

AUTOMATIC BAR SCREEN

➔ Type SG400

SPECIFICITIES

- Upstream waste discharge.
- Ideal for installations with a flow of up to 120 m³/h.
- Can be adapted to all types of new or existing works (channel, station, etc.).
- Straightforward design = long-term reliability.
- Custom built, except for width which is fixed at 400 mm.
- Low operating costs and easy maintenance.
- Compliant with EC standards.
- Parts subject to wear and electrical equipment are out of water (accessible from installation plane).
- Waste directly recovered in a bin or other receptacle.

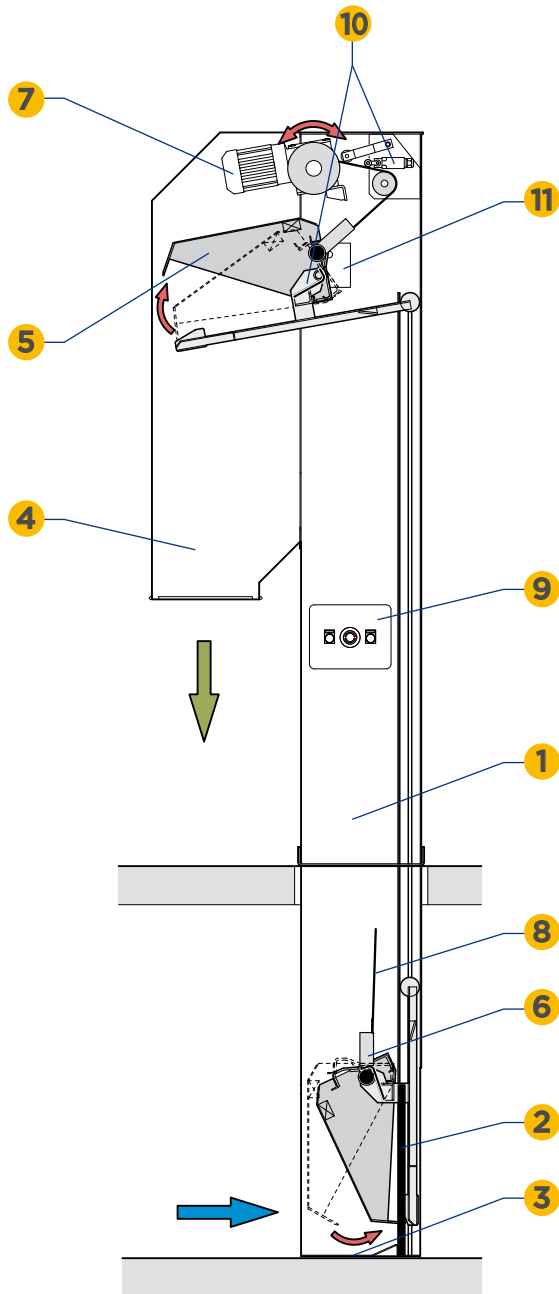
TECHNICAL CHARACTERISTICS

Max. rate (m ³ /h)	120
Bar spacing (mm)	3 to 40
Width (mm)	400
Maximum depth under installation plane (mm)	5,500
Max. total height (mm)	8,000
Discharge	Upstream
Slope/vertical	0°
Construction	304L, 316L or mixed.



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1 • FRAME

Forms casing with attachment parts (by fastening or embedding).

2 • FIXED SCREEN

Welded at lower end. Bar spacing on request.

3 • COLLECTION RECEPTACLE

4 • WASTE DISCHARGE HOPPER

Forms cover and installed on hinges.

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=0.18kW), with single-strap drum.

8 • POLYESTER STRAP

Resistant to all chemical products and freezing (breaking strength = 3 tons).

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” 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, metal channel, electrical control and servo-control unit, solar energy power with photovoltaic panels, assembly or help with assembly provided by an FB Procédés technician, etc.