

INDEPENDENT INNOVATIVE SOLUTIONS

OSD-IMT2001 SCIENTIFIC RESEARCH VESSEL

GENERAL INFORMATION

Vessel Type	Scientific Research Ship
Class	Taiwanese Classification Society (CR) ✠ CR100, Research Vessel, ✠ CMS, CAU*, IWS, DPS-1, E, SPS
LOA	75.97 m
LBP	67.47 m
Beam	16.00 m
Depth	6.50 m
Design Draft	4.35 m
Gross Tonnage	2581 tonnes
Net Tonnage	774 tonnes
Speed (Cruise)	10 knots
Speed (Max)	12.5 knots
Endurance	35 days

CAPACITIES

Clear Deck Area	330 m ²
Deck Sockets to accept	6 20ft containers and 1 40ft container
Deck Loading	5 tonnes/m ²
Ships Fuel Oil	549 m ³ at 98%
Fresh Water	400 m ³ at 100%
F.W maker	10 tonnes/day

ACCOMMODATION

Complement	43 Maximum
Cabins	6x Single, 15x Double, 1x 3man & 1x 4man
Accommodation	Mess room, Meeting, Room/ Lounge, Hospital, Laundry, Gym

WORKING SPACES

Wet Lab, Bio Geochemical Lab, Main Lab, Computer Server Room, Scientific Refrigerator, Deck Office's, Survey Office. Electrical Equipment Room

DIESEL ELECTRIC PROPULSION CONFIGURATION

Main Generator Sets	2x 1550 kW @ 1800 rpm 2x 940 kW @ 1800 rpm
Propulsion Motors	2x 800 kW Electric Motor
Steerable Azimuth Units	2x 4 Blade FP/Nozzles

Harbor Set	1x	340kW @ 1800 rpm
Emergency Generator	1x	113kW @ 1800 rpm
Bow Thruster	2x	750 kW

DECK MACHINERY

Stern "A" frame	20	tonnes SWL Width 6.28m height 7.0 m
Port side ROV A frame	8	tonnes SWL
Starboard side A frame	20	tonnes SWL width 4m height 6 m
Deck Crane No1	15	tonnes @ 12 m outreach
	6	tonnes @ 20 m Outreach
Deck Crane no 2	6	tonnes @ 12 m outreach
Deep sea Traction Winch		Max pull 15 tonnes @ 45m/min. Max pull 7.5 tonnes @ 90m/min Holds 8000m of 25mm Dyneema type wire
Multi-purpose Winch		Max pull 2.5 tonnes. Capacity to Store 6000m of 16mm galvanized steel wire.
Vibrocore Sampler		Core-sampling operation at a depth up to 600m

SURVEY EQUIPMENT

Multi beam Echo sounder	Kongsberg EM 2040
Sound Velocity @Head	Valeport Ultra SV
Sound Velocity Probe	AML Oceanographic Plus X
Side Scan Sonar	Edgetech 4200
Sub-bottom Profiler	Edgetech 3300-HM 5x5 Array
Deep Sea Multi-Beam, Shallow Water Multi - Beam, Single Beam Echo Sounder, Ultra-Short Base Line SONAR System (USBL), ADCP	

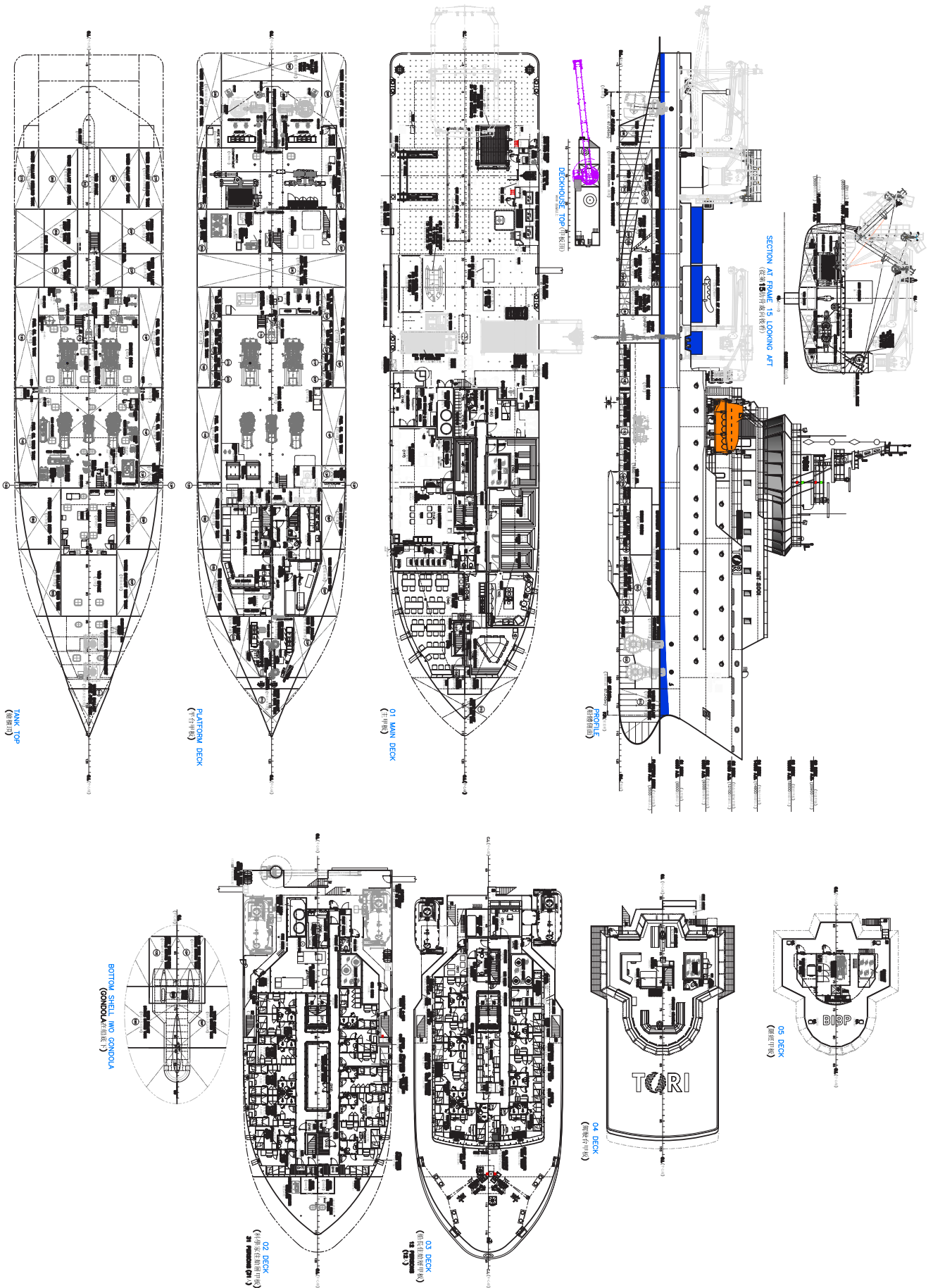
Digital Recording	Geometrics G-882
Seabed Sampling	3/6m Gravity / Vibrocorer Grab Sampling
Geotechnical capability	CPT and Vibrocorer
Environmental capability	Day / Van Veen Grabs Stills & Video Camera Box Corer

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SHIP DESIGN & MARINE CONSULTANCY

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