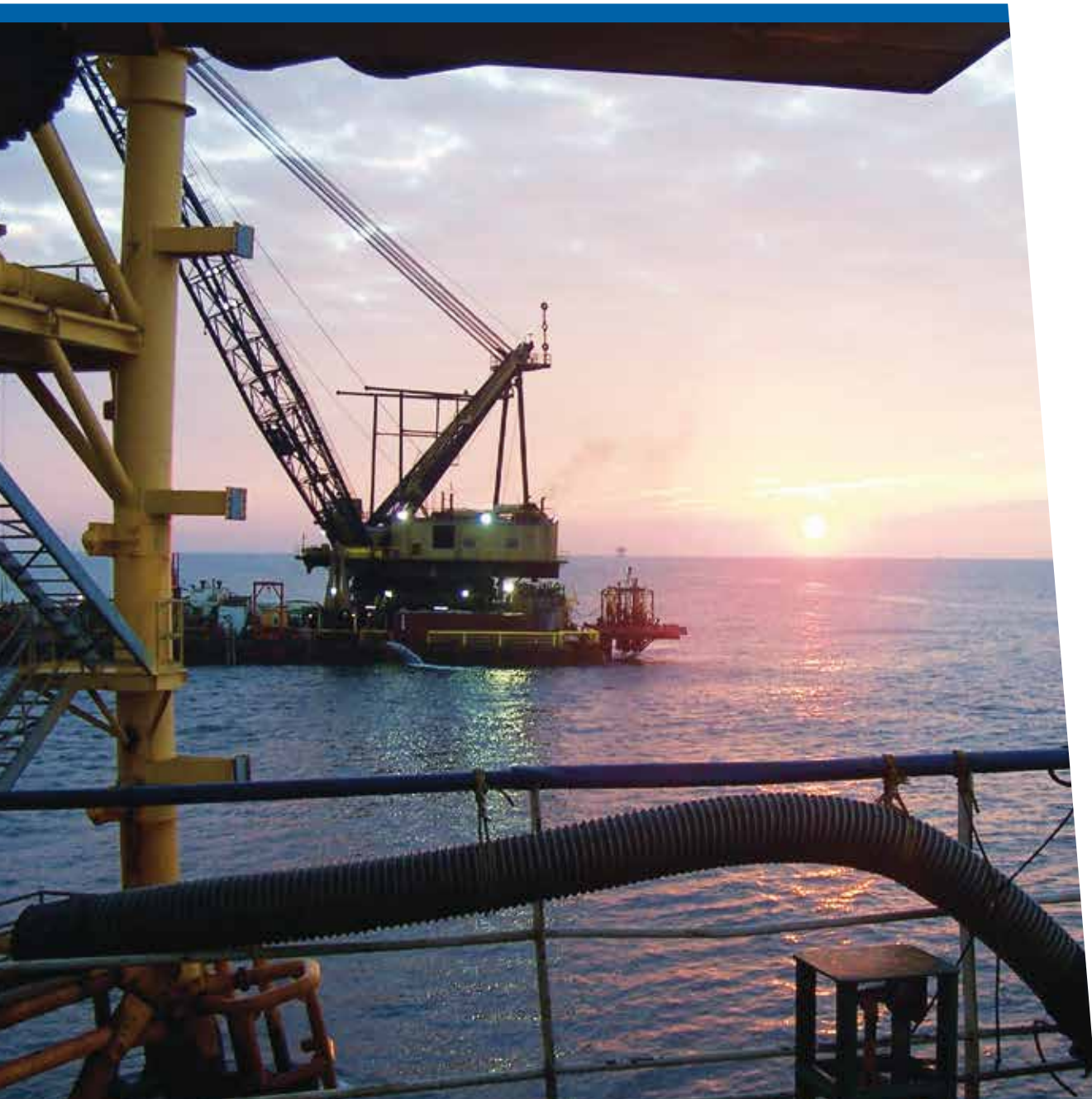


Subtech

Specialists in the provision of world class
marine services worldwide



Introduction

Since 1995 the Subtech Group has specialised in the provision of marine and sub-sea services throughout Sub-Saharan Africa. We are headquartered in Durban, South Africa and have operational bases in Namibia (Walvis Bay), South Africa (Cape Town), Mozambique (Maputo, Beira, Nacala, and Pemba). Our wealth of industry experience, together with our geographical reach and range of services, enables us to offer clients a comprehensive solution to all their marine related requirements, and backing up our operational experience is ISO 9001:2015 certification as well as full membership with the International Maritime Contractor's Association (IMCA).

Subtech is in the distinctive position of being able to offer world class services, leveraged off an extensive African footprint and local country knowledge, throughout Sub-Saharan Africa. Subtech is a subsidiary of James Fisher and Sons PLC, a leading provider of services, innovation and technology to the marine, oil & gas and other high assurance industries worldwide. Subtech embraces this innovative culture, which combined with the "can do" attitude of our employees, has earned the Subtech Group a respected reputation of being dependable partners who add value to their clients' projects. It is these qualities that preserves and builds our long-term client relationships.

Our services cover most aspects of diving and marine related requirements, both above and below water, and are incorporated within the following Divisions:

- Subsea - including offshore diving and services, inshore diving and shipping services and inspections
- Salvage - including Marine emergency response, Contamination prevention and response management, Wreck removal, and refloating vessels.
- Marine - including a wide range of flexible marine support services through Sub-Saharan Africa, a wide range of marine towage services as well as vessel management services
- Survey - including single and multibeam bathymetric, side-scan sonar and magnetometer surveys
- Projects - including marine construction, submarine pipeline installation and maintenance, logistical support through Sub-Saharan Africa and cable installation and maintenance

Each of these Divisions boasts an impressive team with specialised skills, resources and assets. Driving each of them is a passion for ensuring every client engagement is carried out in the spirit of innovation combined with experience that is the core ethos of Subtech.

Subtech's Core Values:

- Sustainability
- Teamwork
- Best Endeavours
- Passion



SHEQ Assurance

As a leader in the marine industry, Subtech understands and embraces its responsibility to provide a safe working environment to all personnel on all work sites. At the same time, Subtech is committed to adhering to environmental legislation and, as such, all our operations are carried out with minimal impact to the environment.

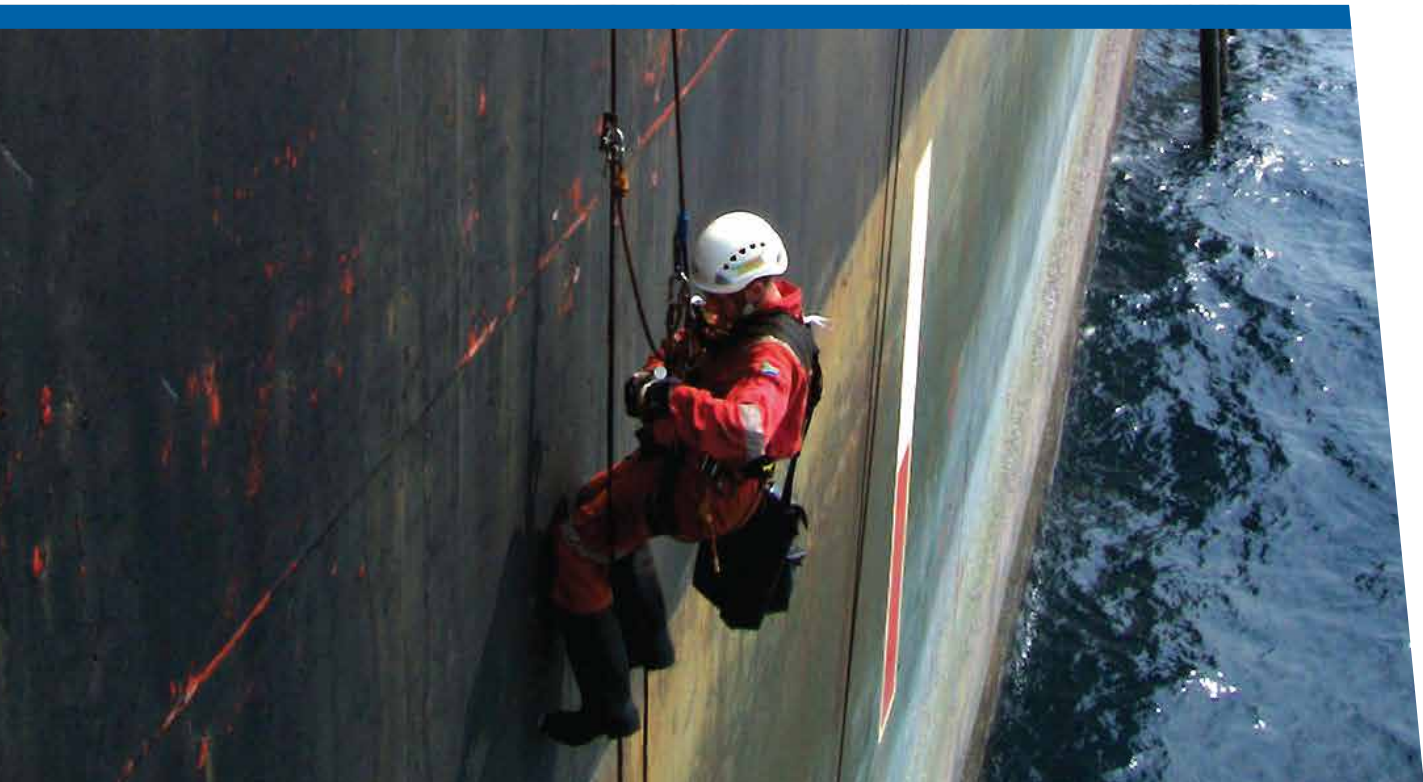
The Subtech SHEQ policy manages all of our activities from strategic health, safety and environmental to quality plans. These policies are based on management commitment and accountability, high safety and environmental standards, appropriate levels of training and a system of performance management, which addresses shortcomings in a just and equitable manner.

All of Subtech's operations are guided by our internal Integrated Management System. This system aligns and adheres to the most current ISO 9001 for quality, ISO 14001 for environmental and ISO 45001 for safety and health purposes. By utilising an Integrated Management System we are able to monitor and document our SHEQ compliance. Subtech has incorporated the International Maritime Contractors Association (IMCA) guidelines into our operating systems to ensure that we comply with all International Safety Standards related to the marine contractors' environment.

By continually reviewing and developing our processes we are able to stay at the forefront of SHEQ management.

Subtech has accreditations and approvals with the following organisations:

- IMCA – International Marine Contractors Association
- ISO 9001:2015 by SGS
- Lloyds Register
- Germanischer Lloyd's
- Det Norske Veritas
- Bureau Veritas
- American Bureau of Shipping
- International Naval Surveys Bureau
- RINA
- Russian Maritime
- Nippon Kaiji Kyokai
- China Classification Society
- Korean Register



African Focus

Operational History and Bases

Subtech, together with our local partner have established a base of operations in Cameroon to form a rapid response diving and NDT inspection service for Gulf of Guinea call off operations. We provide an autonomous, rapid response floating plant equipped to engage all our subsea services; in response our valued client needs servicing the O&G operations in WAF and commercial shipping fleets, ports and distressed vessels.

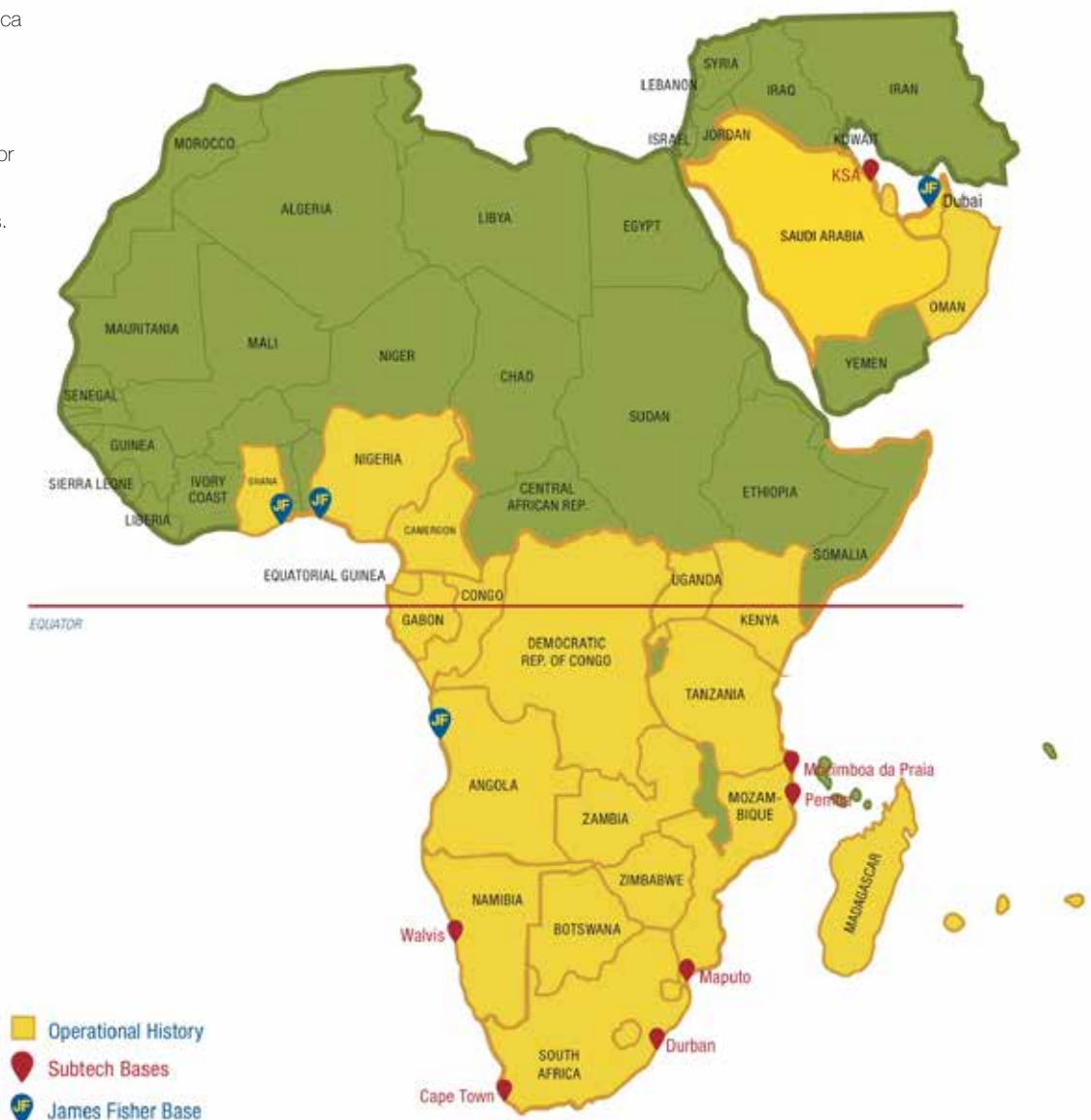
We maintain and comply with IMCA and OGP guidelines for all diving operations, our Subsea and Topside inspections activities are accredited with all major classification societies.

Our resources allow the provision of subsea and inspection services in neighbouring regions such as Nigeria and EG and we are able to provide a readily deployable services expanding from Congo to Ghana within 7 days notice.

As Part of the James Fisher group of Companies, we can further offer all subsea services via our group incorporated Entities throughout Sub Saharan Africa including the following specific regions:

- Angola
- Cameroon
- Namibia
- Mozambique
- Ghana
- Nigeria
- South Africa

Subtech understands our clients' needs led by their requirements for cost effective, reliable and safe subsea and inspections solutions.



Subsea

Subtech's dedicated Subsea Division has enjoyed 20 years of Global operations, including Africa, Gulf of Mexico and the Middle East, providing services to Majors, Super Majors and Contractors. During this period a highlight was our extensive period in the Gulf of Mexico, providing subsea services during Hurricane Katrina clean-up operations. This served as an experience enabler, and facilitated our transition to major diving operations, including Air and Saturation diving.

We are Client focussed during planning, execution and close out; and maintain industry best safety standards.

Subtech is committed to safety and quality assurance, meeting most current ISO 9001 standards and adheres to IMCA guidelines as a full member and diving contractor. Our Rope access / NDT Inspection teams comply with IRATA standards. This commitment to safety and quality, combined with local country knowledge and associated logistics ability, uniquely positions Subtech to offer world class services at competitive prices.

Offshore Subsea Services (O&G, International Operations)

Our reputation as a Reliable, safe and client focused Subsea Contractor is supported by our actionable core values. Subtech's Subsea Division boasts a wealth of experience and offers the following proven services to our valued clients globally. We are focused in for Africa.

Our Operational Strength:

- Project Management
- Air / Nitrox Diving
- Saturation Diving
- Rope Access
- NDT Inspections
- ROV support
- Providing Competency assured, vetted, and well known Diving and Inspection personnel to our clients

Our Task Experience:

- IRM, subsea construction and EPIC experienced Project management (Air and Saturation diving)
- FPSO UWILD's
- CALM buoy IRM / Installation / Floating hose connection
- Riser Installation support
- HOT Tap Installation
- Emergency repairs / Salvage Emergency Response
- Decommissioning
- QAQC and inspection coordination (CSWIP 3.1u,3.2u,3.4u)
- Pipeline installation support, Trenching, Survey, Stinger Checks, Pipeline Inspection, Pipeline Stabilization support (Mattress Installation), spool piece Installation and commissioning support
- In-Water NDT Inspections accredited by all the major classification societies
- International Dams (remedial, rehabilitation projects and Inspection)
- Observation ROV (monitoring and Inspection)
- Experienced UXO Survey and leading technology for classification and rendering safe
- Experienced in Project Logistics support to Africa and remote locations
- Brush Kart Hull Cleaning and Propeller Polishing
- Sea Riding NDT Inspection teams (All locations) – we mobilise our Inspectors onboard in order to reduce delay times



Subsea

Offshore Subsea Services (O&G, International Operations)

Subtech is a global service provider that has gained significant experience in Africa recently, including to below regions:

- Equatorial Guinea
- Congo
- Cameroon: (Gulf of Guinea Rapid Response Base)
- Namibia: (Operational Base and Registered Local Company)
- Mozambique: (2 x Operational Bases and Registered Local Company)
- Ghana: (Operational Base and Registered Local Company)
- Nigeria: (Operational Base and Registered Local Company)
- Angola: (Operational Base and Registered Local Company)
- South Africa: (2 x Operational Bases and Registered Local Company)
- Tanzania: (Registered Local Company)

Inshore / Inland Diving

Subtech's Subsea Division has extensive expertise and the experience to service our inshore marine construction industry. Providing consistently professional service provider to most major Civils/Construction firms. Our dedicated equipment is portable, fit for purpose and we offer various designs to ensure easy transportation by road, sea or air. We strive to respond within expected timelines to all our client calls. We have proven our strength and ability to respond fast and accurately in many challenging regions.

We provide Construction and Subsea support services to Port developments and infrastructure projects globally, including highlights below:

- Tema Port - Ghana
- Saldanha Bay
- Coega Port
- St. Helena Island
- Durban Harbour
- Qatar



Subsea

Inshore / Inland Diving

Subtech maintains a reliable rapid response team, which also conducts Ships husbandry services to the global fleet. We are recognized for excellent service, high safety standards, and accurate reporting to class authorities on behalf of our valued owners and clients, also conducting:

- Underwater repairs
- General marine maintenance and cleaning
- UWILD/IWS CCTV surveys
- VP propeller blade changes
- Propeller cropping
- Supported by NDT Inspection teams to ensure full scope
- Cofferdam Installation and fabrication
- Collision and grounding rapid response and survey

Our Specialized inshore/Inland Diving services include:

- Underwater demolition and debris clearance
- Local Dam maintenance (Long Term Service / call off contracts)
- Underwater (Hot and Cold techniques) cutting & welding
- Underwater concreting and jetty construction support
- Jet Probing and Topographic surveys
- Underwater construction (restricted Dredging, scour protection, sheet piling)

These services are backed-up by our experienced engineering department equipped to provide engineered solutions to all our services.

NDT Inspections / Rope Access – TOPSIDE services

Subtech's Inspections offers a wide range of Non-Destructive Testing (NDT) and inspection services, with particular experience in special surveys and class renewal surveys. Our aim is to ensure that our clients are equipped with all the information in the shortest time possible in order to make informed decisions regarding their assets. This is a result of accurate inspection and testing, covering the following specific NDT Disciplines:

- Ultrasonic Thickness Measurements (UTM)
- Dye-Penetrant Inspection (PT)
- Anchor Chain Calibration (AC)
- Vacuum Box Testing (VT)
- Closed-Circuit Television (CCTV)
- Confined Space Atmospheric Testing (GD)
- Magnetic Particle Inspection (MPI)
- Ultrasonic Flaw Detection (UT)
- IRATA Rope Access (RA)
- Alternating Current Field measurement (ACFM) – delamination testing
- AutoCAD supported reports

We look forward to offering you a world class Subsea or Inspection Service.



Salvage

Subtech's Salvage Division has established itself as a reliable and cost effective emergency response service provider with standby teams on call 24/7 to assist with emergencies. Our geographical spread extends from Tanzania to Namibia, including the Western Indian Ocean Islands, and our personnel have operating experience throughout Africa. In an industry where time often equals enormous financial loss, Subtech takes pride in having the resources, manpower and experience to attend to all marine casualties promptly.

Subtech boasts an impressive resume of salvage experience, including LOF's, refloating of grounded vessels, pollution control and wreck removal. Subtech is also a member of the International Salvage Union (ISU).

Subtech is partnered with Ardent Global Marine Services (Svitzer & Titan) within Sub-Saharan Africa. This partnership adds the salvage, decommissioning and wreck removal expertise of Ardent to the unparalleled local knowledge, extensive infrastructure and response capability of Subtech. Based in Cape Town Ardent - Subtech has strategic equipment positioned from Cameroon to Tanzania including the Indian Ocean Islands.

Ardent - Subtech offer the following services:

- Emergency Response and Pollution Control
- Wreck Removal and Projects
- Preparedness - Risk Mitigation



Marine

Subtech Marine Division is a provider of specialised maritime solutions, operating on the east and west coasts of Southern Africa since 1995. The Division is responsible for managing the group's fleet of vessels and providing all logistical support, including; marine equipment, stores, spares, provisions and crewing. We have also managed the fabrication of new-build barges and dry-dockings.

Our fleet consists of a wide range of offshore support and supply vessels, barges and small craft, which together offer facilities for lifting, towing and floating work platforms thus enabling all types of marine services. Subtech has extensive experience as an owner / operator and the other Divisions of the group provide broad opportunities for the Marine Division in coastal towing, barge handling and movement, construction support, floating cranes and piling off a floating platform.

Through our strategic alliances with leading international maritime companies, we are able us to offer a multitude of tugs, dumb barges, jack-up barges and off-shore support vessels to suit your specific requirements.

Marine Support

As a result of our extensive range of marine assets, Subtech is able to provide flexible yet professional marine support services to the offshore industry throughout Sub-Saharan Africa.

Our marine services include:

- Anti-piracy security detail
- Offshore support
- STS transfer support and management
- Fendering / fender support
- Mooring support/masters
- Towage and barging

Towage and Barging

The Subtech Group provides a wide range of marine towage services.

These services include:

- Project cargo transport and logistics
- Offshore supply services
- Ocean towage
- Bulk cargo transport
- Coastal towage

Vessel Management

We offer a comprehensive vessel management service, providing vessel owners with professional service and expertise on an operational, technical and commercial level.

Our vessel management service package includes:

- Technical Management
- Crewing
- Vessel auditing and inspections
- Project Management
- Purchasing
- Chartering



Survey

Subtech Group's Survey Division offers a total solution for near-shore survey requirements. This includes all facets of project management including, desktop studies, survey planning, data collection, sediment sampling, ore reserve calculations, map generation and report writing. All tasks are performed in-house, a factor which enables delivery on our commitment to quick project turn-around time.

The Survey Division is well versed in providing survey support on all marine construction and dredging operations requiring accurate bathymetric surveys and volumetric calculations for the marine industry. Our crews are supported by competent shore management teams (marine operations management, technical management and crew management) with extensive experience in the maritime industry and hard-earned knowledge of the complications of working throughout the African continent.

Subtech has formed strategic alliances with companies in the geophysical survey industry which enables Subtech to offer near shore geophysical survey and reports on harbour developments, pipeline routes, cable routes, jetties and general site survey requiring coastal engineering. All of these solutions are enhanced by our in-depth understanding of the stratigraphy and sedimentary structures of the east coast of Southern Africa south of the equator.

Subtech takes pride in providing a professional service with an array of first class equipment, Subtech is well positioned to provide a solution for any project.

Our services include:

- Single & Multibeam bathymetric survey
- Side-scan sonar survey
- Single channel seismic survey
- Magnetometer survey
- Cable route survey
- Harbour development & debris survey
- Wreck and pipeline survey
- Scientific diving survey



Projects

Subtech is one of South Africa's premier operators in marine construction and support services. We specialise in challenging projects and pride ourselves in our ability to innovate and engineer solutions to the most complex marine problems.

Subtech's Projects Division encompasses the following areas of work:

Marine Projects

Our engineering and construction teams have collectively been involved in most of the port construction that has taken place in Southern Africa since 1995. Subtech offers a full range of marine construction services including marine piling support, scour protection, confined dredging and capital dredging support, underwater demolitions, underwater concreting, preparation of caisson beds and caisson placement.

Our assets consist of tugs, barges, cranes, derricks, specialist lifting and rigging systems, winches, mooring systems, and dredging tools. Please visit our website for detailed spec sheets of all assets and our resumé of past projects.

Submarine Pipeline Installation and Maintenance

Subtech has extensive experience in the design, installation, maintenance and repair of submarine pipelines of all sizes and materials including HDPE, GRP and steel pipelines. This experience includes various methods of installation, cathodic protection and repair. As an example, Subtech has successfully completed an HDPE pipeline welding repair at sea by developing purpose built equipment to provide a static welding platform aboards of an anchored barge.

We Specialise in:

- Construction of temporary landing quays, jetties and staging yards.
- Transshipment from ship to shore landing of heavy lift cargo items.
- Heavy lifts over water
- Specialised and confined dredging

As a vessel owner / operator, Subtech Projects draws on experience and expertise from Subtech Group's Subsea, Salvage, Survey, and Marine Divisions and we are a trusted partner of some of the world's largest freight forwarding companies.

We have the ability to provide turnkey solutions as well as customised cable related packages tailored for clients in Sub-Saharan Africa. This includes the capacity to provide solutions for installation, inspections, post lay burial and repairs in shallow water.

Cable Installation

Subtech has an extensive fleet for shallow water operations. Our capabilities extend to the 20m contour and we offer the following services:

- Route clearance and PLGR (Pre Lay Grapple Runs)
- Separate Shore End Installation or Pre-Lay Shore Ends
- Main lay installation and burial to 20m Water Depth (Diver Jetting, Burial Tools and Various Customised Options)
- Cable jointing, testing and commissioning
- Remedial works such as articulated piping, uraduct, rock dumping and matting
- Inspections and Maintenance
- Related diving operations



Training & Development

The Subtech Group has a proud history of training and development with a track record of local development in:

- Nigeria
- Namibia
- Mozambique
- South Africa
- Ghana
- Mauritius

In addition to this above, we are also:

- Extensively involved in the career and competency development programs for trainee divers
- Technical Partner with STC Group & Workshops Contractors in the ROTC Training Centre in Pemba, Mozambique
- Involved in internship and work exposure partnerships with The National Ports Authority Maritime School of Excellence (TNPA MSoE) and the Maritime Chamber of the Transport Sector Education and Training Authority (TETA) in terms marine crew and diving skills development

The Training and Development Division seeks to ensure that all Training & Development for the Subtech Group – both external and internally focussed - is aligned to Company Business Objectives and in support of industry scarce and critical skill needs. We are in the unique position of being able to complement training already available in the market with experiential, on-the-job training – a critical part of ensuring competent human resources are available to industry and addressing the three main aims of Operation Phakisa – Skills Development, Job Creation and Poverty Alleviation.

Our external training offering is divided into 2 categories: -

Third Party

- Training and development specific to a client/contract
- Local content training initiatives in strategic regions (such as Nigeria, Angola & Mozambique)

Government Initiatives

Training and development aimed at supporting government capacity building initiatives in the maritime sector through programmes and forums such as:

- SETA's
- Operation Phakisa
- South African Maritime Safety Authority (SAMSA) Programmes

Training Facilities

- Durban has a dedicated, modern training room that can comfortably seat 12 persons
- A dive tank for diver training
- On-site 3rd party canteen facilities for catering purposes



Key Clients



Durban, South Africa (Head Office)

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Cell: +27 82 619 0113 (24hr)

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Marine Services Worldwide

