

GS

High Performance Granulator



ZERMA

The Home of Size Reduction



ZERMA

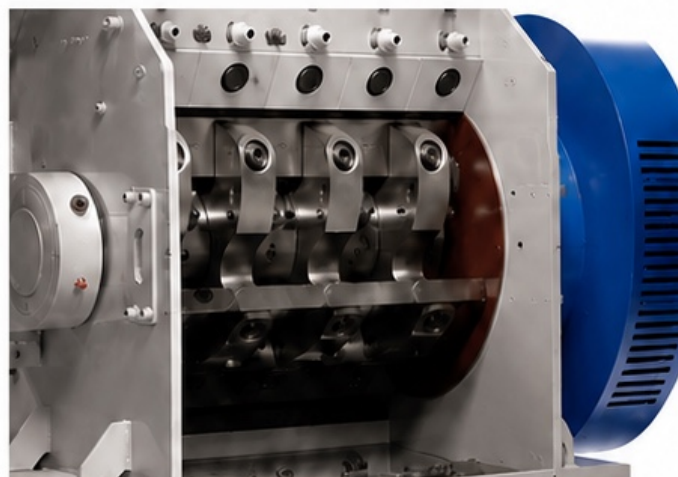
GS 400/600 and GS 400/1000 Series

The high-performance granulators of the GS series are based on a modern, tried-and-tested machine concept that leaves nothing to be desired. With them, virtually every application in the field of plastics size reduction can be solved.

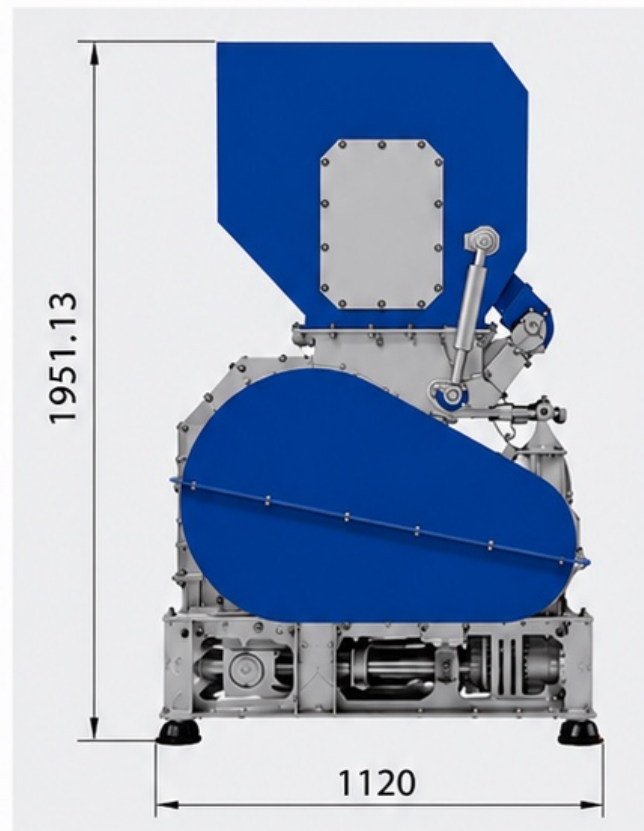
The housings, manufactured in a robust steel construction, are universally applicable and are designed for the most demanding and heaviest applications. Depending on the specific application, the total cutting width is available with rotor variants ranging from very open, infeed-aggressive 3-knife rotors, up to semi-closed and extremely massive 5-knife rotors.

All machines of the GS series always deliver a high-quality granulate – whether for sprue and runner, castings, profiles, sheets, films or pipes. They are cost-effective, highly reliable, easy to clean and have a long service life.

ZERMA also offers a wide range of options such as suction systems, conveyor belts, metal separators, dedusting systems, etc.



Type GS	400/600
Rotor knives (pcs.)	3 x 2 or 5 x 2
Stator knives (pcs.)	2
Rotor width (mm)	600
Rotor diameter (mm)	400
Feed opening (housing) (mm x mm)	590 x 400
Drive power (kW)	18.5 - 30
Dimensions:	
Length A (mm)	1120
Length B (mm)	1120
Width C (mm)	1210
Width D (mm)	816
Height E (mm)	1951.13





Different applications require different rotor designs. However, they all share one thing – the proven V-cutting technology from **ZERMA**. The advantages of this cutting technology are: self-feeding material intake, precise cutting at the optimal point along the entire knife length. This reduces the energy demand of the machine significantly.

The V-cutting technology is therefore a further consistent step: the knife arrangement allows additional tolerances at the rotor center. This prevents damage through different material and side wall impacts.



3-KNIFE ROTOR

The generous spacing between the individual knife rows allows for a deep cutting geometry. In combination with the tangential inlet of the generously dimensioned cutting chamber, this results in a clean cut and reliably prevents bridging.

This rotor / housing combination is ideal for the size reduction of hollow bodies as well as for bulky and low-density materials.



5-KNIFE ROTOR

The small spacing between the knife rows ensures that the material is cut already easily inside the rotor. In combination with the so-called drop-down section, which deflects the infeed opening and moves the cutting point further up, bridging is also prevented for difficult materials.

These massive and extremely robust rotors are ideal for demanding applications.



BYPASS HOPPER

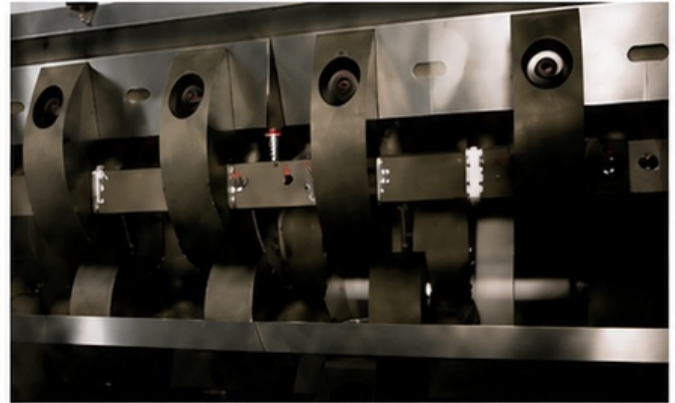
The machine is equipped as standard with a bypass hopper, which enables the machine to be additionally equipped with long profiles and pipes.

Thanks to the inclined arrangement, long material is guided optimally into the cutting chamber.

This hopper makes the machine even more flexible and versatile.

Advanced Cutting Geometry

The rotors are designed in accordance with the latest V-cutting technology. Compared to the conventional angled cut, this ensures that the cutting action is directed to the rotor center and utilizes the entire knife length. Wear, noise and dust formation as well as power consumption are significantly reduced. Differences in the material being processed and sidewall adhesions are thus avoided.



Easy Knife Adjustment

The adjustment of all knives is carried out outside the cutting chamber in a setting device designed for this purpose, which ensures a precise setting of the knives within the machine. All rotors are made of high-quality tool steel and can be resharpener several times.



Standard Steel Hopper Design

The machine is equipped with a sturdy steel hopper for reliable material feeding. The hopper can be opened manually for easy cleaning and maintenance. Its practical design ensures smooth material flow and supports efficient operation in a wide range of applications.



Robust Bearing Assembly

All rotors are mounted outside the machine in extremely sturdy steel bearing housings, which are completely separated from the grinding chamber and prevent contamination of the high-performance bearings. This ensures a long service life with minimal maintenance requirements.



High Operational Safety

All granulators comply with the EC Machinery Directive and are CE marked. Accident safety is ensured, for example, by limit switches on the inspection doors and hydraulically actuated return valves on the closing units.





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