

Since 1973

# ONE STOP SHOP ON LAND AT SEA AND UNDERWATER



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**N** **NICO**  
INTERNATIONAL

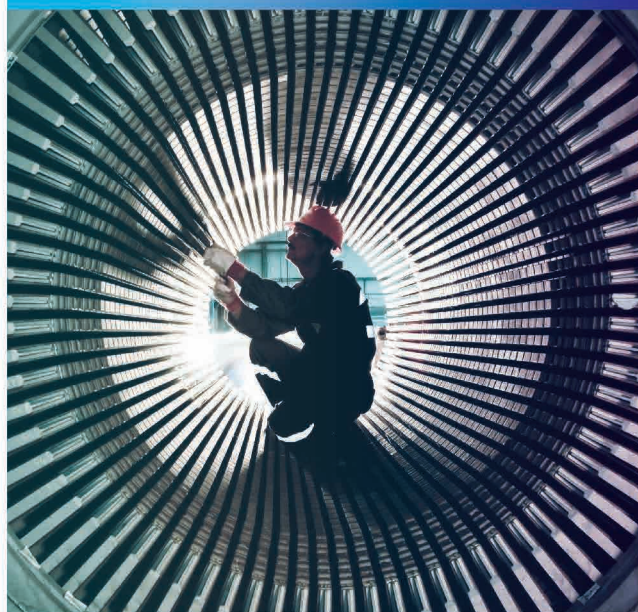


NICO International, is one of the leading marine and industrial engineering company operating in the Arabian Gulf for more than 46 years.

With a number of strategic locations dotted about the Middle East coastline, NICO offers the whole spectrum of marine and industrial repair services as listed below.

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

NICO is a 'One Stop Shop'  
for all marine and industrial  
engineering services



## DRYDOCKING SERVICES

- Dubai (Dubai Maritime City) - Complete drydocking works for vessels up to 130 m Length, 6000 tons.
- Fujairah (Port of Fujairah) – Complete drydocking works for vessels up to 200 tons.

## MECHANICAL SERVICES AND STEEL REPAIRS

- Main and auxiliary engine repairs, overhauling and trouble shooting
- Propeller, shaft, coupling, seal and rudder repair and maintenance during docking and afloat
- Pump, compressor, winches, capstan & other deck machinery repair
- Various mechanical, hydraulic and steel repairs during docking, alongside, anchorage & on voyage
- Various sizes of pumps for desalination plants
- Bow and stern thruster overhauls
- Fuel pump and governor overhaul & repair
- Fuel injection equipment servicing & testing
- Deck crane, monorail crane, EOT repairs
- Diesel & hydraulic pumping equipment – rental & service
- Gearbox refurbishment, supply of spares & re-engineering
- Heat exchanger, repair, cleaning, retubing, rebuilding and testing
- Pipe repair, replacement and testing
- In-Situ machining and laser alignment (including Cardan shaft alignment, Parallelism checks)
- Aligning & boring of auxiliary diesel engine blocks, pump and gear housings
- Inert Gas, COW system repairs & installation
- Corrosion protection and painting
- Valve repair, installation and overhaul
- Mechanical splicing of Wire Ropes
- Line Boring and chock fasting
- Overhaul of all rotating and reciprocating machinery
- GRP/GRE repairs
- Chemical cleaning of heat exchangers
- Alternator/motor overhauling and rewinding
- Steam turbines overhaul and reconditioning
- Machinery endoscopic survey
- Service and reconditioning of viscous vibration dampers
- Cargo pumps and COPT
- 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 (in between centers)
  - Max Dia. – 1.2 m
  - Max Weight – 4 T

## ELECTRICAL SERVICES

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

## AUTOMATION SERVICES

- Marine Electrical & Automation
- Industry and oil field instrumentation
- Engine control system
- Generator protection system
- PLC based retrofits
- Ship electrical new installation, retrofit and conversion works
- Crane and winch control system
- Power management system troubleshooting and upgradation
- Boiler and IG Control system
- Bow thruster & steering gear controls
- Switch gears overhauling and testing
- Bridge & navigation systems
- Pump room instrumentation
- Tank gauging and measurements
- MGPS and ICCP system
- Ballast water treatment system installation
- PCB repairs
- Preventive Maintenance Services
  - Thermographic surveys
  - Noise level survey
- Calibration Services
  - ISO 17025 accredited lab facility
  - Calibration, testing and certification of Electrical, Pressure, Level, Pneumatic instruments and Gas Analyzer

## HYDRAULICS SERVICES

- Deck machinery - repair & overhaul
- Hydraulic and electrical cranes
- Hydraulic hoses crimping & supply
- Hydraulic power pack & steering control

## AIR CONDITIONING AND REFRIGERATION

- Repair, retrofit and modification
- General assessment of the HVAC system, troubleshooting / investigate/ report and recommendations.
- Inspection, repairs, Installation and commissioning of AC Compressors.
- Supply and installation of new AC Units, including Nitrogen flushing , Gas charging and Commissioning works.

## TRANSMISSION AND PROPULSION SERVICES

- Repair and maintenance of following:
  - Marine & industrial transmissions
  - Surface drives and propellers
  - Electronic control systems
  - Niiigata engines and Z-pellers
  - Kumera transmissions and Fifi systems
  - Doen Waterjets
  - Technodrive products and power take-off
  - Couplings
- Transmission test bench facility
- Submerged and surface piercing propeller repair facility

## TURBOCHARGER SERVICES

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



## OUR MAJOR PARTNERS



Engines, Z-pellers & Turbochargers



Engines



Diesel Engines



Hyundai Heavy Service Station



Diesel Engines



Engine Services



Motors and Alternators



Hatch Covers



Turbochargers



Fluid Couplings



Marine Transmissions



Transmissions & Fifi solutions



Industrial Gearboxes



Transmissions & CPP Systems



Waterjets



Bridge Navigational Watch Alarm Systems



Monitoring & Alarm



Remote Control System



Electrical and Generating Systems



Hull Protection And Ballast Water Treatment



Air Conditioning



Deck Machinery

## UNDERWATER SERVICES

- Hull cleaning and propeller polishing
- Wet docking and reporting
- Wet welding
- Blanking of intakes & outlets, cleaning of sea chests
- Inspection and survey, NDT, video & photographs
- Anchor search and recovery from seabed, salvage and wreck removal
- Side shell repairs - cropped inserts with cofferdam to class standards.
- In-Situ renewal of stern tube seal
- SHELL DCOE accreditation for diving activities
- Approved by International Paints for cleaning of Intersleek based silicone coatings
- In-water surveys approved by all leading classification society

## BOILER SERVICES

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

## INDUSTRIAL, FABRICATION AND CONSTRUCTION SERVICES

- Plant Turnaround / Shutdown services
- Plant Modification Projects comprising fabrication, mechanical and electrical works
- Static and Rotary equipment's repair and maintenance services
- Plant Relocation and Erection services
- Fabrication of Offshore & Onshore Steel structures
- Offshore platforms, pipe baskets
- Deck crane installation / repair jobs (Marine)
- Retrofit and modification jobs (Marine)
- Fabrication of Hatch covers, structures and deck plates (Marine)
- Manufacturing of inert gas blowers (SS Impellers) and expansion bellows (Marine)

## TECHNICAL RESOURCES OUTSOURCING

Provider of following skilled / qualified Technical Resources for On-shore and Off-shore projects on Short term and Long-term / On-call and Contractual basis for Oil and gas, Power and Energy and Construction sectors

- Project Team - Supervisors / Foreman / Leadman / Charge hand
- Safety Officers
- QC Engineers / NDT Technicians
- 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 and Mechanical Fitters
- Electrical and Instrumentation technicians
- Painters (Brush and Spray) & Blasters (Grit, Sand & Hydro)
- Riggers (Certified)
- Scaffolders (Certified)
- Mechanical, Fabrication & General helpers
- Crane and Forklift operators
- Riggers and Scaffolders Certified)
- Mechanical helpers & General helpers
- Turnkey Shutdown & Maintenance Services
- Working under the latest QHSE standards
- Staff continuously trained and 24 hours availability

"Achievement beyond horizon" is the credo of NICO International is a philosophy that NICO not only preaches but truly practices to the utmost satisfaction of the global clients.





## LOCATIONS

### MIDDLE EAST

#### DUBAI

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Mail: ship@shiprepairers.co.uk

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#### TAIWAN

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Mail: grace@shipcare.com.tw

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NICO International is accredited  
to the latest standard of ISO 9001,  
ISO 14001 and OHSAS 18001.

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