

# NOGGERATH® Screw Press NP & Wash Press NW

## TASK

Dewatering, compaction, pressing, and conveyance of solids, combined with the optional washing out of soluble organic constituents.

## SOLUTION

The NOGGERATH® Screw Press NP & Wash Press NW can be integrated in a versatile and flexible manner, even into existing plants. The technology has been continuously improved since the first NOGGERATH® screenings washer was supplied. Due to the large number of machines already in operation, Bilfinger Water Technologies has gained extensive knowledge and experience concerning their application in both municipal and industrial installations.

## FUNCTION

The material, which is introduced via the infeed section, is taken up by the conveying screw and pushed in the direction of the wash and compacting section. The slotted bottom of the conveyor section enables a static dewatering of the medium. In the washing section the faeces are broken up and washed out and in the compacting section the material is compacted, dewatered further and pushed through the friction pipe.

## PRODUCT VARIANTS

Standard

Premium

- With screw adjustment and flanged washing module

Premium Plus

- With screw adjustment, flanged washing module and circumferential dewatering in the compacting zone

## DESIGN SIZES & PERFORMANCE

NW size	max. output (continuous operation) [m³/h]	washing performance [m³/h]
200	1.4	0.9
250	2.2	1.5
300	3.5	2.5
400	5.3	3.5
500	7.5	5.0

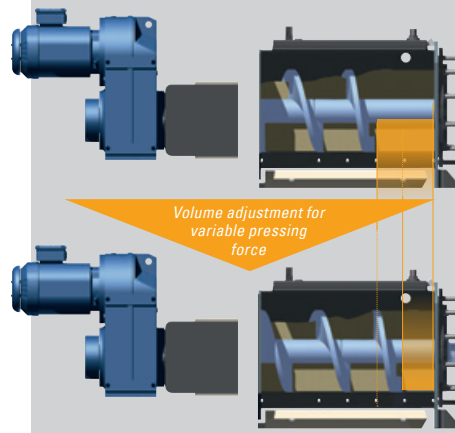
## BENEFITS

- Tried and tested design with high performance and low operating costs
- Reduction of wear costs due to individually replaceable modules (in Premium and Premium Plus models)
- Continuous, self-cleaning and sturdy slotted bottom, no necessity for wear rails
- Brushless screw made of wear-resistant special steel with double blade thickness on the last screw flight
- Significantly improved drainage efficiency in the slotted bottom
- Variably adjustable pressing force (in the Premium und Premium Plus models)



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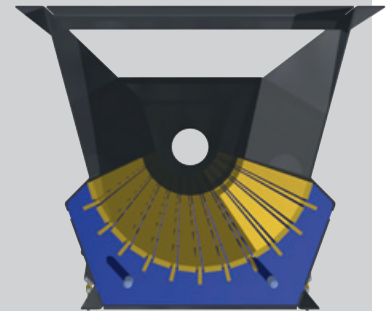


Variable volume adaption of the press plug by axial adjustment of the screw (in Premium and Premium Plus models)

- Adaptation to varying screenings
- Simple optimisation of the dry DS-contents
- Improvement of the washing result

Slotted bottom in infeed area and wash / compacting zone

- Very high drainage capacity due to new profile geometry and profile arrangement (outward enlargement of gaps in the bottom)
- No blockage of the drainage due to direct contact between screw and slotted bottom
- Wear resistant profiles (drawn material)
- No "shear force on the basket" as there are no wear rails



#### MATERIALS

Casing, covers, supports, hoppers: stainless steel EN 1.4301 (AISI 304) or stainless steel EN 1.4571 (AISI 316Ti)

Screw: special steel in accordance with NOGGERATH® standard, optionally stainless steel EN 1.4571 (AISI 316Ti)

#### OPTIONS

- Hygienic bagging for the compacted material
- Mobile version
- Swivel friction pipe

#### APPLICATIONS & FIELDS OF OPERATION

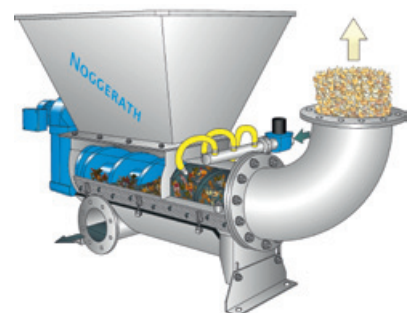
The NOGGERATH® Screw Press NP & Wash Press NW has a wide variety of applications in industry and municipality:

- Washing and dewatering of screenings
- Compaction of all kinds of short-fibred solids

#### UNIQUE FEATURES

- The axial adjustment of the screw (Premium / Premium Plus) for variable adaption to the press plug volume
- The modular design (Premium / Premium Plus) is particularly easy to maintain: drive module, infeed area module, washing and pressing module, discharge pipe
- The low rotational speed ensures gentle washing, prevents crushing of screenings, with particularly low wear operation

*Premium Plus Design (left)  
Flow scheme Wash Press NW (right)*



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