

The logo for MOC GROUP is rendered in a bold, black, sans-serif font. The letters 'O' and 'O' in 'MOC' and 'O' and 'O' in 'GROUP' contain stylized white wave-like patterns. The background of the entire image is a light blue-grey color with a hexagonal grid pattern. In the upper right quadrant, there are faint, white wireframe illustrations of a large industrial ship and various mechanical components like pipes and valves.

MOC GROUP

**INTERNATIONAL EXPERTS IN
INDUSTRIAL ENGINEERING**

**'...relentlessly in pursuit of
the Exceptional'**

MOC GROUP



- Naval engineering
- Marine studies
- Basic & Detail design

- Offshore technical consultancy
- Marine operations
- MWS, CVA

- Marine fabrication
- Offshore maintenance
- Integrated installation supply

- Environmental studies
- CFD & FEM analysis
- Reverse engineering

MOCE GROUP



- Research Engineering
- Major Infrastructure Projects
- EPCIC Projects



- Logistics & Supply Chain
- Marine & Offshore EPC Projects
- Marine & Offshore Maintenance



- Turnkey Projects
- Asset Integrity Services
- Technical Investigation & Repair



Understanding and Knowledge

...of the Offshore & Marine Industries

Trained Manpower

...operating at high quality standards

Partnership

...with the Academic Society and Authorities

Quality

...for each service particulars and typology

Trust & Reputation

...our name, best warranty services



Engineering Department - uses specialized software packages (some of them displayed here) to design, evaluate, verify and confirm:

- Basic Design for marine & offshore systems
- Naval architecture studies
- Structural resistance (including catenaries)
- Fatigue assessment
- Fluid dynamics
- Technical & Detail Design
- SURF capability verification
- Extreme weather effects
- Project Feasibility (Technical, Financial, Operational, etc.)
- Fabrication technology and production information
- Assembly sequence and functional manuals
- Transport and Installation loads assessment

Sesam™

Innovative offshore engineering made easy

Flexcom.

3D SOLIDWORKS



AVEVA

CONTINUAL PROGRESSION



Risk Management Team - utilizes both in-house developed applications and specialized software tools (some of which are shown here) to design and assess risk management strategies.

- Standard Operating Procedures
- ALARP Demonstration
- Failure Mode and Effects Analysis (FMEAs)
- Vapor Cloud & Gas Dispersion
- Fire and Explosion Risk Assessment
- Occupied Building Risk Assessment
- Quantitative Risk Assessment
- Reliability, Availability and Maintainability Study
- Safety Critical Elements Study
- Simultaneous Operations Plan
- Hazard Identification
- Operational Hazard Evaluation



Fabrication Management Team - involves highly skilled technical personnel with experience and expertise on following fields:

- Project Management for Marine & Offshore Construction
- Retrofit and upgrade of industrial facilities
- Process Optimization Solutions & Implementation
- Maintenance Services for offshore & onshore facilities
- Shipbuilding Technology
- Marine Structures Fabrication process
- Ship-in-service maintenance
- Ship conversion solutions



Offshore Management Team - supported by experienced engineers and master mariners provides the following services:

- Design Review and Construction Supervision
- Method Statements and Risk Assessments
- Feasibility Verifications, Due Diligence and Audits onsite
- Logistic Management Chain Optimization
- Onsite Management for Marine & Offshore Constructions
- Marine Operation Management
- Marine Warranty Survey and Loss Adjusting
- Marine Operations Debottlenecking and Troubleshooting
- Terminal and Quays Assessment
- Tender and Contract Technical Support



Decommissioning Team - backed by a team of experienced engineers and trained professionals, provides comprehensive support that covers:

- Decommissioning methods & risk assessment
- Blasting permitting and compliance verification
- Explosive materials logistic support
- Underwater operations with UXO trained personnel
- Offshore decommissioning with trained engineers and superintendents
- Development of demolition environmental management plans, EIA and regulatory compliance verification
- Offshore & onshore decommissioning and removal philosophies
- Underwater area reinstatement following offshore asset removal



Engineering track records:

- *Hybrid propulsion ammonia-diesel engineering – Constanta, Romania – 2024*
- *DP3 vessel Emergency Shut-Down, Fire & Gas matrices update – Indian Ocean – 2024*
- *Hybrid propulsion hydrogen-diesel feasibility study – Tulcea, Romania – 2023*
- *Well debris management study for offshore oil drilling – Black Sea, Romania – 2022*
- *Dynamic mooring analysis for pipelay of 48" pipeline – Baltic Sea – 2020*
- *Pipelay verification, installation RAMS, operational manual, stinger installation procedure – Baltic Sea – 2019-2020*
- *Transportation manual, naval architecture studies for offshore topsides, jacket & piles on heavy lift vessel – Atlantic Ocean – 2019*
- *Offshore fire protection system update for 5 offshore oil production platforms – Black Sea – 2018*
- *Feasibility Study for offshore windmill supporting monopile dynamic compensated hydraulic grabber – North Sea – 2018*
- *Marine exhaust gases scrubber installation engineering – Monfalcone, Italy – 2018*
- *HVDC submarine cable lay verification, installation RAMS, operational manual – North Sea – 2015*

Methods track records:

- *Offshore gas development (offshore platform, pipeline, onshore plant) risk studies, risk philosophies, critical infrastructure plan – Constanta, Romania – 2022*
- *Failure mode & effects analysis for pipelayer mooring spread fairleads – Baltic Sea, Germany – 2020*
- *Failure mode & effects analysis for DP2 vessel and DP trials – Black Sea, Romania – 2020*
- *ATEX compliance inspection on Siemens Skids NCOC – Campina, Romania – 2020*
- *RAMS (risk assessments & method statements) beach reinstatement Black Sea – Constanta sea-side, Romania – 2019*
- *Integrated ship design training on Aveva Marine – Orsova, Romania - 2019*
- *Petrochemical refinery HSE monitoring, HAZID, HAZOP studied – Navodari, Romania – 2018*
- *Integrated Management System development for bitumen terminal – Mangalia, Romania – 2018*
- *RA & ATEX compliance inspection on Emerson CASCADE CT55800 analytical system – Cluj-Napoca, Romania – 2018*
- *Fire protection training on HELLA factory – Timisoara, Romania – 2018*
- *Submarine cable loading, transport & installation risk assessments, HAZID, HAZOP – North Sea, UK – 2016*
- *Gas plant security studies, simulations (FERA, RAM, SIMOS, SCE, HAZID, HAZOP, SIL) and security plan – Oradea, Romania – 2016*

Fabrication track records:

- *Offshore vessel mobilization structures fabrication, installation & testing – Constanta, Romania - 2024*
- *Lifting appliances (A-Frames, lifting beams, special lifting appliances) – Constanta, Romania - 2024*
- *Cruise vessel shell doors fabrication – Constanta, Romania -2023*
- *Pipelayer winches foundations fabrication – Constanta, Romania – 2022*
- *Wrap foil factory recycled raw material installation mounting, commissioning & startup - Bucharest, Romania - 2021*
- *Pet food factory recycled raw material installation mounting, commissioning & startup – Slobozia, Romania - 2021*
- *Offshore jackets & topsides structural fabrication – Constanta, Romania – 2021*
- *Marine structures fabrication, equipment installation & mechanical completion – Krill fishing & processing vessel “Harvester” – Tulcea, Romania - 2020*
- *Marine structures fabrication, equipment installation & mechanical completion – Cruise vessel “Costa Venezia” – Tulcea, Romania - 2020*
- *Marine structures fabrication, equipment installation & mechanical completion – Cruise vessel “Carnival Panorama” – Tulcea, Romania - 2020*
- *Offshore pipelayer anchor spread marine buoys fabrication – Constanta, Romania – 2020*
- *Marine structures fabrication, equipment installation & mechanical completion – Luxury expedition vessel “La Champlain” – Tulcea, Romania - 2019*
- *Marine structures fabrication, equipment installation & mechanical completion – Luxury expedition vessel “La Lamperuse” – Tulcea, Romania -2018*

Operational track records:

- *Sea-bottom survey mobilization campaign for Neptun Deep Project – Black Sea, Constanta – 2024 – ongoing*
- *Vessel management for barges and tugs – Morwenna – Black Sea, Constanta – 2022 – ongoing*
- *Newbuild & ships-in-service ABS Class inspections – Worldwide - 2017 - ongoing*
- *Marine Warranty Survey for special cargo – Worldwide – 2014 – ongoing*
- *Marine Warranty Survey for drilling rigs relocation – Marmara, Mediterranean, Black Sea – 2019 – 2022*
- *Underwater UXO survey & pipelay monitoring – Black Sea, Romania – 2020 – 2021*
- *Fire protection & drainage system compliance inspection – Black Sea, Romania – 2017 - 2018*
- *IMO NOx compliance inspection on commercial vessels – Port of Constanta, Romania – 2017 – 2018*
- *Marine Warranty Survey for EPCI contract of Borkum Riffgrund II Offshore Windfarm – North Sea, Germany – 2017*
- *Repair & maintenance campaign on offshore windfarms– North Sea, Germany – 2015*
- *HVDC Submarine cable installation Gemini Offshore Windfarm – North Sea, Germany – 2014 - 2015*
- *HVDC Submarine cable recovery & replacement marine ops. coordination – Irish Sea, UK – 2014*

Decommissioning track records:

➤ Engineering, coordination & execution

- *Arcelor Mittal Cast Steel Section Demolition – Hunedoara, Romania – 2017 - 2021*
- *Caustic Soda Factory Demolition (group of 3 silos) – Ocna Mures, Romania – 2017 - 2019*
- *Charcoal Silos (5 groups of 4, 7 or 9 in a row) – Calan, Romania – 2017 - 2018*
- *Dolomite Silos (5 silos in a row) – Fizes, Romania - 2017*
- *Cellulose Plant Demolition – Calarasi, Romania – 2013*
- *Ammonia Plant Demolition – Arad, Romania – 2011*

➤ Engineering & Coordination

- *Underwater removal of reinforced concrete pillars – Tulcea, Romania – 2023*
- *Decommissioning of drilling rig – Black Sea, Romania – 2023*
- *Canned food factory demolition – Arad, Romania – 2022*
- *Granite mine blasting – Bistrita-Nasaud, Romania – 2020-2021*
- *Brick factory demolition – Jimbolia, Romania – 2018-2019*
- *Seabed rock removal – Mangalia, Romania – 2017*

Engineering (basic and detail design)

(3000man*h/month)

Procurement & Construction Pipe

(50t/month)

Procurement & Construction Steel

(120t/month)

Procurement & Construction Outfitting (30t/month)

Electrical & Instrumentation

(1000h/month)

Risk Engineering (incl. HSE)

(1200hrs/month)

Technical Assessment & Consultancy

(3600hrs/month)

Others

(1500h/month)

FINCANTIERI



saipem



BUMIARMADA



IBERDROLA



ҚазМұнайГаз
NATIONAL COMPANY ҰЛТТЫҚ КОМПАНИЯСЫ



Ørsted



ROMPETROL

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THANK YOU!

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