

KLAIPEDA UNIVERSITY RESEARCH VESSEL MINTIS

Technical specification

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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 AUT NAV 1 DP1
Flag	Lithuanian
Port of Registry	Klaipėda
IMO Number	9713636
GMDSS Area	A1+A2+A3

DIMENSIONS	
Length Over All	39.25 m
Breadth	12 m
Draft (max)	3.0 m (Without retracted equipm.)
Draft (shallow)	2.8 m
Air Draft	16.2 m
GRT/NRT	499/149
Deadweight	161 ton
Clear Deck Area	120 m ²

PERFORMANCE	
Max Speed	11.6 knots (consumpt.-310 l/h)
Cruise Speed	8.6 knots (consumpt.-110 l/h)
Minimum Speed	0.2 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

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

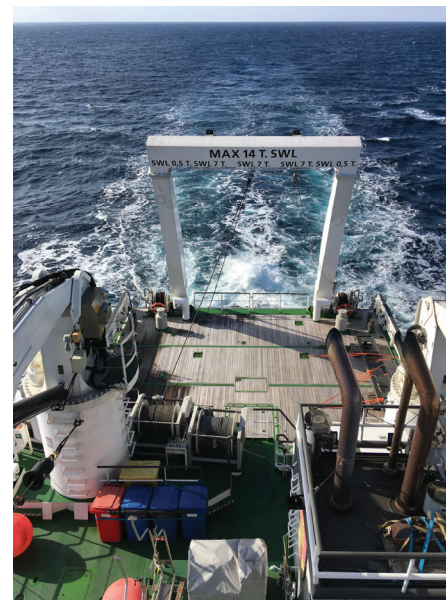
CARGO GEAR CAPACITIES	
Deck crane PS	6 tons / 3 tons
Deck Crane SB	12 tons / 6 tons
Aft A-frame	14 tons
Deck winches	2x7 tons (350 m), 2x3 tons (350 m)
Side A-frame	0.9 tone (200 m)
Telescopic crane	0.9 tone (300 m)

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

ACCOMMODATION	
Cabins Scientific	5 x 2 berths + Shower/WC
Cabins Crew	2x1 and 3x2 berths + Shower/WC
Total	10 scientists and 7-8 crew
Other facilities	Messroom, Galey, Laundry, Workshop, Equipment store

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	

NAV & COM EQUIPMENT	
VHF	2 x JRC NCM-1770
SSB	JRC NCM2150
RADAR's	X-band JRC JMR-9225-6X S-band JRC JMR-9230-S
ECDIS	JRC JAN-9201
Echo sounder	JRC JFE-380
Gyro Compass	YOKOGAWA CMZ 900
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



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RESEARCH CAPACITIES	
Geo Laboratory (Stationary)	Area - 15.3 m ² , Core sampling table length - 6 meters, Fume Hood, dryers and freezers.
Bio Laboratory (Stationary)	Area - 10 m ² , Fume Hood, water sampler containers service facility.
Portable laboratories	Lashing points, electricity, LAN network and water supply for portable 2x20' container laboratories.
PC Workplace	3 x Stationary Scientific work places on the Bridge; LAN and RS232 network on the vessel including outer decks.

OPERATIONAL LIMITS	
Cruise	2,5-3m waves, 18m / s wind
Surveying	1-1.5 waves, 12m / s wind

RESEARCH EQUIPMENT	
Positioning	Septentrio AsteRx-U MARINE (Fg) C
MRU	iXsea Rovins
Multibeam	Reson Seabat 7125, Monpool
Echosounder	mounted
Sidescan Sonars	Klein 3000, Klein 3900
Interferometric MBES	Geoswath Compact 500khz
Cz Magnetometer	2 x Geometrics G882
Gradiometer	TVG frame geomatrix G882
Streamer	GeoEel Digital Streamer
Energy source	SIG Mille Sparker and Boomer up to
Sub Bottom	Inomar Ses 2000 Light
Current profiler	Teledyne WorkHorse ADCP
ROV	Mariscope Inspection class ROV
Water sampling	Multiwatersampler Hydrobios PRS with integrate Sea&Sun CTD115 3 x Multi Sediment Trap MST24
Plankton sampling	Set of Apstein plankton nets
Seabed sampling	Hydrobios Van Veen Grabs Vibro core VKG 3-6 core up to 5.5 m
Software	Hypack 2015 QPS Qinsy, Fledermaus, Qimera
Side pole	For temporary equip. mounting, SWL up to 200 kg.
SSS/Equipment towing winch	350 m coaxial cable, SWL - 1 ton