

SML Series

CUSTOMIZED AND WELL-PRICED

- Compact and robust
- Excellent price/performance ratio
- Easy to clean
- Low noise emission
- Simple to handle





Granulator SML 60/100



Granulator SML 60/145 with roller feeding device for film



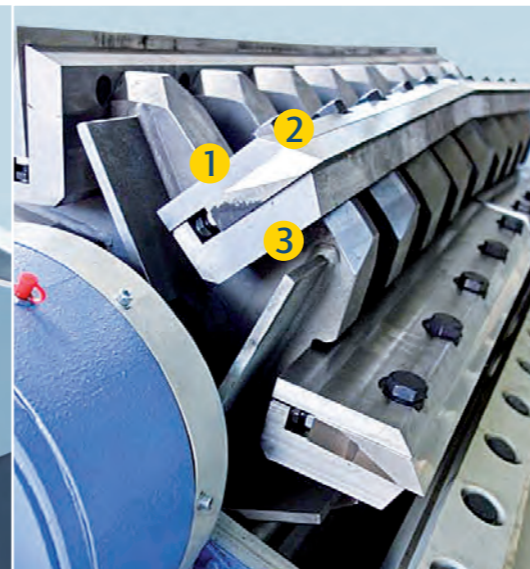
Granulator SML 45/100 with movable sound insulation box in two parts



Knife adjustment jig

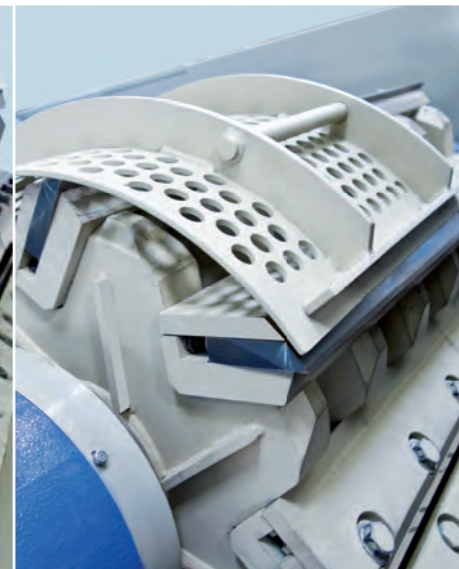


Exchangeable armor-plating of the housing



Rotor of the F series with exchangeable wear protection

- 1 Knife pressure strip
- 2 Rotor knife
- 3 Exchangeable wear part



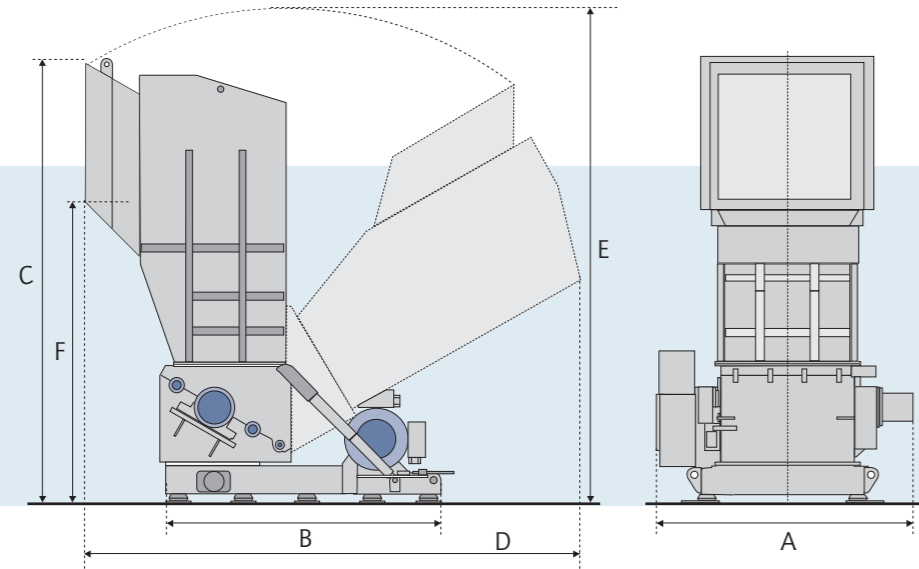
Easy screen removal via the rotor



SML granulator in wet execution with metal separator and discharge valve



Optimal accessibility from all sides



Machine Type	A	B	C	D	E	F
SML 30/50	1.200	1.710	1.945	2.400	2.125	1.470
SML 30/80	1.500	1.710	1.945	2.400	2.125	1.470
SML 45/60	1.500	2.170	3.300	3.525	3.650	2.170
SML 45/100	1.900	2.170	3.300	3.525	3.650	2.170
SML 60/100	2.020	2.195	3.480	3.810	3.850	2.360
SML 60/145	2.500	2.300	3.480	4.000	4.050	2.570

Indications in [mm]

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 molding scrap, skeleton waste, thermoforming parts, foams, etc.



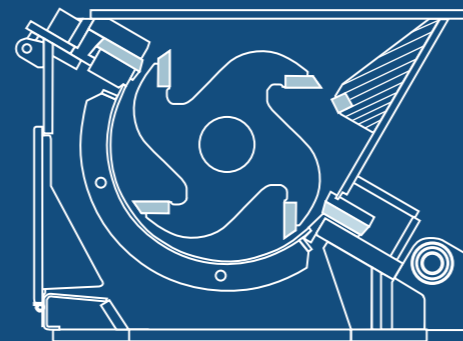
Design

- 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.

- If the granulator is open, the screen is not tilted down but upwards, thus ensuring a much better access to the grinding chamber due to the fact that not only the feeding hopper but also the upper part of the granulator can be tilted. In addition, contamination caused by ejected materials is avoided. The residual material is automatically collected in the suction trough and evacuated by the blower.

Combination between washing and size-reduction

- Due to the outboard rotor bearings, a sealed housing and a modified discharge trough, the SML granulator can also 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.



Knife design

Custom-made and solution-oriented

- Hopper varieties and accessory: 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; or mesh baskets for pneumatically fed machines, e.g. for waste disposal on tape extrusion systems.

- 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 cabins, sound insulation tunnels if belt conveyors are used, sound insulations for pneumatic suction units. The customer will define the application and Herbold will provide an appropriate solution in order to reduce the noise level.

Ancillary equipment and special models

For the integration of Herbold granulators into automated operating processes and production processes, numerous ancillary equipment and special models are available.

- Electronic metal separators and magnet systems for separating metallic foreign bodies
- Air separators and screening machines for separating dust and specifically light fractions in the ground material

- Overload control for load-dependent feeding
- Pneumatic and mechanic conveying systems for feeding the machine or evacuating the ground material
- Pre-crusher for reducing bulk feeding materials and ensuring an even feeding of the machine
- Feeding hoppers and material silos for buffering the material upstream or downstream of the granulator

- 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.

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 knife, 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 fines 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 remain constant. Therefore, **fewer fines are produced**, the material is not unnecessarily manipulated and so additional **thermal stress for the material is avoided**.

Optimal access for cleaning and maintenance.



Our product range

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

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 **HB series**.
- Additionally, there is the **SML-16 series**, characterized by an extremely low construction size and a working width of 650-1350 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 start-up lumps and other rather extreme size-reduction applications.



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

Performance data of the SML series

TYPE	Inlet [mm]	Rotor ø [mm]	Drive [kW]	Weight [kg]	Capacity [kg/h]*
SML 22/30	Please ask for the brochure of the C series.				
SML 35/45					
SML 45/70					
SML 45/101					
SML 30/50	500 x 490	300	11 - 30	2.500	100 - 400
SML 30/80	500 x 780	300	15 - 37	3.200	250 - 650
SML 45/60	600 x 580	450	22 - 55	3.500	300 - 1.000
SML 45/100	600 x 980	450	22 - 75	3.800	500 - 1.500
SML 60/100	720 x 980	600	22 - 90	4.600	700 - 2.000
SML 60/145	720 x 1488	600	37 - 132	6.500	800 - 2.500

* Capacity depending on screen sizes and rotor types

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.

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