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Jacopa Bosker Automatic Rakes
Rugged, effective intake protection

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The highly effective Bosker® automatic raking screen provides a vital first line of defence to the integrity of the entire wastewater treatment process.

Fine screens, coarse bar screens and pumps are expensive and vital wastewater treatment works assets. Oversized, destructive debris, commonly found in high capacity intakes, can cause significant damage and lead to lengthy, costly downtime while repairs are carried out.

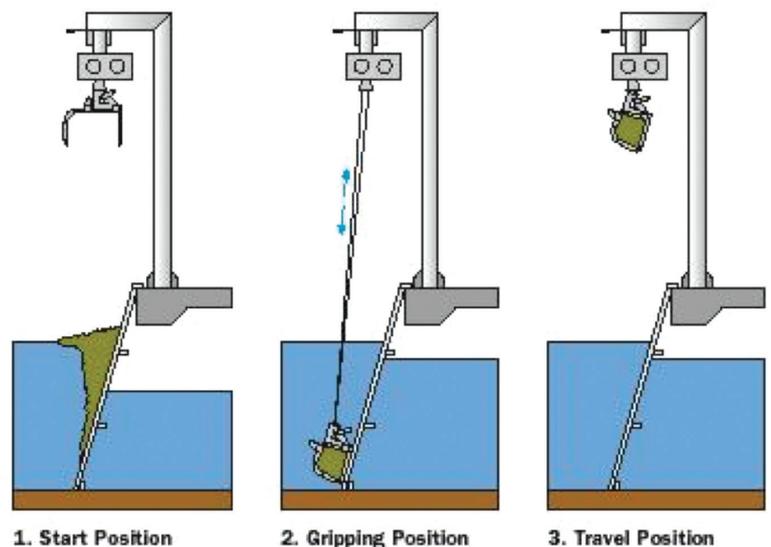
Jacopa offers a complete range of Bosker® automatic rakes, which do the job of three key pieces of equipment: they efficiently remove high volumes of debris, and also act as a conveyor and debris loading system.

The rakes are designed for a wide range of bar screen cleaning applications, providing coarse screen protection for intakes, pumping stations and wastewater treatment works.

Bosker rakes can be customised, and are easy to retrofit into existing works without expensive modifications. They have many advantages over conventional trashrakes, which may need extensive civil works and have limited ability to remove oversized, awkward or fibrous debris.



Damaged inlet screen



How the Bosker Overhead Trashrake Works

The overhead trashrake automated debris collection sequence:

- 1 The Bosker trashrake's tough grab is positioned over the accumulated debris.
- 2 The grab descends and safely contains the debris in its sturdy gripper mechanism.
- 3 The debris is thoroughly washed to remove contaminants, then the grab returns to the gantry.
- 4 The grab travels along a monorail and deposits debris as required for disposal.

Key Bosker features

- Grippers available in widths of up to 5m
- Intake depths of over 60m can be cleaned
- Vertical barscreens can be cleaned
- Multiple dump areas can be selected
- Travel speeds from 10 to 60m/min reduce overall cleaning cycle times
- Low noise operation for urban sites

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Bosker Overhead Trashrake at Thames Water's Deephams wwtp.



Bosker Bandit

Available models

The Bosker Overhead Automatic Trashrake

For existing or new installations, the rugged Bosker Overhead Trashrake has bar spacing from 12 to 200+ mm, and can be mounted on a straight or curved monorail. Lifting weight is 250 to 3000kg.

Materials: a variety of options including stainless steel, hot-dipped galvanised steel, and a non-sparking aluminium-bronze design for plants where non-sparking materials are mandatory.

The Bosker Bandit

Suitable for existing or new installations, the compact, powerful Bandit is located on a deck-mounted travel carriage, and so is especially suited to small or remote intakes. It can clean multiple intakes and can turn up to 270 degrees, allowing it to reach dumping areas in difficult positions.

The Bandit has a maximum depth of 2.5m and bar spacing of 12 to 200+ mm. It can be mounted on a concrete or steel platform and can lift up to 250kg. The system is a static or traversing (rack and pinion) design.

Materials: as above.

Key Benefits

Simple design and efficient debris handling make Bosker® trashrakes the ideal solution for cleaning single or multiple bar inlet screens at municipal wastewater treatment works. The Bosker is:

- Easily retrofitted into existing intakes
- Robust, well-engineered and cost effective, with low operational and maintenance costs
- Able to clear large items of debris such as tree trunks, as well as accumulated smaller debris items
- Fully automatic, taking debris from sump to dump in one smooth action
- Virtually maintenance free, with no submerged moving parts
- Over 1200 systems in successful operation worldwide

Expert Refurbishment and Repair

Jacopa's expertise in refurbishment means that customers can be confident that their assets will return to service in the best possible condition.

Expert staff can travel to site to repair and refurbish equipment, or assets can be moved to the specialist West Bromwich facility with its certified Health and Safety processes and fully equipped workshop.

The company's strategically located sites ensure full UK and Ireland coverage, and an extensive inventory of parts means refurbishment and repair of equipment is undertaken quickly and efficiently.



Here to Help

Jacopa's dedicated Bosker team, based at its acclaimed West Bromwich facility, is key to its highly regarded Bosker service.

The company's specialist staff provide impartial, expert advice to ensure that the lifespan and performance of each Bosker system is optimised, and that any new solution is designed to meet every challenge a site might face.

For aftermarket needs, Jacopa's Mechanical and Electrical service engineers have many decades of experience and work to comprehensive guidelines to ensure all projects comply with Health and Safety and environmental requirements.



Jacopa Limited

Cornwallis Road
Millard Industrial Estate
West Bromwich
West Midlands B70 7JF
T: +44 (0) 121 511 2400
F: +44 (0) 121 511 2401
E: info@jacopa.com

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jacopa.com