

Rapid Granulator – An Overview





WORLD LEADERS IN GRANULATION

Recycling plastic waste directly offers several advantages. These include cost and material savings, improved flow management, increased competitiveness and environment-friendly manufacturing.

This is where you can benefit from Rapid's expertise. Each model in our extensive range of granulators is matched to exacting requirements to give you optimal regrind quality, efficient recycling and a long operational life. Our continuous product development and dedicated customer support keep your plastic waste recycling at the cutting edge of granulation technology.

We call it granulistics!



THE FORMULA FOR SUCCESS – RAPID CORE FEATURES

■ **High quality regrind**

The consistently smooth and clean cutting action provides high quality regrind over time.

■ **Constant Cutting Circle, CCC**

The Rapid Constant Cutting Circle eliminates friction heat and minimizes dust and fines.

■ **Scissors cutting action**

The Rapid double scissors cut provide a clean, smooth and energy saving cutting of any plastic material, free from dust.

■ **Minimal energy consumption**

The configuration of the rotor blades and rotation speed combine to minimize energy consumption.

■ **Quick knife changing**

Rapid access to the cutterhouse, rotor design or preadjustable knives make knife changing quick and easy.

Rapid Granulator

Slow speed granulators – Rapid RG-Series

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 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 enter together with the recycled plastic material. 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.



Up to 50 kg/h

The POWER of Open-Hearted



Up to 500 kg/h

300- and 400-Series Rapid's Open-Hearted Engineering concept

Rapid's "open-hearted" engineering concept is built into each granulator model of the 300-, 400-, 500- and 600-Series.

The big benefit of being open-hearted is that it boosts performance by providing direct and easy access to the heart of the machine to achieve very rapid cleaning and maintenance times for fast production changeovers. Such extremely short pit stops maximize uptime and minimize labor costs. The clear access to core machine parts also allows "visibly clean" inspection and approval, preventing contamination at colour and material changes.



Up to 900 kg/h



150-Series

The Rapid 150 models provide the widest choice of size, capacity and options needed for customization. Numerous configurations are facilitated with optional hoppers, and various infeed and vacuum discharge systems. Both auger and docking models are now even lower to fit more easily under a press.

If you want a tough machine or an extremely tough one, no problem, we've got both – Rapid 150 DeltaTech and Rapid 150 PowerTech. And no matter how your injection moulding machines are configured, we have the right beside-the-press or under-the-press models for you.

Up to 70 kg/h

Model	Cutterhouse opening, mm	Rotor diam., mm	Standard motor, kW	Max. cap. kg/h
RG-Series				
RG Mini 1	114x134	N.A.	0,37	1
RG Mini 2	176x134	N.A.	0,37	2
RG 1	172x228	N.A.	0,75	5
RG 2	265x228	N.A.	0,75	10
RG 3	359x228	N.A.	1,5	20
RG 4	453x228	N.A.	1,5	30
RG 4 Twin	453x510	N.A.	2x2,2	50
150-Series				
150-07	80x70	150	0,37	7
150-21	210x150	150	2,2	40
150-35	350x150	150	2,2	60
150-42	420x150	150	2,2	70
200-Series				
200-24	240x270	200	4,0	75
200-36	360x270	200	5,5	100
200-48	480x270	200	5,5	150
200-60	600x270	200	5,5	200
300-Series				
300-30	300x260	260	5,5	200
300-45	450x260	260	7,5	300
300-60	600x260	260	7,5	500
400-Series				
400-45	450x350	350	15	450
400-60	600x350	350	22	600
400-90	900x350	350	22	750
400-120	1200x350	350	22	900
500-Series				
500-60	600x450	450	22	600
500-90	900x450	450	30	900
500-120	1200x450	450	37	1200
600-Series				
600-90	900x800	600	75	2500
600-120	1200x800	600	90	3000
600-150	1500x800	600	90	4000



Up to 1200 kg/h

500- and 600-Series Open-Hearted POWER

The Rapid 500- and 600-Series "open-hearted" granulators provides direct access to the heart of the machine, making the models extremely user-friendly and easy to clean and service and they offer unbeatable application flexibility.

Flexibility is expressed by the 500- and 600-Series being readily converted for applications covering the complete spectrum of injection moulding, blow moulding and extrusion moulding, with throughputs up to 4.000 kg/h.



Up to 4000 kg/h

Rapid 200-Series

The all new Rapid 200 Series of granulators is ideal for the direct recycling of plastic waste and rejects primarily from injection- and blow moulding processes.

With Rapid's full choice of configuration alternatives, including four different machine sizes with cutterhouse openings up to 600x270 mm, different rotor types and rotor speeds, discharge systems etc allow you to select the granulator best suited to your type of plastic waste, throughput volume, granule size and direct recycling requirements.

As standard, it comes with the Super-Tangential cutterhouse which is highly effective in terms of grip providing high output of for example bottles and containers.



Up to 200 kg/h

Rapid 80-Series



The heavy-duty Rapid 80 Series is designed for really tough applications and comprises Rapid's biggest granulators. They are primarily intended for high throughput, central or in-line granulation of diverse bulky waste that requires no precutting. Large hollow objects, big solid lumps, long pipe and profiles and thick packages of film pose no problems. The rotating knives are set at a V-angle to provide a powerful scissor-cut action for high-quality regrind.

Shredders – designed for plastics!



The Rapid GranuMATIC™ shredders have been exclusively developed for efficient recycling of all kinds of polymer materials. The line's unique technology is the result of Rapid's many years of experience of granulators and older types of shredders.

The models are optimized to produce clean plastics by truly cutting even the hardest materials smoothly into uniform pieces.

Solutions for dust control



Regardless of the performance efficiency of a granulator, there will always be a small amount of dust and fines, especially when knives begin to wear. On recycling of regrind, very small plastic particles may burn and degrade the quality of products.

To solve this problem, Rapid offers complete dust separating systems for all needs.

Rapid Modular Silencing System



The most effective way to reduce noise is to capture it at the source and to prevent it from spreading into the working environment. You can then reduce significantly more dB(A) in a very cost efficient way compared to e.g. noise absorbing panel in the ceiling.

The Rapid MSS (Modular Silencing System) is a concept that can be adapted to any noise generating source in the production plant. MSS can reduce as much as 10 – 20 dB(A).

The Most Trusted Name In Granulators

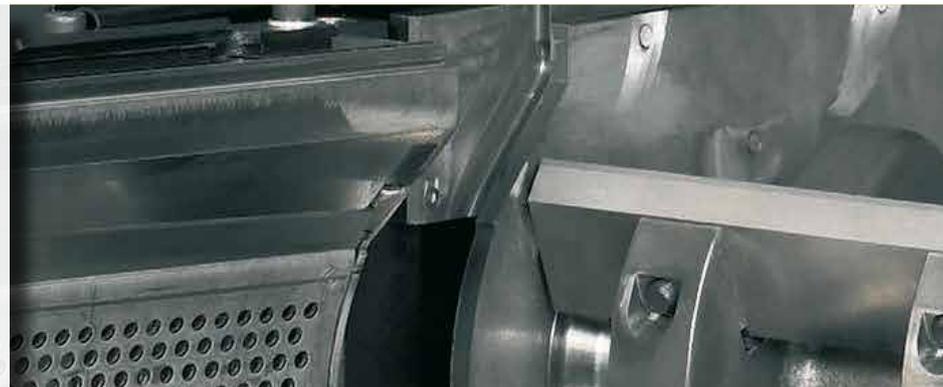
Rapid is the world leader in granulation. We develop, manufacture and market individual granulators and completely integrated recycling solutions for the plastics industry.

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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