



bosker & zonen
MACHINEFABRIEK APPARATENBOUW

Bosker Bandit Automatic Trashrake Technology

Powerful, compact automatic raking for small water inlets

Key features & benefits

- Flexible, compact, cable free design
- Low head room requirement
- Suits different intake sizes and effluents
- Easily retrofitted into existing intakes
- Can be located to a deck-mounted travel carriage for larger intakes
- Pre-programmed and level differential settings



How we create value

- No need for manual clearing methods
- Lower operational costs
- Fully efficient operation





Bosker Bandit automatic trashrakes are compact, powerful machines with an extendible rotating arm. They are the ideal solution for small, often remote, water or wastewater intakes, such as culverts and land drainage systems, which might have previously relied on manual clearing methods. The Bandit automatic trashrake can be easily retrofitted into existing intakes and can be operated either by a pre-programmed cycle, manual activation or level differential. The latter option is particularly useful for dealing with the unexpected volumes of debris caused by severe seasonal conditions.

Bosker Bandit automatic trashrakes can also be successfully applied to alternative sites, including river intakes and sewage treatment plants. In these installations the rake's grab can be manufactured in different materials according to the nature of the effluent, including hot-dipped galvanized mild steel, stainless steel or non-sparkling aluminum bronze for particular sewage applications.

Stainless steel, with special coatings to enhance its non-corrosive properties, is commonly used for saltwater environments in the Middle East.

Dexterity

Bosker Bandit automatic trashrakes can be supplied by Bosker as a standard 550lb (250kg) SWL design. A single cabinet control panel is included within the package. All Bosker Bandit automatic trashrake units have the ability to execute turns of up to 270°.

This dexterity of movement, combined with an extendible raking arm operated by three hydraulic rams, ensures even the most awkward intake can be effectively cleared of rubbish. The tines of the Bosker Bandit rake grab fully penetrate the intake's bar screens, so that even embedded and trapped debris is removed cleanly.

Bosker Trashrake

For intakes greater than 8.8ft (2.7m) the Bosker Bandit automatic trashrake can be located on a deck-mounted travel carriage. This enables the rake to clean multiple intakes and provides a low profile alternative to the overhead automatic trashrake.

Bosker Bandit Automatic Trashrake Specifications

Safe working load	250kg (550lb)
Grab width - minimum	1.2m (4ft)
Grab width - maximum	2.5m (8ft)
Maximum depth of screen	5m (16.5ft)
Bar spacing - minimum	12mm (0.5in)
Bar spacing - maximum	200mm (7.8in)
Stroke length	2.5m (8ft) approx
Dump height	1.6m (5ft) approx
Mounting dimensions	L 1m (3.3ft), W 1m (3.3ft), H 3m (9.8 ft)
Hydraulic motor size	2.2kW
Hydraulic working pressure	200 bar



Bosker Bandit automatic trashrake debris being dumped directly into containers for waste treatment or recycling.