

GENERAL CONSTRUCTIONS • IFAISTUS
ΟΜΙΡΟΣ ΤΣΑΚΙΡΟΓΛΟΥ & CO.



ΗΦΑΙΣΤΟΣ



ABOUT US

Since 1981, we have specialized in manufacturing high-pressure hydraulic hoses and custom-made spare parts for the shipping and industrial sectors in our state-of-the-art workshop.

With a commitment to quality and innovation, we proudly offer both new supply and repair services for high-pressure oil hydraulic units. Our expert team provides on-site troubleshooting and repairs through our experienced service engineers, ensuring 24/7 support to meet your needs.

We remain in your disposal for any kind of information.

mission

To provide high-quality hydraulic solutions with reliability and precision, ensuring smooth operations for the shipping and industrial sectors.

To be a trusted leader in hydraulic engineering, setting industry standards through innovation and excellence.

vision



BUREAU VERITAS

ISO 9001:2015



BUREAU VERITAS

DNV

APPROVAL of Manufacturer Certificate for CO₂ hoses by

DNV class program DNV-CP-0183



LRQA

Welder Qualification Test Certificate

ISO 9606:2017



Flexible Hoses CO₂ System Series



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

TYPE APPROVAL CERTIFICATE by DNV 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**.

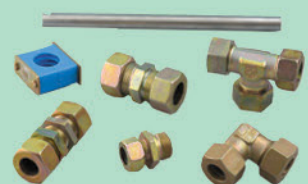




HYDRAULIC SERVICES AND SUPPLY



Hydraulic Supply



1. **Hydraulic Hoses**
Fabricated and tested in our workshop
2. **Hydraulic Pumps and Motors**
 - Any type and maker of hydraulic pumps and motors,
 - New / Genuine
 - New / OEM or,
 - Genuine / Reconditioned in our workshop
3. **Hydraulic Cylinders**
Fabrication of hydraulic cylinders in our workshop
4. **Hydraulic Seals**
Supply of seal kits for numerous units
5. **Hydraulic Filters**
Fabrication and supply of filters for hydraulic units
6. **Hydraulic Fittings**
Fabrication and supply of fittings, unions, quick couplings, adaptors, e.t.c.



Our **specialized team** of hydraulic and electrical service engineers are ready to **travel worldwide** in order to secure your vessel's smooth hydraulic operation.

- Troubleshooting
- Pre docking inspection and reporting
- Complete service during vessel's Dry Dock
- Installation of new units
- Overhauling of hydraulic units onboard
- Replacement of hydraulic hoses



On Board Services

Fields of hydraulic services

- Cranes
- Windlasses
- Winches
- Steering Gear
- Hatch Cover
- VRCS



We offer **inspection** and **repair services** in **our workshop** for:

- Hydraulic Pumps
- Hydraulic Motors
- Hydraulic Cylinders
- Hydraulic Controls
- Gearboxes
- Winches



In House Services

Testing

- Our test bench secures that overhauled units are ready to use.
- The test bench includes electric solenoid voltage supply, additional pressure sensors for monitoring, and our test report generating system.



EXPANSION BELLOWS
From Ø50mm up to Ø1220mm

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

Double skin / Complete kits

INOX FLEXIBLE HOSES

Convolute stainless steel hose, weld fittings
and forged **flanges**.
From 1/4" up to 8".

ALL TYPE OF FITTINGS - ADAPTORS
Steel / Stainless Steel / Brass

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



GENERAL SUPPLIES

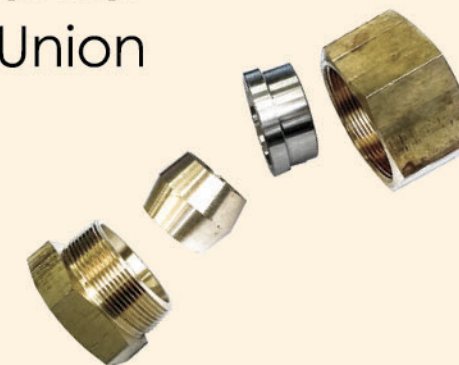
1. Driving gear shafts & pump bodies. | 2. Gears of any kind. | 3. Bunker Sampler Flange for F.O & D.O. | 4. Pump Shaft | Impeller. | 5. Cover Sleeve.

TAILOR MADE CONSTRUCTIONS



SPECIALISED SPARES AND SERVICES FOR TANKER VESSELS

Tanker Union



PV VALVES RECONDITIONING

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 designated pressure. Easy and fast operation.

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



PV Valves



1. Disassembly / 2. Low pressure sandblasting (inner and outer) / 3. Construction of inox seat – valve and rectification / 4. Replacement of on-off lever / 5. Construction of bush

(Teflon) / 6. Replacement of o-ring / 7. Replacement of spacer ring / 8. Construction of nuts and pins / 9. Replacement of bolts / 10. Inner layering with epoxy adhesive resin / 11. Assembly / 12. Pneumatic pressure test / 13. External anti-corrosive painting.



BWTS

Pre-Fabrication and **On Board installation** right on time.



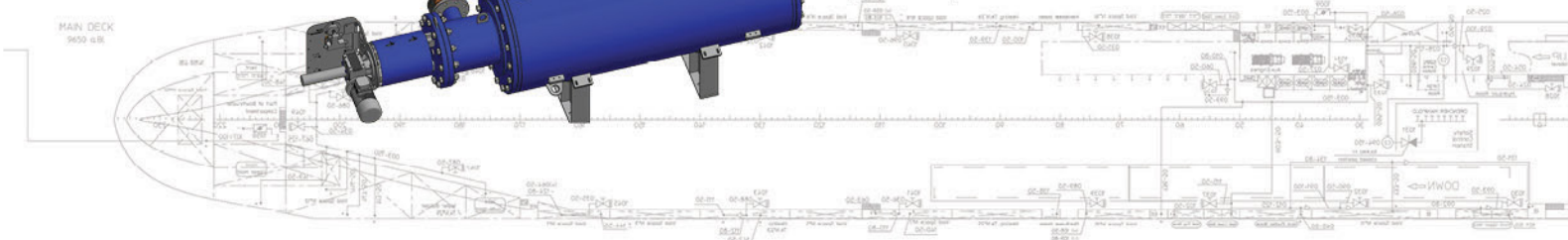
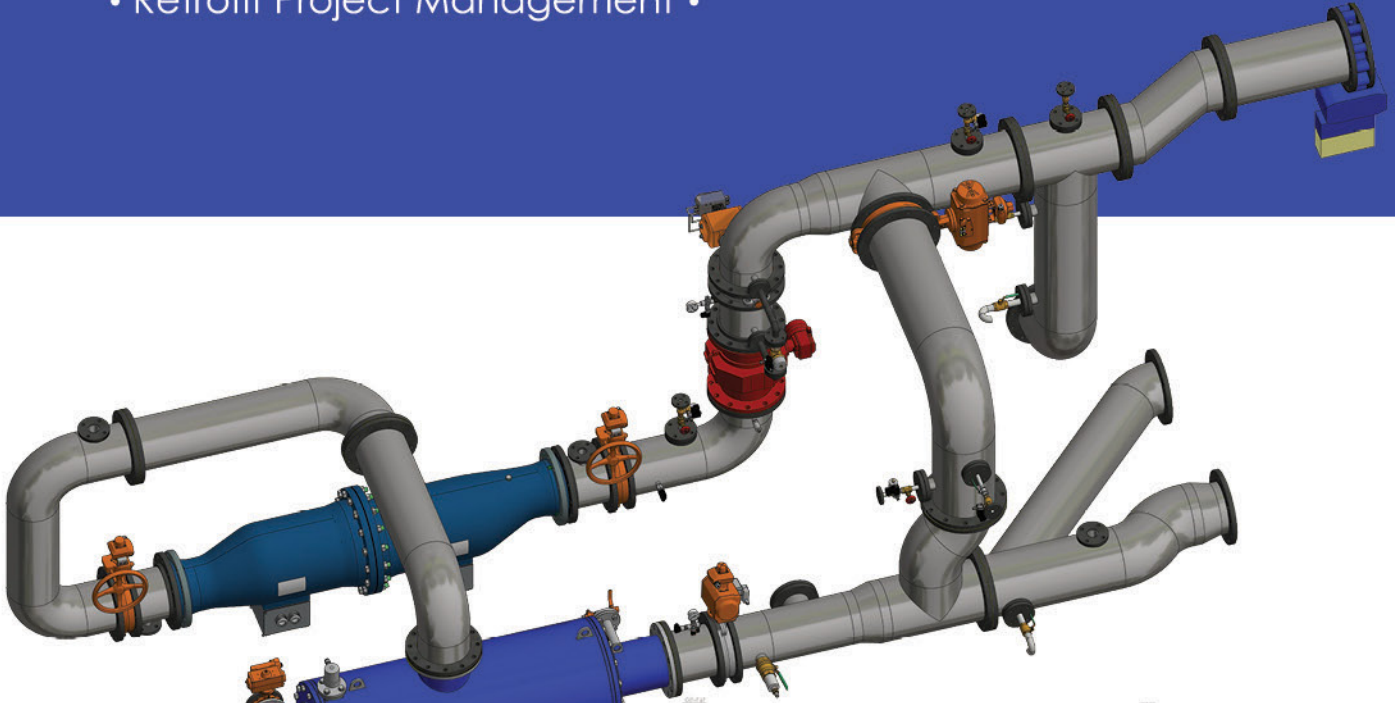
IMO Ballast Water Management Convention requires all existing vessels to install a Ballast Water Treatment System (**BWTS**).
The final and most challenging step is the prefabrication and installation of the chosen BWTS, which must consider:

- **High-quality materials** (pipes, flanges, valves) with proper certification.
- **Certified welding procedures** (WPQR, WPS, Welder's Certificates).
- **Efficient** prefabrication and installation to **save time**.
- **Testing** of newly installed spools before system operation.

Auto Greasing System

Ballast Water Treatment System

• Retrofit Project Management •



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

- **Improves Greasing**
Ensures consistent lubrication while the crane moves.
- **Prevents Failures**
Reduces the risk of slewing bearing damage from poor greasing.
- **Easy to Use**
Operators only need to control slewing, avoiding weather and maintenance issues.
- **Saves Time & Effort**
Makes greasing simpler and less labor-intensive for the crew.
- **Cost-Effective**
Reduces grease use, prevents breakdowns, and lowers repair costs.



Around the world, but close to you.



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