

Oil Spill Response Vessel “Clean Mar”

VESSEL PARTICULARS

Type	OSRV (Oil Spill Response Vessel) DP2
Length overall	90.70 m
Length between pp	78.80 m
Breadth	18.80 m
Depth main deck	7.60 m
Design draft	6.00 m
Max. draft mid ship (approx.)	6.15 m
Dead weight at draught 6.15 m mid ship	3,660 t
Delivery	2004
Builder	Langsten (Norway)
Flag	Mexican
Classification	DNV + 1A1 Ship Shaped Oil Recovery and Storage Unit, E0, DYNPOS-AUTR, CLEAN, COMF-V(3), DK(+)



PERFORMANCE

Speed at d=5.6 m	(approx)	15.5 knots
Speed at d=3.7 m	(approx)	16.3 knots
Economic speed	(approx)	13 to 15 knots

ACCOMMODATION:

Accommodation for 50 persons composes of:

- 12 x single cabins
- 19 x 2 men cabin
- Mess/day room, galley, provision room, stores, laundry, 1 hospital

MACHINERY

Main Generator Set 4 x Ulstein Bergen, type C25:33L6A Approx. 1,740 kW, 60 Hz each.

Max Generator Capacity (Approx) 1,655 kW / 2,070 kVA each.

Auxiliary generators:

- 1 harbor / emergency generator set 380 kW
- 1 harbor generator set 350 kW

OIL SPILL RESPONSE EQUIPMENT

OSRV "Clean Mar" features top class oil spill response equipment manufactured by ELASTEC®. Top honored at the Wendy Schmidt Oil Cleanup X CHALLENGE This award-winning system was able to recover 4,670 gpm / 1060 cum per hour at an average 90% efficiency when officially and independently tested at the Ohmsett facility in New Jersey in calm conditions and in waves.



X150 GROOVED DISC SKIMMER

Number of Discs 2 x banks of 5 high speed Grooved Discs

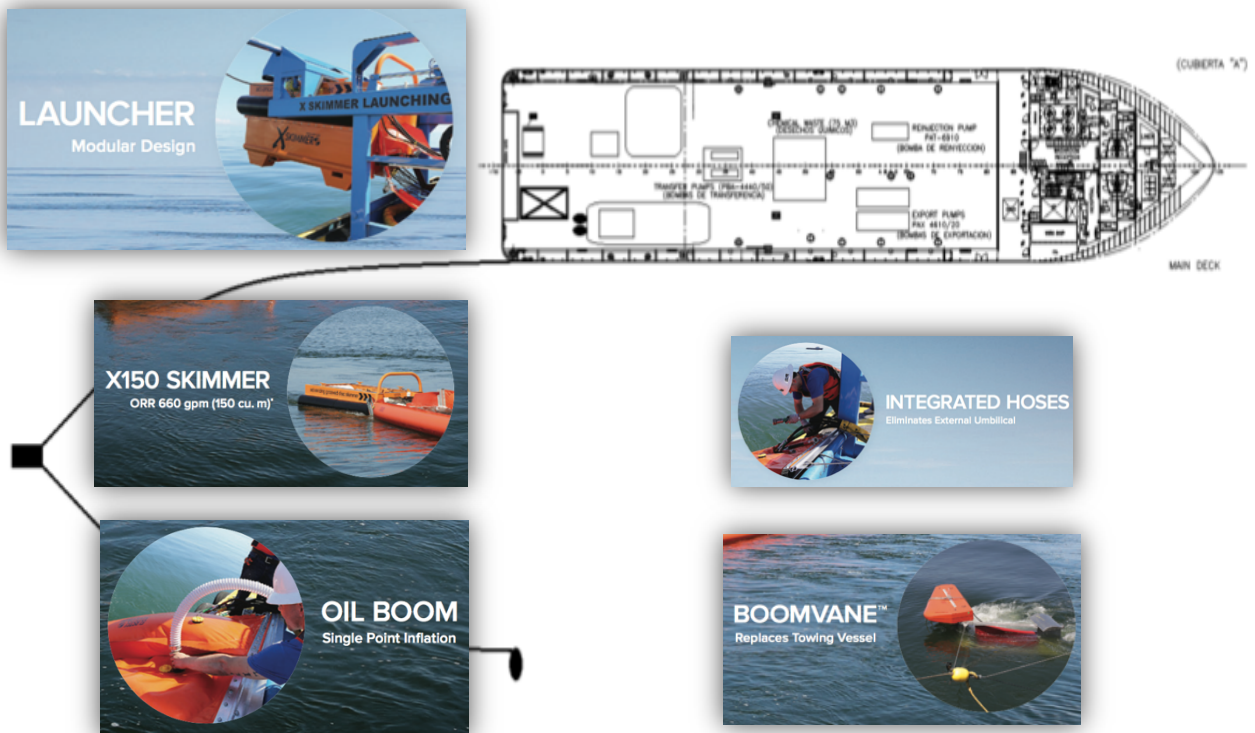
Operational mode Stationary

Disc Nameplate Capacity 660 gpm / 150 cu.m per hour EDRC (based on pump): 4500 bbl / day de-rated

Recovered Oil Pump High capacity salvage pump

SKIMMER LAUNCHING UNIT

Length Stored: 19ft 3 inch / 5.867 m
 Width: 7ft 6 inch / 2.286 m
 Height: 8ft 2 inch / 2.489 m
 Weight (full system) 15,740 lb / 7,139.5 kg
 Max Lifting Capacity: 4,000 lb / 1,814 kg
 Integrated Hydraulic Power Pack with wireless remote control.
 Inflatable sweeping boom (V configuration) stored on a remote Controlled boom reel with blower. Boom chamber is fitted with foam panels that act as reserve buoyancy in the event of a puncture. Integrated netting assists in retaining the sweep configuration.
 Sweep boom
 Freeboard 18 inch / 0.46m
 Draft 10 inch / 0.25m
 Length 100 ft / 30 m
 Bottom Tension 1/2 inch / 12mm Galvanized chain net for retaining sweep shape.
 1m Boom Vane included
 Hoses 50ft / 15m hydraulic hoses (between powerpack and sweep boom)
 60ft / 18m discharge hose (from sweep boom).



AIRMAX INFLATABLE BOOM

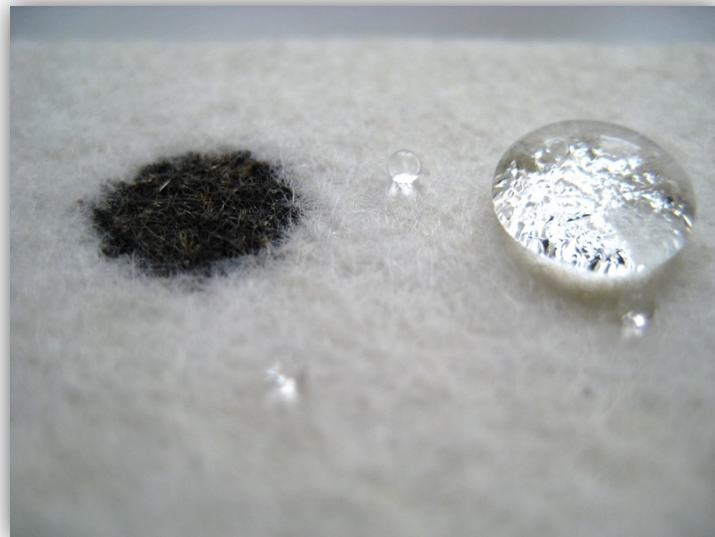
AirMax is a versatile, inflatable oil containment boom, manufactured from high quality Urethane fabric. The AirMax range of booms are designed for compact storage and quick deployment.

The high visibility orange fabric greatly assists mariners and vessel operators to avoid a potential navigational hazard. As an added safety feature, the hot galvanized steel ballast chain is enclosed in a reinforced fabric pocket to prevent entanglements and pinch points for operators. This chain also acts as a tension member for added strength and resistance of towing forces.

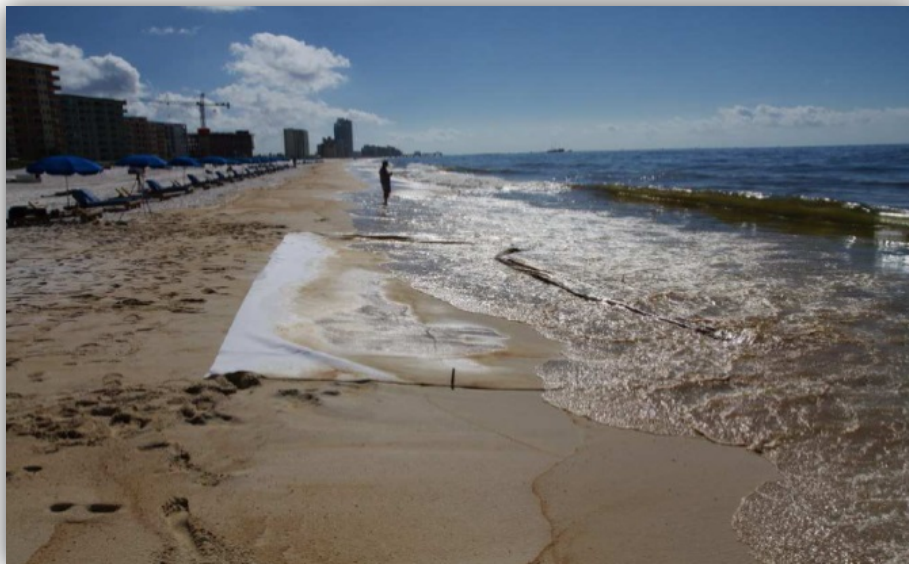


OILGUARD MESH

OSRV "Clean Mar" is equipped with our Patented Technology OILGUARD MESH[®]. Onboard OSRV "Clean Mar" there are rolls of 5.5 mts wide and 6 km long, each, for preventive and corrective actions in cases of oil spill. This is a Hydrophobic / Oleophilic material, designed against accidents and spills of hydrocarbons. When it comes into contact with the hydrocarbon, a chemical reaction occurs that gives it the property to absorb exclusively products derived from it in a matter of seconds. Once OILGUARD MESH[®] rolls are used and disposed properly, they are replaced by new ones. Plenty rolls are available at our warehouse and can be fitted as on-demand replacements or custom add-ons.



OILGUARD MESH[®] spill control technology provides an alternative method for the absorption and collection of hydrocarbons and tar, as a preventive measure and protection for operational risks and accidents resulting from spills of hydrocarbons in the sea, lagoons, rivers, mangroves and estuaries due to unwanted, natural or operational incidental events affecting and polluting the areas as:



- As a preventive measure in ships and Onshore and Offshore installations.
- Beaches and coasts.
- Lagoon.
- Mangroves

