ICE has designed a robust and economical tanker for transport of crude oil, oil products and IMO Type 2 & 3 chemicals, with six cargo separations. Extensive model testing in ICE’s own ITTC-recognised towing tank combined with Computational Fluid Dynamics (CFD) analysis has resulted in a highly efficient hull form.

The 50,000 dwt tanker has a double-hull structure meeting international requirements for the prevention of marine pollution. Segregated fuel tanks for navigation world-wide as well as in ECA waters are included.

The vessel has been developed in accordance with the relevant HCSR and IMO regulations. She is a single screw motor tanker with low speed engine and high propulsion efficiency and has 12 cargo tanks, each equipped with submerged cargo pumps, plus 2 slop tanks and 1 retention tank. The ship will be fitted with a Tier III main engine, including EGR (exhaust gas recirculation), EGCS (exhaust gas cleaning system) and SCR (Selective catalytic reduction).

A Global Finite Element (FEA) analysis has been developed by ICE in accordance with the new IACS harmonised Common Structural Rules (CSR), enabling fast completion of the remaining design process to suit specific owner and yard requirements.

All cargo tanks and slop tanks are of double-hull structure and have sufficient strength to permit the carriage of a full cargo with specific gravity up to 1.025 t/cbm.
With a 50-year track record and an annual capacity of 700,000 professional engineering man-hours, the International Contract Engineering (ICE) Group is Europe’s largest independent ship design consultancy. We provide high-calibre multi-discipline design services to yards and owners in the commercial shipping, defence and offshore energy industries, ranging from conceptual studies and Class drawings to detail design and production information. We cover a full range of naval architecture and marine engineering disciplines such as hydrodynamics, structural, mechanical, piping, electrical, instrumentation, outfit and HVAC. Our experience includes gas carriers, passenger vessels, navy and coast guard ships, chemical tankers, drill ships, FPSOs, and a range of other vessels. We also have available proprietary designs that can be adapted to clients’ requirements.

With our head office in the Isle of Man and our main engineering facilities in Romania, we provide high quality design and engineering at very competitive prices.