



ELASTEC X150 Skimmer Launching System

OSYSTLA150



The Elastec X150 Skimmer is now available with a fully integrated Launching System. The system is a seamless, all-in-one oil collection and skimming system that recovers high volumes of oil in stationary and advancing modes - from zero to three knots, from a single vessel.

The centerpiece of the new system is the X150 skimmer, the first commercial model developed incorporating Elastec's patented grooved disc technology that won the XPRIZE Foundation's Wendy Schmidt Oil Cleanup X CHALLENGE.



The self-contained launching system is wirelessly remote controlled and includes the launcher, the X150 skimmer, boom and reel, BoomVane™ and power unit. Hydraulic and discharge hoses are built into the sweep boom, eliminating external umbilical. The complete system fits into a 20ft high cube container for rapid global shipment.



The launching system is easily operated, it does all the heavy lifting by hydraulically telescoping the X150 skimmer from the stern of the vessel, hoisting and winching it into the ocean. All the system components are stored within the robust steel frame which fits into a 20ft container for storage and shipping.



Launching System Specification - 4BASEDE022C

Dimensions:	
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



Wireless remote control

Integrated Hydraulic Power Pack;

Water cooled diesel engine with 12 Volt Electric Start and dual variable displacement hydraulic pumps.

Engine:	48hp / 36kW @ 2800 rpm water cooled diesel engine with 12v electric start (net continuous 38.5hp)
Fuel Capacity:	28 gals / 106 litres
Fuel consumption:	2.823 gallon per hour (2800 rpm)
Hydraulic tank:	30 gallons / 113 litres.
Max Hydraulic output (tandem pump):	
Front pump:	20.7 gpm 3500 psi
Rear pump:	13.3 gpm 3000 psi

Hydraulic tank with strainer, sight, temperature gauge and cover plate and spin on return filter, spark arrestor (incorporated in the muffler).



X150 Grooved Disc Skimmer - OSKIMUN153

The X150 skimmer is a workhorse in recovering extreme volumes of oil. It has a verified nameplate oil recovery rate (ORR) of 660 gallons of oil per minute (150 cubic metres per hour) and an oil recovery efficiency (ORE: oil-to-water collection rate) of 87.6%.

Encounter Rate – The X150 can be towed through water at speeds higher than towing conventional booms which means more oil is encountered for a given sweeping width.

Containment – Elastec’s patent-pending design features a unique oil retention hull that retains the oil and expels water.

Recovery – Elastec’s patented grooved discs are an evolution of the well-proven grooved drum design. The discs are exclusive to Elastec. They have one of the highest verified oil recovery rates (ORR) in the industry.* This is achieved through a larger surface area that traps the oil, allowing the discs to run faster than conventional smooth discs.

Tested speed - Stationary, Advancing 1-3 knots

Advancing results;

Oil Recovery Rate (Calm)	646 gpm / 146.8 cu.m per hour *
Recovery Efficiency	87.6%
Oil Recovery Rate (Wave)	551 gpm / 125 cu.m per hour
Recovery Efficiency	89.7%
Max Oil Recovery Rate	671.9 gpm / 152.7 cu.m per hour
Max Recovery Efficiency	95.3%
Max Throughput Efficiency	91.8%

Independent testing of the Elastec X150 skimmer, in advancing and stationary modes, was conducted at Ohmsett in May, 2012. Award-winning results from the XPRIZE Foundation’s Wendy Schmidt Oil Cleanup X CHALLENGE were replicated at Ohmsett in the scalable, commercial X150 model.

*Nameplate capacity of the Elastec X150 skimmer has been recognized by the US Coast Guard.



Skimmer Specifications - OSKIMUN153

Disc Nameplate capacity:	660 gpm / 150 cu.m per hour
Number of discs:	2 x 5 high speed Grooved Discs (10 discs total)
Boom connection / towing:	Pad eyes mounted inside the hull
Operational mode:	Advancing up to 3 knots
Dimensions (LxWxH):	108 x 59 x 55 inches / 2.74 x 1.50 x 1.4m
Weight:	1,341 lbs / 608kg
Construction:	Painted marine grade aluminum
Handling:	Fork pockets, lifting points.
Draft:	32 inches / 0.82m (operating)
Recovered oil pump:	High capacity salvage pump
Recovered oil pump capacity:	660 gpm @ 40 psi / 150 cu/m hour @3 bar
Pump casing:	Seawater resistant aluminum
Discharge connection:	4 inch / 100 mm with Camlock coupling.
Pump diameter:	305 mm (fits through 12 1/2" Butterworth hatch)
Debris management:	Included
Hydraulic hose:	15m / 50ft hydraulic hose set, rated to requirement.
Operational Mode:	Stationary and advancing from 0 to 3 knots.



Oil Boom Specifications - 01430150

Included with the system is Sweep boom with 100ft / 30 m of rugged air-inflatable oil boom, that incorporates the hydraulic and discharge hoses. This single point inflation boom chambers are fitted with foam panels that act as reserve buoyancy and integrated netting assists in retaining the sweep configuration. The boom is deployed from the remote controlled boom reel that incorporates an air blower. The boom chambers are fitted with foam panels that act as reserve buoyancy, integrated netting assists in retaining the sweep configuration.

Freeboard:	18 in / 46 cm
Draft:	10 in / 25 cm
Length:	100 ft / 30 m single inflatable chamber
Bottom Tension:	½ in / 12 mm galvanized chain

Net for retaining sweep shape.

50 ft / 15 m hydraulic hoses (between power pack and sweep boom)

60 ft / 18 m discharge hose (from sweep boom)

Chamber fitted with foam panels that act as reserve buoyancy in the event of a puncture.



Elastec 1m BoomVane™ - OVANEST10000

The setup comes with our 1m BoomVane™ enabling the skimmer with sweep boom to be towed by a single vessel. The BoomVane™ is powered by the water flowing past as the vessel advances, held by a single tow line it swings out and away from the vessel, towing the oil boom. The BoomVane™ is stable and self-trimming in all sweep speeds and is insensitive to wave action.



1309 West Main St.
Carmi, Illinois 62821, USA
+1 (618) 382-2525
www.elastec.com elastec@elastec.com