PROCÉDÉS
WASTEWATER SCREENS



AUTOMATIC BAR SCREEN
Type XG

WITH DOWNSTREAM DISCHARGE
WIDTH from 450 to 2,000 mm

Single and central strap	New or existing structures	Unlimited screen height
Robust and reliable design	Custom Built	Low operating cost
Easy maintenance	Wear parts above water level	CE compliant

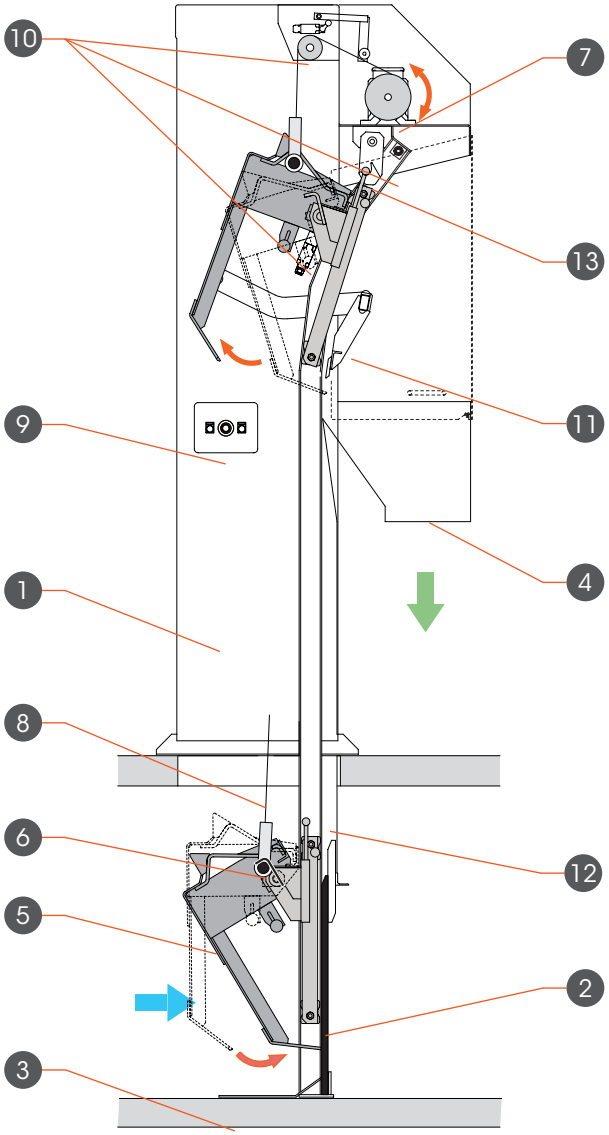
TECHNICAL SPECIFICATIONS

Max. Flow Rate	20,000 m3/h
Bar Spacing	3 to 60 mm
Width	450 to 2 000 mm
Max. Depth under Installation Plane	17,000 mm
Max. Total Height	21,000 mm
Discharge Side	Downstream
Slope	0°
Material	AISI 304L or 316L
Electrical Protection	Overcurrent Relay









1 • FRAME
Forming a protective casing with fastening components (by anchoring or grouting).

2 • FIXED SCREEN
Bar spacing on request.

3 • COLLECTION RECEPTACLE

4 • WASTE DISCHARGE HOPPER
With removable panel or trapdoor.

5 • SCOOP/CARRIAGE ASSEMBLY
The carriage slides in the rails. The scoop is equipped with a comb to clean the screen.

6 • MOBILE PART
Attached to the end of the strap, it initiates the opening or closing of the scoop according to its position on one of the two sides of the scoop hinge pins.

7 • GEARED MOTOR
(SEW, P=0,25 à 2,2kW), with single-strap drum. Protected by hinged casing equipped with a pneumatic actuator.

8 • POLYESTER STRAP
Resistant to all chemical products and freezing (breaking strength = 3.5 or 12 tons according to bar screen dimensions).

9 • MANUAL CONTROL PANEL
Equipped with «up-down» pushbuttons and an emergency stop punch button. The geared motor and limit sensors are connected to it.

10 • POSITION SWITCHES
«Top», «Very Top» and «Bottom».

11 • EJECTOR
Hinged on a pin and equipped with a scraper made of HD 1000.

12 • WASTE GUIDE

13 • LOCK

OPERATING PRINCIPLE

On receiving the operation signal, the open scoop/carriage assembly slides down to come to rest on the collection receptacle. Under the effect of gravity, the mobile part changes position, the strap slackens and releases a feeler which actuates the «bottom» limit sensor. The motor operating direction is then reversed, the strap is tightened, the scoop closes engaging its teeth in the screen and is raised. At the top, the scoop/carriage assembly releases an ejector which scrapes the comb and pushes the waste to an inclined plane. The «top» end of travel sensor stops the motor and actuates the reverser. The scoop/carriage assembly slides back down and comes to a stop on the lock. The strap slackens and releases the feeler which actuates the «bottom» end of travel sensor. The motor operating direction is reversed again, the strap is tightened, the mobile part changes position and opens the scoop. The «very top» limit sensor stops the motor and actuates the reverser. The open scoop/carriage assembly slides down again for a new cycle.

OPTIONS

Frame made up of several parts according to the depth or location (in building for example), acoustic insulation, manual screen for side by-pass, lateral deflectors, inspection door on hopper, heater to prevent freezing, cleaning ramp, ATEX equipment, metal channel, variable speed geared motor, electrical control and servo-control unit with or without variable speed drive, draining trapdoor, polycarbonate trapdoor, bagging machine, etc.

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