



**UNRIVALED SPEED – COMFORT – ACCESS**



**WAVECRAFT™ series – Commander 27**

The Commander series is a highly-sophisticated class of composite vessels specifically-designed for the medium to long-range transportation of personnel to offshore wind farms. These vessels operate at almost twice the speed and wave height of other equivalent vessels on the market, delivering greater access to offshore installations, while increasing productivity of O&M teams, and maximizing operational availability.

Based on proven surface-effect ship (SES) and air-cushion catamaran technologies, combined with an vertical motion damping system the vessel delivers excellent seakeeping, passenger comfort and significantly reduced seasickness. When approaching a turbine, a boarding control system (BCS™) is activated to reduce heave and pitch, enabling personnel to safely and simply step onto the turbine.

**ADDED VALUE**

- Transit time reduction
- Improved comfort and productivity of personnel
- Maximized turbine accessibility
- Reduced O&M cost

**STRONG** performance **LIGHT** materials



## CLASSIFICATION

DNVGL ✱ 1A1 HSLC R1 Windfarm Service  
 DNVGL ✱ 1A1 HSLC R1 Crew Windfarm (GBR)  
 Full Term MCA Work Boat Code or HSOSC

## GENERAL

Hull material	Composite Sandwich Materials
Main operation	Crew Transfer Vessel –12h/24-7
Passengers	12-24
Crew	3-4
<b>Boatloading</b>	<b>Up to 2,5 m Hs</b>

## MAIN CHARACTERISTICS

Length overall	26,6 m
Load Line Length	23,9 m
Width overall	10,4 m
Draught off cushion	3,0 m
Draught on cushion (in transit)	0,8 m
Dead weight	15 ton

## PERFORMANCE

Max. speed	42 kn
Cruising speed	38 kn
Cruising speed @ 1,5m Hs	30 kn

## ECONOMY OPERATION

Economy speed @ 85 % MCR	38 kn
Fuel consumption	21 l/nm
Range @ 14m <sup>3</sup> fuel	600 nm

## MACHINERY

Main engines	2 x 1440 kW
Aux. engines	2 x 65 kW
Lift fan engines	2 x 360 kW
Propulsion	Water jets

## DECK

Cargo crane - SWL	480 kg @ 5,7 m
Cargo capacity	4 ton
Deck load	1 ton/m <sup>2</sup>
Storage capacities on deck	40,0 m <sup>2</sup>
Storage capacity for charterer	

## CAPACITIES

Fuel oil	15,0 m <sup>3</sup>
Fresh water	1,5 m <sup>3</sup>
Grey water	1,5 m <sup>3</sup>
Black water	1,5 m <sup>3</sup>
Ballast (seawater trim)	8,5 m <sup>3</sup>
Fuel oil transfer for trimming of vessel	

## ELECTRONIC AND NAVIGATIONAL EQUIPMENT

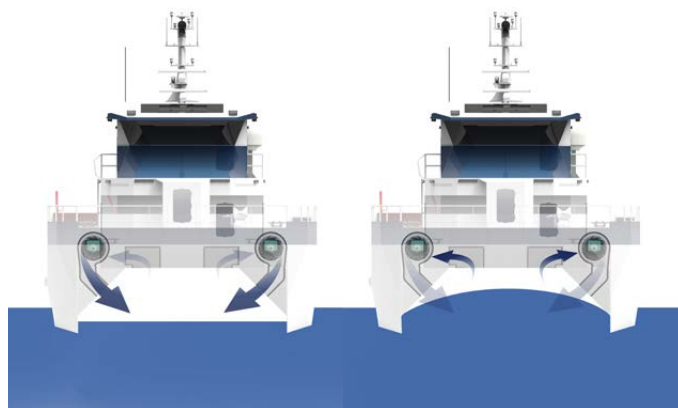
AIS	Crewfinder system
Radar X band	CCTV
Electronic chart	Video Screens
Internet	GMDSS A1/A2
VSAT	

## LSA

SB Rescue Sling operated by single man or Man over Board system with rescue net SART, Helicopter hoisting rescue area



Surface-effect ship (SES) technology



Ride control system (RCS)

Umoe Mandal is a leading supplier of all-composite high-speed craft and advanced composite structures for applications in marine, offshore, onshore, defense and aquaculture industries worldwide. Umoe Mandal is part of Umoe Group.

NOTE: Some information presented here may vary. Specifications can be changed without notice. Copyright Umoe Mandal © 2017.

Umoe Mandal AS  
 Gismerøyveien 205, N-4515 Mandal, Norway, tel +47 38 27 92 00  
[sales@um.no](mailto:sales@um.no) - [www.wavecraft.no](http://www.wavecraft.no) - [www.um.no](http://www.um.no)



**WAVE**  
**CRAFT™**