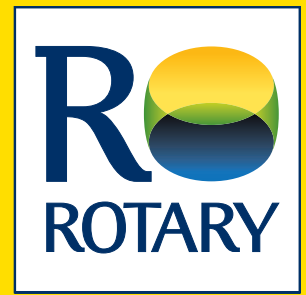


Smart thinking. Safe hands.



TANKAGE



ROTARY-THAI CONSTRUCTION PRIVATE LIMITED

Exemplary History, Uncompromising Solutions

At A Glance

Established in year 2005, **Rotary-Thai Construction Pte Ltd (RTC)** is a leading engineering, procurement and construction (**EPC**) company specializing in the bulk storage terminal projects for the petrochemical, pharmaceutical and oil & gas industries primarily in Singapore. In addition, we are also capable for tank repair and maintenance works for existing plants, terminals and refineries.

Our Vision and Mission

Through professionalism, experience and training, we are committed to policies of safety, quality and productivity (SQP) excellence. And with continuous improvement and innovation, we aim to satisfy the needs of our clients in an ever-changing market.

On top of having the dedication to deliver work of high quality within the stipulated time together with cost effectiveness, we also strive to create a safer and healthier project environment for the benefits of everyone while protecting the natural environment at the same time, all so to ensure that the actions we take today will make tomorrow a better place.

Our mission is clear: to provide quality services that consistently meets our client's needs and expectations through excellence in our operations.

Background

RTC was established in August 2005 as one of the business units representing the Singapore registered parent company, **Rotary Engineering Limited (REL)**, responsible for all tank construction, repairs and maintenance works in both Singapore and overseas market.

REL is one of the region's largest engineering, procurement, construction and maintenance (EPCM) partner to the oil and gas, petrochemical, petroleum and pharmaceutical industries, and was listed on the Main Board of Singapore Exchange since July 1993.

Our RTC impressive portfolio of completed projects is testament to our clients' confidence in us both as an organization that can deliver, and in our all-encompassing EPC solutions for tank construction and repair works. At RTC, it is clear that our clients come first. We seek to partner them through our customized solutions, with the ultimate aim to ensure success in our partnership.

We primarily use our own in-house construction teams making up of only RTC employees so as to maintain complete control and responsibility over our work. As quality and control are paramount, we always had our employees be properly trained in order to meet expectations required of them. And by harnessing traditional knowledge and combining this with innovative alternatives, our solutions utilize technology, tried and tested systems and economically priced materials. Material wastage is reduced, space and land usage is optimized, and costs are kept in check.

With pride and dedication, we will continue to provide unrivalled project management, intelligent solution implementation and extensive support to all our clients region wide.

Our Rotary logo – “**Smart thinking. Safe hands.**” clearly and simply equate to solutions that are intelligent, innovative and reliable. RTC stands for outstanding services and safe construction. Our clients know that they are in the right hands.

Global Workforce

Ready, Anytime, Anywhere



We have projects around the regions so we need to be able to mobilize the right people to where they are needed with great speed and at highest efficiency level.

Our Rotary Group Global Work Force (GWF) scheme allows us to do just that. Through GWF, our own team of engineers and craftsmen are readily deployed anywhere in the region and whom are able to attune to the Rotary Group brand of service delivery. To date, we have trained over 1,000 employees to levels of high skills proficiency and it's our clients who are benefiting from this growing workforce of technical experts.

We build smart teams.

Information Technology

Smart Tools, Smart Designs



When it comes to harnessing technology in our processes, we use the best available in the market because we believe in working smart. One such technology is the 3D modeling which we can bring our designs to life in 3D right from the drawing board, so you can visualize exactly what the finished site or product will look like.

We also harness SAP solutions to effectively manage all our project processes, both in aspects of project management and financial processes. With this, we are able to remain responsive to changes in project scope, costs, risks and schedules.

Working smart is our business.

Expertise

We know what works



We understand that in your industry, time is money. This is where our decades of experience in designing and constructing including repair and maintenance of bulk liquid and gas storage facilities differentiate us.

Our expertise starts from planning, unique Construction Work Instruction (CWI), optimization in layout & tank configuration, and execution of customized construction techniques for local regulatory and climatic conditions. All so to provide practical & effective solutions to your operational needs at reduced lead time.

It's all down to smart planning.



Safety & Quality

It's always people first



At RTC, we care for our people. That's why we insist on the most stringent of safety processes at every stage of production, on and off site. By employing our people on a direct basis and sending them to safety training courses regularly, we are able to better control work quality in a safe working environment. We commit to the highest standards of regulatory practices, because protecting our client's people and assets are our top priority.

Our people know that it's smart to work safe.



Engineering

Perfection is in the details



At RTC, we believe that the key lies in setting a firm foundation. And in our scope of services, foundation is laid at the design phase. Here we have it planned and drawn to perfection, thanks to our elite team of multi-disciplined engineers at Rotary Group. And these work disciplines includes: process/chemical, civil and structural, mechanical, piping, tankage, electrical and instrumentation engineering.

With the support of our Rotary Group other design centres in India and Thailand, our engineering team lays the foundation for each outstanding project that bears our mark of safety and quality.

More than 200 multi-disciplined design engineers within Rotary Group.

Procurement & Logistics

We are well connected



Our depth of presence in the industry over the years has meant that we have built up a vast network of trusted suppliers with reliable products. As a result, you benefit from the cost savings we enjoy through bulk procurement. And because our expeditors keep a very tight watch on schedules, you can be assured that materials will arrive on time.

With RTC by your side, gone are the days when late delivery of suppliers delay completion of your projects. It is often our clients who set their own budgets, brief us on the brand and quality of materials preferred. We ensure we stick to specifications and keep things within parameters – because we can.

Because we are connected, you are too.



Tankage

Customized Storage Specialized Solutions

RTC has a proven track record of providing turnkey EPC solutions in the fields of bulk liquid storage terminals, tank farms, offsite and utilities for refineries and petrochemical plants. In short, we know precisely what it takes when it comes to designing and constructing tanks for bulk liquid storage. Our tankage capabilities include full EPC tankage solutions, prefabrication of tank plates, spiral staircases, tank bridges, accessories and appurtenances. In addition, we are also capable for tank repair and maintenance works.

Our capabilities extends to all tank types including spherical, double-walled low temperature, cone roof, dome roof and floating roof tanks.

To be time and cost effective during the construction process, we also utilize mechanization and automation such as automated vertical and horizontal welding machines to enhance productivity and assuring quality output.

We are tank erection and repair specialists of API 650 & API 620 standards and hold ISO 9001:2008, ISO 14001:2014 and OHSAS 18001:2007 certifications.

We are in the approved vendor listing for most of the oil majors and plant operators and owners.

Fabrication

Making sure the pieces fit

We fabricate tank plates, structures and tank appurtenance, and supply them directly to site for easy integration into your construction project. And depending on the sizes of the tanks, we do complete tank fabrication work including painting, insulation and deliver to site for direct installation.

Spanning over a combined total of more than 200,000 sqm of shop spaces in Singapore, Batam and Thailand, and with a monthly production capacity of thousands ton of steel work, our fabrication facilities are strategically positioned to enable us to deliver quality, prefabricated structures to your site in Singapore and overseas, on time and within budget.

RTC monitors and controls the transportation of thousands of fabricated pieces, ensuring the safe and secure arrival at project sites.

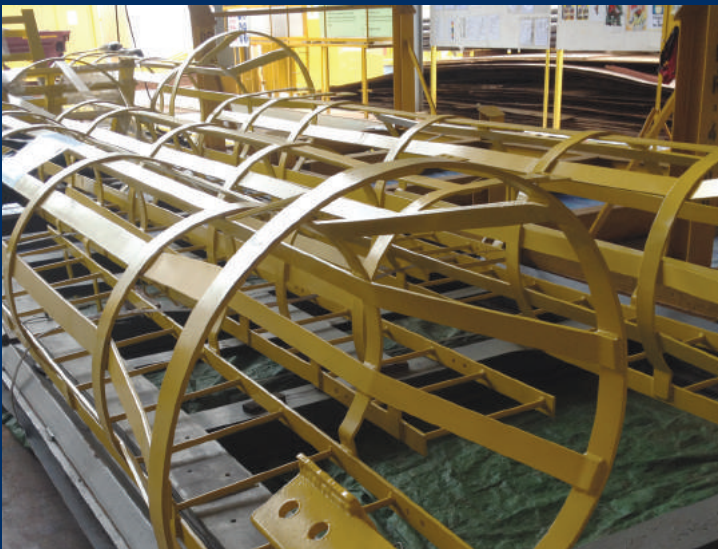
We are committed to delivering flexible and high-calibre solutions so your projects continue to run as planned.

Total land area more than 40,000 sqm, fully equipped and strategically located workshop in Singapore with capacity to handle 1,000 ton/month for tank plates and 400 ton/month for other fabricated parts.





Fabrication Workshop



Tanks Repair and Maintenance/Upgrading Works

Whether it is for a new EPC project or tanks repair, maintenance or retrofitting work orders in an existing plant, terminal or refinery, RTC is equally committed to delivering dependable solutions to keep your systems in operational order thereby extending the lifespan of your investment.

Our expert tank repair and maintenance team manages the planning and execution closely in ensuring smooth delivery, in accordance with our “5Ms + 3Ss” planning norms - material, manpower, machineries, method, material take-off (MTO); and scope of work, strategies and scheduling.

We are competent in the following fields:



Demolition and reconstruction or conversion of tank roof:

- Internal/external floating roof (carbon steel or aluminum)
- Cone roof
- Dome roof



External/Internal tank jack-up for:

- Tank bottom or annular plates repair and replacement
- Installation of tank double bottom
- Tank shell repair and replacement
- Releveling of tank foundation



Repair and replacement of floating roof drain system, rolling ladder.



Repair and replacement of internal tank pipe heating coil, sparger pipe system, water draw-off piping.



Repair and replacement of tank shell/roof nozzles, manways, venting system (gauge hatch, PV, PVRV, ERV, etc.).



Repair and replacement of fire water/foam pipe system.

Other rectification works:

- Tank shell buckling; tank level realignment
- Tank Painting and insulation
- Re-engineering for tank repair, finite analysis reporting





Universal Terminal Storage Tank (UT Project)



Owner:

Universal Terminal(s) Pte Ltd

Project Location:

Jurong Island, Singapore

Project Description:

Shop fabrication and site erection of 74 nos of tanks with 2.3 million cbm storage capacity

Fujairah Oil Terminal Project



Owner:

Fujairah Oil Terminal F2C

Project Location:

Fujairah, UAE

Project Description:

Shop fabrication and site erection of 36 nos of tanks with 1.1 million cbm storage capacity

GMR Energy 2 X 400 MW CCP Project



Owner:

Samsung C&T

Project Location:

Jurong Island, Singapore

Project Description:

Shop fabrication and site erection of 7 nos of tanks with 105,250 cbm storage capacity

Singapore Expansion Project



Owner:

Chevron Oronite (s) Pte Ltd

Project Location:

Jurong Island, Singapore

Project Description:

Shop fabrication and site erection of 29 nos of tanks with 28,000 cbm storage capacity

Oil tanking Odfjell Terminal



Owner:

Oiltanking Odfjell Singapore Ltd

Project Location:

Tuas, Singapore

Project Description:

Shop fabrication and site erection of 3 nos spherical tanks for butadiene with 36,000 cbm of storage capacity

Types of Product:

Butadiene

Tankstore, Phase 6 Storage Tanks Development



Owner:

Tank Store Limited

Project Location:

Pulau Busing, Singapore

Project Description:

Shop fabrication and site erection of 24 nos of tanks with 790,000 cbm storage capacity

Lube Oil Blending Plant Project



Owner:

TOTAL Oil Asia Pacific Pte Ltd

Project Location:

Tuas, Singapore

Project Description:

Shop fabrication and site erection of 56 nos of tanks with 9,800 cbm storage capacity.

Types of Product:

Lube Oil

Lube Park Shared Facilities Project

**Owner:**

Singapore Lube Park Pte Ltd

Project Location:

Tuas, Singapore

Project Description:

Shop fabrication and site erection of 80 nos of tanks with 180,000 cbm storage capacity

Jurong Grease Plant Project

**Owner:**

Exxon Mobil Asia Pacific Pte Limited

Project Location:

Shipyards Road, Singapore

Project Description:

Shop fabrication of 52 nos of tanks with 2,800 cbm storage capacity

Jurong Synthetic Plant Project

**Owner:**

Exxon Mobil Asia Pacific Pte Limited

Project Location:

Shipyards Road, Singapore

Project Description:

Shop fabrication of 20 nos of tanks with 2,400 cbm storage capacity



Smart thinking. Safe hands.



Awards & Accolades

Awards & Accolades



Chevron Terminal

16 Million Safe Manhours without DAFW

Universal Terminal

Project Manhours 3,500,000 and Milestones Achievement

Workplace Safety and Health Awards (Silver)

- 2013
- 2014
- 2015



Exxon Mobil Jurong Synthetic Project
Appreciation for HSSE Performance (April 2016)

Samsung C&T Corporation
Outstanding Effort and Co-operation on
Construction, Quality and Safety

Univeral Terminal
Good HSE Performance and Control

Lanxess BTR Singapore Project
3 Million Safe Manhours without A Lost Time Injury

Certificates



ROSPA Gold Awards (Occupational Health and Safety)

- 2013
- 2014
- 2015
- 2016

bizSAFE Level STAR
Certificate of Attainment

ISO 9000 Quality Management System (BCA)
Certificate of Registration

ISO 14001 & OHSAS 18001 (LRQA)
Certificate of Approval

Our Clients

ALSTOM



Oronite

ExxonMobil



LANXESS
Energizing Chemistry
LANXESS BUTYL PTE LTD

Oiltanking



SAMSUNG C&T
Engineering & Construction Group

**Saudi
Aramco**



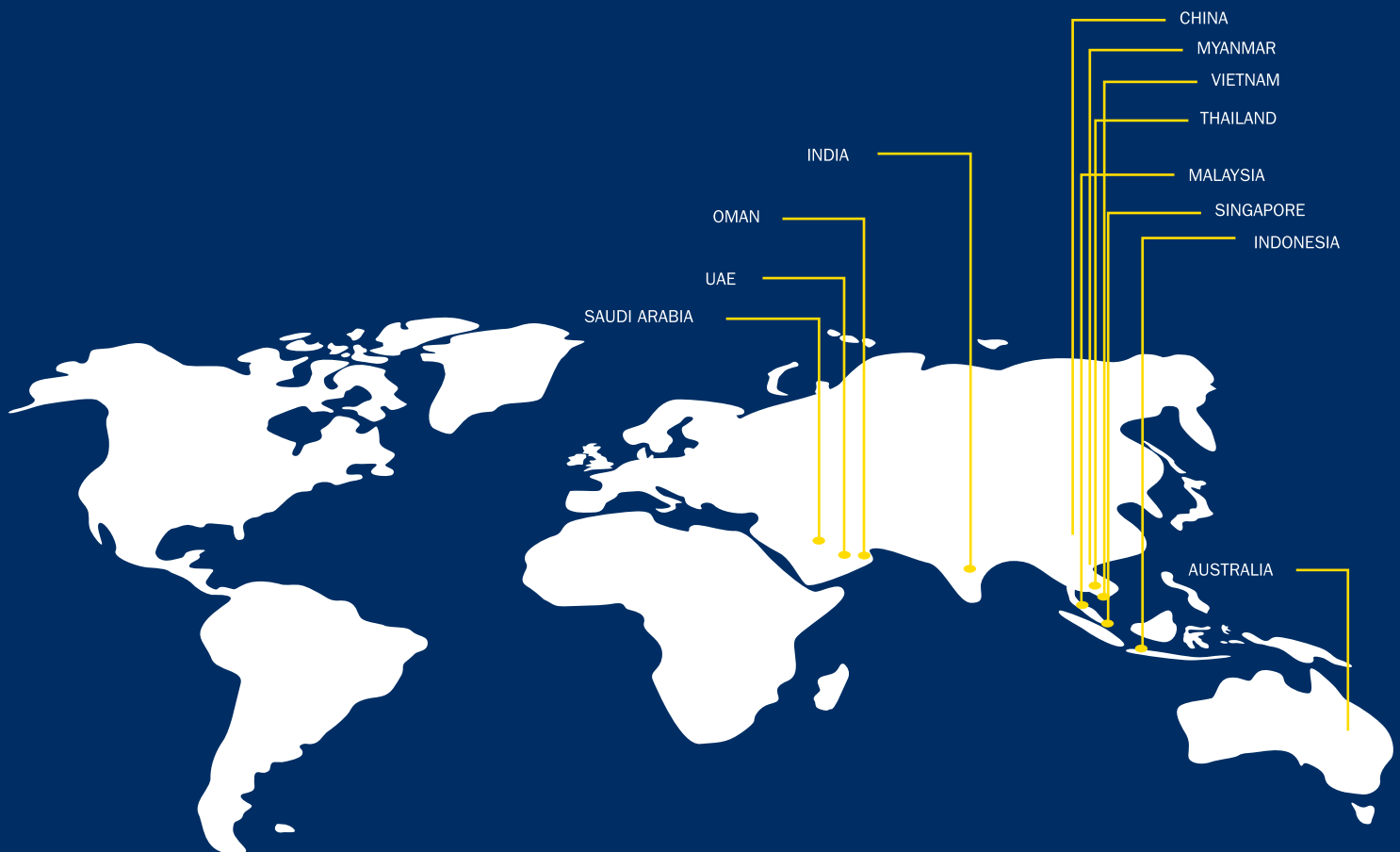
**Singapore
LubePark**



TANKSTORE



Global Presence



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