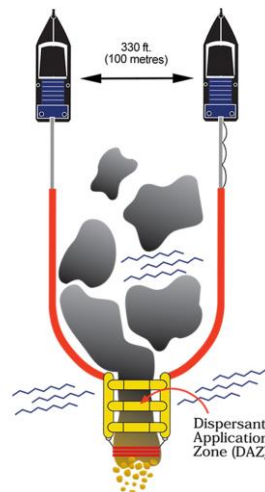


NeatSweep® Oil Spill Dispersant Spray System



The NeatSweep® system is the most efficient means of applying dispersant chemicals onto an oil slick. The system works by funneling and concentrating the oil on the water's surface before the chemical is applied. Traditional methods spray chemicals onto inconsistent oil layers spread out over water. The result is that dispersant usage can be reduced by up to 50%.

A computerized monitoring system controls the rate of dispersant application - drastically reducing dispersant waste. It senses the speed of the system and self-adjusts.

Oil enters the dispersant application zone at uniform thickness, reducing both over and under dosing and mis-targeting.

This all weather system allows the neat (full concentration) application of dispersant directly onto the oil. As the setup is more efficient, more oil can be treated with each deployment. As an added bonus, operators are not exposed to wind blown chemicals.

Independent tests at OHMSETT confirm efficiency of up to 92%.

The only thing the crew has to do is turn on the unit as oil reaches the Dispersant Application Zone (DAZ). Operators have plenty of time to see the oil and turn on the unit.



The system includes two sections of AirMax deflection boom, computerized dispersant pumping unit, Dispersant Application Zone (DAZ) and mixing panel, boom reel with air blower, fabric cover and D9 PowerPak.



Elastec / American Marine boom reels are built for safe and controlled deployment and recovery of the boom. The boom reel is hydraulically controlled to assist in the deployment and retrieval of the boom.

The boom inflator is mounted on the reel and allows for simultaneous inflation of the boom wings.

Heavy-duty hydraulic motor and gearbox, steel base and aluminum spool. Steel base shot blasted, primed and epoxy painted.

Reel dimensions: 116 x 73 x 84" / 2.95 x 1.85 x 2.13m

Weight with system: 2,600 lbs / 1,180kg

Optional Extra: Lifting sling, ISO corners, double entry fork pockets



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The D9 is a compact and portable diesel driven hydraulic power unit for operating a boom reel fitted with controls. It features a hand and electric start diesel engine mounted in a steel cage frame. The open style allows excellent access for maintenance.

Drive: Air cooled 9hp Yanmar diesel engine with
12 volt electric and recoil hand start
Max Hydraulic Output: 4.2 gpm / 16 lpm
Max Pressure: 2500 psi / 172 bar
Single hydraulic circuit
Frame: Skid mount with lifting bracket.
Hydraulic Tank: 8 gallons / 30 litres. Spin on return filter,
fluid level and temp gauges, tank top
filler/strainer.
Fuel Tank: 1.25 gallons / 4.7 litres
Hydraulic Quick Couplings: Stainless steel
Lifting: Central lift point
Dimensions: 32" X 28" X 38" / 0.81 x 0.71 x 0.97m
Weight: 280 lbs / 127 kg
Fabric Cover: Included



The system includes a control console with manual and automatic setting (that is controlled by speed indicator arm with propeller attached to the ship). The monitor shows the amount of dispersant that is being sprayed and is preset at the factory to control the amount of dispersant (determined by the sweeping width). Since the unit senses the speed of the boat it will increase and decrease flow rate as needed.

Output: Max 21 gpm dispersant pump, belt driven
Drive: Air cooled 6.4hp / 4.8kW Yanmar diesel
engine with 12 volt electric start
Dimensions: 47 x 25 x 33" / 1.19 x 0.64 x 0.84m
Weight: 400 lbs / 181kg

System includes tow bridles, dispersant hose, tow ropes and accessories.



The Dispersant Application Zone is an inflatable structure fitted with boom connectors, dispersant spray nozzles and panel that trails behind to mix the oil and dispersant together.

This lightweight unit is quick to assemble and compact to store.





The deflection boom is made up of eight sections of AirMax inflatable oil containment boom, manufactured from high quality Urethane fabric (see next page for spec.)

Each wing is 300ft / 91m long and fitted with two cross wires at 50ft/15m intervals closest to the DAZ.

AirMax has individually filled air chambers, each chamber being equipped with the patented Monsun valve. This valve has a built-in non-return valve.

Deflection Boom;

Freeboard:	16" / 406mm
Draft:	10" / 254mm
Connectors:	ASTM Universal Slide
Color:	High visibility safety orange
Ballast:	Galvanized chain in double layer fabric pocket
Fabric:	28oz / 950 gsm Urethane (+/-2)
Splash Over Prevention:	Top fin
Handles:	Fitted at regular intervals along the top of the boom
Standard Inflation Pressure:	0.75 psi / 0.05 bar
Air Valves:	Monsun type
Shipping Information:	Normally supplied on a reel included with the system
Cleaning:	Industrial detergents, pressure washing



As an option we can supply the NeatSweep® with a Boom Vane so that it may be operated by one vessel.

BDE-005
 3/4/13