

HERBOLD



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, re-grind 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 evacuated.

As an intensive washer, this unit uses a high volume of water to remove contaminants such as paper labels (pulp) from the fraction. For the washing of the flakes, the unit 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.

For feedstock that has contaminants or a high percentage of paper, an automatic mechanical cleaning scraper is used on the exterior surface of the screen drum.

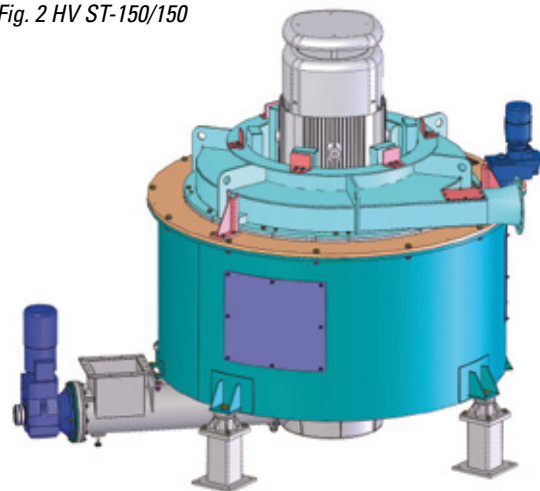
Advantages:

- Significantly **higher drying efficiency** due to optimized paddle shape and position
- Up to 50 % **higher drying performance** when processing film compared to former rotor generations.
- **Better accessibility:** The previous dryers already had hingeable covers; the new generation 1016 and 2016 even bilaterally hingeable covers. No lifting of the housing cover necessary with forklift or crane.
- **Improved wear protection screens:** We have as an option hardened screens which have compared to standard screens a considerably longer lifetime.
- Moreover, as an option, screens are available that are not only multipart at the circumference but also at the length. One can exchange the most worn screen parts individually or replace them by non-perforated sheet parts.
- Increased **wear protection paddles.** The paddles are as standard manufactured from wear resistant material; for especially abrasive materials there are paddles with welded wear protection.
- Our housings (starting from size T 1015) are as **standard hot-dip galvanized**, no corrosion problems.
- For materials with bad flow characteristics we have **dryers with forced feeding** via screw buffer.
- The new dryer generation T 1016 MA and T 2016 MA is available with an automated mechanical cleaning device and lateral dirt discharge screw.



Fig. 1 T 2016

Fig. 2 HV ST-150/150

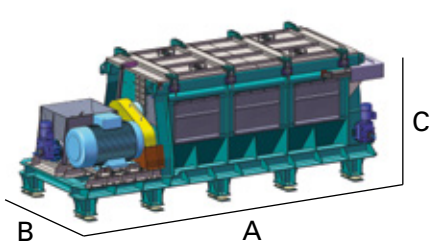


Step Dryer of the Series HV ST-150/150

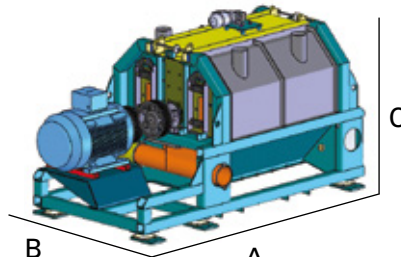
The vertical step dryer consists of a multiple rotor de-watering regrid with the help of a screen basket. The granules- / regrid-water-mixture enters the machine from the bottom and is conveyed upwards by transport paddles. From the bottom up the diameter of the rotor increases in the single steps. In the lower area (where free water is still easy to evacuate) low circumferential speeds appear; in the upper step, drying is done at maximum circumferential speed. The step dryer is ideal for drying all thermoplastic regrid or granules such as polycarbonate, polyethylene, polyamide, polypropylene and polystyrene. The machine is particularly appropriate for drying brittle plastics with the least material loss caused by fines. The step dryer yields a residual humidity in the range between 0.4 and 0.06 % weight. The machine can also be manufactured gas-tight for drying in an inert atmosphere.



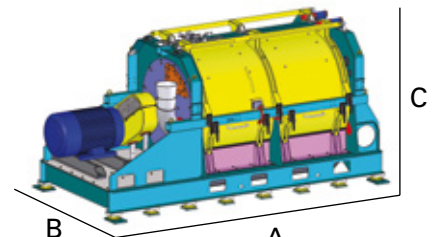
Technical Data:								
Model	T 508	T 800	T 1015	T 1016	T 2015	T 2016	T 2015 S	HV ST 150/150
Diameter screen drum	500 mm	800 mm	900 mm	900 mm	1200 mm	1200 mm	1200 mm	1500 mm
Working length	1200 mm	1800 mm	1450 mm	1450 mm	2300 mm	2300 mm	3600 mm	1600 mm
Drive	15-30 kW	30-37 kW	30-90 kW	30-90 kW	55-132 kW	55-132 kW	160 kW	55 kW
Dimensions:								
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 opened cover	2400 mm	3100 mm	3700 mm	—	4100 mm	3000 mm	4200 mm	—
Screen hole size (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
Throughput up to (t/h)								
Rigid plastics	0,8	2,0	2,5	2,5	4,0	4,0	5,0	4,5
Film	0,4	0,8	1,0	1,0	1,8	1,8	2,5	—



T 2015 S



T 1016



T 2016



Our Product Range

- Guillotines
- Shredders
- Hammer mills
- Granulators
- Pulverizing systems
- Washing systems & components
- Plastcompactors/agglomerators

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