where experience meets innovation
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 and have operational bases in Walvis Bay, Cape Town, Maputo, Beira, Nacala, Pemba, Dar es Salaam and Mauritius. 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 9001:2008 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. The Group is owner-managed, which fosters a highly entrepreneurial and innovative culture within the Company. This commitment combined with the “can do” attitude of our employees has earned Subtech the reputation of being a reliable partner who adds 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:

- Marine Construction
- Survey
- Salvage
- Oil & Gas (including Inspection services)
- Diving
- Logistics
- Subsea Cable Installation and Maintenance
- Marine Services

Each of these Divisions boasts an impressive team of 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 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 Construction Division encompasses the following areas of work:

Marine Construction

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 and barges, cranes and derricks, specialist lifting and rigging systems, winches and 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 on top of an anchored barge.
Integral to our construction capacity is our in-house engineering and fabrication facility. Subtech is uniquely geared to conceptualise, design and develop methods and equipment to deliver solutions to meet even the most challenging customer requirements. We harness the collective efforts of our experienced marine personnel and in-house design capabilities to develop customised solutions in collaboration with our clients.
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 for 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 coastline.

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 and 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

New mobile Hydrographic Survey vessel “Subtech Odin” with Reson Multibeam is a mobile fast deployment vessel capable of being deployed by road or shipping container to any location.

State of the art Reson Multibeam and Hydrographic software, aboard the Vessel Subtech Odin.
Subtech’s Salvage Division has established itself as a reliable and cost-effective rapid 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 résumé of salvage experience, including LOF’s, refloating grounded vessels, pollution control and wreck removal. The success of Subtech can be attributed to the combined experience of our salvage masters, engineers, marine staff and divers together with the support of a strong international network.

Subtech’s Salvage Division offers a comprehensive range of services, including:

- Marine emergency response
- Hydrographic surveys
- Underwater bunker/cargo removal
- Marine salvage consultancy
- Ships husbandry
- Wreck removal
- Environmental care/pollution control
- Underwater survey/video inspection
- Towage
- Pumping services
- Refloating grounded vessels
- Diving services
- Underwater demolitions
- Cargo lightening

Contamination Prevention and response management

The Subtech Group has formed an alliance with key role players in the pollution response industry. This enables Subtech to offer response capacity for oil spills and the handling of hazardous waste from the Kunene River on the West Coast to Dar Es Salaam on the East Coast.
Subtech’s Oil & Gas Division was started in 2002 and operated in Africa and the Middle East, servicing clients such as Maersk Oil, Shell, NPCC and Qatar Petroleum. During this period we were also involved extensively in the Gulf of Mexico with Hurricane Katrina clean-up operations. This high profile project broadened our experience and knowledge base, and forged invaluable international relationships and networks, thereby further enhancing our reputation as a reliable and trusted service provider.

In line with our mission statement, Subtech is committed to safety and quality assurance. Our policies and procedures (SHEQ) have been vetted against the most stringent requirements in the oil and gas industry and the company is a full IMCA member. 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.

Subtech maintains an extensive database of over 300 personnel that includes qualified offshore engineers, IMCA certified supervisors and divers, ROV pilots and NDT personnel.

Subtech’s Oil & Gas Division offers the following services:

- Subsea engineering
- Integrated inspection and repair services
- Project management
- Personnel supply
- Logistics
- Equipment supply
- QAQC/HSE
Launch and Recovery System.

Heavy lift barge.

IMCA Specification decompression chamber.
Subtech’s Diving Division has an outstanding reputation in both the shipping and the inshore marine construction industries. We are widely known as a dependable and professional service provider and are accredited by all the major class societies.

Our equipment is portable and we offer various designs to ensure easy transport by road, sea or air, thereby enabling our dive teams to service customers anywhere in Sub-Saharan Africa, quickly and effectively.

Subtech is a full member of the International Marine Contractors Association (IMCA) and safety is embraced throughout the company. We have decompression chambers strategically placed throughout our geographical spread which enables safe diving within IMCA guidelines.

Subtech’ Shipping services include:

- Underwater repairs
- Sealing and blanking
- General marine maintenance and cleaning
- CCTV UWILD surveys
- VP propeller blade changes
- Propeller cropping
- Coffer dams
- Dry dock extension surveys

Our Inshore diving services include:

- Underwater construction
- Pipeline installation, inspection & maintenance
- Fibre optic shore end installations
- Underwater demolition
- Underwater cutting & welding
- Inspections & surveys
- Marine support
- Dam maintenance
- Film Industry support
- Underwater Concreting

These services are backed-up by our engineering and fabrication support services.
Subtech’s Inspections Division offers a wide range of Non-Destructive Testing (NDT) and inspection services, with particular experience in special surveys and class renewal surveys. Subtech is accredited with all of the major classification societies.

Our reports are colour coded and easily understood, including detailed photographs facilitating first-hand assessment of the condition of the structure in question. Our aim is to ensure that our clients are equipped with all the information necessary to make informed decisions regarding their assets.

Subtech’s Inspections Division offers the following services:

- Ultrasonic Thickness Measurements (UTM)
- Magnetic Particle Inspection (MT)
- Dye-Penetrant Inspection (PT)
- Ultrasonic Flaw Detection (UT)
- Radiographic Testing (X-Ray) (RT)
- Vacuum Box Testing (VT)
- Anchor Chain Calibration (AC)
- Closed-Circuit Television (CCTV):
  - Rope Access (RA)
  - Gas Detection
  - X-Ray

Various NDT services were carried out on the Ben Rennis Rig whilst undergoing repairs in Saldanha Bay, South Africa.

Various NDT services were carried out on the Ben Rennis Rig whilst undergoing repairs in Saldanha Bay, South Africa.

Thickness measurements being carried out by rope access services on side shell plating on board an FPSO offshore Gabon.

MPI testing on newly fabricated dredging pipe sections in Ship repair workshop in Durban, South Africa.
Africa’s rate of growth is accelerating with increasing construction of large-scale industrial and power generation plants, as well as mining and agricultural projects.

To meet Africa’s developmental goals, the economic opportunity these projects represent must be realised faster than available capacity for building the continent’s port, rail and road infrastructure. The result is a backlog of projects awaiting approval, and delays in ongoing projects as required cargo is delayed in congested ports and underdeveloped road infrastructure.

Subtech Logistics builds on the skills, experience and resources which have underpinned the Subtech Group’s success since 1995, and is uniquely positioned to “bridge” the gap, circumventing congested or non-existent infrastructure to get your project cargo and other critical freight where you want it, when you need it, no matter how remote the location.

This capability is available for deployment anywhere on the Sub-Saharan African coastline and Indian Ocean Islands as well as navigable rivers such as the Zambezi River in Mozambique.

With offices and operational bases in Walvis Bay, Cape Town, Durban, Maputo, Beira, Nacala, Pemba, Dar es Salaam and Port Louis, Subtech Logistics will work closely with your freight forwarding partner to deliver a turnkey solution, solving your specific logistics challenges in Africa.

Our Engagement Process:
• Physical route & site surveys, including bathymetry and geotechnical investigation if required.
• Comprehensive analysis of alternative operational methods to achieve project goals.
• Planning & procurement of all people, plants & materials.
• Project execution to agreed deadlines & objectives.
• Post project reviews.

We Specialise in:
• Construction of temporary landing quays, jetties and staging yards.
• Transshipment from ship to shore landing of heavy lift cargo items.
• Engineered movement of heavy lift & associated project cargo materials from port-to-landing or landing-to-port.
• Bespoke logistics solutions for transporting your outbound product cargo to market from remote coastal locations.

As a vessel owner / operator, Subtech Logistics draws on experience and expertise from Subtech Group’s Oil & Gas, Inspections, Construction, Salvage, Survey, Marine and Diving Divisions and we are a trusted partner of some of the world’s largest freight forwarding companies.
Subtech has been a crucial partner to the subsea cable industry, having successfully completed the direct shore end landings and shallow water cable burials for most of the new installations and repairs in Sub-Saharan Africa over the past decade.

In 2012, Subtech formed a Subsea Cable Installation and Maintenance Division dedicated to providing specialised services to the subsea cable industry. The result is 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.
Our services include:

Desktop Studies / Cable Route Studies
We offer comprehensive Feasibility Studies for Submarine Cable Systems

Environmental / Permitting
Our environmental consultants are able to provide complete environmental compliance services for:

- Environmental Impact Assessment;
- Environmental Management Programs;
- Supply of Environmental Control Officer; and
- Any required environmental authorisations or permits.

Survey & Route Engineering
Our standard marine surveys include accurate surface positioning, multi beam bathymetry, single beam bathymetry, side scan sonar, subbottom profiling and a variety of ground truthing methodology. Standard magnetometer options are available to positively identify cable crossings and other metallic marine debris. As part of our Survey Work we offer Cable Route Engineering utilising industry standard Makai Plan software.

Cable Installation
Subtech Cable 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 Grapnel 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 like articulated piping, uraduct, rock dumping and mattressing
- Inspections
- Maintenance
- Related diving operations

Divers watching the Cable laying vessel offshore off Yzerfontein, whilst it maneuvers into position to begin Submarine Fibre Optic Cable beach landing operations.
Subtech Marine Services 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.

The fleet consists of a wide range of offshore support vessels, barges and small craft, which together offer facilities for lifting, towing and floating work platforms 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.

The group has also formed strategic alliances with leading international maritime companies, enabling 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
- Fendering / fender support
- Offshore support
- Mooring support
- STS transfer support

**Towage and barging**

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

These services include:

- Project Cargo Transport and Logistics (see Logistics Services)
- Bulk Cargo Transport
- Offshore Supply Services
- Coastal Towage
- Ocean 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
- Project Management
- Crewing
- Purchasing
- Vessel Auditing and Inspections
- Chartering
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