



MARITIME EQUIPMENT & SERVICES

catalogue 2012 (edition A)

- GENERAL INFORMATION / INDEX

Dear Customers,

The company FRAANT established in 2007 is the parts supplier for vessels being under normal operations or repair.

At this moment we are co-operating with companies from Germany, Spain, Greece, Croatia, Singapore and India.

This catalogue is addressed to the ship owners and for newbuilding / repair / conversion yards.

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- GENERAL INFORMATION ABOUT SPARE PARTS

FRAANT is able to offer you every kind of parts: for machinery, electrical and deck department. You can also ask us for not standard parts / elements that are constructed on the base of technical drawings and specifications to meet all requirements.

We have good relations with a lot of polish companies – makers of the maritime equipment. Therefore we can offer good prices and short time of deliveries.

As we can offer you just all parts below you will find some equipment that in our opinion should be highlighted. As a first you will know Marine Bearings.



- MARINE BEARINGS

We can offer you the following products of ORKOT company: TLM Marine and TXM Marine:

TLM Marine – is an advanced, reinforced polymer material incorporating solid lubricants. The material has exceptional wear resistance and virtually no swell in water, providing dimensional stability. TLM Marine tolerates edge loading and misalignment even with the heaviest loads. Marine bearings are installed with an interference fit. Bearings are normally freeze fitted using liquid nitrogen but can be press fitted or resin chocked as required. Where there are extended periods without lubrication, such as upper pintle bearings under light ballast conditions, TLM Marine proves especially effective.

TXM Marine – is an advanced reinforced medium weave polymer material using a unique manufacturing process that provides a high concentration of PTFE in the sliding area while maintaining high compressive strength. The PTFE layer is several millimeters thick, making it tolerant to wear, while maintaining its low friction properties throughout the service life of the bearing. The PTFE layer is backed by TLM Marine giving a truly homogeneous bearing material without a metal backing layer. In areas where the running conditions are dry, TXM Marine has proved particularly effective in eliminating stick-slip problems normally associated with these operating parameters. The special PTFE layer provides for similar mechanical properties to TLM Marine, but with substantially reduced friction and wear characteristics.

- MARINE BEARINGS

TLM and TXM Marine is used in wide range of proven applications, including:

- Rudder bearings;
- Water lubricated propeller shaft bearings;
- Stabiliser bearings;
- Deck machinery bearings;
- High strength synthetic rope termination bushings;



- TANK WASHING SYSTEMS

Here we would like to present you tank washing systems.

Units that you can see on the pictures are suitable for vessels up to 100.000 DWT.

All of them can be supplied in two options: as portable device or to be fixed in most convenient place.

Devices made from stainless steel (first two pictures) have wash media lubricated bearings, no risk of cargo contamination.

In case of next two units they are made from gunmetal LG2 (bushes made from brass) and are equipped in sealed grease lubricated gearbox for long life.



If you are interested in presented tank washing systems please do not hesitate to contact us. We will answer for all technical questions as soon as possible.

- COOLING COMPRESSORS

FRAANT is co-operating with polish producer of cooling compressors: WUCH DĘBICA.

In scope of WUCH DĘBICA offer you can find compressors for air condition system and for provision compartments.

We as a co-operator of WUCH DĘBICA can offer for ship owners the following:

- Delivery of spare parts for DĘBICA compressors;
- Short times of delivery;
- Good prices;
- In case of bigger problems we are able to arrange authorized service on board in every European port.

For newbuilding / repair yard we can offer the following scope of service:

- Delivery of new units;
- Authorised team to install units on board;
- Technical support, advise and etc.



- ELECTRO-PNEUMATIC LEVEL MEASUREMENT SYSTEMS

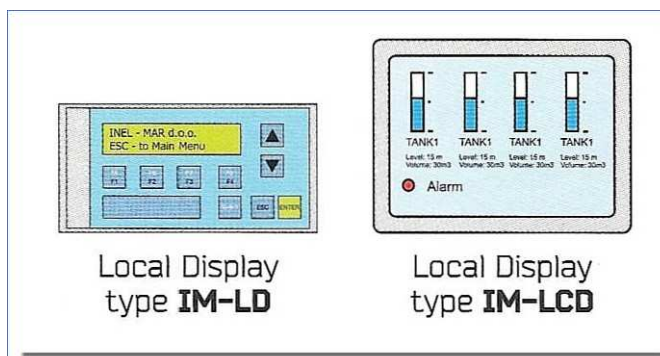
INEL-MAR Electro Pneumatic System IM-EPS is designed to measure level of all types of liquids in all types of tanks. It can also be used for level detection in void spaces or for water ingress detection. Main advantage of IM-EPS is that sensing element and electronics are not in contact with the measured liquid, but are mounted in the common control unit instead.

- ELECTRO-PNEUMATIC LEVEL MEASUREMENT SYSTEMS

IM-EPS is highly flexible and can be upgraded with local displays, different types of pressure transmitters, local indication panel, draft indication panel and etc.

IM-EPS technical data:

- Measuring range 0...16mH₂O or 0-25mH₂O. At request any range possible;
- Overpressure min. 4bar;
- Power supply 24VDC or 120/230VAC, 50/60Hz;



- ELECTRONIC MULTI-TONE SIRENS

In our offer you will also find electronic multi-tone sirens.

Some of offered sirens are programmable, but to know more about all units please send us an inquiry – we will answer with information about all technical characteristics.



- GAS FREEING FANS

Gas freeing fans – water or air driven. Made from stainless steel or aluminium (dependent on type and size).

Weight of the fans is from 14 to 44kg.



- GAS FREEING FANS

Benefits:

- Deep air penetration;
- Low maintenance;
- Powerfull and therefore quick overall operation time;
- Simple, robust design;

In case of any questions please do not hesitate do contact us – we will provide you with more technical details.



- FANS

We are co-operating with marine fans producer, therefore we can offer you as follows:

- Axial and centrifugal fans;
- Explosion-proof fans;
- Ventilation heating device;
- Ventilation hoods

We can also deliver fan or impeller that will be suitable with unit existing on board. Such works are made on the base of technical drawing or other documentation.



- SHOCK ABSORBERS / FLEXIBLE CONNECTORS

Shock absorbers / flexible connectors can be mounted in every place on board when vibrations are occurring.

For examples: exhaust gas ducts, generator set and compressors platform.

Absorbers showed on the pictures are only samples – we can deliver you every type in every dimension produced on the base of technical drawing.



- SEA WATER FILTERS, OIL FILTERS

Here we would like to present you filters for sea water and oil systems. All offered filters are constructed according with client's requirements: capacity, dimensions and connections.

Filters are made from steel, but to secure this material in case of sea water filters they are secured against corrosion by special epoxy layers.

If you are interested please be so kind to send us technical drawing of the needed filter. We will answer with our offer as soon as possible.



- LOAD METERS

Next item in our offer is remote controlled loadmeter. This device can be used during works with ship's cranes to keep safety on board.

- LOAD METERS

Loadmeter is designed to work with loads up to 100t. Information about load's value is transmitted to the receiver by wireless connection. Both elements of the unit: loadmeter and sensor are powered by batteries.

If you will interested with this device please contact us – we will provide you with more technical informations.



- COOLERS, CONDENSERS, HEATERS

We are co-operating with one of the polish biggest producers of the following marine equipment:

- Charge air coolers;
- Shell & tube oil and water coolers;
- Steam heaters for oil, water and fuel;
- Steam condensers.



To obtain more information please contact us.



- ACCOMODATION DOORS

The accomodation doors are made from normal or stainless steel and can be used in indoor and outdoor areas.

Dimensions are at every order agreed with our clients on the base of technical drawing to meet their expectations. However most popular format is 750x1800mm.

Every doors are equipped with steel frame.



Optionally we can deliver also selfclosers and locks. Additionally if it is required the doors can be equipped with window: plexi or hard glass.

The doors are secured by powder paint in colour chosen by client.

Prices for doors offered by FRAANT, in both executions: normal and stainless steel are sharp. You can also get some discount – up to 15%. It dependent on the quantity of the ordered doors.

- SANITARY CABINS

We can offer a wide range of fully equipped and ready-to-use cabins manufactured to customer requirements. These cabins are suitable for all types of ships and drilling platforms.

- SANITARY CABINS

Below you will find pictures of the sanitary cabins.

If you are interested to get an offer from us please send us information about all technical and other requirements to be fulfilled by cabin. We will answer as soon as possible.

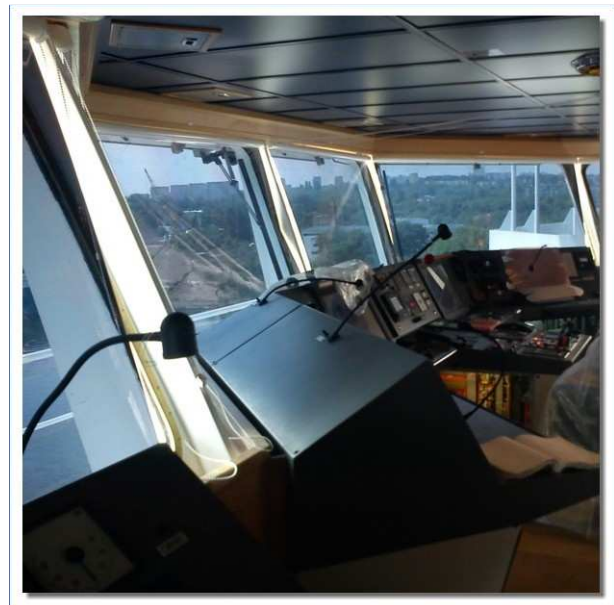


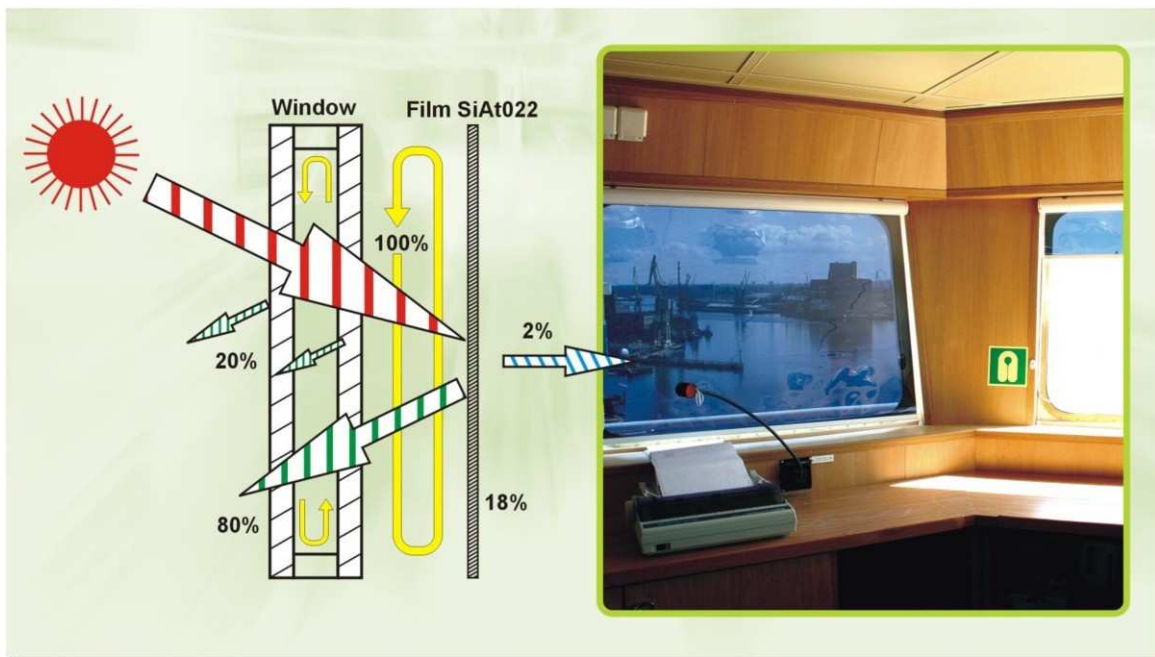
- ROLLER BLINDS FOR BRIDGE WINDOWS

We have a pleasure to offer special blinds designed for ships – especially for bridge windows.

Blinds are darkening sunlight, but do not change the colours. Material possess suitable sea certificates and are available in the following film colours: silver, grey and bronze.

On the next page you will find other technical information about light transmission, absorption and reflection.





- STEEL WORKS

We are co-operating with very experienced team for steel works.

The works can be arranged in every port or yard in Europe. The team is also in disposal of any technical devices that are necessary to execute steel works.

If you would be interested to make vessel's repair in Gdynia then we can also arrange place at quay (up to about 350 meters) where the vessel will stay during repair's time.



- PAINTING WORKS



Painting works are the next service that can be arranged by us in co-operation with high specialized painting company.

Our partner was established in 2002 and till now they realised a lot of works in Poland and some ports / yards in Europe.

At this moment painting company is in disposal of about 100 workers.

As it was described in case of steel works also here we can offer not only workers but fully equipped (in technical devices) painting teams.

In case of any questions please do not hesitate and contact us – we will answer as soon as possible.



- CONTACT DETAILS

In case of any inquires please contact us by e-mail (preferred way): biuro@fraant.pl or by fax: +48 58 671 90 12.

You can also call: +48 503 155 877.

We can promise our answer / offer as soon as possible.



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