

NICO

INTERNATIONAL

MARINE & INDUSTRIAL ENGINEERING COMPANY



ONE STOP SHOP



Engine Repairs & Component Reconditioning • Propulsion System & Turbocharger Repairs • Pump & Auxiliary Equipment Repairs
Underwater Services, Anchor Recovery & Salvage • Riding Squads, Afloat Repairs & Dry-docking Services • Major Refurbishment & Conversions • Steel & Aluminum Fabrication and Construction • Fuel Pump, Injector & Governor Services • Motor Rewinding & Vibration Analysis • Automation, Instrumentation & Calibration Services • Boiler Inspection, Survey & Condition Assessment • Industrial Plant maintenance & Shutdown assistance • Deck Machinery, Hydraulic & HVAC Services • Insitu Machining and Laser Alignment



DRYDOCKING SERVICES

- Dubai (Dubai Maritime City) - Complete drydocking works for vessels up to 135 m Length
- Fujairah (Port of Fujairah) - Complete drydocking works for vessels up to 200 tons.

MECHANICAL SERVICES

- Main & auxiliary engine repair and maintenance
- Propeller, shaft, coupling, seal and rudder repair and maintenance during docking and afloat
- Pumps, compressors, winches, capstan & other deck machinery repair
- Various mechanical repairs during docking, alongside, anchorage & on voyage
- Various sizes of pumps for desalination plants
- Bow and stern thruster overhauls
- Fuel pump & governor overhaul & repair
- Deck crane, monorail crane, EOT repairs
- Diesel & hydraulic pumping equipment – rental & service
- Reverse engineering of pumps, impellers & housings
- Gearbox refurbishment, supply of spares & re-engineering
- Heat exchangers, repair, cleaning, retubing, rebuilding & testing
- Pipe repair, replacement & testing
- Fuel injection equipment servicing & testing
- Insitu machining & laser alignment (including Cardan shaft alignment, Parallelism checks)
- Aligning & boring of auxiliary diesel engine blocks, pump & gear housings
- Inert Gas, COW system repairs & installation
- Corrosion protection, painting & tank cleaning services
- Valve repair, installation & overhaul
- Mooring wire rope splicing
- Line Boring and chock fastening
- Overhaul of all rotating & reciprocating machinery
- GRP/GRE repairs
- Metal spraying / glass flake coating & selective electro-plating
- Ultrasonic / chemical cleaning of heat exchangers
- Alternator/ motor overhauling and rewinding
- Steam turbines overhaul and reconditioning
- Machinery endoscopic survey
- Cast iron components weld repairs
- Service & reconditioning of viscous vibration dampers
- Complete workshop capabilities (including 50 T crane facilities and all machine tools)



MACHINING SERVICES

- Reconditioning of exhaust valves, cylinder heads as per OEM procedures
- Reconditioning of con-rods & liners - on board & workshop
- COW machine refurbishment and testing
- Lathe Machine : Max. Length - 5 m // Max Dia. - 1.2 m // Max Weight - 4 T

ELECTRICAL SERVICES

- Rewinding, repair & refurbishment of generators, motors & transformers - up to 3MW
- Vibration analysis for motors & generators
- Balancing of rotors, fans & armature
- Vibration measurement

AUTOMATION SERVICES (DART AUTOMATON)

- Main engine alarm & control system
- Generator alarm & protection system
- Oil water separator & bilge alarm system
- Crane & winch control system
- Main switch board & boiler automation
- Bow thruster & steering gear controls
- Fire & vapor alarm system
- Main & auxiliary engine oil mist detection system
- Ship electrical retrofit & refurbishment work
- Thermographic surveys
- Servicing of switch gear & instrumentation panels
- Trouble shooting - electrical & automation systems
- Vibration analysis (GL Class approved)
- Bridge & navigation systems - BNWAS & SVDR
- Pump room instrumentation
- Draught gauges
- Viscotherm controls
- MGPS & ICCP system
- Ballast water treatment system

HYDRAULICS & HVAC (DART AUTOMATON)

- Deck machinery - repair & overhaul
- Hydraulic & electrical cranes
- Hydraulic hoses crimping & supply
- HVAC systems – repair, retrofit & modification
- Hydraulic power pack & steering control





TRANSMISSION & PROPULSION SERVICES

- Repair & maintenance of following:
 - Twin Disc marine & industrial transmissions
 - Sumitomo Hansen industrial transmission
 - Masson marine transmissions
 - Kumera transmissions & Fifi systems
 - Niigata engines & Z-pellers
 - Arneson surface drives & Rolla propellers
 - Centa couplings
 - Doen Waterjets
 - Technodrive products & power take-off
 - Veth propulsion and bow thrusters
 - Electronic control systems
- Transmission test bench facility
- Submerged & surface piercing propeller repair facility

TURBOCHARGER SERVICES

- Overhaul & troubleshooting - on-board or in workshop
- Rotor dynamic balancing & thermal balancing
- Rotor re-blading & shaft rebuilding
- Metal spray, micro blasting of compressor wheel seating area
- Offering re-manufactured turbochargers & cartridges
- Extensive stock of turbocharger spares
- Compact ash blasting – beadomac process
- Turbine blades repair & refurbishment

UNDERWATER SERVICES

- Hull cleaning & propeller polishing
- Wet docking & reporting
- Wet welding
- Blanking of intakes & outlets, cleaning of sea chests
- Inspection & survey, NDT, video & photographs
- Anchor search & recovery from seabed, salvage & wreck removal
- In-water surveys - approved from all leading classification society

BOILER SERVICES

- Boiler condition assessment & inspection (Endoscope & U-Sonic thickness gauging)
- Complete boiler control system
- Exhaust gas economizer and WHR units
- Oil ash corrosion studies
- Combustion control repairs
- Fabrication of tubes, coils for boilers & economizers
- Thermographic survey
- Remnant life assessment
- Efficiency, performance & operational studies
- Boiler tubes - supply & replacement
- Life improvement & extension studies
- LSMGO upgrade

FABRICATION & CONSTRUCTION SERVICES

- Offshore & onshore steel structures
- Ship & rigs structures
- Pipes, bends, flanges, liners etc.
- Hatch covers, structures & deck plates
- Manufacturing of long-lead parts and components
- Deck crane installation/ repair jobs
- Retrofit and modification jobs
- BWT system installation and commissioning
- Manufacturing of inert gas blowers (SS Impellers) & expansion bellows
- Offshore platforms, pipe baskets
- Annealing & heat treatment
- Cast iron components weld repair

TECHNICAL RESOURCES OUTSOURCING

Provider of following skilled / qualified front-line resources on Short term and Long-term basis / On-call and Contractual basis :

- Fabricator - Structural and Pipe
- Welders (Certified):
 - Process: SMAW / GTAW / GMAW / FCAW.
 - Position: 1G, 2G, 3G, 4G, 5G, 6G, 6GR.
 - Material: Carbon Steel / Stainless Steel / Aluminium / Copper Nickel / Alloy Steel / Super Duplex
- Millwright technicians
- Mechanic & Mechanical Fitters
- Electrical & Instrumentation technicians
- Painters (Brush & Spray) & Blasters
- Riggers & Scaffolders Certified)
- Mechanical helpers & General helpers
- Turnkey Shutdown & Maintenance Services
- Working under the latest QHSE standards
- Staff continuously trained & 24 hours availability



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OUR PARTNERS



Japan Engine Corporation

Engines



Diesel Engines

IHI Marine

Diesel Engines



Engines, Z-pellers & Turbochargers



Turbochargers



Diesel Engines



Engine Services



Motors & Alternators



Hyundai Heavy Service Station



Metal Components



Marine & Industrial Transmissions



Transmissions & Fifi solutions



Waterjets



Surface Drives

Sumitomo Drive Technologies

Industrial Gearboxes



Turbochargers



Couplings



Fluid Couplings



Submerged surface Piercing propellers



Marine Transmissions



Transmissions & CPP Systems



Propulsion & Bow thrusters



In Tank Mixing Solutions



Electrical & Generating Systems



Boiler Services



Air Conditioning



Engines



Deck Machinery



Electrical & Generating Systems



Hull Protection & Ballast Water Treatment



Remote Control System

OUR NETWORK

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