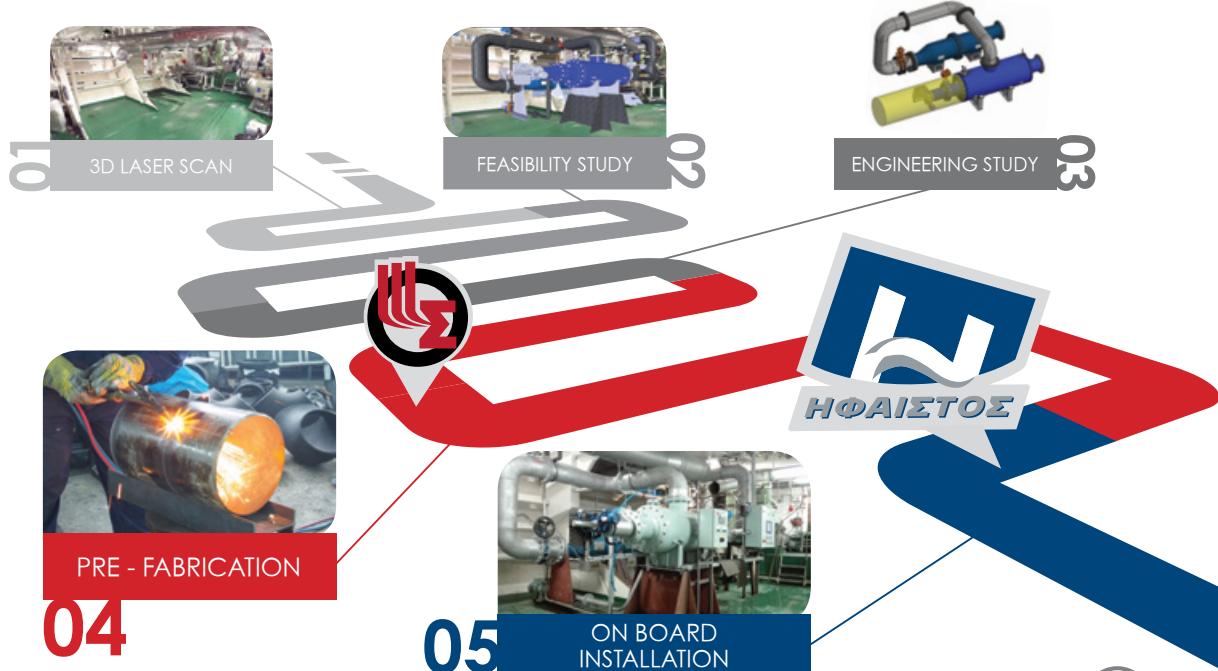


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GENERAL CONSTRUCTIONS • IFAISTUS • OMIROS TSAKIROGLOU & CO.



Ballast Water Treatment System

• Retrofit Project Management •

IMO Ballast Water Management Convention requires the installation of a Ballast Water Treatment System onboard all existing vessels.

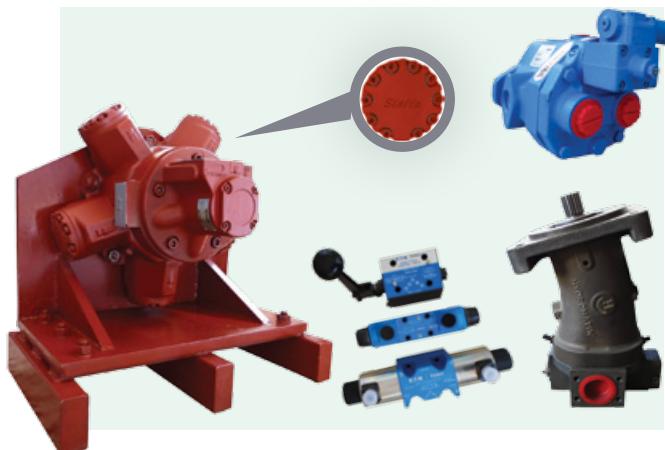
The prefabrication – installation procedure, of the chosen BWTS system, is the final and the most demanding task, taking into consideration the following:

- **Quality** of the products (pipes, flanges, valves, etc) with

all relevant certificates.

- **Quality** of the **welding** procedure (WPQR - WPS - Welder's Certificates).
- **Timesaving** during prefabrication – installation.
- **Testing** of new installed spools before operating the system.

Pre-Fabrication and
On Board installation
right on time.



Hydraulics

We can provide you with
new or reconditioned:

- Hydraulic Motors
- Hydraulic Pumps
- Distributors
- Solenoid Valves
- Control Valves
- Seal kits
- Hydraulic Spare Parts
of any kind.



We have qualified experienced technical team, ready to travel around the world for inspection, troubleshooting, installation and any kind of onboard solutions.

Hydraulic Cylinders



Hydraulic Cylinders (H.C.) require special attention. That is why we offer specialized services for all types of hydraulic cylinders.

- Construction
- Spare parts
- Maintenance
- Repair work

CONSTRUCTION AND REPAIR

- Double acting H.C.
- Single acting H.C.
- Power steering H.C.
- Rephasing H.C.
- Telescoping H.C.
- Parts and accessories for H.C.



Hoses / Cranes

HYDRAULIC HOSES FOR ALL TYPE OF CRANES.

We have a vast database of hydraulic hoses for different types of cranes. Our hoses are fully tested before delivery (Hydraulic Test) Some of our data include:

- DONG NAM 10TX23.8M
- DONG NAM 10TON X 25M
- DONG NAM 20TX19M
- MACGREGOR HH630-2019-4
- MACGREGOR HH400 1519-4
- MACGREGOR HH630-2020,5-4

- MITSUBISHI 35T X 26M
- ORIENTAL HPC 0413
- ORIENTAL HHC420-1025
- ORIENTAL HHC700-1527
- TAE KWANG 3.2Tx15M
- TAE KWANG 3,2TX12,8M
- TTS GPH 630-1526
- TTS GP 400-15-17
- TTS GP 400B-15-16.5
- TTS GP 630-20-20.5
- TTS GPH 900-2029
- TTS GPH 630-1526



Auto Greasing System

BENEFITS OF USING AUTO-GREASING SYSTEM FOR ALL CRANE TYPES.

Enhancement of greasing effectiveness, due to simultaneous slewing motion and consistent (in terms of grease quantity injected per nipple) / precise (in terms of injection frequency) dosage rate.

- **Mitigation** of risk to sustain catastrophic failure of crane's slewing bearing, due to inadequate - or even worse, lack due to crew negligence - greasing.
- **Facilitation** of greasing practice, by adopting a principal, where operator's intervention, is actually limited to slewing function, only thus, no burden further with factors (unfavorable weather conditions / replacement of damaged greasing nipples) that usually have a direct and adverse

impact, on the intended scope and holding crew back from performing a greasing task.

Most importantly, crew will build up confidence in greasing, due to easiness and considerably less time / labor demanding task.

- **Procurement cost** of auto greasing system, as a package (material + labor) is to be counterbalanced by maintaining the slewing bearing in a satisfactory condition, thus ensuring crane's unobstructed operation, minimizing any need for frequent grease replenishment / grease consumption and most importantly repair cost, in the unfortunate case where a slewing bearing has sustained a damage.



On Board Services

We can provide full inspection of hydraulic cranes followed by our detailed maintenance agreement report.

- Inspection and replacement of hydraulic hoses.
- Inspection – replacement – repair of hydraulic motors – hydraulic pumps – directional control valve.
- Installation of auto greasing system.
- Replacement of seals on pulleys.
- Inspection / repairwork of electrical parts.

- **Ancor:** inspection / repair hydraulic motors – inspection / repair powerpack – inspection / repair directional control valves.
- **Winch:** inspection / repair hydraulic motor – inspection / repair powerpack – inspection / repair directional control valve.
- **Steering gear:** inspection / repair pumps.
- **Rum:** inspection / repair pumps.



SPECIAL PRODUCTS
FOR SPECIAL TANKER VESSELS.

ERMETOS for **HEATING COILS**, type Tanker Union, from 15mm to 57mm. Additionally, special construction for any other size and material, upon request.

SEAT & VALVE for **PV VALVES**. We can provide new seats and valves for your PV Valves. Our engineers will provide detailed drawing, before the construction begins.

PV TESTER
A machine that can test your PV VALVE on-board.
Using air supply, our PV TESTER can test your PV VALVE's operation at the specific air pressure. Easy and fast operation.



Thermoplastic Hoses for **CO₂** System

Created for CO₂ fire extinguishing systems at medium pressure, in marine environments

TYPE APPROVAL CERTIFICATE by **LR** for complete hose assembly with end fittings. Including Pressure Test, Cold Bend Test, Leakage Test, Visual and Dimensional Inspection and Burst Pressure Test at -60°C.

Hoses are marked with **IMO number** and **Date Of Production**.



Set Grabs

SPARE PARTS FOR YOUR GRABS.

We can provide full set of spare parts for the most common grabs i.e. Piener SMAG MZGL 15000-6-B-S.

- Springs
- Valves
- Packing sets
- Hoses
- Nipples
- O-Rings
- Nuts
- Screws
- Sealing sets, etc.

Tailor Made Constructions



We only need sample or drawings.

- Driving gear shafts & pump bodies.
- Piston pin & bushes.
- Flow proportion sampler.
- Gears of any kind.
- Seat Exhaust Valve | Guide Intake Valve | Intake - Exhaust Valves.
- Cover Sleeve.
- Pump Shaft | Impeller.
- Seat Intake Valve | Seat Exhaust Valve Cooling Type STL | Guide Intake Valve | Exhaust Valve Cage.



INOX Hoses

Stainless steel hose, welding fittings and forged flanges.

Convoluted stainless steel hoses.

Convoluted S.S. **AISI 321** hose with one or two braids S.S. **AISI 304**

Composition: Inner tube: stainless steel **AISI 321**.

Reinforcement: stainless steel **AISI 304** braid.

Working temperature: From -270°C to +550°C. From 1/4" up to 8".



Double Skin - Metal Pipes



FUEL – OIL H.P METAL PIPES for M/E – D/G

We have vast stock of most known makers and part numbers in our premises of double skin - metal pipes.



Steel

Stainless Steel

Unions



Brass

We can supply all type of fittings - adaptors.

Material: Steel / Stainless Steel / Brass.

- High Pressure Couplings
- High Pressure Elbows

- High Pressure Tees
- Ferrules
- Nuts
- Unions
- Connectors
- Nipples

