



# Klaipeda University Research Vessel MINTIS

TECHNICAL  
SPECIFICATION



Klaipeda  
University



EU CONEXUS

European University for Smart  
Urban Coastal Sustainability

# r/v MINTIS

## GENERAL

|                     |                                               |
|---------------------|-----------------------------------------------|
| Year Built, Builder | 2014, Western Baltija Shipbuilding            |
| Registered Owner    | Klaipeda University                           |
| Classification      | PRS - Polish Register of Shipping             |
| Class Notation      | KM SPECIAL PURPOSE SHIP I L3<br>AUT NAV 1 DP1 |
| Flag                | Lithuanian                                    |
| Port of Registry    | Klaipėda                                      |
| IMO Number          | 9713636                                       |
| GMDSS Area          | A1+A2+A3                                      |

## CARGO GEAR CAPACITIES

|                  |                                    |
|------------------|------------------------------------|
| Deck crane PS    | 6 tons/3 tons                      |
| Deck Crane SB    | 12 tons/6 tons                     |
| Aft A-frame      | 14 tons                            |
| Deck winches     | 2x7 tons (350 m), 2x3 tons (350 m) |
| Side A-frame     | 0.9 tone (200 m)                   |
| Telescopic crane | 0.9 tone (300 m)                   |

## LIFE SAVING EQUIPMENT

|                                                            |                                       |
|------------------------------------------------------------|---------------------------------------|
| Life Rafts                                                 | 2 x 20 person SOLAS approved          |
| MOB boat                                                   | 1 x RIB boat for 6 pers, 40 HP engine |
| Rescue Suits                                               | For 18 persons + 2 kids               |
| All other life saving appliances as per SOLAS requirements |                                       |

## PERFORMANCE

|               |                                       |
|---------------|---------------------------------------|
| Max Speed     | 11.6 knots (consumpt.-310 l/h)        |
| Cruise Speed  | 8.6 knots (consumpt.-110 l/h)         |
| Minimum Speed | 0.1 knots (DP), 2.5 knots (Autopilot) |

## POSITION KEEPING SYSTEMS

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| DP System                | NAVIS NavDP4000                                                                  |
| 4 Point Anchoring System | 2 Front & 2 Aft anchoring system up to 15 m water depth depending on bottom type |

## PROPULSION SYSTEM

|                 |                                   |
|-----------------|-----------------------------------|
| Type            | Diesel Elctric                    |
| Main DG's       | CATERPILLAR C32 Accert 2x804 ekW  |
| Harbour DG      | CATERPILLAR C6.6 Accert 1x143 ekW |
| Stern Thrusters | 2 x SCHOTTEL STP 550, 700 kW each |
| Bow Thrusters   | 2 x SCHOTTEL STT 110, 150 kW each |

## ACCOMMODATION

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Cabins for Scientists | 5 double cabins                                                       |
| Cabins Crew           | 2 single and 3 double                                                 |
| Total                 | 10 scientists and 7-8 crew                                            |
| Comfort               | Each cabin hase WC and shower and individual control of cabin heating |
| Other facilities      | Messroom, Galey, Loundry, Workshop, Equipment store, TV               |

## CAPACITIES

|                  |                          |
|------------------|--------------------------|
| Deck Cargo       | Max 40 tons              |
| Container capac. | 2x20' and 3x10' or 5x10' |
| Fuel Oil         | 104 m³                   |
| Fresh Water      | 72 m³                    |

## NAV & COM EQUIPMENT

|                    |                                                 |
|--------------------|-------------------------------------------------|
| VHF                | 2 x JRC NCM-1770                                |
| SSB                | JRC NCM2150                                     |
| RADAR's            | X-band JRC JMR-9225-6X<br>S-band JRC JMR-9230-S |
| ECDIS              | JRC JAN-9201                                    |
| Echo sounder       | JRC JFE-380                                     |
| Gyro Compass       | YOKOGAWA CMZ 900 / JRC JLR-31                   |
| Mag.Compass        | Lilley & Gillie MK2000S                         |
| Auto Pilot         | Simrad AP70                                     |
| Navtex Receiver    | JRC NCR-333                                     |
| Main Pos. System   | JRC JLR-7800                                    |
| Sec. Pos. System   | JRC JLR-31                                      |
| DP Pos. System     | FUGRO 9205                                      |
| Speed Log          | JRC JLN-550                                     |
| AIS                | JRC JHS-183                                     |
| Immarsat C         | JRC JUE-87                                      |
| Portable VHF radio | 2 x ACR SR203                                   |
| SART               | 2 x ACR PathFinder                              |
| EPIRB              | 1 x GME MT603FG                                 |

## DIMENTIONS

|                 |                                      |
|-----------------|--------------------------------------|
| Length Over All | 39.25 m                              |
| Breadth         | 12 m                                 |
| Draft (max)     | 3.0 m<br>(Without retracted equipm.) |
| Draft (shalow)  | 2.8 m                                |
| Air Draft       | 16.2 m                               |
| GRT/NRT         | 499/149                              |
| Deadweight      | 161 ton                              |
| Clear Deck Area | 120 m²                               |

## RESEARCH CAPACITIES

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| Geo Laboratory (Stationary)                                                                         |
| Area - 15.3 m², Core sampling table lenght - 6 meters, Fume Hood, dryers and freezers.              |
| Bio Laboratory (Stationary)                                                                         |
| Area - 10 m², Fume Hood, water sampler containers service facility.                                 |
| Mobile laboratories                                                                                 |
| Lashing points, electricity, LAN network and water suply for portable 2x20' container laboratories. |

|                                                                                                |
|------------------------------------------------------------------------------------------------|
| Survey Workplace                                                                               |
| 3 x Stationar Siencific work places on the Bridge; LAN and RS232 network incuding outer decks. |

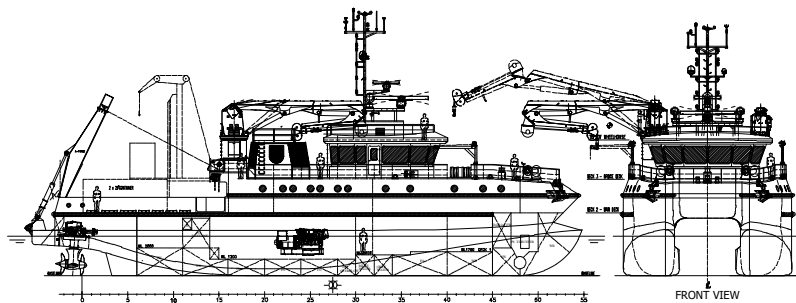
## OPERATIONAL LIMITS

|           |                                 |
|-----------|---------------------------------|
| Cruise    | max 2,0-2.5 m waves, 18m/s wind |
| Surveying | max 1-1.5 waves, 12m/s wind     |

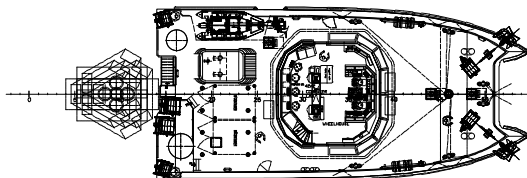


## RESEARCH EQUIPMENT

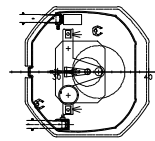
|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Primary GPS                | Septentrio AsteRx-U-Fg                                                                         |
| Secondary GPS              | Fugro SeaStar 9205                                                                             |
| INS positioning            | iXblue Rovins                                                                                  |
| Primary MRU, Gyro          | iXblue Rovins                                                                                  |
| Secondary MRU              | iXsea Octans 3000                                                                              |
| Multibeam Echosounder      | Reson Seabat 7125, Moonpool mounted                                                            |
| Sidescan Sonars            | Klein 3000                                                                                     |
| Cz Magnetometer            | 2 x Geometrics G882                                                                            |
| Gradiometer                | TVG frame geomatrix G882                                                                       |
| Streamer                   | GeoEel Digital Streamer                                                                        |
| Energy source              | SIG Mille Sparker and Boomer up to 1000 Joules                                                 |
| Sub Bottom                 | Inomar Ses 2000 Light                                                                          |
| Current profiler           | Teledyne WorkHorse ADCP                                                                        |
| Water sampling             | Multiwatersampler Hydrobios PRS with integrate Sea&Sun CTD115<br>3 x Multi Sediment Trap MST24 |
| Plankton sampling          | Set of Apstein plankton nets                                                                   |
| Seabed sampling            | Hydrobios Van Veen Grabs<br>Vibro core VKG 3-6 core up to 5.5 m                                |
| Software                   | QPS Qinsy, Qimera, Fledermaus, SonarWiz                                                        |
| Side pole                  | For temporary equip. mounting, SWL up to 200 kg.                                               |
| SSS/Equipment towing winch | EIVA OceanEnviro 8.6                                                                           |
| USBL                       | Sonardyne Mini-Ranger 2 USBL                                                                   |



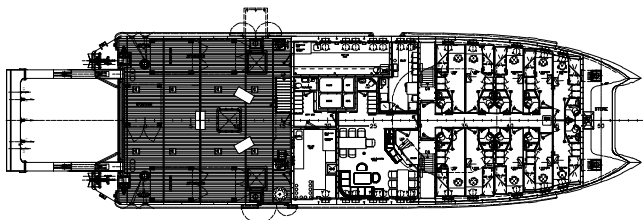
FRONT VIEW



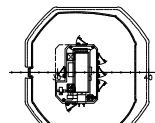
DECK 3 - BRIDGE DECK



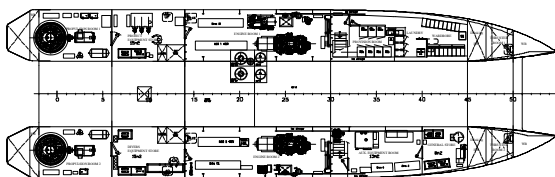
WHEELHOUSE TOP



DECK 2 - MAIN DECK



VENTILATION ROOM



DECK 1 - TANK TOP

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