UMOE MANDAL
Umoe Mandal AS was founded in 1989 in Mandal, Norway as a purpose-built shipyard specializing in composite Fiber Reinforced Plastic hull building materials and components.

We have grown steadily and today, we are the leading supplier of high speed, lightweight composite air-cushion catamarans and components for a variety of advanced applications in maritime, offshore and naval industries worldwide.

Our history of delivering pioneering naval vessels has set the ground-work for expanding into world-class commercial craft. Our latest contribution to the Renewables, O&G and Defense industries is the WAVECRAFT™ series of new generation Crew Transfer Vessels. These revolutionary vessels guarantee rapid transit time, excellent seakeeping and passenger comfort, superior fuel economy and minimal environmental footprint.

Our head office and state-of-the-art facilities for design, engineering and production are located in Mandal, a town in the most southern part of Norway.
This air-cushion catamaran-class of mine countermeasure vessel (MCMV) is designed to operate in varied and extreme environments. These all-composite construction, surface-effect ships are able to withstand 60 per cent less shockwave impact from underwater explosions compared to traditional monohulls of the same size. This proven ability comes from the protective air-cushion layer around the vessel's hulls, delivering levels of safety that are in a class of their own. Extremely sophisticated, fast, maneuverable and flexible, they are designed for excellence in a variety of operations.
Skjold-class coastal corvettes are the fastest armed craft in the world. They have a maximum speed in excess of 60 knots and an ability to maintain a speed of 50 knots in sea state 3, out-maneuvering many other vessels and enemy weapons systems. Skjold combines surface-effect ship and air-cushion catamaran technology with radar-absorbing materials, delivering stealth capabilities in combination with low fuel-consumption, low weight and a shallow draft, providing even quicker response and more rapid redeployment.
Commander series is a highly-sophisticated class of composite vessels specifically designed for high speed crew transport to the offshore wind sector, offering a more efficient access to wind farms and maximizing operational availability of the turbines. These air-cushion catamarans are based on proven SES technology using an advanced ride control system, which offers excellent seakeeping, maneuverability and passenger comfort. When approaching a turbine, the boarding control system (BCS™) is activated, significantly reducing heave and pitch motions and giving personnel easy and safe access to the turbine.
The Sprinter is designed to maximise the availability of wind turbines for minimal costs through the rapid transportation of service personnel to offshore wind farms. Sprinter vessels are designed as air-cushion catamarans and use advanced motion control system to offer increased service technicians’ efficiency due to excellent seakeeping and maneuverability of the vessel, and passenger comfort in high sea states. When approaching a turbine, boarding control system (BCS™) is activated, significantly reducing heave and pitch motions. This enables personnel to safely and simply step onto the turbine.
Designed to deliver extremely fast and smooth transfer of personnel for the offshore oil and gas industry, Voyager vessels offer a long-range, economical, commercially-feasible alternative to helicopters. These composite craft make excellent use of operational windows and can operate at unrivalled speed in high sea states. Voyager vessels are based on proven SES technology, designed as air-cushion catamarans, using an advanced ride control system. This offers excellent fuel economy, seakeeping, passenger comfort and minimal environmental footprint.
Special Operations Interceptors provide vital high speed insertion, extraction and mission support. These air-cushion catamarans use an advanced motion control system that delivers excellent fuel economy, seakeeping, maneuverability and passenger comfort. Their lightweight, composite construction offers an additional advantage of a shallow draft, providing greater accessibility. Extremely sophisticated, fast and flexible, they are designed for high performance in a variety of operations.
WAVECRAFT™ Mine Countermeasures Drone is a conceptualization of the next generation mine-hunters designed for rapid, unmanned naval missions. These all-composite construction craft would offer high speed responses, powerful bollard pulls, stealth technology and excellent fuel efficiency. The protective air-cushion layer around the hulls, generated from air-cushion catamaran design, would enable the vessel to withstand significantly less shockwave impact from underwater explosions compared to traditional monohulls of the same size.
Sustainable technology

Our air-cushion catamarans employ surface-effect ship (SES) technology in combination with a robust, lightweight composite, slender catamaran hull. Vessels sit on a cushion of pressurized air, which lifts them out of the water. This reduces hull friction and enables very high speeds with superior fuel economy and efficiency, all contributing to their low environmental impact.

As the hull is less exposed to wave-induced movement and because the air cushion functions as a large shock-absorber, excellent seakeeping and passenger comfort are guaranteed.

Composite hulls of these craft add to their sustainability. They are non-corrosive, deliver robust, very low structural weight vessels, which reduces their displacement and therefore lowers their power requirements, fuel consumption and overall maintenance costs.

Lifecycle support

We understand the importance of operational availability and employ our specialist skills to ensure the lifetime performance, reliability, safety and cost-efficiency of our vessels. To meet all of your needs and to offer the best aftercare for these world-class craft we offer a range of comprehensive service agreement packages, specifically developed to support the repair, maintenance and upgrade of composite vessels.

We provide our services on site of your operations, at ports or at our purpose-built yard facilities, and offer integrated logistics support with 24/7 online maintenance system updates.