



THAT'S THE WAY TO RECYCLE



TYPE FW

**WIPA FRICTION WASHER**

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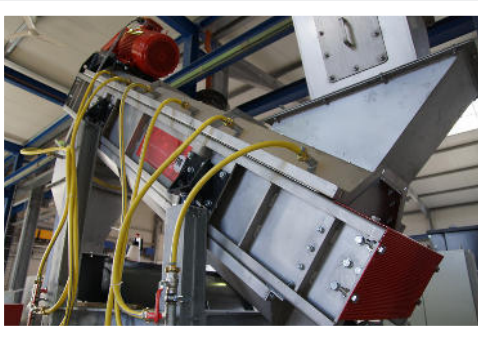
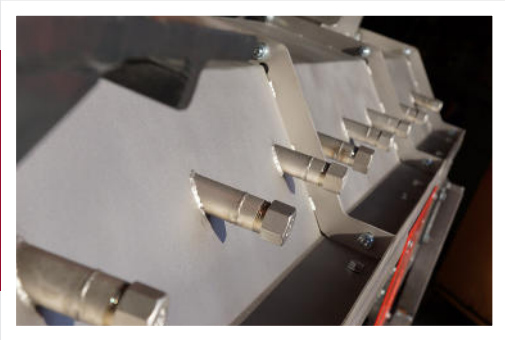
# WiPa Friction washer

## WiPa Friction washer Type FW

The WiPa friction washer type FW is used for intensive washing and also for dewatering plastics.

### The process

The material is fed into the bottom of the friction separator and moved to the top by means of blades mounted on the internal rotor. During the transfer, the material is being continuously thrown against the screen basket mounted around the rotor. This cleans the material and separates water, paper fibers, sand and other contamination substances from the material.



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### Screen basket

WiPa friction washer's screen basket has been enlarged by 30%, which means that substantially larger quantities of contamination substances and liquids can be separated.

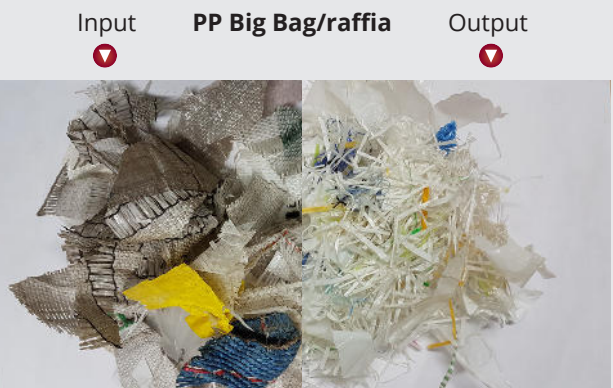
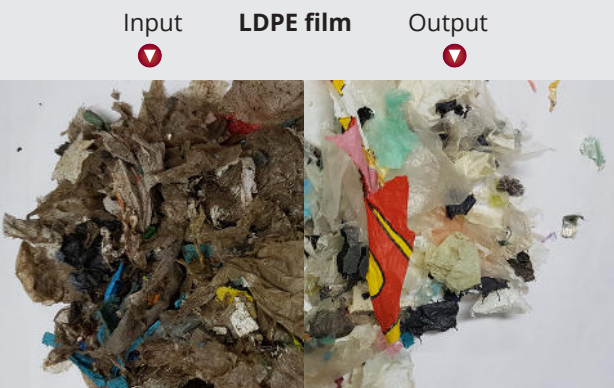
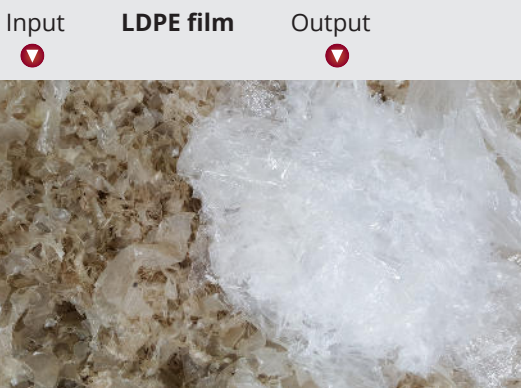
The tilted cover ensures that the material is being continuously turned around, considerably improving the separation of impurities from it.

As the screen elements have the same dimensions, storage and spare part costs are reduced, because the elements can be interchanged or be replaced simply. The filter elements in the feed section of the machine are used more intensively than those in the rear part, which means they will wear out quicker. As the dimensions of the screen plates in the front and rear part of the machine are identical, the filter elements in the front can be exchanged with those from the back and vice versa. This saves spare part costs, as the screen plates can be used longer.

Separate filter elements also enable the use of different screen perforations. For example, it is possible to have a larger screen perforation installed in the feed section of the machine than in the rear.

The perforation can be customized for individual materials. Standard screen perforation size is between 2 and 3 mm. However, other types of screens can be supplied, for example, with conical or angular perforations, as well as special screen elements for treatment of fibers or Big Bags.

The new screen design offers significantly larger filtering surfaces than comparable installations, which leads to a considerable improvement of the separation, wash and drying results.



## ADVANTAGES

- Effective cleaning with cold or warm water
- Improved separation due to approximately 30% more screen surface
- Separation of water and impurities, such as paper, organic substances and sand
- Easy replacement of screens
- Rotor with exchangeable blades
- Close to 360° maintenance possible
- Easy assembly and disassembly of cover plates

### Rotor

The FW series rotors are fitted with exchangeable blades. This makes it possible to use the most diverse variety of materials and geometrics, customized for your material. Further advantage of the exchangeable blades is that the rotor itself merely functions as a carrier and, therefore, hardly suffers wear and tear.

During operation the rotor has a circumferential speed of around 30 m/s. This means the materials are exposed to very high centrifugal forces, ensuring optimal separation of impurities from the material.

### 360° Maintenance

The WiPa friction washer type FW has a cover plate on the top and bottom of the machine. The machine can be opened more or less 360°, for cleaning or maintenance purposes. To facilitate possible need for inspection, additional inspection hatches are spread over the whole machine.

Technical data	FW500	FW600	FW700	FW800	FW900	FW1000
rotor diameter	460mm	560mm	660mm	760mm	860mm	960mm
rotor length in mm	2500	3000	3000 - 4000	3000 - 4000	3000 - 5000	3000 - 5000
drive	22kW	37kW	37 - 55kW	45 - 75kW	55 - 75kW	55 - 90kW
weight in kg	2000 - 2500	2000 - 3000	3000 - 4000	3000 - 4500	3500 - 4500	4500 - 5500

Output up to	t/h	t/h	t/h	t/h	t/h	t/h
LDPE film	0,7	1	1,3 - 1,8	1,5 - 2,5	2 - 3,2	3 - 4,5
HDPE/ PP regrind	1	1,2	1,5 - 2,5	1,8 - 3	2,5 - 3,5	3 - 5
PET bottle flakes	1,2	1,4	1,5 - 2,5	1,8 - 3	2,5 - 3,5	3 - 5
TetraPak	0,8	1	1,5 - 2	1,7 - 2,5	2,2 - 3,2	3 - 4,5

⚠ Output rate and technical data are experience values and can deviate depending on material type.