PRECISE AND PRACTICAL

OSD-IMT RESEARCH VESSEL DESIGNS

BESPOKE RESEARCH VESSEL DESIGNS
TAILORED TO YOUR NEEDS
EXPERIENCED, PRACTICAL, SHIP DESIGNERS

OSD-IMT.com
PROVEN HULL FORMS
Proven Hull forms, developed to minimise the effects of bubble sweepdown, whilst still being fuel efficient.

KNOWLEDGE & EXPERIENCE
OSD-IMT has detailed knowledge of the placement and integration of the Scientific equipment and Overside handling equipment.

TANK TESTS
Working with Model test tanks and propeller manufacturers to minimise propeller and appendage cavitation.

SEE THE FUTURE
We use 3D design to provide the Customer with clear visualisation of key operational areas.

CFD ANALYSIS
Hull form development through CFD analysis and physical model testing, including bubble sweepdown, powering, seakeeping and propeller cavitation testing.

SUPPLIERS
OSD-IMT works closely with the Transducer suppliers to produce optimised configurations.

NOISE & VIBRATION
OSD-IMT is experienced in producing low noise ship designs, including underwater radiated noise.
OSD-IMT2001 OCEANOGRAPHIC RV
A 76m, ocean capable research vessel designed for a multitude of operations including ROV Underwater operation and monitoring, Sonar Measurement and mapping of Topology and Stratum, Sonar Terrain surveying and mapping, Seismic pattern detection and Piston core and Deep water sea bed sampling.

Key features include:
- Survey equipment mounted in a Gondola, to isolate the equipment from bubble sweepdown and hull vibrations.
- Three-deck mounted “A” frames to handle an ROV and over side equipment including Vibro-corners, CDT equipment and grab samplers.
- Resiliently mounted equipment ensures low on-board noise levels.
- Noise and vibration considered throughout the design, including resiliently mounted main and auxiliary equipment, noise source separation from transducers, acoustic privacy design for accommodation.

OSD-IMT2003 GEOTECHNICAL RV
The features of this vessel are optimised for gathering geological samples and hydrographic surveying in shallow waters. Key features include:
- Shallow draught.
- Four-point mooring system for precise location in shallow waters.
- Drill and core sampling tower to permit deep samples of the seabed to be retrieved, stored and analysed on board.
- Safety features related to gas emissions from the seabed.
- Compliant with DNV notations Silent-A, and Silent-S.
- Storage for up to 220 core samples of varying diameters under temperature-controlled conditions.

OSD-IMT2006 FISHERIES RV
Designed to transmit a low noise signature to avoid any adverse interference with marine creatures and fishery research equipment. Key features include:
- DNVGL SILENT F notation.
- Stern “A” frame for deployment and recovery of scientific and sampling equipment.
- Stern ramp for retrieving nets and trawl gear.
- Two drop down keels and a gondola for transducers.
- Single large propeller/Shaftline arrangement with slow speed motors (no gearbox) for low noise towing/surveying operations.
- Enclosed ROV hangar with launching davit.

OSD IMT
SHIP DESIGN & MARINE CONSULTANCY
OSD-IMT is a global one-stop resource delivering naval architecture and marine engineering expertise to the shipping and offshore industries. We can also assist our clients with benchmarking shipyards and equipment.

Our experienced workforce provides high-quality feasibility studies and conceptual and detailed designs for tugs and harbour craft, dredgers, ferries, yachts and offshore support vessels of all types such as PSV’s, SSBV’s, AHTS, field support, tanker-assist and survey/ROV support vessels.

Our key strengths are a strong knowledge base, a commitment to environmentally conscious technology and a close relationship with our clients. OSD-IMT has offices in Hoofddorp, The Netherlands, Bideford and Dundee (UK) and in Singapore.

HEAD OFFICE HOOFDDORP
+31 255 545 070
info@osd-imt.com

UK OFFICES
+44 1237 420 085
info@osd-imt.com

SINGAPORE OFFICE
+65 6265 1154
info@osd-imt.com

OSD-IMT.com