



DESMI EnviRo-Care

Combating Marine Pollution & Protecting Waters

PROVEN TECHNOLOGY

DESMI

DESMI

- Proven Technology

DESMI was founded in 1834 by Henning Smith and is one of Denmark's oldest companies. However, despite our age we are known to be a modern and dynamic organization, which has constantly evolved to meet the needs of our customers and the changing business environment.

DESMI is delivering PROVEN TECHNOLOGY from 1834 until now is your guarantee for a solution proven and tested around the world.

Whatever your requirements for the deep-water offshore & off-shore environment, DESMI can advise, supply and train on the widest range of proven solutions available in the industry today



DESMI offers full range of equipment and always state-of-the-art with regard to quality and design



DESMI delivers proven solutions, delivering the lowest life cycle costs and life cycle support and is the market leader for booms and recovery systems



Our customers & partners are important to us, together we create a sustainable tomorrow.

Marine and Aquatic debris is one of the most widespread solvable pollution problems plaguing the world's oceans, rivers, and lakes. Successful management of the problem requires a comprehensive understanding of marine and aquatic environments together with the necessary experience and the correct selection of proven equipment. Knowhow is key and dealing with DESMI brings many benefits. More than 180 years of Proven Technology has made DESMI a market leader in pump system technology and environmental solutions around the world.

From clean-up operations in the deep Jungle of South America to open ocean water clean-up operations around the world, DESMI EnviRo-Care

equipment provide unsurpassed containment and collection methods in water bodies to deflect and gather floating debris, municipal rubbish and plastic articles. The DESMI equipment provides for the first step of any solid waste management chain that further down the road consists of transportation, recycling/processing, and finally a safe disposal of waste to safeguard the public health and the environment.

Let DESMI and our local representative assist you in determining the DESMI EnviRo-Care equipment, which will serve you best, and will tell you where it most efficiently can be deployed to deflect and gather floating materials.





Business Interaction



No matter how small or large, the project is,
our global presence and local knowledge makes
us competitive

We strongly believe in up-cycling. Therefore, successful management of the problem requires a comprehensive understanding of Marine & aquatic environment together with the necessary experience and the correct selection of proven equipments... **We have it all.**

- Equipments
- Environmental flow assessment
- Optimized value chain process
- Alternative options
- Consultation Process
- After Sales Service

Choose our package:



RELY ON US

From locating to collecting, transporting to sorting, recycling to generating... **We do it all for you.**



COLLABORATIVE CLEANING “WALKING TOGETHER”

Generating collaborative solutions together which results in sustainable transfer of rewards and donations to our planet **“Branding Together”**.



BUY, RENT, LEASE

We also offer buying, renting and leasing options for DESMI EnviRo-Care products



DESMI EnviRo-Enhancer

Floating debris, municipal Trash and Plastic articles are an ongoing blemish on the Environment. Much of this material finds its way into streams, rivers, canals and ultimately into our oceans. A simple solution to this is the DESMI EnviRo-Enhancer

It is designed to operate under a wide range of tidal conditions and water flow rates with minimal maintenance and longevity in mind.

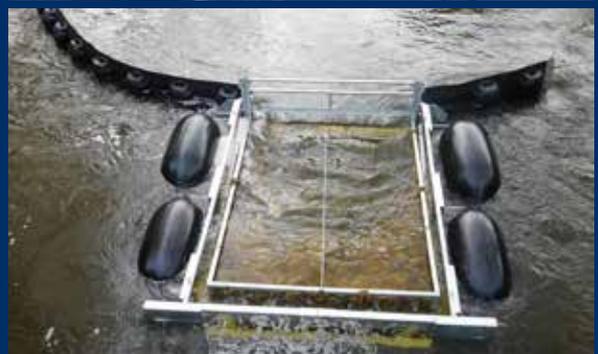
DESMI Enhancer system utilize proven DESMI booms and tide compensation accessories as an integral part of the system. Performance, simplicity, and durability are the watchwords for the EnviRo-Enhancer. It serves to contain much of the floating surface debris while allowing smaller particles and most naturally occurring materials suspended in the water column to pass through.

The unit floats on the surface of the water, rising and falling with tides and runoff.

Maintenance consists of periodically lifting the debris basket out of the trap and dumping of its content for sorting or disposal.

Installation consists of placing the Enhancer on pilings, and securing the upstream end of the boom to pilings or simply to the shoreline or a mooring.

The framework of the Enhancer is made from rugged steel construction and is hot dip galvanized for longevity in the marine and aquatic environments. Inflatable fenders or heavy PE pipes with foam filling provides the floatation. The basket is made up of Welded steel mesh.

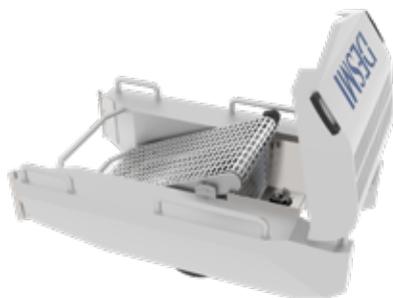


Successful removal of floating marine growth

DESMI has managed to deliver an environmentally responsible answer to marine growth challenges.

DESMI's ecological solutions for Seaweed containment and removal from water was launched as a response to the massive Seaweed issue present at many shorelines today. The seaweed has invaded beautiful beaches around the North Atlantic region and the Caribbean - a huge problem for the local residents, the local wildlife and the thousands of annual tourists.

DESMI booms in permanent installations have good references like no one in the market. Booms will deflect marine growth to specific areas where with the help of DESMI skimmer, it can be transferred to containers or trucks for easy transportation.



- ✓ A pump which is insensitive to sand
- ✓ A relative lightweight construction which can be deployed by 2-3 persons
- ✓ Skimmer body equipped with wheels for easy handling, deployment and recovery
- ✓ Stainless steel open mesh conveyor belt feeding the skimmer pump

DESMI Enviro-Tube

The DESMI Enviro-Tube unit is a light weight, low cost, trash recovery unit, for use in areas with lower capacity demand and with eventual difficult access. The unit is portable and could be brought in place for recovery, from even a small boat.

The unit requires a couple of guide booms, which could be at any convenient length and any boom style that can be connected to the unit by means of traditional oil boom connectors or the like. These guide booms could be floated into the recovery area and be connected to the recovery unit at site. The recovery unit will deliver the collected trash into bags on the downstream side of the unit.

These bags can be light, cheap and disposable bags, if this is most convenient. If there is no immediate

access to the recovery from the river bank, the bags can be released from the unit and then towed with a boat to a suitable place for lifting out of the water. The bag can immediately be replaced with a new one, with little manual work.

If there is good access the unit from the bank, the unit can have stronger, re-usable bags that can then be lifted out of the water and directly into a transport unit. These bags can have full drop bottoms and can then be reinstalled immediately after emptying.

The Enviro-Tube only need anchoring by the guide booms, which can be anchored to a bank and/or by anchors to the bottom.



High Recovery & Efficiency Rates even in Heavily Polluted Water with Chemicals

The DESMI Impounder unit is the first of its kind combining high recovery and efficiency rates to collect municipal rubbish and plastic articles from the surface of water and from land.

The functional requirements of DESMI Impounder are based on some very specific demands including;

- Quick recovery
- Efficient loading of debris into containers.
- Reduction of labor costs and injuries.

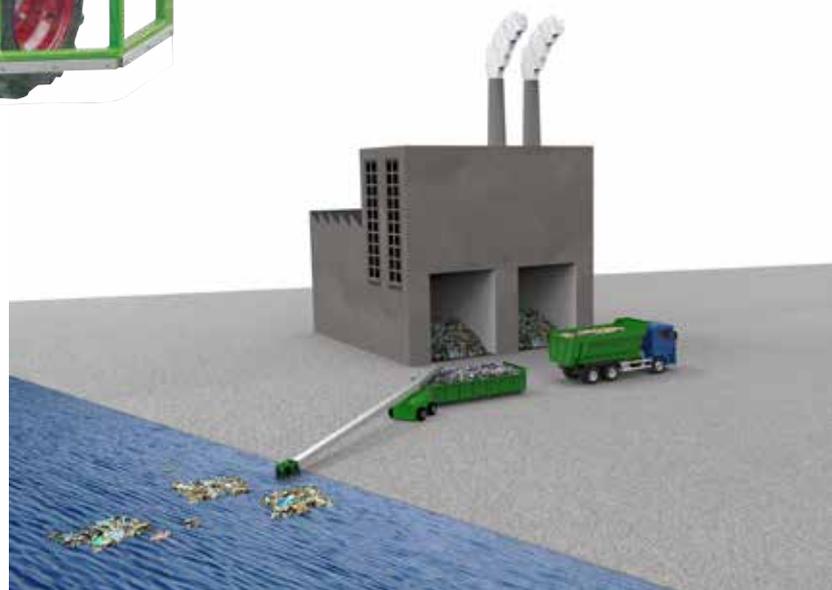
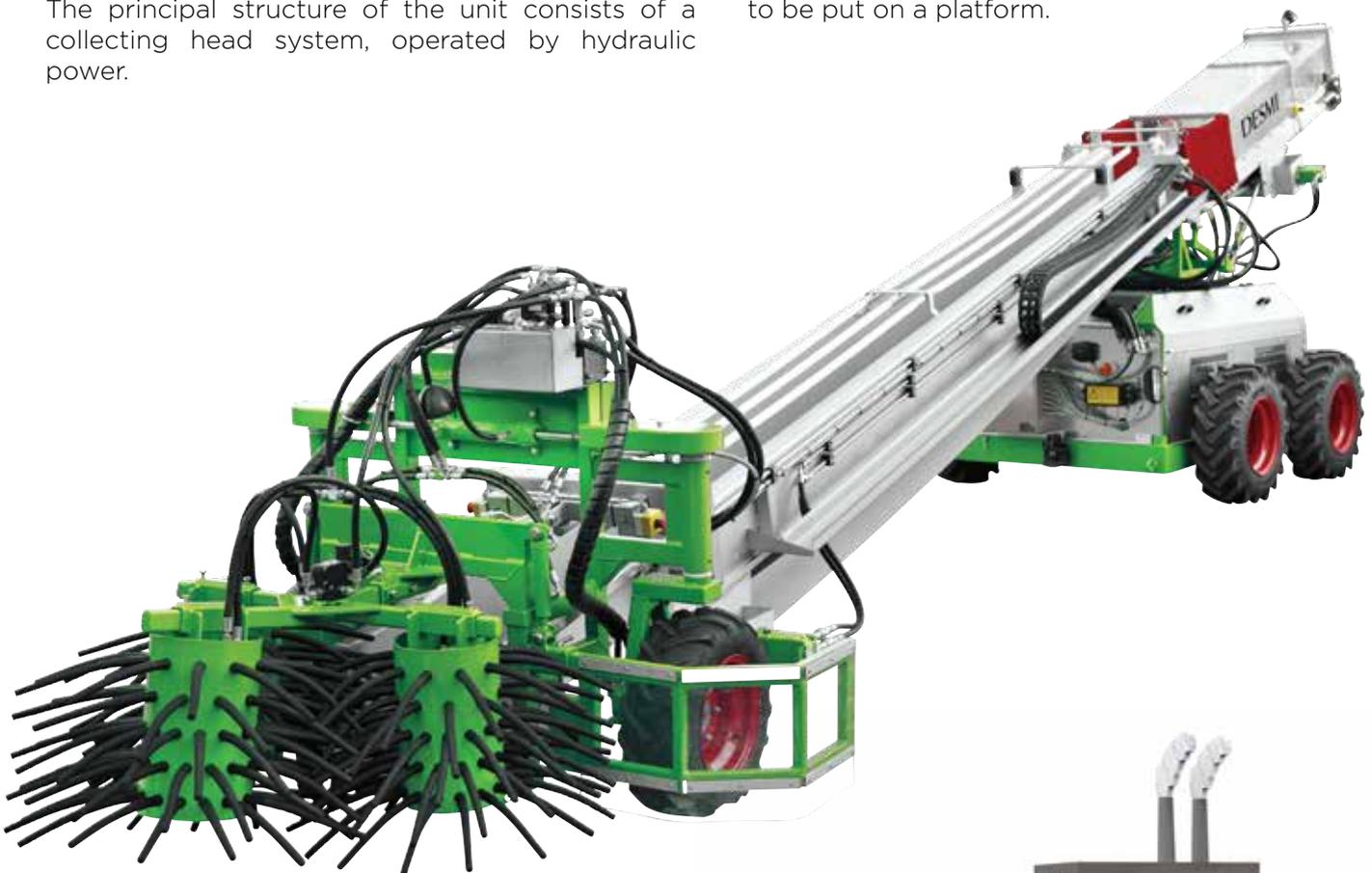
The principal structure of the unit consists of a collecting head system, operated by hydraulic power.

The collector consists of three barrel-like drums that rotate against one another. Hydraulic power supplied through the control unit drive these drums.

The surface of the drums is covered with long flexible “rubber fingers” that lift the debris through the collector-head into the conveyor.

The conveyor is telescopic and extendable up to 24 meters.

The Mobile solution comes with a four-wheel drive control power unit. The stationary solution is made to be put on a platform.



DESMI River Sweep

The DESMI River Sweep originates from DESMI's Oil Spill Segment. It is an innovative oil trawl design from the early 1980s to recover waxy oil residues. The trawl consists of sweeping wings and an entrance net - followed by up to 3 x collection socks, which can recover unwanted floating material.

The system is able to filter the water, trapping the debris into up to 3 x collection socks connected in series to the entrance net. Debris will be floating through entrance net, first sock, second sock, and into third sock (last sock). "Last" sock when filled

will be disconnected by means of control lines attached to a pick-up buoy. After the last sock is disconnected, the next sock, will then automatically close and become "last" sock. The pick-up buoy will be taken by the vessel (dinghy) which can tow away for disposal of the released debris-filled sock



The shows the River Sweep entrance net mounted onto deflated boom sweeping wings and held by Ro-Kite for single vessel operation and maximum efficiency.

Long Term Resistant

Range of DESMI booms in permanent installations have good references like no-one in the market. Based on the aquatic marine and debris behavior, sea and weather conditions, use of special designed floating booms made with ecofriendly materials and long term resistant to environmental conditions (like sunlight, UV, salt water) are essential.

In general terms, booms will deflect or create a collection area where the selected collecting unit will be located.



Supporting Equipments & Services

Not limited to:

- ✓ DESMI Boom Range
- ✓ Net Bags
- ✓ Fenders
- ✓ Sorting Bins
- ✓ Gloves
- ✓ Maintenance (Regular & Planned)



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