PROCÉDÉS
WASTEWATER SCREENS

SCREW COMPACTOR
Type VCP
For screening rejects



TECHNICAL SPECIFICATIONS

	VCP 150	VCP 200	VCP 250
Max flow (m3/h)	0.5	1	2
Reduction of waste volume (%)	50		
Dryness (%)	30 (+/-5%)		
Max installation angle (°)	20	25	20
Max length (mm)	2,000	6,000	8,000
Frame material	AISI 304L or 316L		
Screw material	S235 Steel		

- Waste volume reduction
- Combination with a Bar Screen
- Robust and reliable design
- Custom built
- Easy maintenance
- Low operating cost







1 • PRESS UNIT

• Length of 300 mm on the VCP150, 500mm on the others
• Basket made of sheet with 60x4 mm perforations
• Adjustable compression flap
• Inspection door
• 1/4 turn manual valve, 3/4'' coupling, female (optional)
• Electro-valve (optional)
• Cleaning nozzles (x4)
• Washing rate at 4 bars = 36 L/min (intermittent)

2 • INTAKE HOPPER

Custom built

3 • FILTRATE OUTPUT

DN65

4 • OUTPUT HOPPER

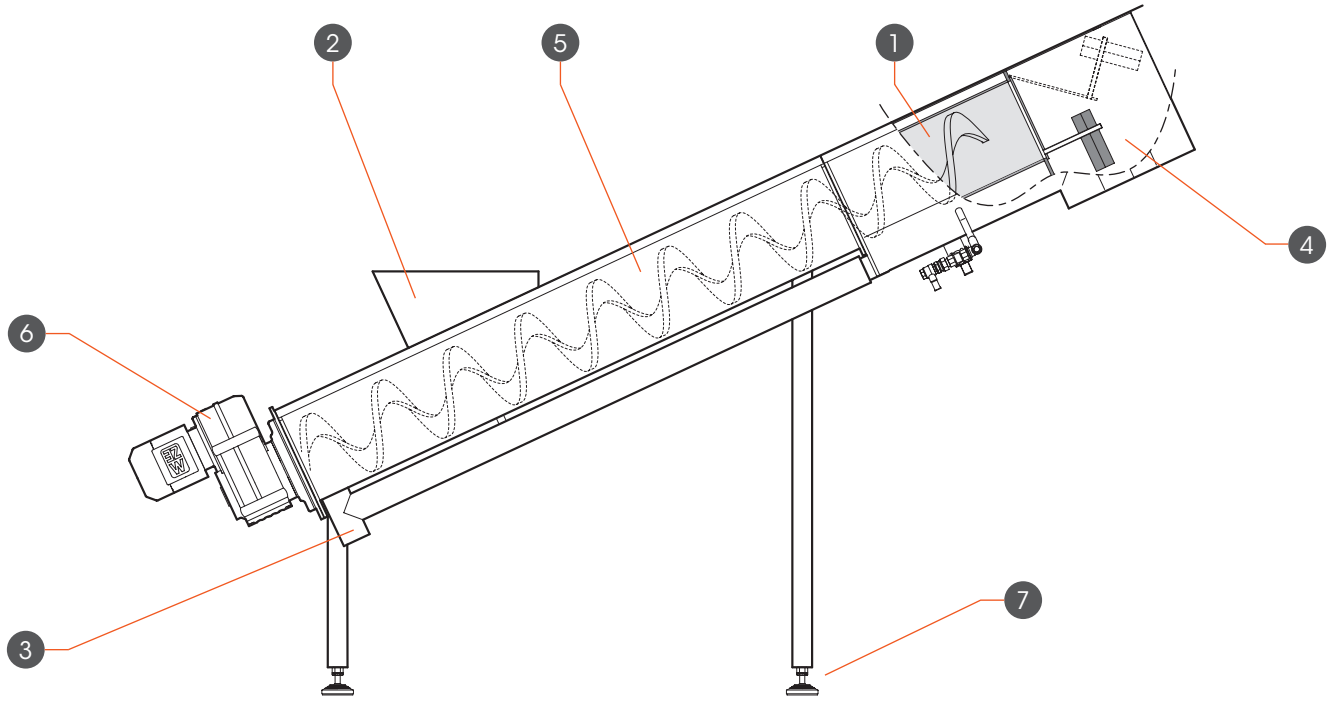
5 • CONVEYING AREA

	VCP 150	VCP 200	VCP 250
Ø of trough (mm)	170	225	274
Ø of screw thread (mm)	150	200	250
Flat section	50x10	70x12	80x20
Wear strip	HD500 thickness 6mm		

6 • GEARED MOTOR (SEW)

	VCP 150	VCP 200	VCP 250
Power (kW)	0.12	0.25 à 1.10	0.37 à 1.50

7 • ADJUSTABLE LEGS



OPERATING PRINCIPLE

The waste is discharged into the conveying area through the inlet hopper, which is adapted to the feeding equipment. The rotation of the shaftless screw directs the screenings towards the compaction zone, where they accumulate against the compression flap, kept closed by a counterweight. Once the pressure is sufficient, this flap opens and the compacted waste is discharged into the receiving container (automatic bagging unit, waste bin, vertical chute, or others).

The compaction zone, equipped with a basket made of perforated plate, is intermittently cleaned (factory setting: 1 minute every three to four hours) by four washing nozzles.
Drainage water, both from the conveying area and the compaction zone, is collected by a pipe welded under the screw along its entire length. The filtrate can then be returned to the channel or the pumping station.

OPTIONS

Discharge hopper extension, bagging head, automatic bagging unit with 70-meter plastic bag roll, manual valve and solenoid valve (for washing nozzles in the compaction and/or conveying zone), safety limit switch on the inspection hatch of the compaction chamber, waste washing ramp located in the conveying zone, etc.

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