



PROCÉDÉS
WASTEWATER SCREENS

AUTOMATIC BAR SCREEN Type NG

WITH UPSTREAM WASTE DISCHARGE
WIDTH 450 mm to 2,000 mm

Single and
central strap

New or existing
structures

in channel or in
pumping station

Robust and
reliable design

Custom Built

Low
operating cost

Easy
maintenance

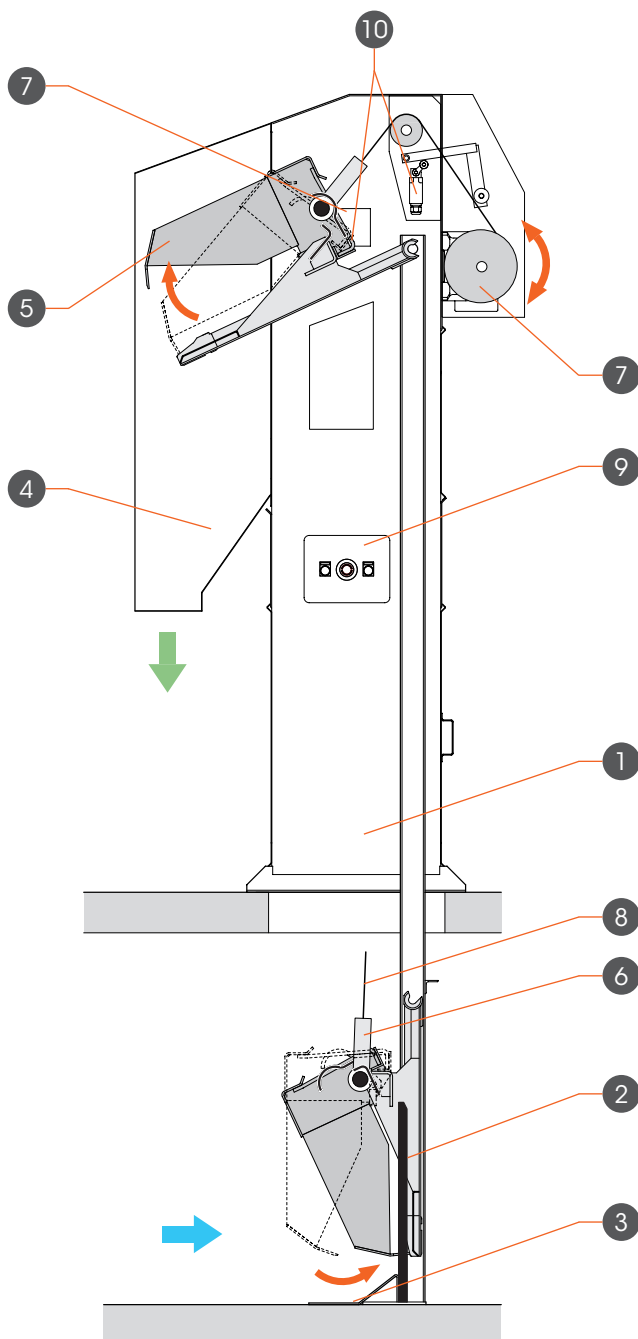
Wear parts above
water level

CE
compliant

TECHNICAL SPECIFICATIONS

Max. Flow Rate	6,000 m ³ /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	Upstream
Slope	0°
Material	AISI 304L, 316L or mixed





1 • FRAME

Forming a casing with fastening parts (by anchoring or grouting).

2 • FIXED SCREEN

Welded at lower end. Bar spacing on request.

3 • COLLECTION RECEPTACLE

4 • WASTE DISCHARGE HOPPER

Installed on hinges or hooks according to the layout.

5 • SCOOP/CARRIAGE ASSEMBLY

The carriage slides in the rails and discharges its load in the top position. 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=0.18 to 2.2kW), with single-strap drum. Protected by drum/belt protector or 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 push button. The geared motor and limit sensors are connected to it.

10 • POSITION SWITCHES

«Top» and «Bottom».

11 • SAFETY SWITCH

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 comes to bear against studs and then pivots until the position of the mobile part changes causing the scoop to open and discharge the waste. The "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, motorized brush to clean the comb, metal channel, variable speed geared motor, electrical control and servo-control unit with or without variable speed drive, draining trapdoor, polycarbonate trapdoor on the hopper, bagging machine, assembly or help with assembly provided by an FB Procédés technician, etc.