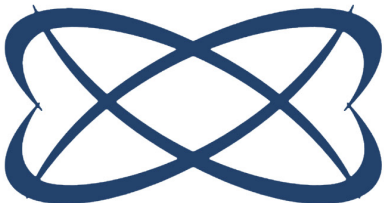




# GROUP SERVICES



**H.J. Stauble**



# H.J. Stauble

## INTRODUCTION

H.J. Stauble Limited. is a family owned and operated business, continuing a tradition of excellence established in 1959. We are a full service provider of major fabrication, construction and plant services to the energy, construction and manufacturing sectors of Trinidad & Tobago as well as throughout the region.

To meet and exceed our customers requirements and high expectations, we have developed lasting partnerships with some of best in class industrial service companies globally. This has allowed our customers to benefit from new technologies and processes leading to improved safety and efficiency.

We also offer a range of local services from inhouse fabrication & machine shop services to testing & inspection. Together with our global partners this allows our clients the experience of the one stop shop offering all or most of their needs under one roof.

The objective and expectation is for our customers to have full confidence in our range of capabilities and their satisfaction is key to our long term development. This comes from the efforts of each employee in conjunction with supportive participation on all levels of management across all of our service departments.

We currently operate out of two separate locations in Trinidad, our Head Office in Marabella & our operational pipe yard in Reform, San Fernando.

CERTIFIED  
SINCE 2011



HEAD OFFICE, FABRICATION & MACHINE SHOP



OPERATIONAL PIPE YARD



**PLANT MAINTENANCE**



**OILFIELD PRODUCTS &  
SERVICES**



**WELDING & FABRICATION**



**MACHINE SHOP SERVICES**



**TESTING & INSPECTION**



**FIBREGLASS FABRICATION**



**PIPELINE CONSTRUCTION &  
REPAIR**



**MARINE & SUBSEA**



# PLANT MAINTENANCE

*Integrated maintenance & integrity solutions*

*Flexible solutions for your maintenance & turnaround schedules*

H.J. Stauble has worked extensively within the major Petrochemical & manufacturing industries providing a wide range of services with our trusted international partnerships. We provide process pipeline installation and repairs, structural fabrication and installation of plant equipment such as pumps, conveyors, compressors and more.

We supply the expertise, materials & equipment for plant turnarounds including bolt torquing, tensioning, hydro testing services, on-site machining, installation of composite wraps for industrial repair applications; installation of maintenance-free fiberglass structural systems such as platforms, stairs, ladders, handrails & other structures that are conventionally built in steel.



## HYDRAULIC BOLT TENSIONING, TORQUING & NUT SPLITTING

*The safest, surest way to get the job done right the first time*

H.J. Stauble maintains a complete inventory of tools for a wide range of bolting needs. Our technicians are fully certified and trained and our tools are managed and maintained to the best industry standards.



Running a 24/7 operation enables us to mobilise at a moments notice to respond to our client's critical needs. Our experience in the industry spans over 20+ years.

- SAFER
- GREATER ACCURACY
- OPTIMUM SEALING
- POWERFUL HYDRAULICS
- PORTABLE





## ON-SITE MACHINING



- Flange Facing
  - Spot Facing
  - Milling
  - Line Boring
  - Weld Prepping
  - Pipe Cutting
- 
- Cutting range from 2" – 144"
  - Bridge slide – capable of single pointing, flange facing, counter boring, and deep boring
  - Low clearance tool slides
  - Heavy wall slides
  - Out of round slide – Fits any size split frame. Compensation for up to 1" out-of-round pipe condition
  - Standard counterbore attachment mounts to any tool slide
  - Heavy duty and right angle motors
  - Hydraulic motors
  - Ability to cut all types of pipe materials and wall thicknesses
  - Can be mounted on straight run pipe or elbows

## WELDING & FABRICATION



For 20 years HJS has provided fabricated FRP structures to the offshore & onshore petrochemical industry, manufacturing and construction industries ensuring longevity and ease of installation.

Our facility boasts a full service welding and fabrication shop complete with pipe benders, plate rollers, punches, press brake, guillotines, welding & cutting equipment. With a cadre of experienced certified technicians and welders we work with all metals.

We have over 30,000 sq. ft of covered space complete with overhead cranes and 6 acres of uncovered fabrication space that makes fabrication works safe and efficient. No matter your scope of work we provide the same level of service and expertise.

Our welders are certified to the following codes:

- AWS D1.1
- ASME Section 9
- ABS
- DNV





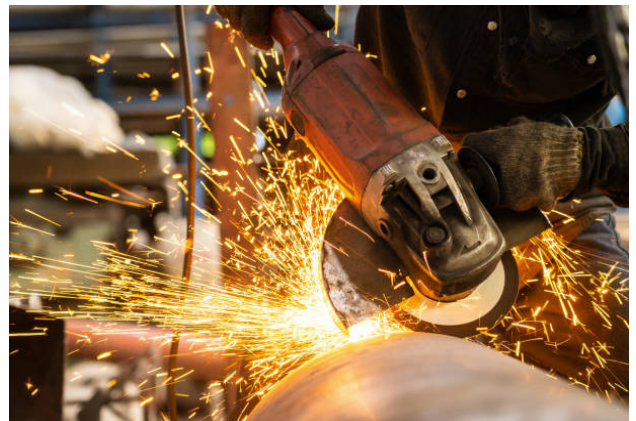
# LABOUR & EQUIPMENT SUPPLY

## LABOUR SUPPLY

Our experienced and competent personnel can be mobilised at short notice to fulfill our clients needs. These include welders, fabricators, fitters and trade helpers. Many of our key personnel are cross trained allowing smaller crew compositions which reduces the number of people required for works. Personnel are certified to work in all sectors of the industry.

## EQUIPMENT RENTAL

- Welding & Cutting Sets
- Crane Trucks
- Compressors
- High Pressure Washers
- Pumps
- Hose Reels
- Tensioners & Torque Wrenches
- Lighting Towers



## CHEMICAL CLEANING



Cleaning chemicals are used to aid in the removal of pipe/tank/well debris and synthetic or oil-based residues to ensure clean and efficient performance and reduce the likelihood of contamination.

- Cleans and flocculates
- Simplifies logistics and handling
- Improves pumping time
- Reduces waste containment & disposal
- Environmentally responsible - rated Gold
- Less rig time
- Lower COST

## ASSET INTEGRITY



Asset Integrity Management (AIM) is crucial for the oil and gas sector to ensure the reliability of operations and the safe delivery of production targets.

H.J. Stauble Ltd. with our partners ICR and DEFI offer unrivalled repair and structural re-enforcement solutions for all your asset integrity needs.

\*See more information in Fibreglass Fabrication



# OILFIELD PRODUCTS & SERVICES

## *Higher performance & cutting edge technologies*

Over the past 15 years, H.J. Stauble through its strategic joint venture partnerships has become the leading supplier of downhole tools, tubular accessories, drill pipe stabilizers & circulatory subs.

Backed by our API Certified machine shop we are able to fulfil our customer requests with on-time delivery & quick turnarounds while maintaining the highest quality standards.

We are also proud to carry a wide range of water-based drilling products derived from natural & renewable sources that combine high performance with environmental friendliness.

## *CEMENTING TOOLS & ACCESSORIES*



## *AIR PURIFICATION EQUIPMENT & SERVICES*



## *OILFIELD CHEMICALS*



## *DRILLING & COMPLETION TOOLS*



# WELDING & FABRICATION

## *Expertise & knowledge for both small & large scale projects*

H.J. STAUBLE LIMITED has been in the General Machine Shop, Fabrication and Plant Maintenance business for over 60 years. During this period, we have supplied services to the Construction, Manufacturing and Oil Industries and have been active in most of the major Plant Construction Projects undertaken in Trinidad and Tobago over this period.

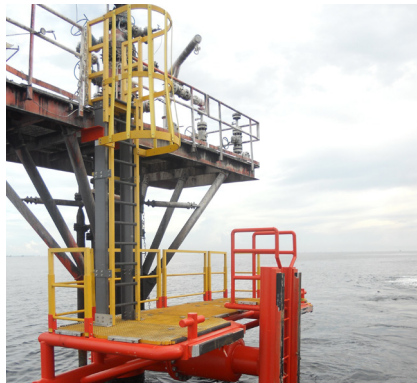
Our fabrication shop is equipped with a large guillotine, press brake, plate punches, plate roller, electronic profile cutter, pipe benders, welding equipment (T.I.G. MIG / SMAW and Plasma Cutting) and can fabricate in stainless steel, mild steel, aluminium etc.

Our welders are certified to the following codes:

- AWS D1.1
- ASME Section 9
- ABS
- DNV



Bahamas Project– South Riding Point  
Offshore Oil tanker Loading Platforms



Fabrication of Offshore boat Landings  
for Trinmar



Fabrication of Drop Canopy for BP  
Immortelle Platform for Neal and  
Massy Wood Group





# MACHINE SHOP SERVICES

## *Custom precision machining & component fabrication*



When your business needs high-quality precision custom machined parts done right and done on time, our speciality is providing you with what you need, right when you need it.

H.J. Stauble is fully equipped and tooled to perform a wide range of services which include turning, boring, milling, shaping, drilling, punching, fitting, welding of all ferrous and non-ferrous materials, hard facing, plasma cutting, fabrication and repairs to equipment, i.e. overhauling and testing of valves, pumps, turbines, mechanical equipment and Oilfield tools i.e. building and grinding to size, stabilizers all sizes, mills and other down the hole tools.

The mission of our company is to provide a manufacturing facility with the capabilities of performing custom precision machining and production component manufacture work in prototype and production quantities while offering the latest in machining and fabricating techniques.

- BORING
- MILLING
- THREAD BUILD UP
- TURNING
- SHAPING



# TESTING & INSPECTION

*On site solutions for your certification needs*

## UAV TECHNOLOGIES

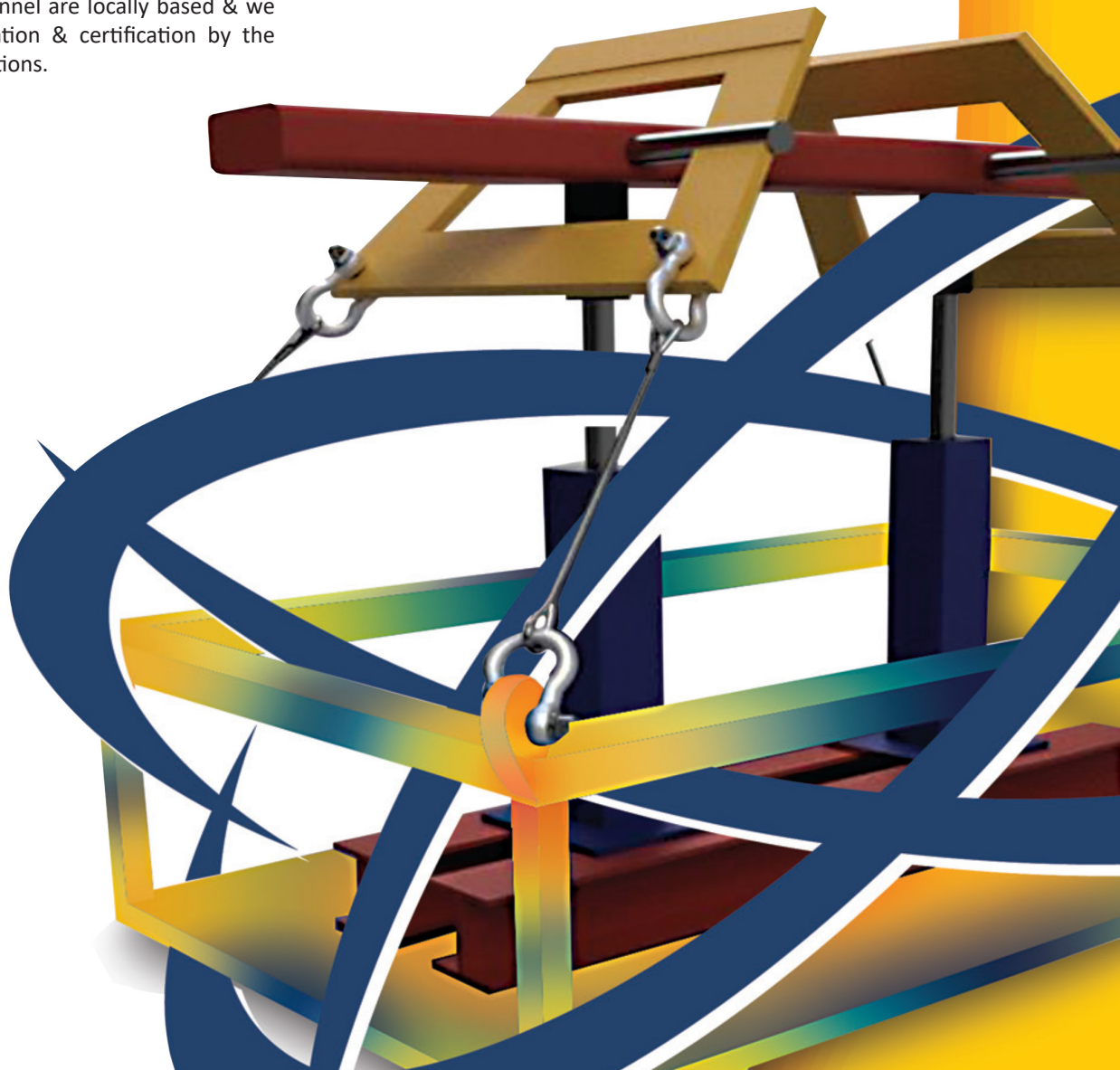
Attention to detail: Low Risk, High Resolution Data Capture Unmanned inspection solutions

H.J. Stauble focuses on providing technology solutions using UAVs (Unmanned Aerial Vehicles or “drones”), for high resolution aerial data collection while minimizing human risk exposure.

UAV technology can be applied in a multitude of services to assist in the asset management of refinery facilities, pipeline networks, manned or unmanned installations, onshore & offshore with specific applications for various types of inspections and the identification anomalies.

Our equipment can also be used to survey large scale facilities or developing construction sites from which accurate measurements/volumes etc. can be gathered.

All of the equipment & personnel are locally based & we have all the required registration & certification by the TTCAA to conduct these operations.





# LOAD TESTING

SRTL's Offshore Container Compliance Management Department:

With our portable, Double Hydraulic load testing equipment (DHRS), we have the ability to provide you with an on-site call out service. This means that your unit doesn't need to leave the compound, or even your base of operations, to be tested. We bring our equipment to you and conduct the testing in your presence, not only providing you the convenience of not having to transport your unit out of sight, risking damage and additional cost, but also giving you the confidence to know that your unit has been certified to its true load capacity.

Our Load Test data is collected via certified Digital Pressure Gauge System that records in real time, the load being applied to the test unit. This data is then generated into graphical certificates verifying the true load capacity used during the test, into the required unit of preference PSI/LBS/KGS.

With our specialized Offshore Container Certification & Compliance Management Team, we can conduct the full suite of periodic inspections for offshore containers, including Load Testing, Non Destructive Examinations, Visual Inspections & recertification of Lifting Sets (wire rope & shackles) under the most recognised & accepted international standards obtainable, without your equipment having to leave the facility or shore base.



## NON DESTRUCTIVE TESTING

SRTL provides trained competent inspectors capable of carrying out non-destructive testing in the following methods:

- MPT- Magnetic Particle Testing (Wet & Fluorescent)
- PT-Dye Penetrant Testing
- UT-Ultrasonic Testing (Thickness & Flaw)

These NDT methods are integral for managing the integrity of your equipment to ensure it is fit to withstand the rugged environments & also meeting the required safety standards. All personnel are ASNT Level II trained and certified and can execute onsite and in-house inspections.

ON SITE SOLUTIONS  
FOR YOUR CERTIFICATION NEEDS





# FIBREGLASS FABRICATION

We at H. J. Stauble work with the leaders in Fibreglass engineering solutions. Fibreglass provides clients an alternative to traditional metal structures. Fibreglass structures are lightweight, durable and equivalent in strength to traditional structures and there is no need for extensive maintenance that is typical of steel.

We offer engineered solutions for leak repairs and structural rehabilitation, all WITHOUT the need for hot works. These solutions allow our clients to regain the integrity of the pipe, deck, windwall, columns and beams safely and in a timely manner.

## ENGINEERED FRP STRUCTURES

## ENGINEERED COMPOSITE REPAIRS

## ENGINEERED FRP STRUCTURES



DEFI's Fibre Reinforced Plastics (FRP) can be used in a variety of complex structural shapes and platforms or sheets for all applications such as handrails, stairs, platforms, ladders & gratings. FRPs can handle climates and conditions of the harshest nature, especially in the corrosive offshore environment.

- Incredibly strong
  - Exceptionally durable
  - Best return on investment over time
  - Super resistant to impact and denting
  - Have a much higher strength to weight ratio when compared to metals like steel or aluminum
  - Can be used in aerospace, marine, ballistic armor, and automotive industries
- Wind-walls
  - Grating Systems & Floors
  - Mud Mats
  - Pipe Penetration Collars
  - Electrical Support Systems
  - Structures - Ladders, Handrails and Stair-treads, Walkways
  - C-Saddles
  - Floors
  - Trench / pit covers
  - Pedestrian bridges
  - Decorative fences
  - Garage enhancements
  - Water parks





# ENGINEERED COMPOSITE REPAIRS



ICR's Technowrap Engineered Composite Solutions supports clients with a wide range of pipework, pipeline, caisson, structural and asset integrity challenges. Their range of Technowrap™ technology offers complete repair and structural re-enforcement solutions which are safe, flexible, practical and cost-effective.



ICR's Quickflange® technology provides high performance weldless, flange to pipe connections. The patented technology is a permanent solution for improving pipeline integrity and flow assurance.

The simple, safe and cost-effective solution combines a modified standard ASME B16.5 weld neck flange with a hydraulic tool which are quickly mounted involving no hot work or welding. The Quickflange® is slid over the pipe end and activated with a cold forging tool. The two processes generate huge contact pressures, forming a seal and grip on the pipe. No spark or heat is generated during the activation process and is completed within 15 minutes for the largest 14" flange size and far less for smaller pipework.





# PIPELINE CONSTRUCTION & REPAIR

*A one stop shop for your pipeline construction and repairs.*

Be it a new build or a replacement, we have all the experience, skills and equipment to carry out welding of pipes at our facility or on site. We have qualified welders for Carbon Steel, Stainless Steel or Aluminium. Along with this we can offer all the necessary testing in-house, saving time.

We provide innovative solutions for leak repairs using composite wraps which can be engineered to return the line to its designed service.

Also on offer is a permanent weldless connection (Quick Flange) that saves time and the need for hot works.



## FABRICATION OF OFFSHORE GAS PIPELINE





# MARINE & SUBSEA

H. J. Stauble Ltd has been servicing the Marine and Subsea sector for over thirty years. Through our partnership with best in class service providers we have supported the ever growing infrastructure in Trinidad's offshore production and exploration activities.

From Sea Fastenings on service support vessels, FRP mud mats or Engineered landings, Cathodic Protection for the in field structures, subsea bolt torquing we stand ready to support your marine & subsea activities.



## DEEP DOWN

Deep Down Inc. is an oilfield services company serving the worldwide offshore exploration and production industry. Our proven services and solutions include distribution system installation support and engineering services, umbilical terminations, loose-tube steel flying leads, installation buoyancy, ROVs and tooling, and marine vessel automation, control and ballast systems.

Deep Down supports subsea engineering, installation, commissioning, and maintenance projects through specialized, highly experienced service teams and engineered technological solutions. The company's primary focus is on complex deepwater and ultra-deepwater oil production distribution system support services and products used between the platform and the wellhead.

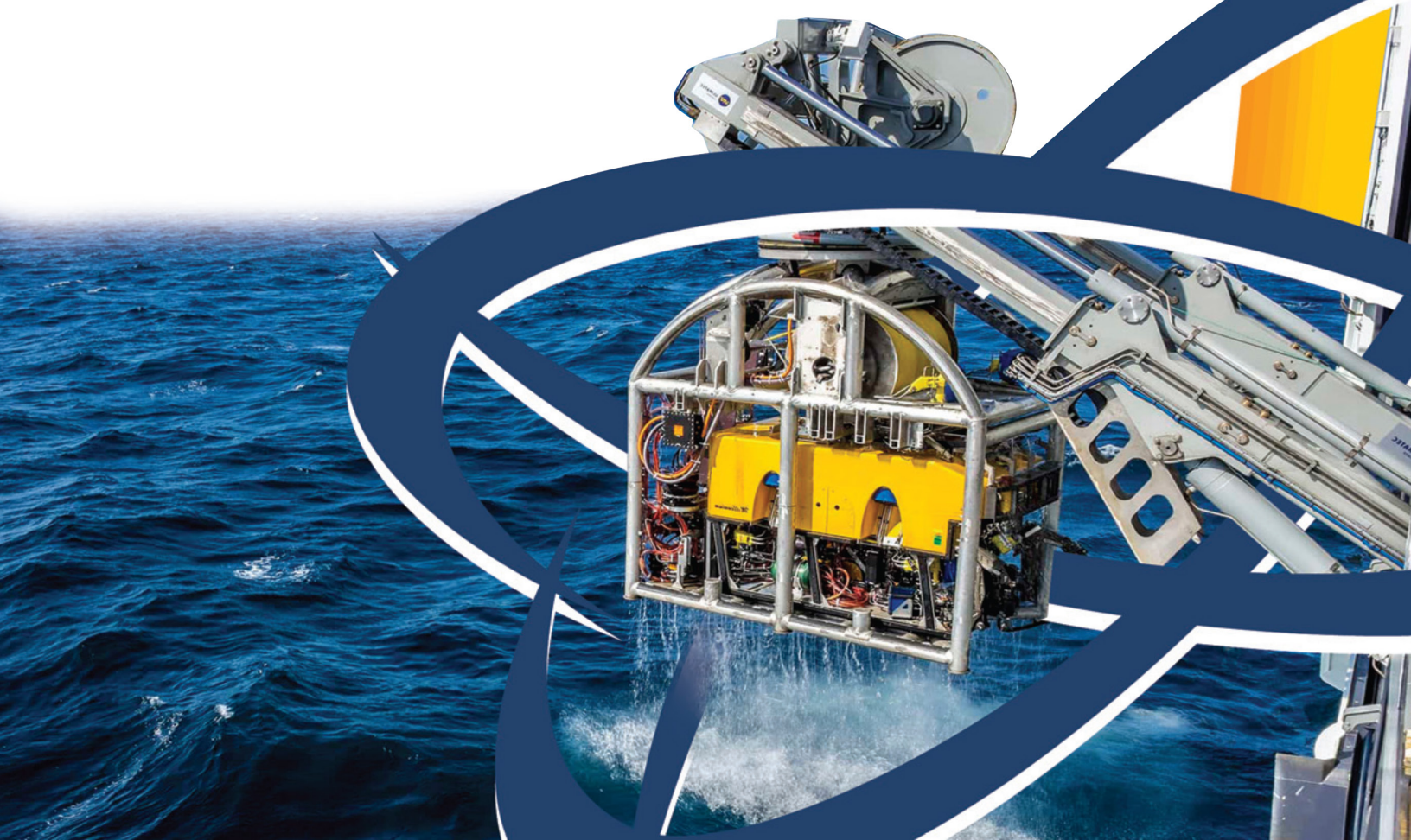


## DEEP WATER

Deepwater develops technology and improves industry understanding to deliver the simplest and most effective cathodic protection solutions to clients around the world.

While the industry advances to greater depths, we have consistently found new ways to protect, monitor and ultimately extend the life of the world's offshore infrastructure.

- Cathodic Protection
- Corrosion Investigation
- Subsea inspection



Technowrap™ composite repair technology is a range of engineered repair systems for pipework integrity and structural strengthening.

They consist of either carbon or glass fibres that are reinforced with an epoxy resin based on design and engineered solution requirements.

Composite systems are suitable for a variety of repairs including internal and external corrosion, through wall defects, cracks (in some circumstances) and pits.

DEFI is a pioneer in applying the benefits of Fibre Reinforced Plastics (FRP) to a variety of industrial and commercial applications. We have the ability to design, engineer, fabricate and install customised grating and structural fiberglass systems.

#### MUD Mats

Fibreglass mud mats have proven to be a viable alternative for steel or wood. These mud mats have been used on a number of the offshore installations as there numerous benefits:

1. 24 Times Stronger than Steel Mudmat System
2. High flexural strength (62,000 psi) and its high flexural stiffness (9,400,000 lbs-in<sup>2</sup>),
3. Fibreglass Mudmat System can span 2-3 times further than steel plate mudmat systems.
4. Eliminates steel beams required for framing; reducing labor and steel tonnage.
5. Reduce fabrication and erection time by 4 – 6 weeks.



INTEGRA Technologies partnering with H. J. Stauble offers a full suite of offshore and subsea services, rentals, and products including:

1. Decommissioning & Subsea Cutting: Diamond Wire Saw, BTC Self Clamping Saw, The Claw™, Scorpion™ Shear
2. INTEGRA Engineered Products: VIPER™ ROV Simultaneous Bolting System, Pop-Washer™, Velocity Washer™, SeaStallion™
3. Services: Controlled Bolting, InSpec™ Field Machining, AquaPlug™ Pipe Isolation, SealChek™ Leak Detection
4. Rentals: Bolting Equipment – Torque and Tension – SEASTallion™, Ancillary Equipment, BlackWidow™ Nut Splitters, Flange Pullers

