

ABOUT US

Kraatz Engineering, a subsidiary of the Ohlthaver & List Group of Companies, is a proudly Namibian enterprise with a rich engineering heritage dating back to 1947.

For over 60 years, we have provided services to leading national and international clients, and have established ourselves as a highly skilled, innovative, competitive and experienced engineering service provider. Based in

the coastal town of Walvis Bay, we provide services to the oil and gas, mining and general industrial sectors in Namibia and on the western seaboard of Africa.

Many years of experience and excellent craftsmanship in multi-skilled engineering and specialised services provide our national and international clients with the highest standards in quality, safety and reliability.

In addition, we have nurtured various relationships with local and international service providers that complement our service offerings.

KEY FOCUS AREAS

Marine and Offshore

We provide a comprehensive range of engineering services to the oil and gas sector on the western seaboard of Africa. For offshore marine support vessel owners and operators we offer dry docking, conversions, modifications, travelling repairs, pipework, steelwork, mechanical work, propulsion repair and blasting-and-coating. Offshore drilling companies make use of our repair, maintenance and fabrication services in Walvis

Bay or on location. Kraatz regularly carries out projects under the following class societies: American Bureau of Shipping (ABS), Det Norske Veritas (DNV), Bureau Veritas (BV) and Lloyds Register of shipping.

Industrial

Our range of services covers structural, mechanical, piping and plate work (SMPP) for the mining, petrochemical, chemical and general industrial clients in Namibia and beyond – this is applicable for greenfield as well as brownfield projects. Other services comprise of machining, specialised welding, steel fabrication and installation, pipe fabrication and installation, tank building and modifications.



FACILITIES

Fabrication Shop We have a well-equipped 2300 m² under-roof fabrication facility with a 1500 m² lay down area that caters for a wide range of

- 16 t overhead crane
- Press brake
- Horizontal Plate rolls
- Section Rollers
- Guillotine
- Iron Worker
- Profile Cutters
- Circular saws
- Radial arm drilling machines
- Plasma cutters
- Welding machines (GTAW, GMAW, SMAW)
- Hydraulic presses
- Rotators
- Thread cutting machines
- Hydraulic and fixed pipe benders

fabrication assignments according to the strictest quality standards. Herewith a list of equipment:

We have experience in working with the following materials:

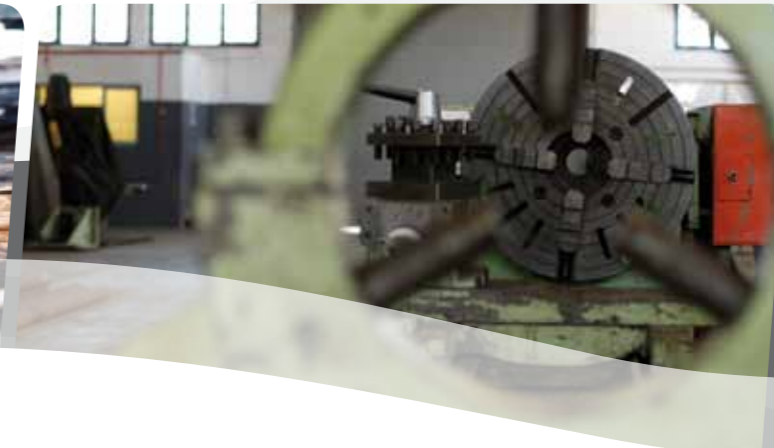
- Carbon steel (including Quenched & Tempered)
- Stainless steel (including Duplex)
- Aluminium
- Copper
- Yocalbro
- CuNiFe

FACILITIES

Machine Shop Our 600m² machine shop facility is well equipped to provide a range of services such as facing flanges, cutting tread, reproductions (reverse engineering), reclaiming of bearing journals and general machining works. Following a list of equipment:

- Vertical presses
- Lathes
- Drilling machines
- Milling machines
- Horizontal borers

Mobile equipment and accommodation Kraatz owns a number of mobile containers (offices, mess rooms, storage containers, workshops), trucks, busses, forklifts, generators and welding machines that can be used to deploy to sites to support project teams. In addition to our own equipment, we have access to a range of equipment through preferred service providers.



SERVICES Marine and Offshore

Mechanical Our marine mechanical service division consists of qualified and experienced artisans led by supervisors with years of experience in marine and other industries. Together we have contributed to the successful execution of a wide range of mechanical maintenance, services and repairs including operations that involve stripping down the following for inspection, as well as offering routine and preventative maintenance services on items:

- Thrusters
- Propulsion Systems
- Diesel engines
- Turbo Chargers
- Pumps
- Valves
- Gearboxes
- Clutches
- Winches
- Couplings
- Bearings
- Cranes
- Alternators

We have experience in working with the following:

- Diesel engines
- Thrusters
- Direct Positioning Systems
- Vibration dampers
- A frames
- Winches
- Valves

Offshore Riding squads Our marine mechanical service division consists of qualified and experienced artisans led by supervisors with years of experience in marine and other industries. Together we have contributed to the successful execution of a wide range of mechanical maintenance, services and repairs including operations that involve stripping down the following for inspection, as well as offering routine and preventative maintenance services on items:

- Scaffolders
- Mechanical Fitters
- Class approved welders
- Insulators
- Lagers
- Painters
- Blasters
- Pipe fitters
- Boiler makers
- Engine fitters
- Tank cleaners
- Electricians
- Electronic technicians
- Tank inspectors
- Instrument technicians
- Estimators
- Rope access technicians

FACILITIES Marine and Offshore

Syncrolift workshop This fully contained 400 m² workshop with 600m² laydown and storage area is situated within the syncrolift premises. It is equipped with client representative offices, a board room, mess room facilities, tool and equipment stores and a 5t overhead crane.

Dry-docking facilities The Syncrolift can lift vessels with a displacement of up to 2,000 tons, 80 m in overall length, 14m in beam, and maximum draft of 5.2 m. The syncrolift is a common user facility and utilized by leading international vessel owners and operators such as Bourbon Offshore, Tide water Marine, ABC Maritime and Swire Pacific.

Quay space (Syncrolift and main harbour) The syncrolift area has a total of 400 m of quay space with a draft of -6.8m whilst the main harbour has a total of 1,400m quay space with a draft of -12.8m CD. Berth 8 (165m) in the main harbour has been successfully used for oil rig projects by companies such as Trans Ocean, Pride and Hercules Offshore.



Mechanical Our Mechanical Service Department consists of qualified and experienced artisans led by supervisors with years of experience in various industries. Together we have contributed to the successful execution of a wide range

- **Pumps;** e.g. Hydraulic, Pneumatic, centrifugal, gear and screw pump (warman, enviro- tech, submersible, slurry, plunger pumps)
- **Valves;** Stop Valves and Check Valves (gate, globe, butterfly, ball)
- **Gearboxes;** e.g. Industrial Gearbox (Radicon, David Brown)
- **Couplings;** Fenner coupling (Fenaflex Tyre Couplings, Jaw Couplings, HRC Couplings, Rigid Couplings) Bearings; Ball, Roller Bearings, Plummer Blocks and Sleeves, Needle Bearings, Rod Ends and Spherical Plain Bearings, Split Roller Bearings
- **Screens;** Joest and Vibramech,

of mechanical maintenance operations that include stripping down the following for inspection, as well as offering routine and preventative maintenance services on items such as:

- **Crushers;** Combined Cone crusher, Universal Jaw and Impact crusher
- **Mills;** rod and ball mills
- **Scrubbers**
- **Thickeners**
- **Cyclones**
- **Magseps**
- **Conveyors;** belt and screw conveyors

Construction and maintenance crews Our on-site construction and maintenance crews are flexible and are always backed by the construction intelligence and capabilities of our workshop. Crew sizes are dependant on the nature of the customers' project. Our "team-source" division equips us with a fast and skill-matched adaption of the client's labour demands. Our construction and maintenance crews are capable of carrying out tank building and repairs, on-site fabrication, erection/installation of workshop fabricated components, shut down projects, maintenance and modification assignments and HDPE welding to name but a few.

Fabrication Our team of qualified steel workers are capable of fabricating making a large range of items from ferrous and non-ferrous materials. This includes steel structures, bins, chutes, hoppers, low pressure and high pressure vessels and piping, conveyors, mezzanine decks, water tight doors, platforms, hatch covers, tanks, accommodation sections, cell guides, gangways and modular plant components. Fabrication assignments are carried out according to client quality specification such as the American Petroleum Institute (API), American Society of Mechanical engineers (ASME) and South African National Standards (SANS). Kraatz has extensive experience in non-destructive examination techniques such as radiography, magnetic particle inspection, ultrasonic scanning as well as dye penetrant.

Welding We employ a number of highly skilled welders that are coded to international approved welding procedures. These welding procedures are approved by societies such as American Society of Mechanical engineers (ASME), American Welding Society (AWS) and European welding Standards (DIN EN) and apply to a wide range of positions, materials and welding processes.



Team Source Due to our flexible workforce model we have access to a vast range of national and international skilled technical resources and are able to provide them to clients on a fixed term contract basis. We ensure that all workers are treated equitably and receive the correct benefits and deductions - all within a legal framework of Namibia.

Other services Through third parties, Kraatz also offers the following services

- **Blasting**
- **Painting**
- **Cleaning**
- **Cranage**
- **Staging**
- **Site accommodation**
- **Electrical (marine and industrial)**
- **Tank cleaning**
- **Hydraulics**
- **Non-destructive testing**
- **Propeller repairs**
- **Engine repairs**
- **Underwater services**
- **Coffer dam repairs**
- **Mobile cranes (up to 500t)**

Quality Kraatz is committed to achieving and exceeding the applicable quality requirements of our diverse client base across a number of industries. This will be done through the full understanding of our customers' requirements, implementation of processes and procedures, full traceability of materials and processes, measuring of conformance and continuous improvement.

Health, Safety and Environment Kraatz is committed to creating an environment which is safe, hygienic and environmentally friendly for all employees, contractors, customers and the communities we operate in. We will protect our employees against any possible diseases, accidents and injuries; give assurance to all our stakeholders of our continuous commitment to health, safety and environment; protect our assets and minimize losses and meet or exceed regulatory requirements. This will be accomplished through leadership commitment at all levels, processes and procedures and trained personnel.



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