



HELIX SKIMMER - A Powerful, innovative circular brush skimmer

PROVEN OIL SPILL TECHNOLOGY

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The HELIX skimmer is a powerful brush skimmer in a revolutionary circular design to increase efficiency and total collection surface. The skimmer has a unique brush drive enabling it to collect the heaviest of oils.

The HELIX is a revolutionary circular brush skimmer. It has been known for some time that circular skimmers have some operational advantages over square or rectangular units - namely that the oil is able to flow freely onto the collection surface from any angle. This is especially important with thick and viscous oils which do not flow very easily when pumped.

DESMI Ro-Clean have invented a new brush drive mechanism that rotates on a curved stainless steel shaft enabling the brushes to “grab” the oil from any side of the skimmer and pull it into the pump. Power to rotate the brushes is provided by a hydraulic motor mounted with a gearbox, ensuring the heaviest of oils can be recovered. The HELIX skimmer is available supplied as a complete skimmer head fitted with the well-proven DOP pump in various sizes, alternatively it can be supplied as an adaptor to fit onto other skimmers. The large diameter brushes enable the HELIX to achieve high recovery rates.



Advantages of the HELIX:

- 360 degree oil encounter rate
- High oil recovery rate
- Drive motor fitted with gearbox for high torque
- Suitable for a wide range of oils
- Large diameter brush wheels
- Lifting point and splash cover included
- Stand alone skimmer or adaptor for mounting on other models of weir skimmer
- Patent pending circular brush design

TECHNICAL DATA

Model	HELIX 160	HELIX 200	HELIX 250	HELIX 1000 MkIV
Dimensions:	1.65 x 1.85 x 0.8 m / 65 x 73 x 32 in	2.5 x 2.75 x 1.1 m / 98 x 108 x 43 in	2.1 x 2.35 x 1.1 m / 83 x 92 x 43 in	Dependant on skimmer it's mounted on
Weight:	180 kg	215 kg	230 kg	Dependant on skimmer it's mounted on
Pump:	DOP-160	DOP-200 DUAL	DOP-250 DUAL	N/A
Max Pump Rate:	30 m ³ per hr / 132 US gpm	66 m ³ per hr / 290 US gpm	125 m ³ per hr / 440 US gpm	N/A
Operating Draught:	0.4 m / 16 in	0.78 m / 30 in	1.15 m / 45 in	Dependant on skimmer it's mounted on
Brush Discs:	24 x 290 mm / 11.5 in diameter, bristle length 100 mm / 4 in	24 x 290 mm / 11.5 in diameter, bristle length 100 mm / 4 in	24 x 290 mm / 11.5 in diameter, bristle length 100 mm / 4 in	24 x 290 mm / 11.5 in diameter, bristle length 100 mm / 4 in
Brush Assembly:	1.3 m / 51 in diameter	1.3 m / 51 in diameter	1.3 m / 51 in diameter	1.3 m / 51 in diameter
Brush Speed:	35 rpm max	35 rpm max	35 rpm max	35 rpm max
Main Frame:	Sturdy aluminium marine grade	Sturdy aluminium marine grade	Sturdy aluminium marine grade	Sturdy aluminium marine grade
Hydraulic Drive:	8 cc hydraulic motor with worm gear	8 cc hydraulic motor with worm gear	8 cc hydraulic motor with worm gear	8 cc hydraulic motor with worm gear
Gearbox:	Fitted with 40:1 gearbox	Fitted with 40:1 gearbox	Fitted with 40:1 gearbox	Fitted with 40:1 gearbox
Hydraulic Connections:	Pump: ¼ in P/R - 3/8 in Drain Helix: ½ in P/R - 3/8 in Drain	Pump: ¼ in P/R - 3/8 in Drain Helix: ½ in P/R - 3/8 in Drain	Pump: ¼ in P/R - 3/8 in Drain Helix: ½ in P/R - 3/8 in Drain	Pump: ¼ in P/R - 3/8 in Drain Helix: ½ in P/R - 3/8 in Drain
Hydraulic Demand:	10 litres/min at 100 bar / 2.6 US gpm at 1,450 psi	10 litres/min at 100 bar / 2.6 US gpm at 1,450 psi	10 litres/min at 100 bar / 2.6 US gpm at 1,450 psi	10 litres/min at 100 bar / 2.6 US gpm at 1,450 psi



For more information on Oil Spill Response systems, please visit www.desmi.com

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