

## The HERBOLD Granulator of the HB Series: Combined Version of Shredder AND Granulator

The advantages of for example a single-shaft shredder are well known: it is possible to fill a feed hopper which is then gradually emptied by means of a hydraulically operated ram without the assistance of operators: due to its special design, the rotor only "nibbles" at the material that is fed via the hydraulic ram. Until now it has not been possible to obtain small granule sizes with these conventional shredders: often a 15 or 20 mm-screen has been the lower limit, making intermediate conveying and a secondary granulator necessary in order to achieve smaller granule sizes ranging from 4 to 8 mm and a satisfactory throughput.

Now it is possible in one single size-reduction step with the **HERBOLD granulator** of the HB series. The design of the **HERBOLD HB granulator** is a combination of a feed hopper and a hydraulic ram with a granulator. Due to the special design of the grinding chamber and the high cutting frequency, it is now possible to transform loose bales, cutt open film rolls, mingled packs of sprue spiders, but also extremely large and thick-walled purgings into the finished product in one single step.

Also bulk hollow bodies, e.g. whole IBC containers and rainwater collecting basins can be processed with this machine in a particularly economic way. An intermittent feeding of larg quantities of material (e.g. a great many of bottle crates) is therefore possible without the necessity of dosed feeding or the risk of jammed material in the grinding chamber. Once the material has been fed and the hopper filled, no operators will any longer be necessary, thus enabling a semi-automatic operation.

The main advantage of this new development is its space-saving design since only one size-reduction step is necessary. In addition, only one size-reduction step also makes cleaning with colour and material changes much easier: there is no intermediate conveying by means of a belt conveyor, where cleaning is extremely difficult. Only one machine will need knife change and maintenance, thus reducing maintenance times and costs.

Compared to a two-step solution and a granulator fed by gravity, it has also a considerably favourable effect on the energy balance. The HERBOLD granulators of the SB series, too, show these advantages, wellknown characteristics found in all granulators of the HERBOLD product range:

- the placement of the rotor bearings outside prevents fines from penetrating into the bearings and grease into the product
- double-cross cutting action
- fracture-proof welded construction

According to the application, different rotor types are available for the **HB series**. If requested, this granulator can also be delivered as a turnkey package solution with the necessary ancillary equipment, e.g. suction unit with big bag filling station or feeding by automatic lifting/tiltingdevice.

Typical **input material** for the granulator of the **HB series**:



*Fig. 2: Cutt open film rolls*



*Fig. 3: Film loose*



PET bottle bales



Agricultural film



Carpet waste



Pipes and profiles

## Advantages and Features

- Fully automatic operation
- Large infeed opening
- Large feed hopper for feeding loose bales or full boxes of waste.
- One-step size reduction to the desired final size
- Finished product ideal for further processing
- Easy access to the cutting chamber for cleaning works

## Applications

### Plastics

- Bulk hollow bodies
- Purgings
- Pipes and profiles
- Films
- Post-consumer bottles
- Fibres
- Carpet waste

### Wood

### Recycling



Technical Data	
<b>Model</b>	<b>SML 60/100 HB</b>
<b>Rotor diameter mm inches</b>	600
<b>Working width mm inches</b>	1000
<b>Drive kW</b>	45 - 110
<b>Throughput rate t/h*</b>	0,5 - 3,0
<b>Weight kg</b>	4500

\* Capacity depending on screen size, material and rotor type

## 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** • Fon: + 49 6226 932-0 • Mail: herbold@herbold.com • Web: www.herbold.com

**Herbold Meckesheim USA** • Fon: + 1 401 597 5500 • +1 888 612 RRSI (7774) • Mail: info@herboldusa.com • Web: www.herboldusa.com

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