



ALLIGATOR

PROVEN OIL SPILL TECHNOLOGY

# ALLIGATOR - Belt brush skimmer

The ALLIGATOR belt brush skimmer from DESMI incorporates the advantages of the belt mechanism with a stiff brush that enhances the recovery of oil.

Bi-directional belt - the belt can operate in either direction. On underflow mode (with the belt going down into the oil) the skimmer can achieve a high recovery rate with lighter oils. In overflow mode (belt coming up out of the oil) the ALLIGATOR is able to recover thick layers of heavy oils with very little water - as low as 2%!  
Removable floats - the floats can be detached for shipping and adjustment of skimmer depth in the water.

Removable sump - the whole sump with the DOP-160 off-loading pump attached will slide out. This is to help with transportation and provide quick access to the pump. A suction connection is fitted so that the skimmer can be used with external suction pumps and vacuum trucks. Alternative sumps are available to adapt the unit to fit onto other skimmers.

The skimmer provides a lightweight package that can skim a wide range of oils not normally associated with brush skimmers. It is especially good with medium and very viscous oils. This skimmer is based on the proven BELT skimmer design in a smaller and user friendly format. It can operate effectively in open or in-shore waters.



## Advantages of the ALLIGATOR

- Combined belt brush skimmer
- Wide operational range especially with medium and heavy oils. The belt lifts the oil and dumps into the sump
- Optional DOP-160 vertical screw pump
- Optional thrusters for remote control and positioning
- Optional steam and water injection to aid pumping of heavy oils
- Unique bi-directional operation for recovery of a wide range of oils
- Marine grade aluminium body with detachable floats and sump

## TECHNICAL DATA

	ALLIGATOR 50	ALLIGATOR 100
Dimensions	1.45 x 1.45 x 1.05 m / 57 x 57 x 41 in	1.9 x 1.7 x 0.8 m / 75 x 67 x 31.5 in
Nameplate capacity	30 m <sup>3</sup> per hour / 132 US gpm	60 m <sup>3</sup> per hour / 264 US gpm
Brush belt dimension	500 x 800 mm / 19 x 31 in	1000 mm x 900 mm / 38 x 35 in
Skimmer weight without pump	124 kg / 273 lbs	128 kg / 282 lbs
Floats	Fixed or detachable floats, weighing 17 kg / 38 lbs each	Fixed or detachable floats, weighing 17 kg / 38 lbs each
Suction connection	3 in male camlock	Optional
Optional pump weight	31 kg / 68 lbs DOP-160	82 kg / 180 lbs DOP-DUAL 250
Skimmer with pump and floats	155 kg / 342 lbs	210 kg / 463 lbs
Draught	200mm / 8 in	300mm / 12"
Hydraulic quick couplings	Belt: 1/2 in Aeroquip supply/return Pump: 3/4 in Aeroquip supply/return 3/8 in drain	Belt: 1/2 in Aeroquip supply/return Pump: 3/4 in Aeroquip supply/return 3/8 in drain
Max hydraulic demand	5 l/min / 1.3 US gpm	16 l/min / 4.2 gpm
Shaft speed	0 - 100 rpm	0 -100 rpm
Optional pump max. hydraulic demand	80 l/min / 21 US gpm 210 bar / 3000 psi	160 l/min / 42 US gpm 210 bar / 3000 psi
Thrusters	Optional: hydraulic demand thrusters 30 l/min / 8 gpm	Optional: hydraulic demand thrusters 30 l/min / 8 gpm

For more information on Oil Spill Response systems, please visit [www.desmi.com](http://www.desmi.com)

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