

LIGHTHOUSE

Thinking Ahead. Staying One Step Ahead.

R/V DP1 FILOMENA I



LIGHTHOUSE S.p.A.

Sede Operativa: Via Prati, 1/1 - Ponte Ronca 40069 Zola Predosa, Bologna - Italy
P +39 051 6516716 - F +39 051 6516719 - p.i. / c.f. 03582530378

Sede Legale: Via Calzavecchio, 23 - 40033 Casalecchio Di Reno, Bologna - Italy
numero d'iscrizione al registro imprese di Bologna 03582530378; r.e.a. Bologna 301090;
Capitale Sociale 400.000,00 euro i.v.

soggetta a coordinamento e controllo di LIGHTHOUSE GROUP srl p.i. 02585771203

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MAIN DETAILS

Type vessel:	Research / Bathymetry / Survey / Geotechnical / ROV survey
Class:	C Special service research ship unrestricted Dynapos AM
Call sign:	IIT12
IMO number:	8652859
Built:	Ortona Navi, 2009
Converted:	2013
Port of registry:	Napoli
Trading area:	Unlimited

MAIN DIMENSIONS

Length o.a.:	46,87 m
Beam:	9,20 m
Draft:	3,00 m
Gross tonnage:	398 GT
Net tonnage:	119 NT

CAPACITIES

Max speed:	14 knts
Economy speed:	7 knts
Cruising speed:	10 knts

MACHINERY

Main engine:	2x Cummins KTA 50 M2
Thruster bow:	75 kw 1480 rpm
Thruster stern:	2x55 kw 1475 rpm

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CRANES / A-FRAME

Cranes:	Viscovo Crane VMCR 12000 ST/3 R1 - DWL. max 28.45 KN Viscovo Crane VMCR 35000 ST/4 R1 - DWL. max 58.86 KN Viscovo Crane VMCR 45000 ST/3 R2 - Port. DWLmax 58.07 KN
A- Frame:	DWL max 63 KN
Winch:	n°2 Electric Engine

COMMUNICATION EQUIPMENT

Satellite:	JRC Inmarsat FB 250
DSC Decoder MF / HF:	Sailor HC4500
DSC Decoder VHF:	Sailor 6222
Mobile telephone:	Thrane & Thrane mod. Sailor
Cospas - Sarsat EPIRB:	JOTRON 406 / 121.5 MHZ
Radar transponder 9 GHZ:	SIMRAD
E-mail/Data Link facilities	V-Sat KU-Band Satel DIGITARIA

AIR-CONDITIONING – HEATING

Air cond. / heating	all rooms
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ACCOMODATION

Accommodations for scientific crew	18 beds in single/double cabins, for crew, technicians and customers
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PERMANENT INSTALLED EQUIPMENT

DGPS Navigation	1 Cnav 3050 GPS+GLONASS 1 Cnav 2050 M
Gyro	2 x Octans Ixsea version IV 1 x Meridian surveyor
Motion Sensor	1 MRU TSS 1 OCTANS
USBL	Sonardyne Fusion
MBES shallow water	R2SONIC 2024 200-400 kHz
MBES deep water	ELAC SEABEAM 3050 50 kHz
SVP	Reson Navitronic SVP 15 / - Valeport mini SVP
Side Scan Sonar	Klein 3000 100-500 kHz SSS c/w 3000 m tow cable or combined SSS/SBP Edgetech 2000 DSS
Sub Bottom Profile	Edgetech SBP 3100 / Innomar SES2000 Standard / Edgetech 2000 DSS
Magnetometer	Geometrics G882
Coring Equipment	Kulleberg Type Drop Corer, , Van Veen Grab,

EQUIPMENT AVAILABLE ON REQUEST

Side Scan Sonar	Klein 3900 High resolution Sonar 445/900 Khz
Coring Equipment	Geo resources Piston Corer Georesources 6000 Vibrocorer
Geotechnical Equipment	MCPT Datem 3000 Neptune
Single Channel	CSP-D 1200 applied acoustics source system squid 2000 sparker - HV2000 50 mt HV cable 12 element streamer hydrophone C7W 50 mt tow leader
Multichannel Seismic Acquisition & Processing Systems (optional-on request)	Hydrophone Array: Sercel SEAL 24bit digital array Digicourse 5010 Levellers Recording System :Sercel HR SEAL 408 system Air Guns volume on request QC & processing system: Promax 2D
EQUIPMENT IN THE PROCESSING ROOM	Caris Hips & Sips – Bathymetric data processing SonarWiz Mosaic software AutoCAD and G.A.S. software 1x Gb NAS Server 4 Personal Workstation HP Plotters A0Colour Printers
ROV	AGEOTEC Sirio, Perseo and Pegaso

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A view of the bridge



Filomena's Engine room

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a double bed cabin and a view of the kitchen



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a view of the deck and crane

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