensively equipped engineering workshop facilities, competent and dedicated tradesmen and supporting crews for workshop and field services, as well as the experience and engineering know-how to work seamlessly with all parties involved, to ensure a total satisfied customer's experience.

We have customers in the following market segments:

➤ **Storage and transshipment companies:**

- Hoisting and closing work gearboxes
- Stacker/Reclaimer gearboxes
- Conveyor belt drives
- Ship to Shore crane gearboxes
- RTG crane gearboxes



➤ **Petrochemical Industry/Offshore:**

- Extruder drives
- Mixers/Agitators
- Blower
- Compressor drives
- Generator drives
- FiFi gearboxes



➤ **Shipping:**

- Forward propulsion gearboxes
- Generator drives
- Sandpump gearboxes
- Winches
- Bow propellers
- Azimuth thrusters



➤ **FPSO / Jackup barge:**

- Topside generator gearboxes
- (Turbo) Compressor gearboxes
- Ballast and loading pump gearboxes
- Azimuth thruster gearboxes
- Jackup gearboxes

➤ **Steel Industry:**

- Roller work drives
- Hoisting winch drives
- Loading crane drives
- Tipping chair drives
- Edge and crest roller gearboxes



➤ **Energy Companies:**

- Wind turbines
- Coal mills
- Hydro electric stations
- Total power stations
- Exhaust gas cleaning installation
- Boiler feed water pump drives

# Offshore & Dredging Equipment Fabrication



**Fabrication of Hoisting & Holding Clamps**



**Fabrication and Casting of Swivel Bend**



**Fabrication of Sea Water Tank**



**Fabrication of Piling Sleeve and Support Beam Clamp**



**Fabrication of Lifting Clamp and Anchor Clamp**



**Complete Fabrication of Offshore Drilling Equipment (Riser Fingerboard) with Installation and Hook-Up Service**

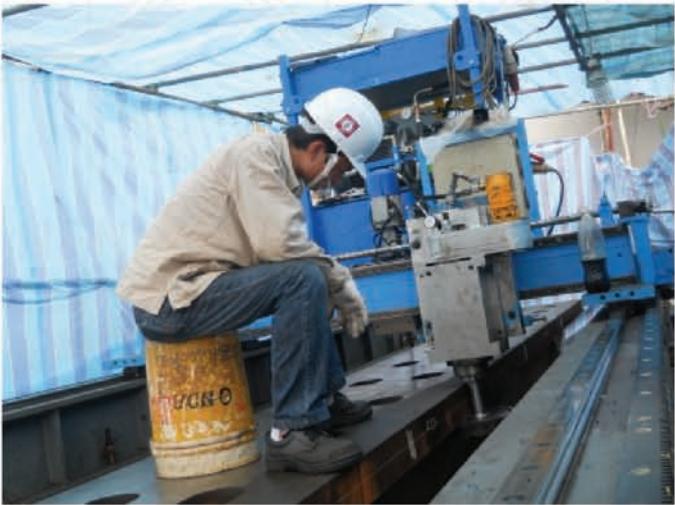
# On-site Precision Machining and Laser Alignment & Dimensional Survey



**On-site Machining of Turret Shaft and Caisson**



**Laser alignment using Total Station**



**On-site Milling of 42m Cantilever Skidding Beam**



**On-site Machining of Crane Pedestal**



**On-site Milling and Boring of Traveling Cradle**

# Hydraulic Equipment & Component Services & Repair



**On-board installation and testing of hydraulic controlled system**



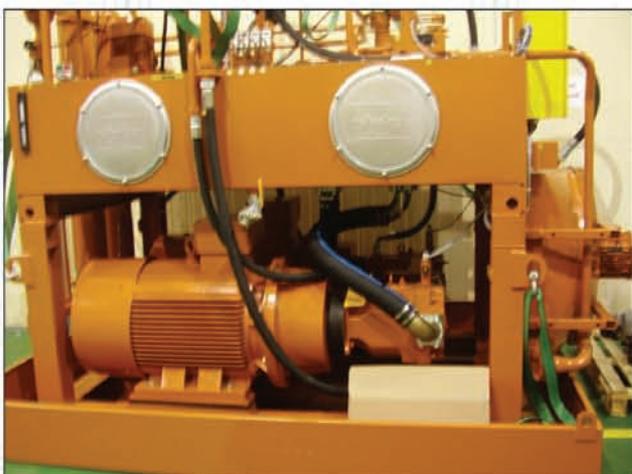
**On-board testing & commissioning of dredging system**



**Overhaul of hydraulic component (e.g. Motor, pump, and cylinder)**



**Supply of component (e.g. Motor, pump, and valve)**



**Construct and fabricate power pack**



**Design, configure, and construct of hydraulic power pack and equipment**

# Marine Project Management



**New construction project**



**New construction project**



**New construction project**



**Conversion and modification project for new deck crane with ABS Certification**



**Special project for design and build of transportation equipment**



**Special project for thruster installation supervision in China shipyard**

# Marine Hardware, Component and Fittings Supplier



**Casting for Elbow**



**Multi-Basket Strainer**



**Cast Iron and Steel Valves**



**Sea Water Strainer**



**Level Gauge**



**Strainer**



**Dresser Coupling**



**Level Gauge**



**Duplex Strainer**



**Casting for Pump Casing**



**White Cast Iron**

# Watershed Project List for Last 3 Years

- **Customer:** Keppel Nantong Shipyard - Asian Hercules III 5000 ton Sheerleg Floating Crane
- **Owner:** Asian Lift Pte Ltd
  - **Scope of Work :** On-site machining project with laser dimensional survey on Guide Track, Travelling Cradle, and A-Frame
  - **Duration :** April 2013 - April 2014
  - **Highlight of Project**
    - ✓ First full scale on-site machining project in China shipyard, involved own logistic arrangement and direct manage a team of local supervisors, machinists, and supporting crews to complete the project within schedule, costing, safety records, and technical specification.
    - ✓ In view of smooth execution of project planning, we are treating ourselves as a working partner for the yard by working closely with the yard's engineering team on the technical feasibility solution during hull fabrication and erection, base on owner's specification.



# Watershed Project List for Last 3 Years

- **Customer: Keppel Shipyard - FPSO C7 (Albany)**
- **Owner: Bumi Armada Berhad**
  - **Scope of Work :** On-site Machining of Turret Shaft and Caisson
  - **Duration :** March 2014 - August 2014
  - **Highlight of Project**
    - ✓ Breaking through into the FPSO turret machining segment as an endorsement to our reliability in terms of technical capability, quality standard, competitive pricing, and safety records.
    - ✓ Fully in-house engineering design and build all required machinery completed with fixtures and structures weighing about 30 tons for each machine, as to provide an innovative on-site machining solution to meet technical specification, on-site situation, and project planning.

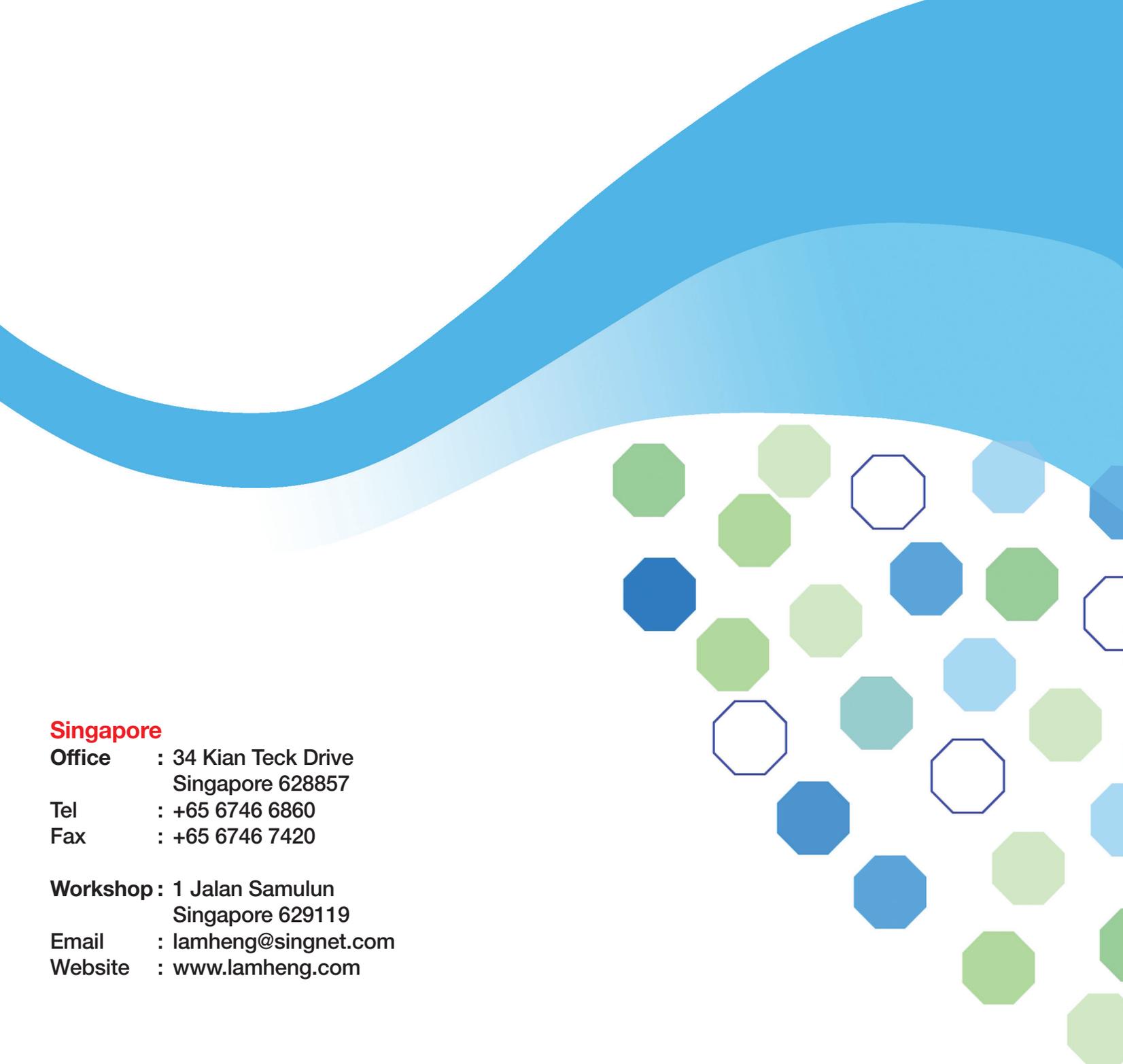


- **Customer: Keppel Singmarine Pte Ltd - H381 180mL Pipelay Vessel**
- **Owner: McDermott International, Inc.**
  - **Scope of Work :** On-site machining on thruster foundation, tensioner foundation, Retractable Pipe Support 60 Ton Foundation, Level Winder Foundation, Pipe Lay Equipment Foundation ILUC Winch
  - **Duration :** June 2014 - Schedule completed mid of 2015
  - **Highlight of Project**
    - ✓ Full suite of on-site machining capability, inclusive boring, milling, flange-facing, drilling, tapping, and on-site dimensional control and survey work plan.
    - ✓ As we always being a reliable project partner, we coordinate closely with yard project team to cater of the dynamic changes at site due to variation of project planning and revision.





**Collective Strength. Simplicity Solution**



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