



# MARINE ELECTRONICS



**NAVIGATION AND STEERING**

**GMDSS** (*GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM*)

**VDR** (*VOYAGE DATA RECORDER*)

**CALIBRATION**

**AUTOMATION**

**BWMS** (*BALLAST WATER MANAGEMENT SYSTEMS*)



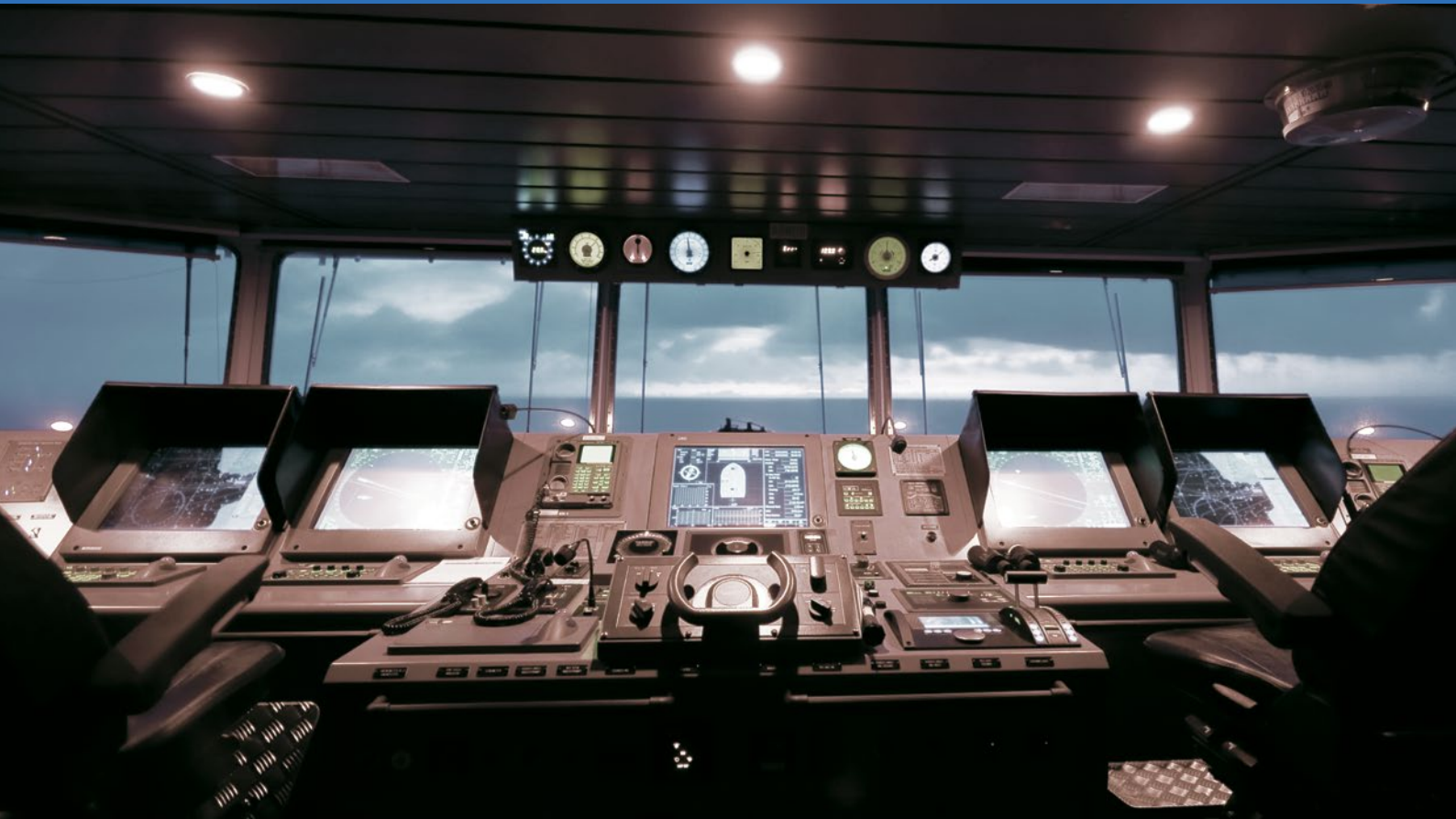
 **METALOCK**  
BRASIL

SERVICES

METALOCK  
BRASIL



## ABOUT US



Metalock® Brasil operates electronics laboratories located in Santos and Rio de Janeiro ports, from where local logistics and arrangements are made for the attendance of customers.

All our service engineers have technical qualifications attending to the requirements of the manufacturers, regulatory bodies and Classification Societies with whom Metalock Brasil works. They are fully factory trained and kept abreast of technological development.

State of the art test equipment is used, which is constantly updated, upgraded and calibrated according to the ISO 9001:2015 standard.

Metalock Brasil has a network of qualified subcontractors along the Brazilian coast, as well as in some other worldwide ports, thus often being able to offer local service, minimizing travel and time costs.

### Activities and Services

- Corrective, Predictive and Preventive Maintenance
- Installation Survey
- Initial Survey
- Periodical Survey
- Renewal Survey
- Retrofitting
- Newbuilding Installation
- Commissioning
- Design and Integration

### Accreditations

- ABS
- BV
- DNV-GL
- Lloyds Register
- Class NK
- RINA

## NAVIGATION AND STEERING



- IBS (Integrated Bridge Systems)
- Radar
- Conning
- ARPA (Automatic Radar Plotting Aid)
- ECDIS (Electronic Chart Display Information System)
- Gyrocompass
- Magnetic Compass
- Auto-Pilot
- Speed Log
- Echo Sounders
- GNSS (Global Navigation Satellite System)
- BNWAS (Bridge Navigation Watch Alarm System)

## GMDSS (GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM)



### Bridge equipment:

- MF/HF
- VHF
- Inmarsat - C
- SSAS (Ship Security Alert System)
- EPIRB (Emergency Position Indicator Radio Beacon)
- SART (Search And Rescue Transponder)
- AIS (Automatic Identification System)
- LRIT (Long Range Identification & Tracking)
- VSAT (Very Small Aperture Terminal)
- TV-at-sea
- Internet-at-sea

### Shore-based equipment:

- GMDSS (Global Maritime Distress and Safety System) Stations
- AIS (Automatic Identification System)

### Activities:

- Safety Radio Survey (GMDSS and MODU)
- Mandatory Annual Testing of AIS, EPIRB, LRIT, SART, AIS-SART and SSAS



- **VDR (Voyage Data Recorder)**
- **S-VDR (Simplified Voyage Data Recorder)**
- APT (Annual Performance Test) for VDR and SVDR
- Installation
- Integration
- Retrofitting and upgrading
- Commissioning

**Manufacturers Represented:**

- AMI
- Headway
- Highlander
- JRC
- Kelvin Hughes
- MacGregor
- Netwave
- Rutter
- Samsung
- Transas
- Wärtsilä SAM Electronics

**CALIBRATION**



**Instruments:**

- UTI (Ullage Temperature Interface)
- Pressure
- Environment (Multigas Detector, Explosimeter, Oxygen Detector)
- Temperature
- Electrical
- Dimensional

**Authorized Service Representatives for:**

- Riken Keiki

# AUTOMATION



- MSB (Main Switch Board)
- ICMS (Integrated Control and Monitoring System)
- MEAS (Main Engine Automation System)
- PMS (Power Management System)
- UMS (Unattended Machinery Space)
- AMS (Alarm Monitoring System)
- AVR (Automation Voltage Regulator)
- PLC (Programmable Local Controller)
- Oil Mist Detector
- Fire Control System
- Propulsion Control System
- Control Panels
- Inverter Systems
- Oil / Water Separation

## Electric and Hydraulic Automation

- Crane System
- Power Pack
- Mooring & Anchor Winch
- Steering Gear
- Cargo Control System
- Ramp Control System
- Hatch Cover and Folding Control System
- Watertightness Integrity Surveys - Accredited

## BWMS (Ballast Water Management Systems)

- Engine Space Scanning and Project
- Integration
- Installation
- Commissioning

## ELECTRONICS

- ALPHATRON MARINE
- AMI
- BEMAC UZUSHIO ELECTRIC
- CONSILIUM (RADAR)
- DECKMA VIA SKF MARINE
- GRAVINER
- HEADWAY
- HIGHLANDER
- ICS ELECTRONICS
- MACGREGOR GERMANY INTERSCHALT
- JOTRON
- JRC
- JRCS
- KANGRIM
- KANNAD MARINE
- KELVIN HUGHES
- KTE
- NABTESCO
- NAKAKITA SEIKAKUSHO
- NK CO. LTD.
- OROLIA  
KANNAD · McMURDO · NETWAVE · RUTTER
- RIKEN KEIKI
- SAAB TRANSPONDERTECH
- SAIERNICO ELECTRIC
- S&SYS SAMSUNG HEAVY INDUSTRIES  
POWER & CONTROL SYSTEMS DIVISION
- TAIYO ELECTRIC
- WÄRTSILÄ SAM ELECTRONICS · TRANSAS
- YOKOGAWA

## ELECTRO-MECHANICAL

- DMW CORPORATION
- EMOD MOTOREN
- EVOQUA
- EPOCAST ITW ENGINEERED POLYMERS
- FUKUI SEISAKUSHO
- HYUNDAI GLOBAL SERVICE  
ENGINE AND MACHINERY (HIMSEN, MAN B&W, WinGD)  
ELECTRO ELECTRIC SYSTEMS
- IKNOW ex TSUJI MARINE SERVICES
- INTELLIGENT ENGINEERING  
SPS SANDWICH PLATE SYSTEM
- J-ENG UE ENGINE
- KANGRIM
- KAWASAKI HEAVY INDUSTRIES
- KAWASAKI PRECISION MACHINERY
- MARELLI MOTORI
- MET TURBO (MITSUBISHI)
- MIRAE INDUSTRIES
- NAMURA SHIPBUILDING CO.
- OPTIMARIN
- PANASIA
- REINTJES
- SHANGHAI NSE
- SHINKO
- SKF MARINE SIMPLEX · TURBULO
- S&SYS PURIMAR
- STEYR MOTORS
- TAIYO ELECTRIC
- TEIKOKU
- WEG
- YANMAR - LARGE MARINE ENGINE

## LIFE SAVING APPLIANCES

- ALAMARIN JET
- D-I DAVIT INT. - HISCHE
- FASSMER-MARLAND
- FASSMER SERVICE
- GLOBAL DAVIT
- HATECKE
- HOEI SENPAKU
- HYUNDAI LIFEBOATS & BADA
- IKNOW ex TSUJI MARINE SERVICES
- IMC - JMU EX IHI MARINE
- JIANGSU JIAOYAN MARINE  
JIANGYIN XINJIANG F.R.P
- MANSEI INC.  
INCLUDING MIURA MACHINE VIDER
- NISHI-F
- NK CO. LTD. THE SAFETY CO.
- ORIENTAL PRECISION
- QINGDAO BEIHAI
- SEKIGAHARA SEISAKUSHO
- SHIGI
- STEYR MOTORS
- SURVIVAL SYSTEMS INTERNATIONAL
- VIKING - NADIRO
- ZHENJIANG AUX MACHINERY



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