The SML series provides the typical features of the Herbold granulators:

- Easy access to the grinding chamber
  - Centrally hinged two-piece housing allows an optimal access to the grinding chamber, thus reducing time for cleaning and maintenance to a minimum.
- Cutting geometry designed as double cross cutting action
  - The rotor and stator knives are mounted in opposing angles to ensure a steady cutting gap across the full length of the knives, thus not only reducing the noise level but also the power input and the risk of blocking and improving the quality of the ground material by reducing the fine fraction.
- Pre-adjustment of the knives outside the granulator in a jig
  - The rotor and stator knives can be adjusted outside the granulator in a jig. The knives can be prepared for a knife change with the granulator still in operation, thus reducing downtimes to a minimum.
- Outboard rotor bearings
  - Rotor bearings in pillow block housings are separated from the grinding chamber, so no dust can penetrate the bearings and no grease can get into the grinding chamber.
- Constant cutting circle
  - Due to the adjustable bed and rotor knives, the cutting circle and consequently also the gap between the rotor knives remains constant. Therefore, fewer fines are produced, the material is not unnecessarily manipulated and in addition, thermal stress for the material is avoided.

Alternatives to the granulators of the SML series:

- The SML series of granulators is also available with a forced feeding device, i.e. the SB series.
- Additionally, there is the SML-16 series, characterized by an extremely low construction size and a working width of 650-1150 mm.
- The compact C series has especially been designed for its use downstream of injection and blow molding machines.
- Due to its low-speed and low-noise operation, the SML-LS series produces minimal dust quantities and less noise.
- Ask for our brochure on the granulators of the SMS series for heavy startup lumps and other rather extreme size-reduction applications.

The SML series provides the typical features of the Herbold granulators.

Performance data of the SML series

<table>
<thead>
<tr>
<th>Type</th>
<th>Inlet [mm]</th>
<th>Rotor ø [mm]</th>
<th>Drive [kW]</th>
<th>Weight [kg]</th>
<th>Capacity [kg/h]*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SML 22/30</td>
<td>500 x 370</td>
<td>220</td>
<td>1</td>
<td>1</td>
<td>1-30</td>
</tr>
<tr>
<td>SML 35/45</td>
<td>500 x 490</td>
<td>350</td>
<td>15</td>
<td>3.5</td>
<td>250-650</td>
</tr>
<tr>
<td>SML 45/70</td>
<td>600 x 570</td>
<td>450</td>
<td>15</td>
<td>4.5</td>
<td>300-450</td>
</tr>
<tr>
<td>SML 45/101</td>
<td>720 x 980</td>
<td>450</td>
<td>22</td>
<td>5</td>
<td>500-1500</td>
</tr>
<tr>
<td>SML 30/50</td>
<td>900 x 470</td>
<td>300</td>
<td>15</td>
<td>3.5</td>
<td>250-650</td>
</tr>
<tr>
<td>SML 30/80</td>
<td>900 x 680</td>
<td>300</td>
<td>15</td>
<td>3.5</td>
<td>250-650</td>
</tr>
<tr>
<td>SML 45/60</td>
<td>1100 x 580</td>
<td>450</td>
<td>22</td>
<td>5</td>
<td>300-1000</td>
</tr>
<tr>
<td>SML 45/100</td>
<td>1100 x 980</td>
<td>450</td>
<td>22</td>
<td>5</td>
<td>500-1500</td>
</tr>
<tr>
<td>SML 60/100</td>
<td>1300 x 980</td>
<td>600</td>
<td>22</td>
<td>7.5</td>
<td>700-2000</td>
</tr>
</tbody>
</table>

*Capacity depending on screen sizes and rotor types
Robust and multifunctional size-reduction system for standard applications

The SML series is ideal for every kind of light, bulk or voluminous plastic waste with thin or medium wall thicknesses, e.g. film, jerry cans, barrels, bumpers thin-walled pipes, profiles, injection moulding scrap, skeleton waste, thermoforming parts, foams, etc.

### Design

- The Herbold granulators of the SML series are robust, low-noise machines for medium duty applications. Compact construction, easy to clean. Optimal design for frequent color and material changes. A well-priced and multifunctional size-reduction system for standard applications. Above the screen, the granulator housing is equipped with exchangeable screwed-on anti-wear plates. An integrated run-down device enables access only once the rotor has come to a complete standstill.

For the operation of a plant, sound insulation is becoming more and more important. According to the requirements, different sound insulation measures are available: sound insulation boxes in two parts, sound insulation cabins, sound insulation tunnels if belt conveyors are used, sound insulations for pneumatic suction units. The customer will define the type of rotors and Herbold will provide an appropriate solution in order to reduce the noise level.

### Ancillary equipment and special models

- Overload control for load-dependent feeding
- Pneumatic and mechanic conveying systems for feeding the machine or evacuating the ground material
- Pre-cutter for reducing bulk feeding materials and ensuring an even feeding of the machine
- Air separation and screening machines for separating dust and specifically light fractions in the ground material
- Conveyor belts and roller feeding devices for film sheets, edge trims and skeletal waste
- Different types of rotors allow an optimal approach to the application.

### Machine Types

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>SML 10/50</td>
<td>1.200</td>
<td>1.710</td>
<td>1.945</td>
<td>2.400</td>
<td>2.125</td>
<td>1.470</td>
</tr>
<tr>
<td>SML 20/80</td>
<td>1.500</td>
<td>1.710</td>
<td>1.945</td>
<td>2.400</td>
<td>2.125</td>
<td>1.470</td>
</tr>
<tr>
<td>SML 45/60</td>
<td>1.500</td>
<td>2.170</td>
<td>3.300</td>
<td>3.525</td>
<td>3.650</td>
<td>2.170</td>
</tr>
<tr>
<td>SML 45/100</td>
<td>1.900</td>
<td>2.170</td>
<td>3.300</td>
<td>3.525</td>
<td>3.650</td>
<td>2.170</td>
</tr>
<tr>
<td>SML 60/100</td>
<td>2.020</td>
<td>2.195</td>
<td>3.480</td>
<td>3.810</td>
<td>3.850</td>
<td>2.360</td>
</tr>
<tr>
<td>SML 60/145</td>
<td>2.500</td>
<td>2.300</td>
<td>3.480</td>
<td>4.000</td>
<td>4.050</td>
<td>2.570</td>
</tr>
</tbody>
</table>

### Combination between washing and size-reduction

- Due to the outboard rotor bearing, a sealed housing and a modified discharge trough, the SML granulator can be used as wet granulator. The contaminated plastic material is size-reduced in one single step and by injecting water at the same time also washed. The washing effect is optimal and simple.

### Custom-made and solution-oriented

- For special materials, feeding hoppers are available the design of which renders a preliminary cutting or size-reduction superfluous, such as special hoppers for the feeding of plates. Hoppers with additional lateral feeding allowing a treatment of pipes, profiles as well as bumpers and other bulk parts on relatively small granulators, which burdens for pneumatically fed machines, e.g. for waste disposal on tape extrusion systems.

### Around the granulator

- Knife pressure strip
- Rotor knives
- Exchangeable wear part

### Exchangeable armor-plating of the housing

- Easy screen removal via the rotor
- 100% granulator is wet installation with metal separator and discharge valve

- Optimal accessibility from all sides
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<tr>
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<th>Weight [kg]</th>
<th>Capacity [kg/h]*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SML 22/30</td>
<td>500 x 490</td>
<td>220</td>
<td>1</td>
<td>1 – 30</td>
<td>2.500</td>
</tr>
<tr>
<td>SML 30/50</td>
<td>500 x 780</td>
<td>300</td>
<td>15</td>
<td>25 – 37</td>
<td>3.200</td>
</tr>
<tr>
<td>SML 45/60</td>
<td>600 x 580</td>
<td>450</td>
<td>22</td>
<td>30 – 55</td>
<td>3.500</td>
</tr>
<tr>
<td>SML 45/100</td>
<td>600 x 980</td>
<td>450</td>
<td>22</td>
<td>50 – 75</td>
<td>3.800</td>
</tr>
<tr>
<td>SML 60/100</td>
<td>720 x 980</td>
<td>600</td>
<td>22</td>
<td>60 – 90</td>
<td>4.600</td>
</tr>
<tr>
<td>SML 60/145</td>
<td>720 x 1488</td>
<td>600</td>
<td>37</td>
<td>72 – 132</td>
<td>6.500</td>
</tr>
</tbody>
</table>

*Capacity depending on screen sizes and rotor types

Alternatives to the granulators of the SML series:

- The SML series of granulators is also available with a forced feeding device, i.e. the SB series, or with feeding hopper and hydraulic ram, i.e. the HR series.
- Additionally, there is the SML-16 series, characterized by an extremely low construction size and a working width of 650-1950 mm.
- The compact C series has especially been designed for its use downstream of injection and blow molding machines.
- Due to its low-speed and low-noise operation, the SML-L series produces minimal dust quantities and less noise.
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- Our product range
  Guillotines
  Sheisters
  Hammer mills
  Granulators
  Pulverizing systems
  Washing systems & components
  Plastcompactors/agglomerators

Granulators of the SML series are available with rotor diameters from 220 to 600 millimeters and working widths from 5.5 to 160 kW. The C models of this series are available with a space-saving, completely integrated insulation protection.

For more information, please see our videos on our website www.herbold.com