

ELASTEC

Circus Skimmer

for Fast Water Shoreline Response



Oil Spill Equipment | Floating Barriers | Incinerators



The Circus Skimmer is an in-line oil skimmer that is coupled with river boom and harnesses water flow to separate the oil and water. The skimmer has a circular chamber that accumulates the oil and allows the water to exit the bottom. This skimmer is ideal for calm river conditions. Tested at Ohmsett (an independent test facility) it was able to recover 90% of oil at 2 knots.

Rotation of the oil/water is generated by the river current. The circular flow in the chamber is created as the water entering the chamber is balanced by a corresponding flow exiting beneath the skimmer.

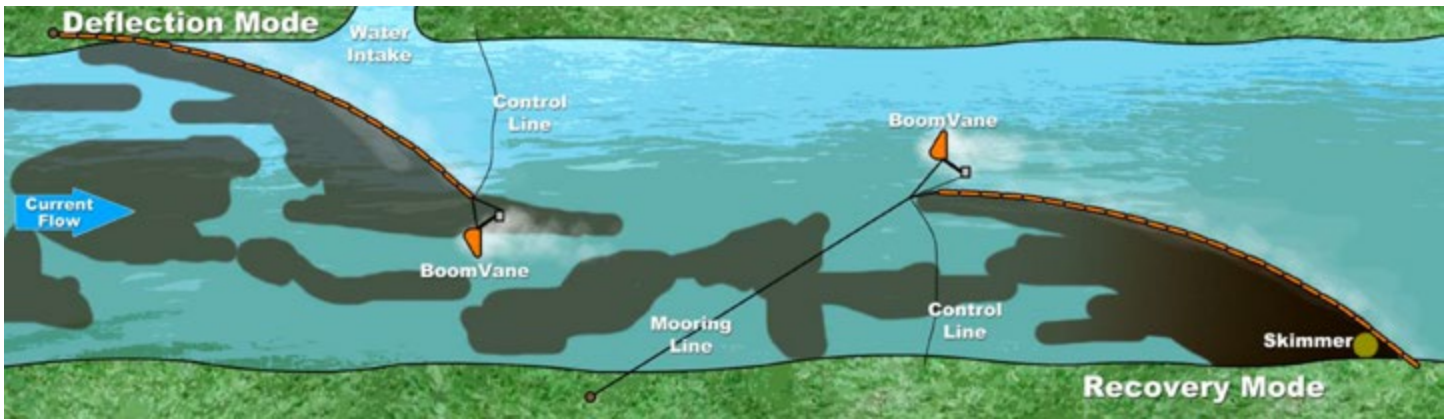
The Circus River skimmer can be deployed in conjunction with the Boom Vane (optional extra) which will pull the deflection boom into the river.



The BoomVane is a device for deploying oil containment boom into shallow rivers and other waterways by harnessing the power of the current.

The BoomVane is constructed as a cascade of vertical wings mounted in a rectangular frame. Powered by the current, the BoomVane, held by a single mooring line only, swings out towards the opposite shore with the oil boom in tow. This powerful yet light and handy tool enables rapid boom deployment; it can be operated in waters with heavy traffic since the control rudder allows for fast and effortless system retrieval from mid-stream.

BoomVane operates in water speeds ranging from 1 to 5 knots. As all BoomVane models are self-balancing, no adjustments or trimming is required.



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This lightweight skimmer can be deployed by two people. It is readily transported in small vehicles. Once the oil naturally collects in the Circus chamber it can be sucked out by external pumps or vacuum trucks etc. The central self-adjusting weir adds another level of separation.

Specification (for base weir model)

Circus Frame:	Aluminum 6082-T6
Floats:	Aluminum
Self-adjusting Weir:	Fitted inside the collection chamber
Suction Connection:	2 inch female camlock
Operating Range:	0.2 - 3.0 knots water current (at the point of recovery)
Dimensions:	87 x 53 x 27 inch / 2 x 1.34 x 0.69 m
Weight:	62 kg / 137 lb including weir assembly
Draft:	17 inch / 430 mm
Handling:	4 mooring eyes, 3 lifting eyes
Suction Hose:	20 ft / 6 m of 2 inch spiral reinforced suction hose
Boom Connectors:	ASTM Z or Universal Slide
Nameplate Capacity:	Weir - Dependent on pump. Grooved Drum - 90 gpm / 20 cu.m per hour
Optional:	Optimax oil boom, BoomVane, Suction Pump Vacuum System, Counter rotating and reversible Grooved Drum module, E150 pump integrated into weir

Shown with optional drum inserts.



Available Interchangeable Configurations



Circus Skimmer with Suction Weir

Circus skimmer with self-adjusting weir skimmer positioned centrally in the oil collection chamber. 2 inch connection for external suction pump or vacuum system (sold separately).



Circus Skimmer with E150 Pump Weir

Circus skimmer with self-adjusting weir skimmer positioned centrally in the oil collection chamber with E150 centrifugal pump mounted inside the weir. 2 inch discharge. Note: requires D10 diesel hydraulic power pack and hydraulic hoses.



Circus Skimmer with Counter Rotating Drums and E150 Pump

Circus skimmer with TDS118 Grooved drum skimmer (reversible) with counter rotating drums, recovered oil is discharged with the integral E150 pump via 2 inch discharge. Note : requires D10 diesel hydraulic power pack and hydraulic hoses.



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