

**Call for Purchase Proposals No. EMSA/SA/1/2026**  
**Sale of Assets: Sale of Assets: Oil pollution**  
**response equipment**  
**Appendix I.D Description of the Assets located in**  
**Werkendam, The Netherlands – Lot 4**

| Type of equipment          | Item              | No. of items | First delivery | Description                                                                    | EMSA ID                                 |
|----------------------------|-------------------|--------------|----------------|--------------------------------------------------------------------------------|-----------------------------------------|
| 1. Sweeping Arms Koseq 15m | Frame             | 2            | 05/11/2008     | Rigid, foldable end with weir skimmer                                          | 0286<br>0287                            |
|                            | Pump              | 2            |                | Mariflex MSP 150-63, SCREW/CENTRIFUGAL PUMP OUTLET & INLET INJECTION FLANGE 6" | 0288<br>0289                            |
|                            | Oil hose(s)       | 4            |                | CARGO HOSE (150MM) 4.5 M DANTEC WITH CAMLOCK STAINLESS STEEL END               | 0311, 0312,<br>0313, 0314               |
|                            | Oil hose(s)       | 6            |                | BUNKER HOSE LAY FLAT (5-7 BAR) CAMLOCK                                         | 0315, 0316,<br>0317, 0318<br>0319, 0320 |
|                            | Oil hose(s)       | 2            |                | HOSE LAYFLAT (38MM) 2X1.5BSP COUPLINGS                                         | 0321, 0322                              |
|                            | Hydraulic hose(s) | set          |                | FROM PWPK TO CRANE PEDESTAL, RETURN                                            | 0292                                    |
|                            | Ancillaries       | 2            |                | WATER INJECTION PUMP SET                                                       | 0307<br>0308                            |
|                            | Water hose(s)     | 2            |                | WATER HOSES 30 M                                                               | 0297<br>0298                            |
|                            | Crane             | 2            |                | SWEEPING ARM CRANE / HYDR WINCH                                                | 0299<br>0300                            |
|                            | Control desk      | 2            |                | HYDRAULIC CONTROL                                                              | 0301<br>0302                            |
|                            | Power pack        | 1+1 spare    |                | HSP PWPK, ZONE 2, 125 KW                                                       | 0304<br>0306                            |
|                            | Flowmeter         | 1            | 23/06/2012     | KROHNE UFM 3030                                                                | 0361                                    |

# Equipment description

## KOSEQ Sweeping Arms

**Manufacturer:**

Kampers oil spill equipment B.V.

Oosthavenzijde 5

P.O. Box 5606

3297 ZG Puttershoek

The Netherlands

Tel: +31 78 6763811

Fax: +31 78 6764853

Email: [design@koseq.com](mailto:design@koseq.com)

Website: <http://www.koseq.com>

Purchase year: 2008

The Koseq rigid sweeping arm system consists of two 15-metre sweeping arms with foldable ends, oil transfer pumps, pump ancillaries, a control panel, hydraulic system, oil hoses, crane and hydraulic power pack. The sweeping arms are launched by means of cranes to be installed on board the vessel. The oil/water mixture is guided along the bulkheads of the sweeping arm and the side of the vessel via an adjustable debris screen and skimmer to the oil collecting chamber of the inner pontoon, from which it is removed by a hydraulically driven submersible cargo oil pump and discharged into the collecting tanks via a flexible hose.

The sweeping arm system is supplied with an integrated weir skimmer and centrifugal pump with screw impeller (Marflex MSP150-63), pre-installed with a hot water radial current system to facilitate pumping of high-viscosity oil. The system is provided with a remotely controlled self-cleaning grating to prevent debris from obstructing the skimmer and the pump.

### 1.1 Sweeping arm structure (length 15 m), including frame, collection chamber and debris screen

The sweeping arm pontoons are made of 4 mm steel. The bridge section has a lattice structure and oil-resistant PVC boarding. To reduce the footprint on deck, the end sections of the inner and outer pontoons are foldable.

The rigid sweeping arms are placed on supports welded to the ship's deck. ISO twist locks are welded on top of the supports to secure the rigid sweeping arms to their supports.

The sweeping arm structure includes the following parts:

a) INNER PONTOON 4 mm steel plating

1x Weir oil collection chamber, including guides, movable pump frame, movable debris screen, and port hole.

2x Hydraulic cylinders and hoses for moving the collection chamber and debris screen.

1x Bollard.

3x Rubber fenders.

1x Lifting lug

2x Towing lugs.

1x Offshore rated PVC anti slip grating on top.

1x Yellow coating RAL 1016

1x Inside preservation.

b) OUTER PONTOON 4 mm steel plating

1x Man hole inspection cover.

1x Rubber fender.

2x Bollards.

2x Towing lugs.

1x Offshore rated PVC anti slip grating on top.

1x Yellow coating RAL 1016 (Paint schedule attached)

1x Inside preservation.

c) BRIDGE SECTION

1x Watertight lattice square pipe framing.

2x Integrated CATCHERS systems.

9x Pipe stanchions (106 cm high) with chain and fixings.

6x PVC oil resistant boarding 2000 x 114 mm fixed with all stainless steel bolts, rings and nuts.

2x PVC oil resistant boarding 2000 x 117 mm fixed with all stainless steel bolts, rings and nuts.

1x Offshore rated PVC anti slip grating on top.

1x Yellow coating RAL 1016 (Paint schedule attached)



Koseq Rigid Sweeping Arm

## 1.2 Marflex Centrifugal Pump (Light/Medium oil skimmer module)

### Manufacturer:

Marflex B.V.

Louis Pasteurstraat 12

3261 LZ Oud-Beijerland

The Netherlands

Tel: +31 186 89 02 00  
Fax: +31 186 89 02 49  
Email: [info@marflex.com](mailto:info@marflex.com)  
Website: [www.marflex.com](http://www.marflex.com)

Purchase year: 2008

The Marflex pump type MSP-150-63 is a hydraulically driven, single-stage vertical centrifugal pump designed for efficient handling of viscous liquids, bulky solids and shear-sensitive liquids. The MSP 150 pump is based on a centrifugal screw impeller that combines the properties of a screw pump with those of a centrifugal pump.

The pump impeller is keyed directly onto the hydraulic motor shaft. High-pressure oil is led into the hydraulic motor through the pressure hose; the leak oil connection is connected to the return oil outlet port on the hydraulic motor.

**Specification:**

|                                |                                      |                                                                                                                                                                                    |
|--------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design:                        | Single stage centrifugal             |                                                                                                                                                                                    |
| Capacity/head:                 | 360 m <sup>3</sup> /h – 40 mlc. max. |                                                                                                                                                                                    |
| Viscosity/specific gravity:    | 1.0 cSt. at 20°C/1.0                 |                                                                                                                                                                                    |
| Speed:                         | 2000 rpm max.                        |                                                                                                                                                                                    |
| Required power:                | 45 kW                                |                                                                                                                                                                                    |
| Hydraulic motor type:          | Axial plunger with mechanical seal   | The pressure, return and drain lines for the hydraulic motor and the discharge line for the pump consist of flexible hoses. All hoses are provided with stainless steel couplings. |
| Hydraulic working pressure:    | 200 bar                              |                                                                                                                                                                                    |
| Hydraulic pressure, max.:      | 320 bar                              |                                                                                                                                                                                    |
| Hydraulic flow, max.:          | 130 l/min                            |                                                                                                                                                                                    |
| Maximum outer diameter:        | 490 mm                               |                                                                                                                                                                                    |
| Height:                        | 610 mm                               |                                                                                                                                                                                    |
| Weight, excl. hydraulic hoses: | 83 kg                                |                                                                                                                                                                                    |

Set of hoses consists of:

Hydraulic pressure hose: 1 “

Hydraulic return hose: 1½ “

Discharge hose: 6 “



Marflex Pumps

### 1.3 Set of oil and hydraulic hoses

**Manufacturer:**

Goodyear Engineered Products Europe  
Unit 25 Robins Road,  
Zone 3, Burntwood Business Park,  
Burntwood, Staffordshire  
UK WS7 3XB  
Tel: +44(0)1543 672511  
Fax: +44(0)1543 674917

Purchase year: 2008

The set consists of semi-rigid oil hoses, diameter 6 inches, 2 sections (10 m each), including connectors and adaptors (6 to 8 inches).

**Specification:**

**Oil hoses:**

Cargo hoses (150MM) 4.5 M DANTEC with camlock  
Bunker hoses (6") 8 m lay-flat (5–7 bar) with camlock  
Lay-flat hoses (38 mm), 30 m, with 2 x 1.5 BSP couplings



Oil Hoses

### Hydraulic hoses:

The hydraulic hose set is intended to connect the hydraulic power pack, crane pedestal, crane control desk and sweeping arm hydraulic functions. It supports the operation of the crane, pump, weir oil collection chamber, debris screen and, where applicable, the brush skimmer module.

The set includes pressure, return and drain/leak hydraulic lines of different lengths, fitted with quick-release stainless steel couplings, to enable connection between the main power supply, the crane-mounted controls and the equipment fitted on the rigid sweeping arms.

Given the age of the equipment, the hose set may not be fully complete or suitable for immediate operational use. Before any deployment, the hoses should be inspected and pressure-tested, and any hoses showing signs of wear, degradation, damage or expired service life should be replaced.

### 1.4 Water injection pump set

#### Manufacturer:

RO-CLEAN DESMI A/S

Hestehaven 21 B

DK-5260 Odense S

Phone: +45 6591 0201

Fax: +45 6590 8877

e-mail: [roclean-desmi@desmi.com](mailto:roclean-desmi@desmi.com)

Purchase year: 2008

The Desmi annular injection flanges are designed to effectively inject a thin water layer around the column of oil being transported through a 10-metre hose. This small amount of water (5–10% of the pump flow) dramatically reduces friction loss in the discharge line during high-viscosity oil pumping operations. The flanges are equipped with a non-return valve to prevent the pumped medium from entering the water supply line. The flanges are easy to connect to the pump outlet and can be dismantled and cleaned after operation.



Water injection unit



Water injection flange

The Desmi water injection unit is a portable, hydraulically driven pump set designed for injecting water into the Desmi water injection flanges. The water injection unit is connected to the power supply by means of a hose set and should be placed to allow the best possible control of the operation.

### 1.5 Water hoses

Length: 30 meters



Water hoses

### 1.6 Lifting crane/davit Lagendijk SK 5/10-5000/1000

**Manufacturer:**

Lagendijk Constructie B.V.

Choorhoekseweg 3

4424 NW Wemeldinge

The Netherlands

Tel: +31 (0) 113 621385

Fax: +31 (0) 113 622591

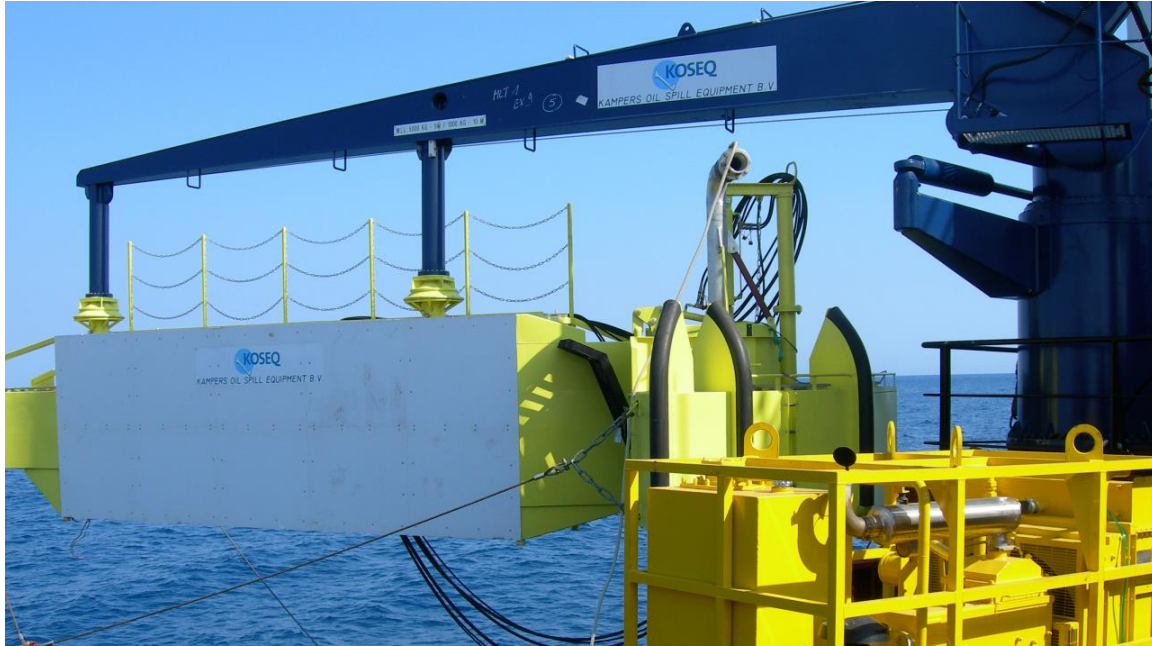
Email: [info@lagendijk-constructie.nl](mailto:info@lagendijk-constructie.nl)

Purchase year:

2008

## Specification:

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Type:             | SK 5/10-5000/1000                               |
| Main dimensions:  | Length: 13.43 – Width: 1.8 – height: 4.1 meters |
| Propulsion:       | Hydraulic                                       |
| Lifting capacity: | 5000 kg – 5.9 meters / 1000 kg – 10.2 meters    |
| Tilt:             | 3° max.                                         |



Lifting crane/davit Lagendijk SK 5/10-5000/1000

### 1.7 Hydraulic Control Desk

All functionalities of the sweeping arm system are controlled through the control panel attached to the crane foundation pillar.

The panel is made up of 6 handles with which the operator can control the following elements:

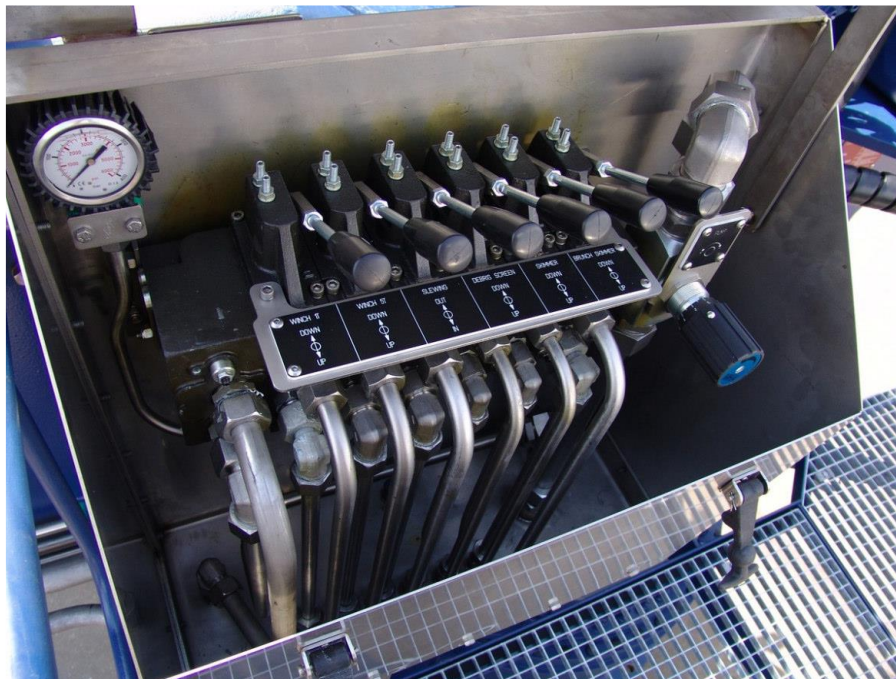
- Sweeping arm pump.
- Sweeping arm weir skimmer height.
- Sweeping arm debris screen.
- Crane winch (1 Ton.)
- Crane winch (5 Ton.)
- Crane Cylinder.

The hydraulic control desk is an integrated part of the crane. It is mounted on top of the crane to have an undisturbed view for operating the crane and rigid sweeping arm.

The operator control desk is made of stainless steel and contains valves for rotating the crane, operating both crane winches, adjusting the weir oil collection chamber, operating the debris screen and controlling the speed of the submersible pump.

The crane control desk is also prepared for operating the brush skimmer cassette and the Radio Remote Control system.

A pressure gauge is mounted to check the pressure in the hydraulic system. Just underneath the control desk, the manually operated STOP valve is mounted to cut hydraulic power to the crane control desk in an emergency.



Hydraulic Control Desk

## 1.8 Hydraulic power pack

### Manufacturer:

Kampers oil spill equipment B.V.  
Oosthavenzijde 5  
P.O. Box 5606  
3297 ZG Puttershoek  
The Netherlands  
Tel: +31 78 6763811  
Fax: +31 78 6764853  
Email: [design@koseq.com](mailto:design@koseq.com)  
Website: <http://www.koseq.com>

Purchase year: 2008

Explosion-proof, Zone II certified, diesel-driven hydraulic power packs (HPPs). The HPPs are mounted in a rugged frame and fitted with ISO twist locks to fit the deck-mounted frame with counter twist locks for quick and easy sea-fastening.

The power pack consists of a variable-displacement axial piston pump driven by the water-cooled diesel engine.

### Specification:

Type: Diesel

Rated power: Approx. 125 kW at 2000 rpm intermittent.

Start system: Hydraulic starting equipment, accumulator, recharging hydraulic pump, filter and start handle.  
Cooling system: Water cooling (coolant).  
Fuel system: Double filter incl. water separator.  
Fuel tank: Basement tank, incl. filler breather filter and level gauge.  
Air inlet: Dry filter with dust cyclone and visual dirt indicator.  
Exhaust: Exhaust gases cooled by the cooling system and stainless steel spark arrestor.  
Make: Pyroban  
Indicators: Engine speed, Coolant temperature, Exhaust temperature and lubricant pressure.  
Protection against: Low pressure of lubricant.  
High temperature of exhaust gases, 200 °C.  
High temperature of the engine cooling system, 100 °C.  
Overspeed of diesel engine, 2000 rpm.  
Hand operated emergency stop which is closing the air inlet valve.  
Operating temperature: -20 °C to +50 °C.

#### **Hydraulic system:**

Hydraulic pump: Parker. PV 140 variable axial plunger.  
Hydraulic system: Open.  
Hydraulic oil flow: 200 l/min at 2000 rpm.  
Hydraulic oil pressure: 350 bar max.  
Cooling system: Water-cooled, thermostat controlled and integrated with diesel engine's cooling system.  
Indicators: Hydraulic oil pressure and temperature.  
Protection against: Overpressure by relief valve in pressure system of Power pack (350 bar).  
High temperature and low level of hydraulic oil.  
Stop button that indirectly blocks fuel supply to the diesel engine fuel pump.

#### **Connections:**

Hydraulic high-pressure side: 1" quick coupling, female.  
Hydraulic return side: 1½" quick coupling, female.

#### **Dimensions / volume / weight / colour**

Length: 2200 mm.  
Width: 1340 mm.  
Height: 2210 mm.  
Volume of the diesel fuel tank: 400 litres  
Volume of hydraulic oil tank: 230 l.  
Volume of coolant system: 120 l.  
Weight: 2200 kg dry, 2830 kg. incl. hydraulic oil and diesel fuel.  
Colour: Cadmium yellow, RAL 1016.

The fuel tank is designed to contain fuel for extended use and to allow the diesel engine and hydraulic system of the power pack to be mounted in the smallest possible frame.



Koseq Hydraulic Power Pack

A second hydraulic power pack will be included free of charge. This unit is currently disassembled and may only be suitable for use as spare parts, as it is unclear whether all components required for reassembly are available.

### 1.9 Flow meter



KROHNE UFM 3030 is a universal 3-beam in-line ultrasonic flowmeter for liquids

- Independent of conductivity, viscosity, temperature, density and pressure
- No moving or intruding parts, therefore no pressure loss or wear

- Minimal operational and maintenance costs

UFM 3030 is a 3-beam ultrasonic flowmeter for liquids. UFM 3030 measures independent of conductivity, viscosity, temperature, density and pressure.

Highlights:

- Three beams generate a measurement effectively independent of flow profile
- Major performance improvement by applying innovative electronics and digital signal processing (DSP)
- Easy to install and operate
- No moving or intruding parts, no wear, no drift, therefore no additional pressure loss
- No material build-up as unobstructed flow sensor with smooth surface finish
- Insensitive to corrosive or abrasive products