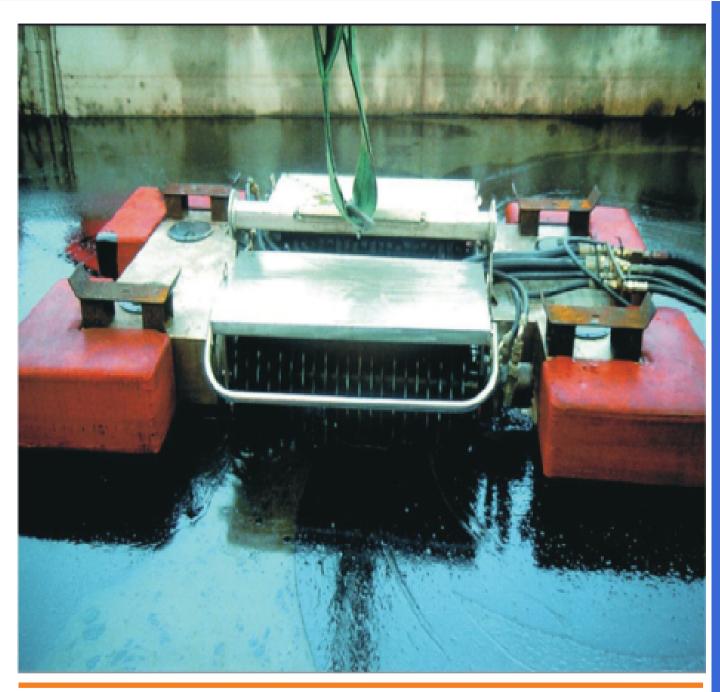
### SD100-VIK STAR DISC MAXI SKIMMER

VIKOMA

TECHNICAL SPECIFICATION



A heavy duty, hight capacity toothed disc skimmer ideal for use in open waters to recover high viscosity oil up to 1,000,000 cSt

The SD100 - VIK Star Dics Maxi Skimmer System is a robust, toothed disc skimminer making it suitable for the most challenging conditions

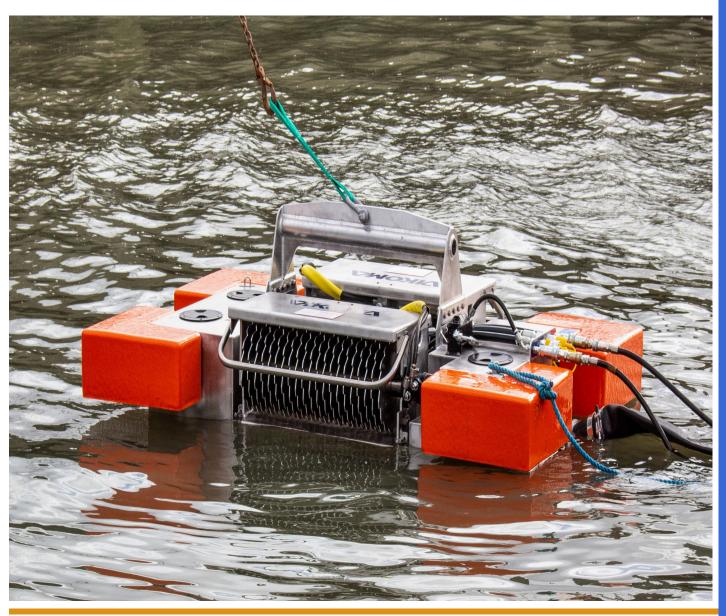




### SD100-VIK STAR DISC MAXI SKIMMER

**TECHNICAL SPECIFICATION** 









# Ensuring an effective solution to your oil spill requirements!

- Ideal for use in open water to recover high viscosity oil up to 1,000,000cSt
- Skimmer head recovers oil at up to 100m³/hr
- Two hinged 'star' disc banks
- It is a robust, toothed disc skimmer making it suitable for the most challenging conditions





## SD100-VIK STAR DISC MAXI SKIMMER

TECHNICAL SPECIFICATION



The SD100 -VIK Star Disc Maxi Skimmer system comprises of the SD100 -VIK heavy and able clicing clumps oil skimmer, power pack and hose kit with a hose reel for storage of the hoses.

The SD100 -VIK Star Disc Maxi Skimmer is fitted with twin disc banks to recover high viscosity oil at a rate of up to 100m³ per hour, making it ideal for large offshore spills. It can be supplied with optional interchageable brush units to assit in the recovery of lighter oils.

The robust aluminium construction and fenders make this skimmer suitable for the most challenging conditions.

The toothed disc bank lifts the heavy oil up and over a raised weir lip designed to minimise the amount of free water pick up, making this skimmer the most efficient type of weir skimmer available on the market.

The on board positive displacement Vikopump, rated at 100m³/hr is designed to transfer even the heaviest of oils and if required can increase viscosity efficiency by the addition of water injection system.

The SD100 -VIK Star Disc Maxi Skimmer can handle floating debris due to its hinged disc bank and ability to run in reverse. Smaller debris can pass throught the dics and is collected in agrill above the sump without affecting the operation of the skimmer. The SD100 -VIK Star Disc Maxi Skimmer has been used successfully in icy conditions, the strong toothed discs and pivoting disc banks enable to skimmer to be relatively unaffected by ice intake.

For heavy ice situations a steam injections system is available as an option, to facilitate the flow of oil within the recovery hoses.

The system is supplied with the powerpack, which incorporates two important safety features: a sparks from the exhaust ignition source; and an engine overspeed shutdown valve to protect the engine and operatives. Thrusters and remote controls are available for increased manoeuvrability.

#### **Product Benefits:**

- High capacity skimming for viscous oils.
- . Two hinged "star" disc banks
- Recovers oil to 100m³/hr



#### Capacity

100m³ per hour

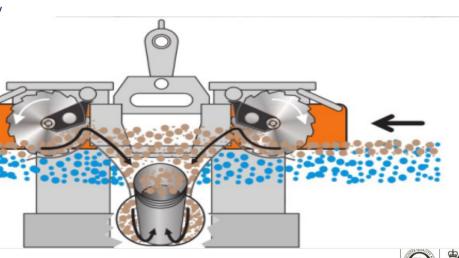
#### **System Components**

SD100-VIK Star Dics Maxi Skimmer head with Integral Lobe Pump. Diesel Hydraulic Powerpack Hose Kit.

#### System Components

Steam Injection
Water injection system for very
high viscosity oil.
Remote controlled thrusters.







Vikoma has an ongoing development programme, we reserve the right to amend the information contained in this leaflet without prior notice. All quoted dimensions and quantities are nominal.

### SD100-VIK STAR DISC MAXI SKIMMER

VIKOMA

**TECHNICAL SPECIFICATION** 

#### **Application**

The SD100 - VIK Star Disc Maxi Skimmer is a very versatile oil skimmer capable of recovering heavy and able slicing clumps oil and a wide range of viscosities. The skimmer houses two powered oil recovery modules which recover oil to a central hopper with an onboard pump mounted directly beneath. Star Disc recovery modules are intended for recovery of very heavy oil. Brush modules are used for recovery of lighter and emulsified products. Recovery rates of viscous and emulsified oils can be up to a maximum of 100m³/hour. Efficiency of oil pickup can be very high and can exceed 95% (oil to free water).



Length	225 cm
Width	137 cm
Height	128 cm
Weight	437 kg (without hoses)
Draft	61cm

#### Construction

Body	Marine grade aluminium
Buoyancy	4 built in compartments with additional closed cell buoyancy foan
Star discs	Aluminium alloy, two banks
Wipers (star disc)	Urethane
Brush	Two banks of brush
Combined materials	Stainless Steel
Discs speed	Variable to 40 rpm max
Drive	Orbital rotor hydraulic motors
Lifting	Central lifting point Forklift pockets

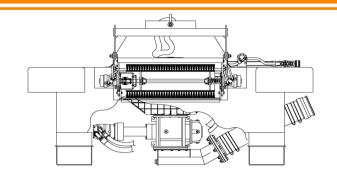
#### **Hydraulics**

Operating pressure	160 bar (200 bar max.)
Connection	Quick release couplings (QRCs)
Flow rate Brush/Discs	20 litres/minute Pressure 3/8 " QRC male Return 1/2" QRC female
Pump	125 litres/minute Pressure 3/4" QRC male Return 1" QRC female
/N I / N / II	

(Note: on Vikoma equipment, forward hydraulic flow is from the female coupling).

#### **Integral Transfer Pump**

Туре	Lobe pump mounted under body
Drive	Orbital rotor hydraulic motor
Discharge pressure	6.5 bar
Discharge outlet	6" male camlock
Max. solids handling	25 mm





#### Shipping Details (skimmer/ hoses)

Length	238cm
Width	149cm
Height	129cm
Weight	728Kg

#### **Standard Equipment**

Operating and maintenance manual Lifting sling (SE/6035)

#### **Optional Accessories**

Storage cassette with fork pockets, used with dual function system for spare disc or brush modules (HU/ 0489)

Polyurethane cover for skimmer (8055CV)

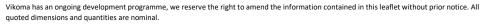
Water injection kit to improve pumping capability of viscous oils (OS/0059 Includes water pump unit (WI/0035), head kit (WI/0020), water injection hoses & hydraulic hoses)

HU/0450 Spares kit (SK/0958)

HU/0590 Spares kit (SK/0959)

HU/0495 Spares kit (SK/0962)







### POWERPACK for SD100-VIK SKIMMER

VIKOMA

TECHNICAL SPECIFICATION

#### DIESEL HYDRAULIC POWERPACK

#### **Application**

This Portable Diesel Hydraulic Powerpack is configured to supply the hydraulic power and controls necessary to operate a SD100 - VIK Skimmer system to a maximum capacity of 100m<sup>3</sup>/hr

#### **Dimensions**

Lenght 191 cm Width 106 cm Height 139 cm

Weight 950 Kg (system dry mass)

1250 Kg (with fuel/oil)

#### Construction

Frame Mild steel, painted (option stainless steel)

Hydraulic tank Mild steel 158 litre capacity Diesel

Diesel Fuel Tank Aluminium alloy 115 litre capacity

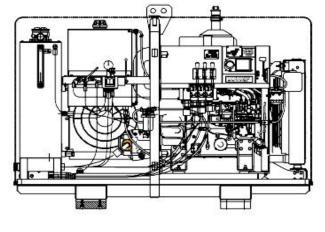
Cover panels Glass reinforced plastic

Paint finish Shot blasted steel with 2 coats

polyurethane primer and 2 coats polyurethane top coat

**RAL 2008** 

Lifting Central lift point and fork pockets.





#### **Performance**

170 bar maximum system pressure.

Flow control valves (friction lever type)

1/2" QRCs 0-30 l/min 1" QRCs 0-125 l/min

(option 0-90 I/min)

1/2" QRCs 0-20 I/min

Uncontrolled Connections
1" Pressure, 1" Return QRCs

#### Shipping Details

Length 203cm
Width 122cm
Height 149cm
Weight 1044Kg (dry)

#### Standard Accessories

1 x Lifting sling & shackle

Operation and maintenance manual

#### Optional Accessories

Overall PVC weather cover

Hydraulic pressure washer (PW/0200)

Spares Kit, comprehensive

Spares Kit, Service





### POWERPACK for SD100-VIK SKIMMER



TECHNICAL SPECIFICATION

#### **Engine**

Yanmar, Four cylinder; water-cooled; diesel emission compliant to Stage 3A & Interim Tier 4.

Continuous Rating 46kW at 2,500 rpm

Maximum 51.1kW at 2,500 rpm

Running Speed 2000 – 2500 rpm

Safety Devices Automatic air intake shut off valve for over speed protection.

Exhaust spark arrestor.

Low engine oil pressure shut-down High coolant temperature shutdown. Hydraulic oil low level shutdown

Hydraulic Oil high temperature shutdown

Running time at 50% load 16 hours

#### **Hydraulics**

Hydraulic Pump Axial piston type directly coupled to engine
Cooling Hydraulic oil cooled via a secondary radiator

Filtering Re-usable suction strainer

Return line filter with disposable element

RMax. Output 145 litres/min @ 175 bar (option 125 litres/min @ 170 bar)

Hydraulic Couplings Quick release couplings (Pressure female, return male)

#### Instrumentation/ Controls

#### **Hydraulic**

LS & PC control (user select)

Pressure relief valve

System Pressure gauge

Hydraulic supply isolation valve

Oil level/temp sight glass

Speed controls: 3 flow control valves (friction lever type); option 2 flow control valves

#### **Engine**

Speed control

Fuel level sight gauge

Key switch-off, run, heater, start Battery isolator

Alternator light

Electric start

Oil temperature warning light Oil pressure warning light Blocked air filter indicator Hour meter



