

## DESMI Multi Purpose Power Pack

**For operating the boom reel and inflating the Speed-Sweep boom** a 15 kW multi purpose power pack with hand and electric start air cooled diesel engine is offered for the smooth operation of both the reel and Sweep inflation. The power pack is mounted in a galvanized frame with wheels and extendable handles for easy positioning.

The Hydraulic pump provides flow to two hydraulic circuits. Twin directional, proportional valves offer complete control of the boom reel and air blower unit.

**The integral, high capacity air blower** offers fast inflation to the air chambers within the Sweep. A typical air flow of 27 m<sup>3</sup>/ is delivered through the air hose set comprising of; 4" + 2 x 2" filling hoses including 4" quick coupling and two stainless steel air filling/emptying probes.

The frame is fitted with a fork lift channel and comes with a heavy duty weather cover as standard.

**The DESMI Speed-Sweep is the heavy duty, robust sweep system made from the world famous Ro-Boom material and Kevlar. It is the toughest and strongest system available today. Containerised options are also available making all the logistics very easy.**



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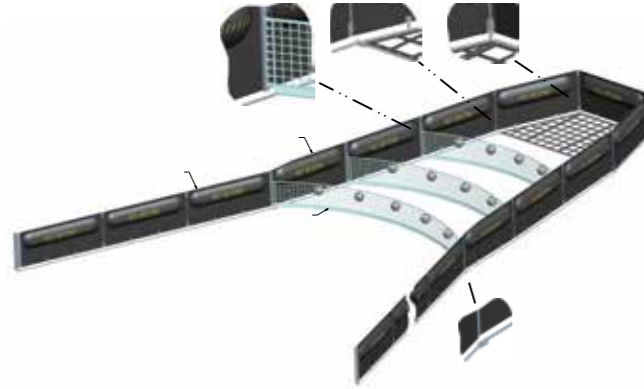
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## Speed-Sweep Systems

The DESMI Speed-Sweep System, fully tested at OHMSETT is a heavy duty rubber boom recovery system designed to allow for the collection of oil at greater speeds than has previously been possible. Once the pollutant has been collected at the cusp, a skimmer can be located at the apex and recovery can begin. This can continue while the sweep system is moving forward. The unique, high efficiency DESMI Speed-Sweep System is designed to either connect to a Ro-Boom system or operate as an independent collection unit. It can be towed either between 2 vessels or 1 vessel with a jib arm or paravane. The Speed-Sweep can collect oil up to speeds of 3 knots which results in easier and quicker operations all round.

The DESMI Speed-Sweep System is manufactured in the tough Ro-Boom 1500 offshore containment boom, with individual 3 metre / 10 ft buoyancy chambers, tapered down at either end to match Ro-Boom 1300, which is the ideal guide boom for the sweeping system. There are also 3 off 900mm /

35 in. nets, with foam filled circular floats, which are used to interrupt the speed of the oil, allowing it to be collected at the cusp. The excess water simply escapes through the rear netting. This system allows the surface water and oil to be slowed by as much as 70%, which allows the oil to concentrate in the apex ready for collection. No head wave phenomena or planing will occur.



### Technical Specifications:

Ro-Boom Material:	Compound of synthetic rubber with a CSM (Hypalon) external layer Kevlar
Speed-Sweep Front Net Material Width (Deflated):	Apex 1500mm / 59 in Guide Booms 1300mm / 51 in Sweep 30m / 98 ft Guide Boom 2x16,5m / 54 ft 3m / 10 ft
Standard System Length:	250N/mm
Buoyancy chamber length:	Apex 200kN, Guide Booms 110kN
Tensile strength of boom wall:	-40°C to + 80°C / -40°F to 176°F
Breaking load of chain:	ASTM Slide (Standard)
Temperature range:	
Section connector:	
Freeboard:	Apex 0.52m / 1.7 ft, Guide Booms 0.45m / 1.5 ft
Operational depth of skirt:	Apex 0.72m / 2.36 ft, Guide Booms 0.63m / 2.06 ft
Operational weight (incl. Chain):	Apex 12kg/m / 26 lb/m, Guide Booms 9kg/m / 1.5 ft
Total Weight on RB1500 winder:	1970 kg / 4343 lb
Dimensions winder LxWxH:	2194 x 2000 x 2189 mm / 86 x 79 x 86 in
Weight winder:	780 kg / 1720 lb
Bollard pull recommended:	2 x 1,5 ton if pulling with 3 knots with a sweep opening of 15m / 49 ft.
Deck space recommended for deployment and recovery:	6 x 5 meters / 16 ft
Power requirements (hydraulic) for reel and inflation;	40 l/min - 25l/min - 200 bar / 11 gallons x 7 gallons x 2901 psi
Size and weight of power pack recommended for reel operation/inflation:	
DESMI 15kW power pack no. 070682722. LxWxH:	110x800x980mm / 4 x 31 x 39 in weight 370kg / 816 lbs. full tanks.

Please note, Speed Sweep 2000 and 3200 (Hi-Seas) also available.



Test at OHMSETT, USA  
The Speed-Sweep System has been tested at Ohmsett with a very good result.

### BOOM REEL for DESMI Speed-Sweep System:

DESMI recommend a hydraulically operated reel for storage, easy deployment and recovery of the Speed-Sweep System. Manufactured in high grade steel and epoxy painted for the offshore environment, the reel is fitted with a permanent hydraulic motor and gearbox driving an enclosed duplex chain to the reel.

Twin shock valves are supplied on each reel to relieve excess loads during any upset conditions during deployment and recovery operations. The maximum hydraulic motor demand is typically 40 litre / 11 gallons per minute with a 140 bar / 2031 psi pressure. Fork lift channels and heavy duty weather cover are all standard.

The height of the reel is designed for it to be stored in a 10' ISO container if so required.

Dimensions: 2194 x 2000 x 2189 mm / 86 x 79 x 86 inches  
Weight approx: 800kg / 1764 lbs.

