

Friction Washer model series FA

The friction washer is made of an inclined cylindrical trough with a fast running paddle screw to dewater and clean regrind from film or rigid plastics. The rotor is double bearing mounted and enclosed by a screen basket.

The rotor movement transports the material - from the the feed at the lower end - to the discharge at the upper end of the trough and is washed, rinsed and freed from small dirt particles. The separation of the waste water and small particles, such as frayed labels, is achieved by the friction at the paddle rotor along the screen perforation. Separated dirt particles are discharged with the water at the bottom of the trough. The screen in the trough is replaceable and has a standard perforation of 2.5 millimeters. The paddles on the rotor are also replaceable. A flushing device ensures automatic cleaning of the screen as well as the inside of the housing. With the FA 3000, additional flushing out of the rotor via hollow shaft is also available.

This unit is used to wash highly contaminated film flakes, for example. It is also used for discharging treated material mixed with water from a wet grinder. It is also used upstream or downstream of washing tanks and hydrocyclone separation stages.



Fig. 1: Friction Washer model series FA 60/300

Technical data:

Model	FA 3000	FA 60/300
Access to the rotor area	removable housing cover, cover screwed-on	Pneumatically hingeable upper part with quick release clamps
Functional principle	Exploitation of the centrifugal forces for washing and rinsing under water	
Foreign body separation	Separation of contaminations such as label fibres and dirt	
Exchange wear parts	Removable paddles on the rotor and easily exchangeable screen	
Rinsing with hollow shaft	Yes, as an option	no
Standard material	Housing stainless steel; rotor mild steel	Housing galvanized, rotor standard steel
Bearings	Flange bearing	Pillow block bearing

Technical data:

Model	FA 3000	FA 60/300
Conveying length: (mm)	3000	3000
Screw diameter: (mm)	500	600
Rotor speed (rpm)	1000	1000
Screen perforation standard: (mm)	2,5	2,5
Screen perforation maximum: (mm)	3	3
Drive standard: (kW)	18,5	30
Drives: (kW)	15-22	30-45
Weight: (kg)	1300	3400
Throughput approx.:(t/h)*		
HDPE	3,5	6
LDPE	2	3
PET	3,5	6

* Specifications are not binding since the performance may vary according to the material and the feeding size.

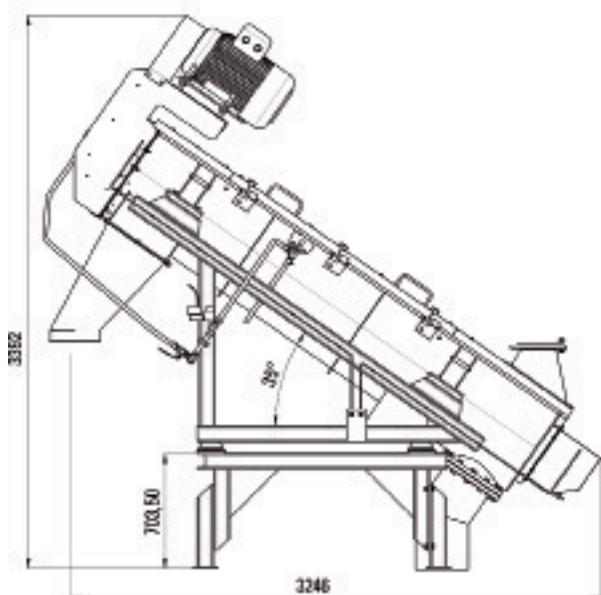


Fig. 2: Friction Washer model series FA 3000

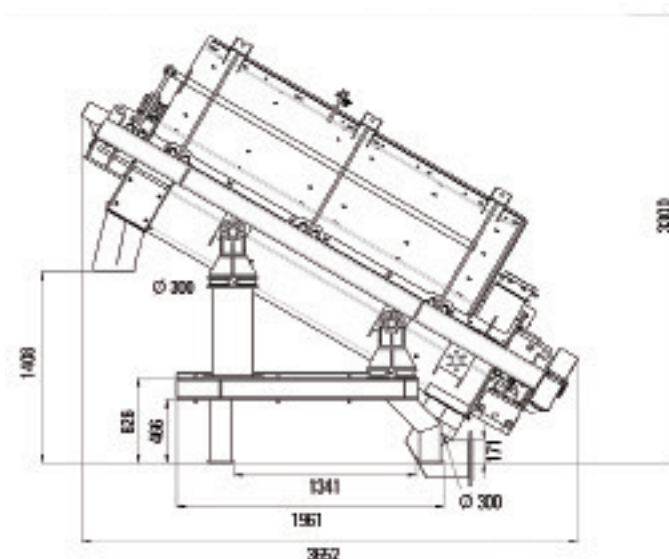


Fig. 3: Friction Washer model series FA 60/300

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Specifications are not binding and subject to change without notice. 10 / 2022