Rise S - Series

AUTOMATED TRASH REMOVER SYSTEM
Rise S - Series – Automated Trash Remover System

DESMI units under Rise – series are smart surface debris collection systems. These automated systems are designed to guide the marine debris for easy recovery with perforated belt designs. Serving the efficient purpose to remove the floating surface debris, while allowing the water to pass and intending to allow marine life to stay unharmed.

The Rise - S consists of an electrically driven belt system that lifts the debris out of the water draining away free water by gravity. This allows several subsequent possibilities:
- The recovered waste is unloaded into a floating container/barge
- The recovered waste is unloaded into a bag placed on barge
- The recovered waste is delivered on a subsequent belt guiding the waste to the shoreline.

Contrary to our Rise A series the conveyor belt used for transporting waste from Rise – S to the shoreline will be tailor-made with a transport length of up to 9 meters. The Rise – S has prepared a bracket for ensuring a safe connection and good operational compatibility between Rise – S and the subsequent belt. With this increased length the recovered waste can be guided into a municipal waste collection truck, container or be handled with any other means as per the local suitability.

In addition to the increased efficiency of waste collection due to the operation of the Rise-series, this series also offers a safer means to recover waste from the polluted waterbodies. Furthermore, the systems are equipped with highly efficient electrical motors ensuring negligible CO2 emissions.

The Rise - Series systems are made in marine grade aluminum whereas, the buoyancy is created by high abrasion resistant pontoons. With their modular design, the series ensures ease of shipping, storage and assembly.

Advantages for Rise - S:
- Simple and strong construction - High durability
- Designed to contain & recover all type of marine debris
- Easy to assemble and operate
- Up to 3,500 kg recovered waste per hour
- Operates under a wide range of tidal conditions and water flow
- No harm to the environment & marine life
- Low maintenance & energy consumption
- Reduce health risk to the operator

Technical Specifications for Rise – S:
- Frame Construction: Marine Grade Aluminum (ALMG 3)
- Straight Belt: Stainless Steel Mesh - Width 1020 mm - transport length 3000 mm
- Belt Speed from 0.2 – 1.0 meter/second
- Electric Motor Straight Belt: 230V – 0.5 kW, IP55
- Floats: HDPE pipe Ø560 mm
- Dimensions: L x W x H: 4050 x 2250 x 1475 mm
- Weight: 550 kg

- Subsequent Belt: Polypropylene Belt 9 meter in transport length and 1000 mm in width
- Electric Motor Subsequent Belt: 230V – 0.5 kW, IP55
- Belt speed from 0.2 – 1.0 meter/second