



Rise A - Series

AUTOMATED TRASH REMOVER SYSTEM
WITH FIXED ANGLED BELT

PROVEN TECHNOLOGY

DESMI

Rise A - Series – Automated Trash Remover System with fixed angled belt

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 - A is equipped with dual electrically driven belt systems that lift the debris out of the water draining away free water by gravity, and then load the material on a subsequent angled belt to either right or left direction. The highly efficient electrical motors used for the conveyor systems are causing negligible CO₂ emissions during operation.

The Rise - A is normally placed closer to the brink and after lifting the debris out of the water, the subsequent belt is transporting the material onto shore. The Rise - A is delivered as a modular concept allowing the second belt to be placed either in right or left direction at the installation time. It can of course be changed if required.

The operation of the Rise-series increases the efficiency of waste collection, in addition to, minimizing the time, which an operator may spend in the proximity of the polluted waters. Hence, making the operation safer for the operators.

The Rise - Series systems are made in marine grade aluminum whereas, the buoyancy is created by high abrasion resistant pontoons. Furthermore, the angled belt is counter balanced making the transport of waste material safe and easy. With their modular design, the series ensures ease of shipping, storage and assembly.



Advantages for Rise - A:

- 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

Dimensions:

- Platform with straight belt: L x W x H: 4210 x 2990 x 1500 mm
- Total dimension with angled belt: L x W x H: 4210 x 4930 x 2720 mm
- Total weight with angled belt: 750 kg (empty)

Technical Specifications for Rise – A:

- Frame Construction: Marine Grade Aluminum (ALMG 3)
- Straight Belt: Stainless Steel Mesh - Width 800 mm - transport length 2000 mm
- Angled belt: Width 990 mm transport length 1300 mm flat + 3600 mm (35° angled)
- Electric Motor Straight Belt: 230V - 0.5 kW, IP55
- Electric Motor Subsequent Belt: 230V - 0.5 kW, IP55
- Belt speed from 0.2 - 1.0 meter/second
- Floats: 2 x 2 each 1600 mm x Ø600 mm black HDPE

For more information on our systems and solutions, please visit www.desmi.com

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