

## Mechanical Dryer / Centrifugal Washer

This unit can be used as a dryer or as an intensive washer. The mechanical dryers operate as a centrifuge for film, regrind and mixed plastics. The wet fractions and the fines are mechanically dried in this centrifuged dryer and at the same time the contaminations are removed by the high impact energy and then will be evacuated.

As an intensive washer, this unit uses a high volume of water to remove contaminates such as paper labels (pulp) from the fraction. For the washing of the flakes, there comprises a housing in which a special high-speed agitator rotates, a polygon shaped screen basket made from stainless steel, double outboard bearings, mechanical cleaning device for the screen surface pneumatically operated with additional rinsing device. Models T 508-T 2015 (Rotor and housing is in mild steel, housing inside is special protected by 2K paint). Rotor wings at the ends are fitted with bolted wear plates. The feedstock that has contaminates or a high percentage of paper, an automatic mechanical cleaning scraper is used on the exterior surface of the screen drum.

### Special features:

- Considerably higher drying efficiency due to an optimized paddle-shape and position.
- Up to 50% higher drying performance with films compared to former rotor generations.
- Better access; even the preceding dryers already were equipped with hingeable housing covers; the covers of the new generation 1016 and 2016 can even be hinged open on tow sides. A total removal of the housing cover with the help of a fork truck or a crane.
- Better anti-wear protection for the screens.  
As an option, annealed screens are now available that have a considerably higher service time compared to standard screens. In addition, there are optionally screens having not only a multi-part circumference but also a multi-part length. So the screen areas that undergo the highest strain can be exchanged individually or replaced by blank panels.
- Better anti-wear protection for paddles. Our standard paddles are made of an wear-proof material. For particularly abrasive materials there are paddles with a welded-on anti-wear protection.
- The standard version of our housings (starting with size T 1015) is galvanized, no corrosion problems.
- For materials with bad flowing properties there are dryers with forced feeding via screw bunkers.



Fig. 1: T 2016



Fig. 2: HV ST 150/150

### Step Dryer of the HV ST 150/150 Series

The vertical step dryer consists of a multi-step rotor dewatering the material with the help of a screen basket. The granulate / material water mixture is introduced into the machine from the bottom and is transported upwards due to conveying paddles. From the bottom to the top the diameter of the rotor is steadily increasing in the single steps. In the lower area (where existing water can easily be evacuated) there are only slight circumferential speed differences; in the upper step, drying is executed with maximum circumferential speed. The step dryer is ideal for drying ground material or granulate from all thermoplastics such as polycarbonate, polyethylene, polyamide, polypropylene, polystyrene. The machine is especially appropriate for drying brittle plastics without producing the slightest material loss caused by fines. The step dryer yields residual humidities ranging from 0.4 – 0.006 weight %. The machine is also available in a gas-proof execution to be apt for drying in an inert atmosphere.



Agricultural film

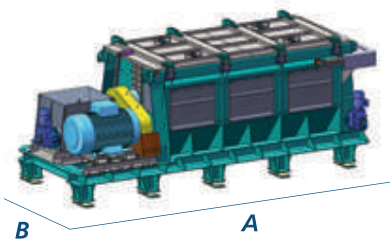
PET bottles

battery casings

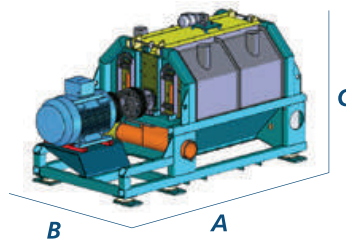
HDPR material

### Technical data:

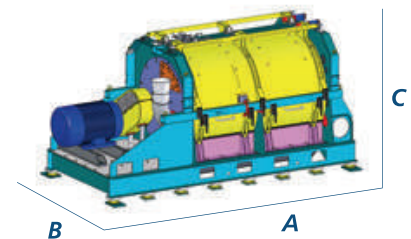
Model	T 508	T 800	T 1015	T 1016	T 2015	T 2016	T 2015 S	HV ST 150/150
Screen basket diameter	500 mm	800 mm	900 mm	900 mm	1200 mm	1200 mm	1200 mm	1500 mm
Working length	1200 mm	1800 mm	1450 mm	1450 mm	2300 mm	2300 mm	3600 mm	1600 mm
<b>Dimensions</b>								
Length (A)	2300 mm	2700 mm	2600 mm	3000 mm	3600 mm	4400 mm	6350 mm	3200 mm
Width (B)	1500 mm	1800 mm	2400 mm	1500 mm	2600 mm	2000 mm	2350 mm	2240 mm
Height (C)	1500 mm	2200 mm	2200 mm	1600 mm	2300 mm	2200 mm	2200 mm	2450 mm
Height with open cover	2400 mm	3100 mm	3700 mm	—	4100 mm	3000 mm	4200 mm	—
Screen perforation (standard)	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm
<b>Through up to (t/h)</b>								
Rigid plastics	0,8	2,0	2,5	2,5	4,0	4,0	5,0	4,5
Films	0,4	0,8	1,0	1,0	1,8	1,8	2,5	—



T 2015



T 1016



T 2016

### Our Product Range

#### Size Reduction

- › Shredder
- › Granulators
- › Pulverizing Systems

#### Washing / Separation Systems & Components

- › Pre-washing Units
- › Friction Washers
- › Separation Tanks and Hydrocyclones
- › Mechanical and Thermal Drying
- › Water Processing

#### Agglomeration

- › Plastcompactors

#### Service

- › Parts and Overhauls
- › Inspections and Trouble Shooting
- › Upgrades and Performance Service

HERBOLD Meckesheim GmbH

Industriestr. 33 • 74909 Meckesheim • Fon: + 49 (0) 6226 / 932-0 • Mail: HERBOLD@HERBOLD.com • Web: www.HERBOLD.com

Specifications are not binding and subject to change without notice. 10 / 2019