

# ESMIL

## EQUIPMENT

EQUIPMENT AND TECHNOLOGIES  
for wastewater treatment

[www.esmil.eu](http://www.esmil.eu)

## ESMIL screw compacting presses

– ideal results under all circumstances

It is a high-performance equipment tested over the years of operation under various conditions for screening washing, compacting and transportation after screens.



Application in **various areas of wastewater treatment** – wastewater treatment plants, pumping stations, food, meat processing, chemical and other industries.



**High-strength,**  
wear-resistant  
construction



Ability to operate under  
**high mechanical**  
loads



The press housing is made  
from **corrosion-resistant**  
steel



**Simple installation** and  
synchronization with other  
equipment



## ESMIL SCREW COMPACTING PRESSES – RELIABILITY AND EFFICIENCY

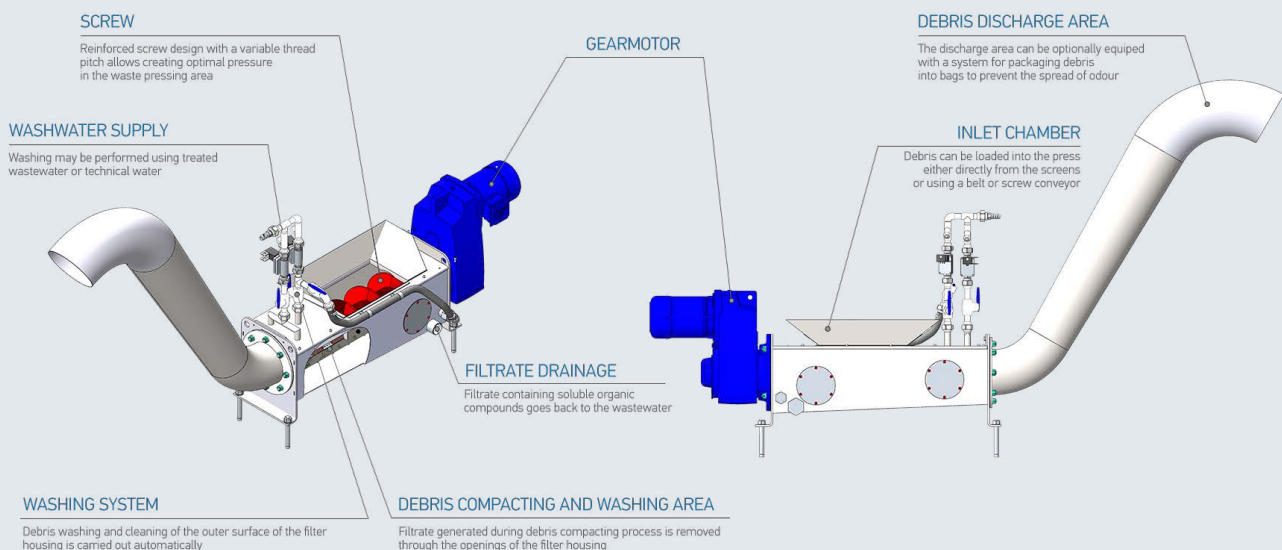
### WHY DO FACILITIES ALL OVER THE WORLD CHOOSE ESMIL COMPACTING PRESSES?

- ✓ **DESIGN:** the press is designed as an independent equipment, the working body of which is a screw rotating in a perforated casing. Screenings enter the press through the inlet hopper and are moved by a rotating screw to the compacting zone, where they are washed and compacted, then transferred to the discharge pipe.
- ✓ **PRODUCTIVITY AND STABILITY:** due to functionality and reliability, screw compacting press is an integral part of a complex of equipment for mechanical wastewater treatment.
- ✓ **EFFICIENCY:** operation in a wide variety of conditions, including pumping stations where high reliability equipment with minimal need for maintenance is required.
- ✓ **RELIABLE ELECTRIC DRIVE:** high torque gearmotor from one of the world's leading manufacturers – NORD Drivesystems.
- ✓ **VARIABILITY:** the press can operate both in continuous and periodic modes as a part of technological line of treatment facility.
- ✓ **ERGONOMICS:** ESMIL compacting presses are equipped with removable covers for easy maintenance.

## Advantages of ESMIL compacting presses

- » The design is not overloaded with complex mechanisms and components that require laborious maintenance.
- » Depending on the performance and operating conditions, we offer screw presses with 3 screw diameters: 120 mm, 200 mm, 300 mm.
- » Screws are produced using a special technology of stretching and forming. This allows precisely maintain a variable pitch in the compacting zone and a constant pitch in the transportation zone.
- » High-precision turning edges processing ensures precise work and stationary movement of the screw.
- » The standard construction provides connections for washing:
  1. Housing in the screenings loading zone.
  2. Housing in the compacting zone.
  3. Organic matter washing out of screenings.
- » High-strength steel inserts are installed in the housing to protect it from abrasion caused by the screw. The inserts are consumable and are easily replaced during periodic equipment maintenance.
- » The perforation of the casing is made taking into account the optimal arrangement of the holes for draining the filtrate and wash water.
- » Possibility of reverse movement to eliminate possible jamming.
- » Completely enclosed design with easy access for maintenance.

### SCP Screw Compacting Press



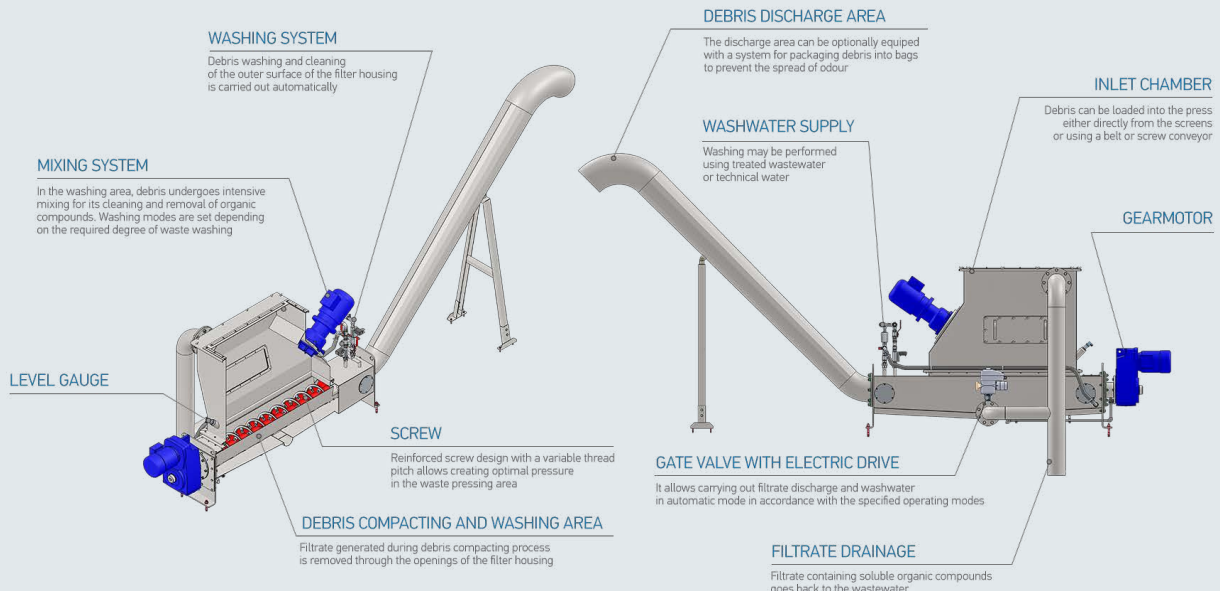
# When using the ESMIL compacting press, you will not even think about replacing equipment!

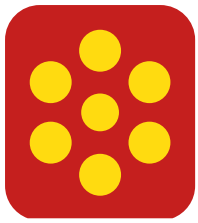
- » **High corrosion resistance:** the housing of screw compacting press is made of stainless steel AISI 304 or AISI 316;
- » **Anti-corrosion treatment** by etching and passivation with special agents;
- » High-quality steel used in the production of screws ensures **high strength and resistance to abrasion**;
- » Design features **facilitate equipment installation**;
- » **ESMIL compacting press does not require constant maintenance**;
- » Electrical **overload protection**;
- » Electrical **surge protection**.

ACCORDING TO EXPERTS OF FACILITIES, THE USE OF THE ESMIL SCREW COMPACTING PRESS AS PART OF THE WASTEWATER TREATMENT EQUIPMENT COMPLEX **IMPROVES THE SANITARY AND HYGIENIC CONDITIONS AT THE INSTALLATION SITE AND REDUCES THE VOLUME OF SCREENINGS TRANSPORTED TO STORAGE SITES BY 6-7 TIMES.**



## SCPw screw compacting press with washing function





## ADDITIONAL OPTIONS FOR SPECIAL OPERATING CONDITIONS

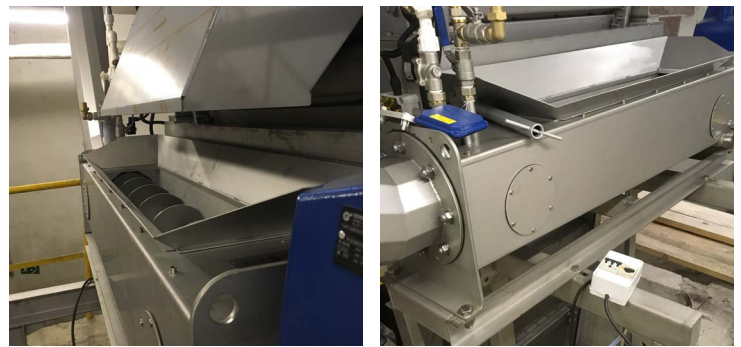
- » The discharge pipe can be designed at an angle of 10° to 90° to the horizontal plane and rotated 90° relative to the housing.
- » The discharge pipe length up to 5 m.
- » Additional washing of screenings in the screening loading zone.
- » Telescopic supports.
- » Design for outdoor installation.
- » Smooth performance adjustment by frequency controller.
- » Various modes of operation, synchronization of the complex.

### Technical parameters

Parameter	Value
Productivity	up to 2-3 m <sup>3</sup> /h
Screw diameter	120, 200, 300 mm
Wash water pressure	0,3...0,5 MPa
Wash water capacity	40 liters per cycle

### Electric drive – NORD

Ingress protection	IP55
Power	up to 4 kW
Output speed	11-21 rpm



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