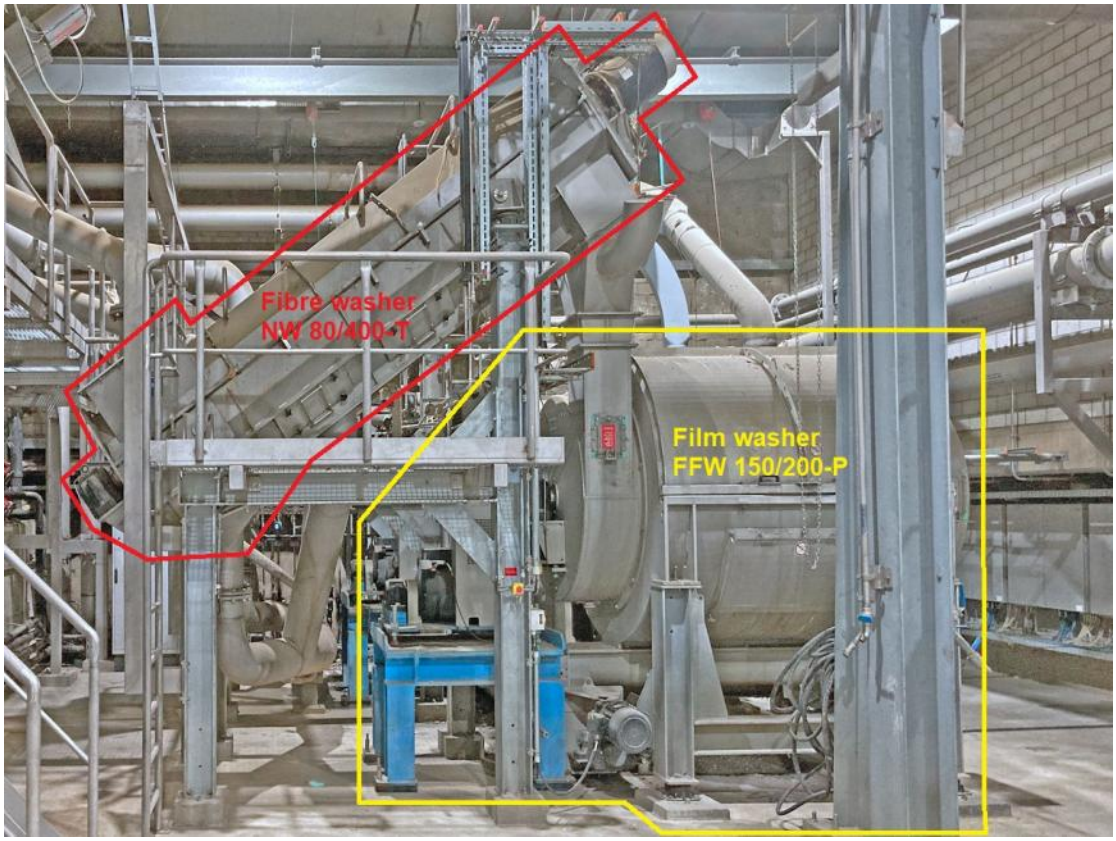
Film washer, type FFW 150-200-P, for the mechanical detachment of fibrous material (paper) from flat plastics, yoc 2015, only approx. 3,500 hours



The final film washer is designed for the mechanical detachment of fibrous material (paper) from flat plastics, with simultaneous shredding of the paper.

Technical data for the film washer:
Type FFW 150/200-P
Year of construction 2015
Operating hours approx. 3,500 hours
Drive power 105 kW
Speed 800 rpm
Rotor diameter 1,430 mm
Rotor speed 800 rpm
Machine dimensions 3,979 x 2,511 x 3,144 mm (l x w x h)
Total weight 8,310 kg

Functional description of the film washer:
The final film washer is designed for the mechanical detachment of fibrous material (paper) from flat plastics, with simultaneous shredding of the paper.

Several physical processes are used in the final film washer: Friction, impact effect and centrifugal force.

The film parts with the residual fibres fall into the chute of the material input. The fed material is caught and strongly accelerated by the fast rotating rotor. During this process, strong impact effects occur, whereby any pieces of paper that may still be present are already strongly shredded, but the film parts remain largely unharmed.

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The fed material is now driven through the machine in a spiral form by the slightly inclined rotor blades, constantly turning and rotating.

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Due to the high relative speed between the stationary screen basket (stator), which is provided with a perforation, and the rapidly turning rotor, a strong friction is created between the rotor blade ends and the screen basket.

This friction separates the different layers of a composite system (e.g. beverage carton) from each other, and the soaked paper is pulverised or frayed. The defibration is further promoted by additional impact effects during the machine run. Due to the centrifugal forces, the aqueous fibre suspension (fibres and water) is rubbed off the still large film pieces and thrown through the screen basket to the machine housing.

To prevent the build-up of a fibre cake on the outside of the screen basket and on the housing wall, a slowly rotating cleaning device permanently wipes off any build-up of material cake from the outside of the screen basket and the inside wall of the housing and sends it into the flushing mud at the bottom of the housing.

The material, which is largely not comminuted, is removed from the screen basket by a slowly rotating cleaning device.

The largely unshredded film particles leave the inside of the screen basket at the end of the machine and are discharged via the outlet opening. The fast rotating rotor creates a fan effect, which allows the blast-dried films to be conveyed over a certain distance in a tube in the air flow, so that they can be fed into a baler, for example.

Condition of the film washer:
The fibre washer has only been in operation for approx. 3,500 hours as part of a pilot project, after which it was dismantled and put into storage. The machine is in very good condition, ready for loading.

Comments:
The documentation (Manual, CE-declaration, electr./hydr.-drawings), are completely available in German language. Inspections are possible after agreement. We will not assume liability for the given technical data and possible errors.

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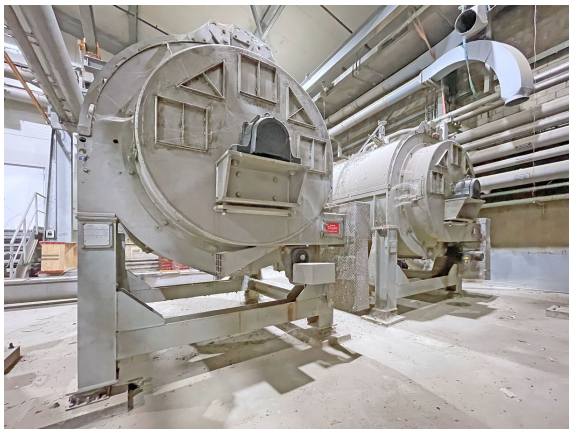

Film washer, type FFW 150-200-P, for the mechanical detachment of fibrous material (paper) from flat plastics, yoc 2015, only approx. 3,500 hours