CRANE SWEEPER
- Integrated pump, power pack and knuckle crane

PROVEN OIL SPILL TECHNOLOGY
CRANE SWEEPER - Integrated pump, power pack and knuckle crane

The CRANE SWEEPER system is a combination of a 50 kW / 67 hp hydraulic power unit, knuckle crane and DOP-250 DUAL pump.

The CRANE SWEEPER was originally conceived for pit cleaning operations where the abilities of the DOP-250 DUAL pump needed to be combined with the hydraulic power unit and a handling crane. The CRANE SWEEPER is ideal for the recovery of oils in pits, ditches and rivers as well as harbours and heavily impacted shorelines. The hydraulic cylinder at the end of the knuckle crane allows the orientation of the pump to be adjusted. Additionally the DOP-250 DUAL pump can be fitted with a self-adjusting weir assembly, this allows the pump to selectively skim oil from the water surface, and the crane supports the weight of the pump. The knuckle crane is mounted on a steel frame with the hydraulic power unit. Four outrigger legs with adjustable pads are fitted. Alternatively the CRANE SWEEPER can be welded or lashed to deck or truck. The pump or skimmer with the hoses can be lifted clear of the oil without manual assistance.

Advantages of the CRANE SWEEPER:

- High output diesel driven hydraulic power pack with knuckle crane
- Manual and remote control of crane and offloading pump
- Optional screw pump for oils and viscous liquids
- Assisted handling of oil skimmers, pumps and equipment
- Optional self-adjusting weir attachment for a DOP-250 DUAL pump
- Optional acoustic enclosed engine
- Optional towing package with wheels and tow bar

TECHNICAL DATA

The hydraulic power pack with crane can be supplied without the pump for handling and operation of floating skimmers and other equipment.

Hydraulic power unit: Electric start 50 kW / 67 hp 4 cylinder diesel, air cooled. Automatic shut down circuits.

Hydraulic output: Max 160 litres / 42 US gallon per minute, 210 bar / 3,050 psi for operation of DOP-250 DUAL pump unit or TERMINATOR skimmer at full capacity. Hydraulic oil cooler fitted. Two auxiliary hydraulic circuits are fitted as standard – 1 in & ½ in

Crane: Maximum reach 4.5 m / 14 ft (lifting capacity 200 kg / 440 lbs) Maximum lift 1,800 kg / 3,900 lbs at 1.5 m / 5 ft

Manual controls integrated with hydraulic power system.

Portable remote control box with 10m / 30ft of cable for control of 5 crane functions and DESMI pump.

Dimensions: 2.5 x 1.0 x 1.45 m / 99 x 39 x 57 in (without wheels)

Weight dry: 1,500 kg / 3,307 lbs

Optional pump unit: DOP-250 DUAL with a capacity of 125 m³ / hour

Skimmer adaptor: For fitting to inlet of DOP pump.

“Silent” engine: Acoustic enclosure for engine.

The hydraulic power unit can be supplied with additional outlets for driving other hydraulic devices.

The knuckle crane can be stowed over the top of the power pack for minimal shipping and storage volume. The frame is fitted with fork channels.

The skimmer adaptor facilitates the pumping of oil on water.