

We combine cleaning-as-a-service with added value from waste

Cleaning-as-a-service

Cleaning of bodies of water

- › Damen harvesters are leased to clean up lakes and rivers of plastic waste or invasive aquatic plants.
- › Short- and long-term leasing of vessel(s) for cleaning.
- › The collected waste and biomass is sorted and then processed for value.



Added value from waste

3 Plastic waste recycling route

Collected plastic waste is recycled if possible, and otherwise converted into energy.



4 Bio-energy route for biomass

Collected biomass is converted into biogas if possible, and otherwise into fertilizer or animal feed.



Profit and impact: a perfect partnership

The Damen River Scooper isn't just a vessel; it's a profitable investment that also makes a significant positive impact. To support organisations in improving the environment, Damen Financial Services (DFS) offers the River Scooper as part of its Vessel As a Service concept. With this, the vessel is made available on a long or short-term lease, with ownership remaining with DFS, the role of which includes the maintenance of the vessel in order to preserve optimal performance and availability. Operating partner Clewat is able to look for solutions to recycle waste wherever possible. The waste material can be converted to energy and biomass into fertilizer.

Corporate Social Responsibility (CSR)

The River Scooper aligns with CSR objectives, allowing businesses to showcase their commitment to environmental stewardship, attracting environmentally conscious customers and partners.

Supporting governments

Governments worldwide are increasingly recognising the importance of addressing plastic pollution. By working together with Damen, businesses and NGOs can position themselves as valuable partners. Business that deploy the River Scooper are able to access new markets and opportunities, participating in global efforts to combat plastic pollution.



The solution for cleaner rivers and waterways

RIVER SCOOPER 902 HDPE

› Ask for a tailored made offer fitting your needs.

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Turning off the tap

In the face of escalating plastic pollution, Damen in cooperation with Clewat, a Finnish clean-tech company, presents a cutting-edge solution to tackle this growing environmental crisis head-on: the Damen-built River Scooper 902 HDPE. With a mission to filter plastic waste from rivers and inland waterways, the River Scooper offers a revolutionary approach to environmental protection. In this brochure, we'll explore the remarkable features and commercial potential of the vessel, showcasing the game-changing opportunity it represents for businesses and organisations to make a positive impact while generating revenue.

Plastic pollution: an opportunity for change

The scourge of plastic pollution has created a pressing need for innovative solutions. Rivers and inland waterways serve as pathways for plastic waste, which ultimately finds its way into oceans, causing extensive harm to marine ecosystems. With the Damen River Scooper 902 HDPE,

businesses and organisations can seize the opportunity to make a substantial difference in cleaning our world's vital water bodies while reaping economic benefits.

The Damen River Scooper: a profitable investment

The Damen River Scooper is a state-of-the-art vessel designed to remove plastic waste from

rivers and inland waterways. The River Scooper combines Clewat's innovative 30 kW suction system with Damen's standardised shipbuilding philosophy. The result is a unique, high quality harvester solution that is easily scalable to meet varying requirements.

CLEWAT
SAVING THE SEAS

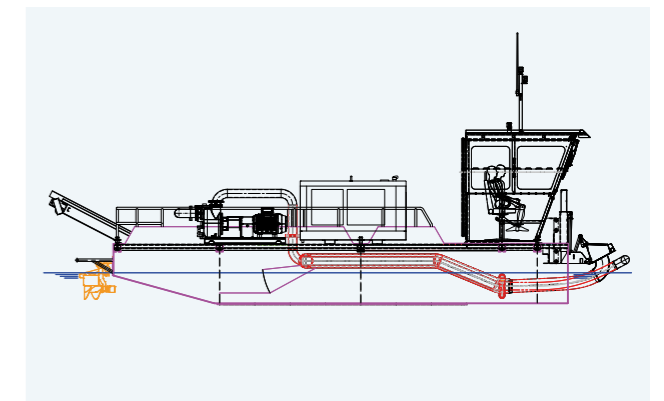


Advanced filtration system for efficiency

At the core of the River Scooper's ability to clean up plastic waste is its advanced filtration system. Equipped with a combination of Clewat's powerful suction system and a conveyor belt, this system effectively captures plastic waste up to 0,5mm as well as macro litter floating on the water's surface. Importantly, the vessel's design ensures minimal water and aquatic life intake, ensuring precise plastic removal without causing harm to the ecosystem.

High capacity for maximum profit

The Damen River Scooper boasts an impressive capacity to process plastic waste. Its high-speed



conveyor belts and easy connection to loading barges or floatable collection sacks, enable it to collect and store significant quantities of plastic debris during a single operation. This exceptional efficiency translates into tangible financial returns for investors.

Environmentally friendly for sustainable success

As part of Damen's commitment to sustainability, the River Scooper is equipped with an environmentally friendly propulsion system and is constructed using recyclable materials. The vessel uses a hybrid propulsion system with battery pack and back-up generator. The entire vessel is designed to be fully recyclable when end-of-life is reached.

River Scooper 902 HDPE

The DRS 902-HDPE is a compact, container sized hybrid craft, prepared for zero emissions, fully electric operation in future. The vessel is efficiently operated by just one person, but is able to comfortably accommodate two crew members. As an additional boost to sustainability, the River Scooper's floaters are also made from fully recyclable HDPE.

SPECIFICATIONS

- › Hull material: HDPE. The entire hull of the Vessel consists of High Density Polyethylene (HDPE) plating. HDPE is maintenance free, salt water and UV resistant and, therefore, very durable.
- › Overall length: 9.00 m
- › Overall beam: 2.25 m
- › Collection capacity: 6 tons per hour
- › Min filtered particle size: 0.5 mm
- › Classification: The vessel will be supplied with a DNV craft certificate and builder's certificate.

PERFORMANCE

- › Speed: 6 kts
- › Propulsion system: Hybrid electric 35 kVa -50Hz kW generator 120 kWh battery (12x Octopus 10kW)

