

Automatic Vertical Bar Screen



Manufacturing
water treatment
solutions.



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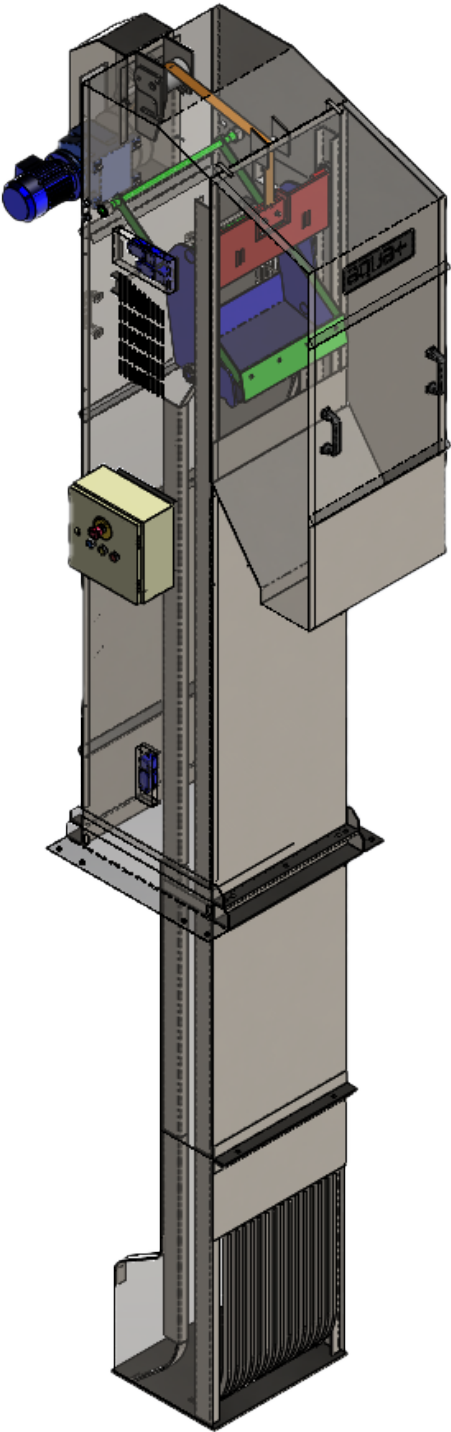
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Automatic Vertical Bar Screen

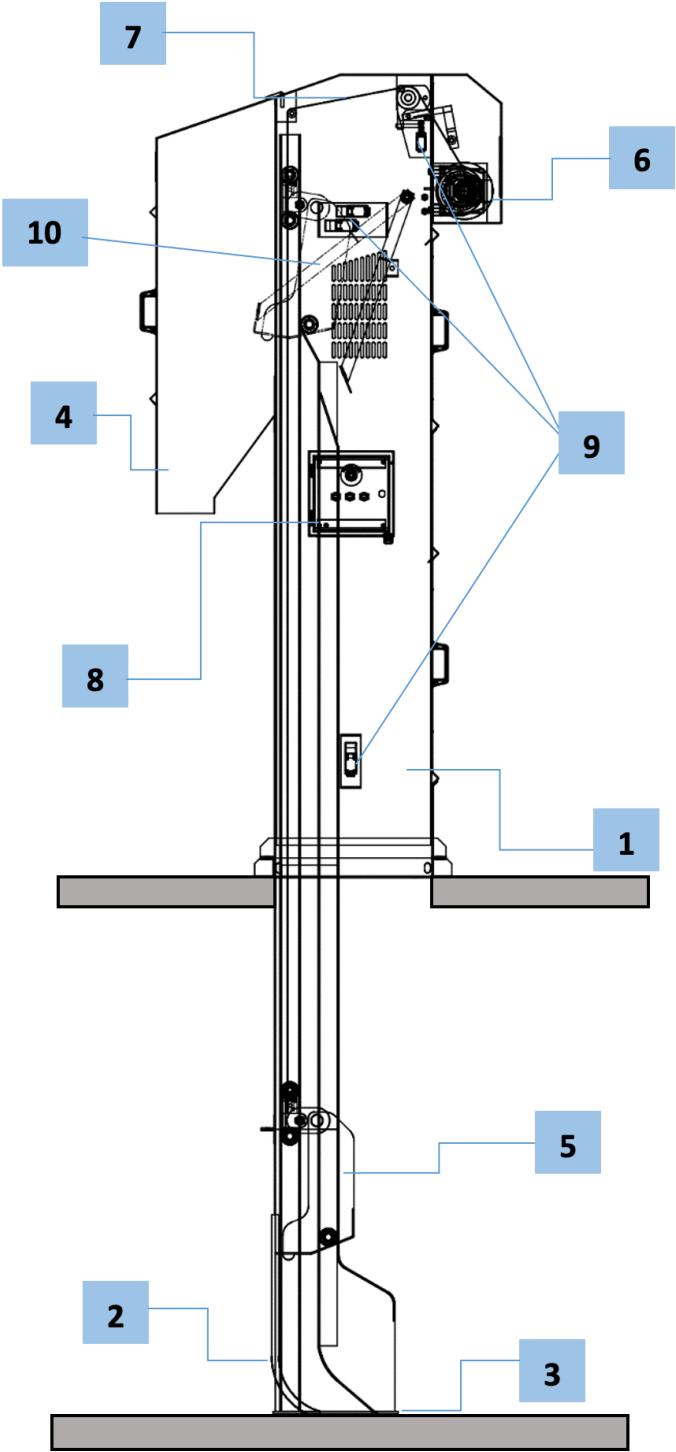
The downstream discharge DSV bar screen is fully automatic and is used for the removal of solid effluents from wastewater and industrial effluents.

Its simple design results in low operating costs and easy maintenance, fully meeting the requirements of pumping stations. After lifting, the screened waste is discharged either directly into a container or into a transport or compaction screw.

Designation	Characteristic
Frame Width	450 to 1500 mm
Minimum Depth Below Slab	1035 mm
Discharge	AVAL
Clear Opening	5 mm Mini
Max Flow Rate	6000 m3/h
Construction	Stainless steel 304L or 316L



Matériaux



N°	Designation
1	CHASSIS
2	FIXED GRATE WITH HINGE
3	APPROACH RECEPTACLE
4	WASTE DISCHARGE HOPPER
5	BUCKET ASSEMBLY
6	GEAR MOTOR
7	POLYESTER STRAP
8	MANUAL CONTROL BOX
9	LIMIT SWITCH
10	SCRAPER

Operating Principle

The operation of the automatic DSV screen cleaner is as follows:

Upon startup, the bucket/scrapper assembly in the raised position moves away from the scraping plane (open bucket position) until it reaches the tipping point where it rests against the screen at the lowest point.

The strap loosens, releasing a mechanism that activates the "low" end switch.

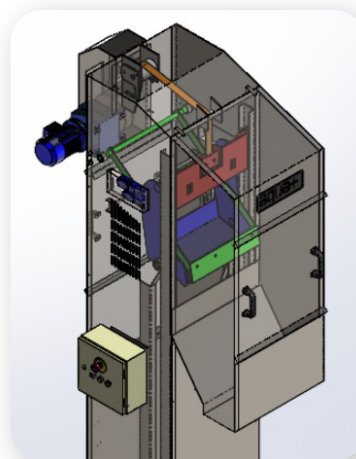
The motor direction is then reversed, tightening the strap, and the scraper closes by engaging its teeth into the screen, then ascends.

At the top, the bucket/scrapper assembly releases a ejector that scrapes the toothed plate and pushes the debris towards the spillway.

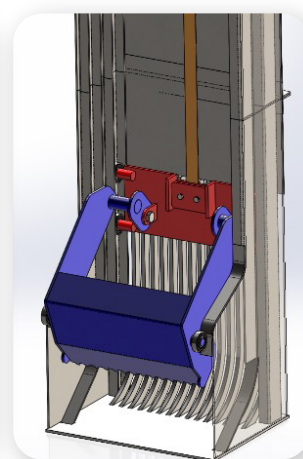
The "high" end switch stops the motor and activates the reverse switch.

The operating cycle repeats based on the predefined setting:

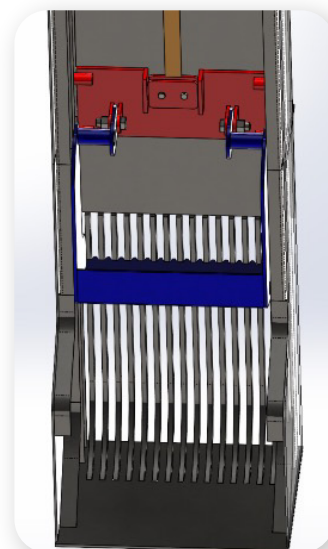
- On detection of pressure loss (ΔH , system to be managed by ultrasonic probes, upstream/downstream level of the grating, with delay);
- On detection of the clock cycle running;
- On automatic control command.



**BUCKET/SCRAPER ASSEMBLY
IN HIGH POSITION**



**LOWER BUCKET IN
OPEN POSITION**



**LIFTING OF WASTE IN
CLOSED POSITION**



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