

Rapid **RG** series

Slow-speed granulators




Rapid **RG1**
RG2
RG3
RG4
RG4 Twin



Slow speed **perfection**

The Rapid RG Series is specifically designed for beside-the-press recycling of hard and brittle materials. The ultra-slow rotor speed and screenless operation provides low noise level and very low dust level even with the most filled and brittle materials.

The Rapid RG Series can also be equipped with the patented Integrated Metal Detection technology (IMD). IMD virtually eliminates the risk of damage to the machine from metal fragments that may have entered the granulator undetected. Additionally, it minimizes the possibility of these small metal fragments passing through the machine to damage downstream equipment such as injection feeder screws or even moulding tools.



**Quality regrind –
for consistent production
processes**

Slow speed granulation

Converts filled and brittle material to high quality regrind.

Closed Loop Operation

High quality regrind can be fed back directly back to the production process. No labour cost, no cross contamination.

IMD

Integrated Metal Detection – Minimizes the risk that foreign metal parts destroy the granulator. As the machine stops for detected metal it also minimizes the risk for further problems down stream e.g. injection moulding screw and tool.

Easy cleaning and service

Easy and direct access to rotor and cutter house simplifies cleaning when changing colour and material. The optional sliding mechanism for disconnecting the rotor simplifies the handling and service of the machine.

No compromises

In Rapid we make no compromises, that's why we are the most trusted name in granulators.

Rapid RG series

Slow-speed granulation

Slow speed granulation

The slow speed concept is ideal for granulating glass fiber filled, brittle and/or thick walled sprues and components.



Easy cleaning:

Easy and direct access to rotor and cutter house simplifies cleaning when changing colour and material.



Turnable knives and scrapers

Knives are made from high alloy steel and are turnable which provides maximum lifetime.

Re sharpening/grinding is possible and prolongs lifetime even more.



Adjustable regrind evacuation

Suction pipe can be positioned in any direction, 360° around, always permitting the best position of the machine.



Double rotor cutter house

For bigger sprues and components or higher capacity the RG-4 TWIN version is an efficient solution.



Masher system

The masher pushes voluminous products and sprues to the cutting rotors to increase the efficiency.

Single or double masher depending on what is needed in the specific application.



Options

PLC-intelligent operation

- PLC provides a number of benefits
- Integrated **IMD** function
- Integrated **REV** function
- Records all stops/blockings during operation for evaluation and documentation
- Integrated hour counter for frequently planned service intervals
- Different programs for masher and cutter to tailor the operation for a specific application



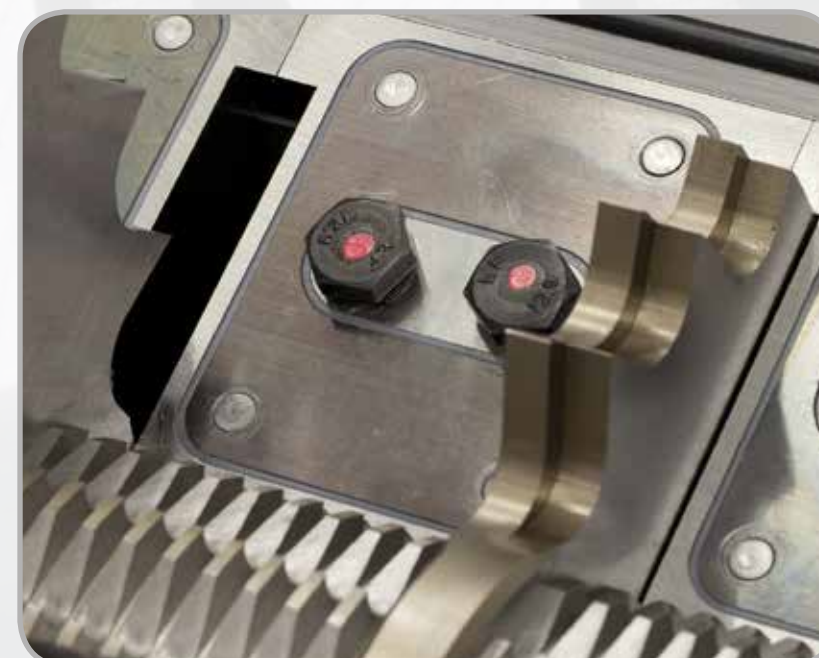
REV-function:

Reverses the rotor if the machine gets over loaded, for example with thick walled material (from 1.5 kW motor).



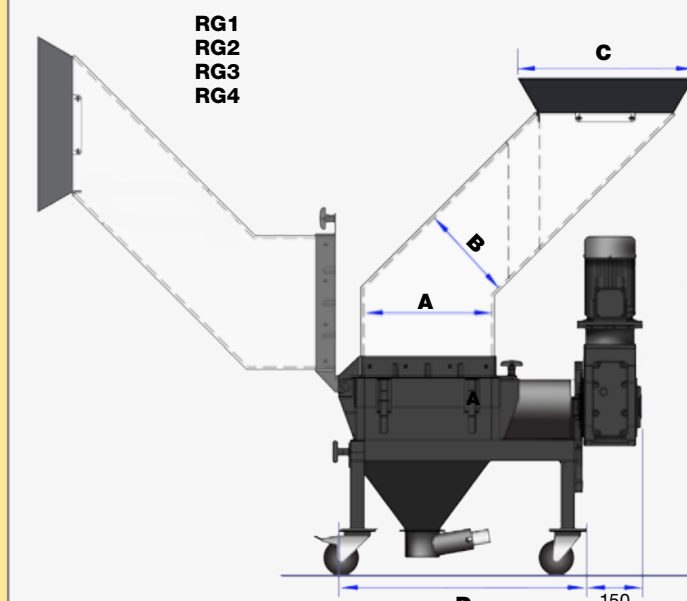
IMD – Integrated Metal Detection

Integrated safety against metal – The IMD stops the granulator when it gets activated by any metal and minimizes the risk of damaging the machine itself. As the machine stops the granulator it also minimizes the risk of metal to reach the injection moulding screw as well as the tool.

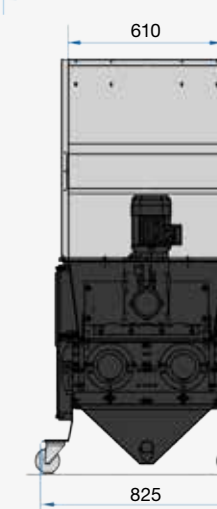
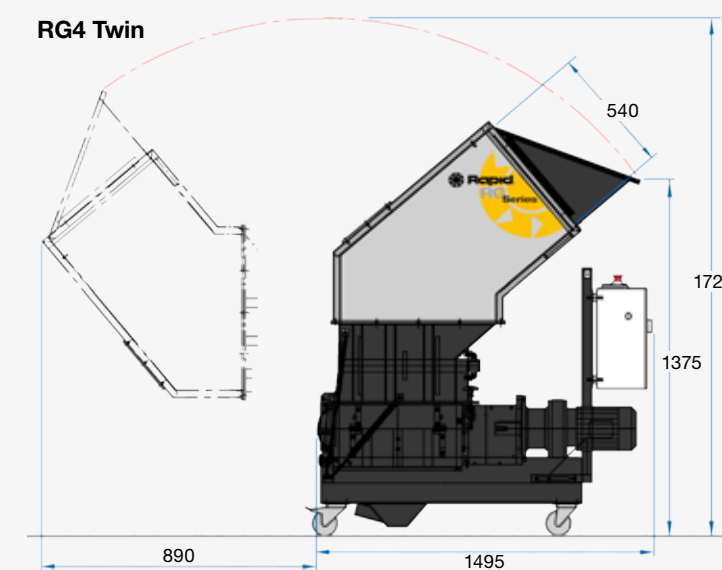


Specifications

Standard models	RG1	RG2	RG3	RG4	RG4 Twin
Cutter house width, (mm)	172x228	265x228	359x228	453x228	453x510
Rotor speed, (rpm.)	25				
Crusher blades	1	2	3	4	7
Rotor segments	2	3	4	5	9
Motor, (kW)	0,75	0,75	1,5	1,5	2x2,2
Hopper inlet, (mm)	170x220	255x220	270x220	370x220	540x610
Throughput capacity, (kg/h)	up to 5	up to 10	up to 20	up to 30	up to 50
Weight (kg)	240	280	340	390	670



Model	RG1	RG2	RG3	RG4
A	170	265	355	450
B	175	255	270	370
C	340	450	500	690
D	525	620	710	800
E	300	300	390	390
F	475	475	565	565
G	1335	1335	1425	1425



The Most Trusted Name In Granulators

Rapid is the world leader in granulation. We develop, manufacture and market individual granulators and completely integrated recycling solutions for the plastics industry.

With an extensive granulator range, from table-top units to giant machines, we can satisfy virtually all your granulation needs.

Our products are regarded as the most ruggedly built, most dependable and of the highest quality available on the market. And our excellent spare parts service helps to keep them in top condition.

We are dedicated to partnering with you. With over 70 years of experience, a global presence, and more than 100.000 units installed worldwide, we offer you our expertise, our people, and our resources.

Rapid strives to exceed your expectations in recycling plastic waste.



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