

HERBOLD Central granulator for the reduction of sprues and waste from containers



Central granulator for the reduction of sprues

Recycling on-line directly beside the machine is not always possible or practicable. The direct mixing of ground material with the raw material is not always possible, neither is it always possible to reintroduce the ground material immediately without an intermediate processing step (separation of fine particles, for example).

The following solution, implementing a central granulator achieves almost the same effect of saving staff as using several beside-the-press

grinders at the automatic injection moulding machine. This has already been put into practice at the works of a well known manufacturer of electric control devices.

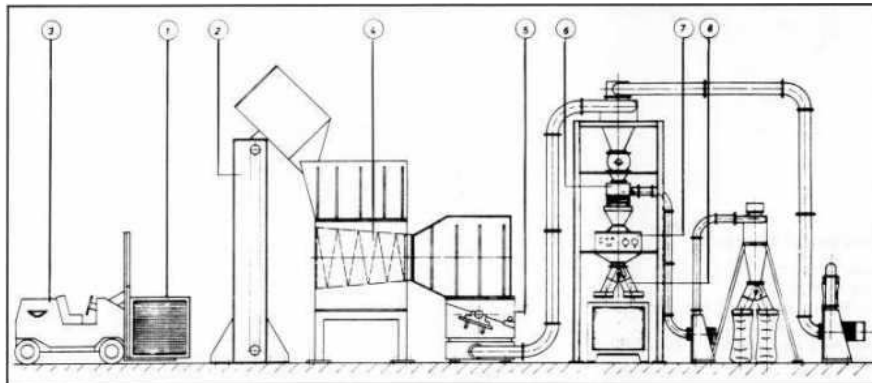
The waste (refuse and sprues) has to be collected in containers (1). A lifting-tipping device (2) takes the container from the fork-lift (3) and discharges it into the hopper of an over-sized screw shredder (4). Feeding systems of this type are used in a smaller scale as feeding screws of side mills. In this case, the shredder pre-crushes the sprues and conveys them into the grinding chamber of the granulator. The screw has a diameter of 800 mm and the feed hopper above the screw has an inside opening of 1.200 x 1.500 mm.

The shredder feeds the material to be ground into a subsequent granulator (5). The control of the shredder is dependent on the current power consumption of the granulator motor which enables continuous feeding without over-loading. The load of a single container is being processed without any staff.

After grinding the material enters an air sifter (6) for the separation of fine particles, followed by an electronic metal separator (7) before being discharged into a filling device that bags or containers can optionally be filled with (8).

The granulator is fitted with a special rotor and a reduced speed drive unit in order to decrease the proportion of dust in the material, particularly when processing materials containing additives and when precision pieces are being produced.

The cleaning time after a material or colour change is very short, because all parts of the plant are easily accessible and easy to open.



- (1) Container
- (2) Lifting-tipping device
- (3) Fork-lift truck
- (4) Screw shredder
- (5) Granulator
- (6) Dust separator
- (7) Metal separator
- (8) Twin filling nozzle

Our product range

- Granulators
- Pulverizing Systems
- Shredders
- Hammer Mills
- HOG Shredders
- Guillotines
- Washing Systems
- Plastcompactors

Herbold Meckesheim GmbH

Industriestr. 33
D-74909 Meckesheim
Postfach 1218
D-74908 Meckesheim
Tel.: + 49 (0) 6226/932-0
Fax: + 49 (0) 6226/932-495
E-Mail: Herbold@Herbold.com
Internet: www.Herbold.com

Our US-Subsidiary:

Herbold Meckesheim USA
Resource Recycling Systems Inc.
333 George Washington Highway,
USA-Smithfield,
Rhode Island 02917
Phone: + 1 401-232-3354
Fax: + 1 401-232-5425
info@HerboldUSA.net
www.HerboldUSA.net