Extremely short pit stops

Saving costs by simplifying your cleaning and service dramatically

Maximize uptime

Efficiency is about uptime, uptime is about simplicity.

"Visibly clean" inspection

Prevent cross-contamination when changing material or colour.

No compromises

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

Open-Hearted Power

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 60 years of experience, a global presence, and more than 70,000 units installed worldwide, we offer you our expertise, our people, and our resources.

Rapid strives to exceed your expectations in recycling plastic waste.

Specifications

Rapid Granulator AB

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Rapid worldwide:

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China  info@rapidgranulator.cn

Singapore  info@rapidgranulator.asia
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After the total success with the Open-Hearted 300-, 400-, and 500-Series Rapid has now developed the biggest Open-Hearted granulator ever – the 600-Series, filled with new technology.

The Open-Hearted concept means an ergonomic design that enables you to open the complete cutter house and get total access to the heart of the machine facilitating much faster cleaning, maintenance and inspection.

Within a couple of steps – and without the use of tools – fast and easy access is gained to the cutter house and associated components, including its fixed and rotating blades, for cleaning, servicing or knife-changing. Clear visual access to the core machine parts allows “visibly clean” inspection and approval of the machine before it resumes operation; preventing potential contamination at colour and material changes.

The Rapid 600-series comes in three widths, 900, 1,200 and 1,500 mm.
Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>600-90</th>
<th>600-120</th>
<th>600-150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diam. (mm)</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>type</td>
<td>3-blade, open</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotating knives</td>
<td>3x2</td>
<td>3x2</td>
<td>3x2</td>
</tr>
<tr>
<td>Fixed knives</td>
<td>2x2</td>
<td>2x2</td>
<td>2x2</td>
</tr>
<tr>
<td>Cutterhouse, Super-Tangential/Tangential, mm</td>
<td>900x800</td>
<td>1200x800</td>
<td>1500x800</td>
</tr>
<tr>
<td>Pre-cut, mm</td>
<td>900x630</td>
<td>1200x630</td>
<td>1500x630</td>
</tr>
<tr>
<td>Hopper inlet</td>
<td>900x600</td>
<td>1200x600</td>
<td>1500x600</td>
</tr>
<tr>
<td>Motor, standard, (kW)</td>
<td>75</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>alternatives</td>
<td>55, 75, 90, 110, 132, 160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Throughput capacity (up to, kg/h)</td>
<td>2500</td>
<td>3000</td>
<td>4000</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>6500</td>
<td>7500</td>
<td>9000</td>
</tr>
</tbody>
</table>

Standard features

- Constant Cutting Circle, CCC
- Open-Hearted cutting chamber design
- Pre-adjustable knives, fixed and rotating
- Double scissors cutting action, V-position
- Rotor lock
- Rotor stand still guard
- Heavy duty transmission
- Easy removable flaps
- Solid stand with machine shoes, MCT – Mineral Composite Technology
- Electrical jack opening

Options

- 3-blade beam rotor
- 5-blade beam rotor
- 7-blade beam rotor / 7-blade RS rotor
- PowerTech package, wear resistant execution
- Various hoppers for sheets, pipes/profiles, belt conveyor, roll feed
- Extra fixed knife/knives, increasing throughput,
- Screen diam. Std/opt. (mm) 8 10 / 12 / 17 / 25
- Extra flywheel
- Knife setting jig
- Friction clutch
- Level indicator

All data given depending on configuration, material etc.
The outstanding ergonomic design of all models allows you to rapidly reach the heart of the machine and gain access to appropriate parts to achieve fast cleaning, maintenance and changeover times. "Visibly clean" inspection and approval is a further benefit.

Improved safety interlock
The new design of the safety interlock system allows quicker opening of a granulator. It is also safer because its speed-related sensor ensures that the rotor is standing still before the granulator can be opened.

High-quality regrind
The Rapid cutting technique comprising clean double scissors-cutting action and constant cutting circle produces granules of a uniform size with minimal dust content even with the toughest materials.

Power-assisted opening/closing
Rapid opening and closing of the infeed hopper is assured by a motor-driven jack.

Heavy duty transmission
Two heavy duty versions of transmission are available. One with extra increased inertia which includes friction clutch. A second flywheel can be added to further increase the granulation power.

The Rapid friction clutch ensures safe operation even if an sudden stop in the granulation occurs.

"Open-Hearted Power"
"Super-Tangential" cutterhouse with 3-blade open rotor
For bulky waste this is often the recommended configuration. The two fixed knives as shown (red) are typically used. A third fixed knife (green) is optional for higher capacities.

"Pre-cut" cutterhouse for thick-walled materials
The "Pre-cut" cutterhouse configuration is used when the material should be cut piece by piece, without falling "into the rotor". This is very tolerated in flake products which are typically used. One or two additional fixed knives (green) are optional to further increase throughput.

"Targeted" cutterhouse with 5-blade beam rotor
Increased throughput is achieved by using the 5-blade beam rotor. The Targeted cutterhouse is suitable for both waste as well as more thick-walled, compact products. The two fixed knives (red) are typically used. One or two additional fixed knives (green) are optional to further increase throughput.

Cutterhouse configurations
Infeed hopper solutions
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