

Mobile dewatering unit

Transport and treatment of sludge represent a considerable cost and environmental challenge for municipalities, waste management companies and related industries, and environmentally the challenge is global.

MaskoFlex® is developed to reduce the amount of waste and thereby expenses for transport and treatment of various sludge products. The dewatering system removes water from the sludge at the reception site and returns the water to the same source. The amount of sludge to be transported and treated is thus reduced by more than 80 per cent. Furthermore, the consistency of the sludge is suitable for further treatment.

The MaskoFlex® is based on known technology, namely the high-pressure jetting and sewer cleaning technology FlexLine®.

The unit has the following advantages:

- Totally self-sufficient unit.
- Dewatering at the site and return of the water to the source immediately.
- High capacity of m³ dewatered sludge per day before emptying the tank is required.
- High content of solids of the dewatered sludge.
- Flexibility. Suitable for septic tanks, chemical tanks and biological sludge.
- Compact, simple and reliable solutions without complicated pump systems.
- Low maintenance costs and easy cleaning facilities.
- Good work environment for the operators.
- Closed system in order to minimise smell and impurities.

The MaskoFlex® technology

The MaskoFlex® Mark II piston dewatering filter is part of a fully automatic dewatering system which includes a polymer dosing unit, dewatering filter and reject water tank with pump. The system is pending patent, and MaskoFlex® is a registered trademark.

The sewer cleaning technology

More than 1200 JHL sewer cleaning units have been delivered to more than 24 countries over the past 50 years, and thus the reliability of the technology has been fully tested.



Always prompt after-sales service

Worldwide service net

J. Hvidtved Larsen A/S performs high-quality after-sales service in our local workshops. In general, we seek local service solutions, but we are also able to call on our well-skilled service team whenever and wherever required.

J. Hvidtved Larsen A/S also offers a thorough training program for those of our customers who wish to do parts of or the entire maintenance themselves. These training programs ensure an optimum operation of the unit and extend the longevity of the MaskoFlex® and the equipment.



Type	MaskoFlex® 310	MaskoFlex® 312	MaskoFlex® 414
Tank capacity:	10 m ³	12 m ³	14 m ³
High-pressure pump:	Urac P3-10, 127 l/min at 160 bar.		
Vacuum pump:	Type RFW200, 20.600 l/min. cyclone filters in front of tank.		
Dewatering system:	Complete dewatering unit, made of stainless steel, hydraulically operated. Secondary filter integrated in the movable partition.		
Polymer system:	Fully automatic polymer dosing and mixing unit with possibility of manual dosing, including water supply pump.		
Reject water system:	Reject water pump. Reject water tank with automatic return of the reject water		
Transmission:	High-pressure pump, vacuum pump, dewatering system and other equipment, hydraulically operated.		
Bottom frame:	One double cabinet on the left side in front of/behind the tool shelf. One open shelf at the bottom left-hand side. One open shelf at the top on both sides.		
Control system:	PLC control of the entire unit with manual control panel on the right side.		
Electricity:	1 work lamp and 3 beacon lights.		
Hoses:	Hose reel, hydraulically operated with manual swivel, 50 m 3/4" + 60 m 1/2" hose. Swivel transport reel with 60 m 3" suction hose placed at the end cover.		
Quality standard:	J. Hvidtved Larsen A/S is ISO 9001:2000 certified, and certified according to the Pressure Equipment Directive 97/23/EC (PED)		

	Optional equipment
Fold-down suction hose reel	Fold-down suction hose reel for 50 m 3" suction hose or 80 m 3".
Vacuum pump	RFW 260, 26.000 l/min.
Pneumatic control	Pneumatic control of locking bolts. Pneumatic control of one, two or three 4" suction valves.
Comfort cabinet	Aluminium, left-hand side. Contains clothing cabinet and sanitary cabinet with water tank, water heater, soap and paper towel dispenser.
Cabinet	Extra cabinet to be placed on the left hand side.
Heat in cabinets	Heat in cabinets on the left side and possibly the sanitary cabinet.
Frost protection	Frost protection of the polymer system, the high-pressure system, valves and piping.
Remote control	Remote control with 8 functions (possibility of 4 extra functions).
High-pressure pump	Urac KD176, 391 l/min at 140 bar or 330 l/min at 170 bar.
Hose reel – high-pressure	5/4" hose reel hydraulically operated, with swivel, 150 m 5/4" or 180 m 1".
Cassette system	4" suction hose cassette system with hydraulic lift and double telescopic arm.
Oil burner	Oil burner placed in cabinet. Heated water is circulated in the jetting water system. (by the large jetting pump and hose reel).
1/2" reel	1/2" reel manual, no swivel, instead of standard 3/4" reel, 50 m jetting hose included.
Work lamps/beacon lights	Extra work lamps and beacon lights.
Ladder	Ladder.
ADR	Tank approved for hazardous waste, in front of and behind the partition.
Hoisting winch/emergency hoist	Manual or manual hydraulic.



Local distributor:

Silkeborg boplyk - 86 80 16 55 - MASKOFLEX0407



MaskoFlex®

Mobile dewatering system based on a standard sewer cleaning tanker



The MaskoFlex® concept

With MaskoFlex® you have a flexible unit based on ordinary sewer cleaning technology because MaskoFlex® also functions as a combined high-pressure jetting and suction unit in addition to its primary function as a dewatering unit.

This double function makes MaskoFlex® particularly well suited for all kinds of service companies within the industry.

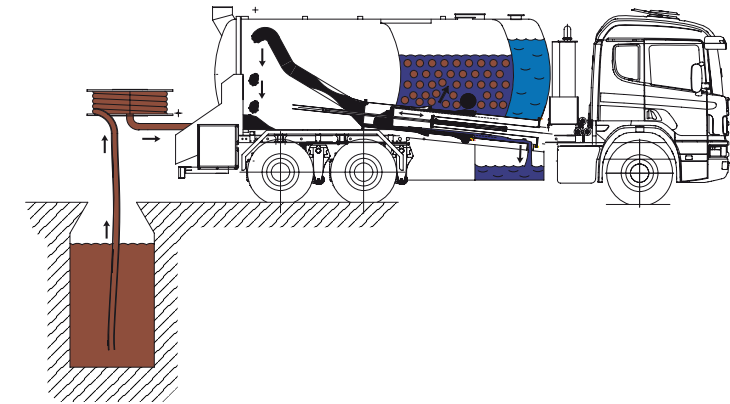
The MaskoFlex® rises to the occasion.

The heart of the concept is that the base unit is ready for the long range of extra equipment.

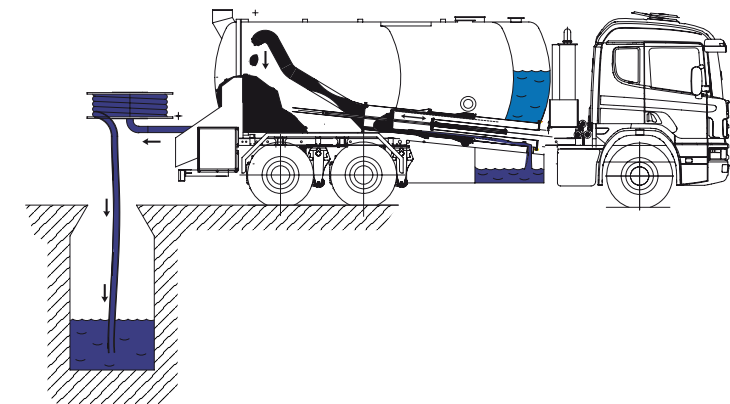
In the development of the MaskoFlex® concept, J. Hvidtved Larsen A/S has focused strongly on working environment, functionalism, technical design, and of course quality.

Tank/partition

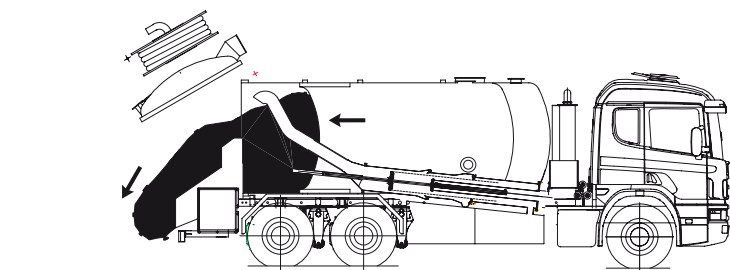
The tank is divided into three compartments: one compartment for water, one compartment for crude sludge and one for dewatered sludge. A movable partition is placed in the tank. The partition moves via vacuum or pressure from the compressor. The partition has 3-4 pre-set positions.



The sludge is sucked into the tank compartment in front of the partition, and here the required amount of polymer is added to the sludge. The polymer mixture and dosage may be adjusted during the whole process in order to achieve the best possible result.



The flocculated sludge is now continuously led to the dewatering system, and the sludge and water are separated. The dewatered sludge is pumped into the rear tank compartment, and the water is pumped through the suction hose back to the source.



Before emptying, the dewatered sludge may be drained for excess water via the movable partition. A filter system mounted in the partition ensures a higher degree of solids in the sludge. The rear tank compartment may now be emptied through the open end cover by means of the movable partition.

Standard MaskoFlex®

A basic MaskoFlex® unit has the following equipment:

- Complete dewatering unit, made of stainless steel, hydraulically controlled, electrically operated via the integrated control panel at the back of the unit.
- A reject water system consisting of a reject water pump with a reject water tank and an automatic return of reject water.
- Polymer dosing unit mounted in cabinet, complete for automatic/manual operation.
- Vacuum pump: RFW 200: 20,600 litres per minute. A filter unit with a double cyclone filter and a float ball protects the vacuum pump.
- A swivel transport reel for the suction hose is mounted on the back of the truck. The hydraulically operated reel is delivered with 60 m 3" suction hose.
- High-pressure pump: Uraca P3-10, 127 litres per minute at 160 bar.
- One small hose reel mounted at the back, right-hand side. The reel is hydraulically operated and equipped with 50 m 3/4" and 60 m 1/2" jetting hose.
- PLC control ensuring soft start of pumps monitors the dewatering process and control of rpm and water pressure.
- A control panel at the rear right-hand side of the truck operating all functions.
- Fully automatic end cover.
- A double cabinet placed at the rear left-hand side.
- An open shelf at the bottom left-hand side.
- An open shelf at the top left and right-hand side.
- A work lamp and 3 beacon lights.

Please refer to the table on the back of this brochure for listing of available extra equipment.



Complete dewatering system placed at the right-hand side of the unit.



Complete polymer dosing system.



High-pressure pump: Uraca P3-10, 127 litres per minute at 160 bar. The pump pictured is placed inside a cabinet for frost protection.



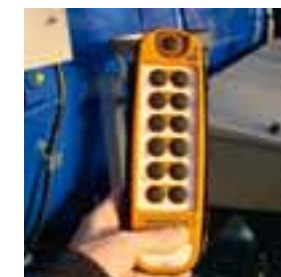
Swivel suction hose reel for 60 m 3" suction hose.



Vacuum pump: Wittig RFW200: 20,600 litres per minute or RFW260: 26,000 litres per minute.



PLC, remote control, pneumatic and electric control placed centrally in a cabinet behind the driver's cabin. Eases possible faultfinding.



Remote control available with 8 optional functions. Can be extended to include 4 extra functions.



The comfort cabinet consists of a clothing cabinet and a sanitary cabinet equipped with water tank, water heater, soap dispenser and paper towel dispenser.