

# 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**

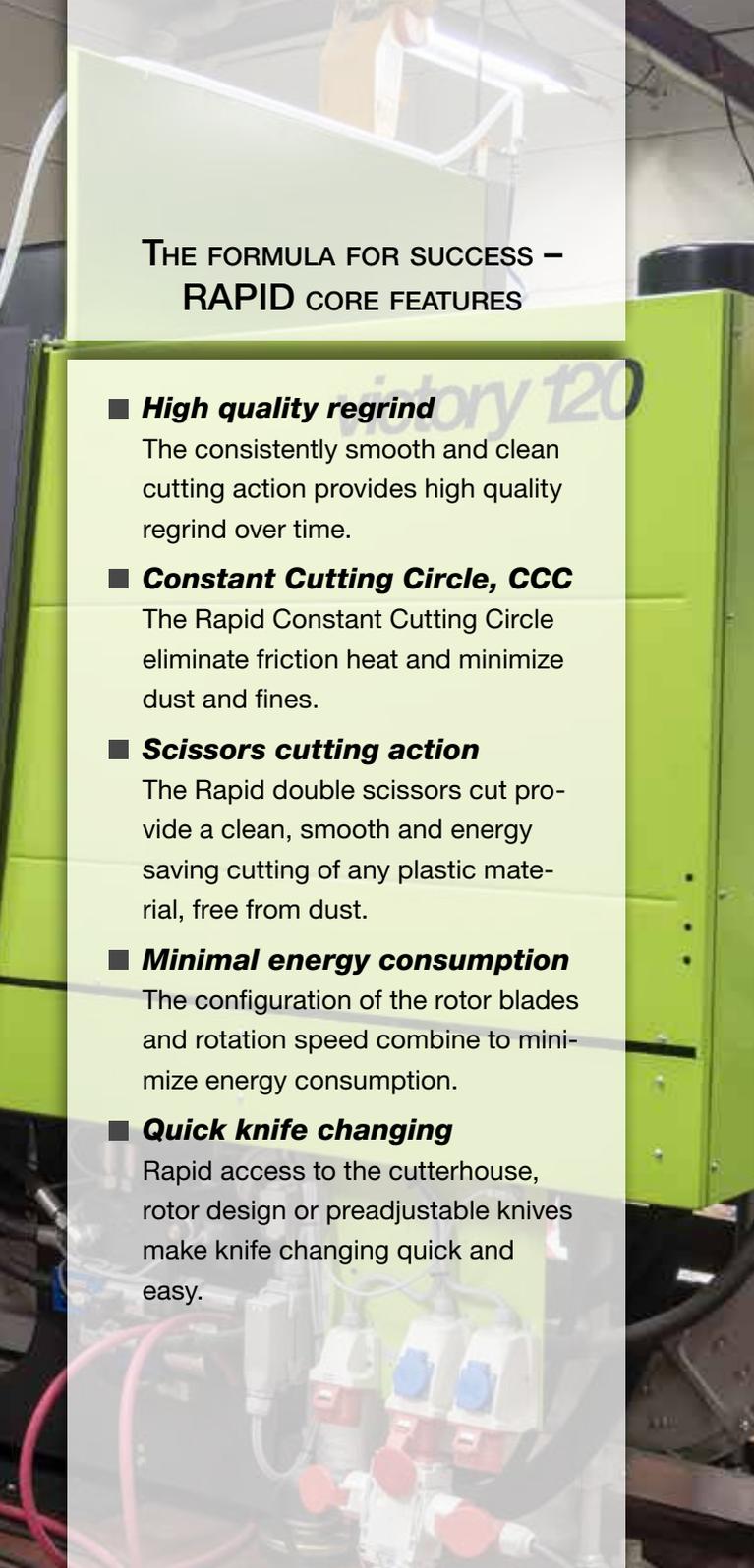
The Rapid double scissors cut provide a clean, smooth and energy saving cutting of any plastic material, free from dust.

### ■ **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

## Rapid OneCUT PRO – The smart way to use slow-speed granulation

The Rapid OneCUT PRO is a highly efficient energy-saving granulator capable of producing the highest quality regrind. It benefits from a number of unique Rapid innovations like the FlexiSPEED technology, and open-hearted design that drastically simplifies cleaning and maintenance.

All plastics have different properties, so why use the same speed to reduce them? With Rapid OneCUT PRO, you can use the FlexiSPEED to adjust the rotor speed whenever you need to, so you can be sure you're using the right setting to achieve the optimal output, regrind quality, lowest noise level and lowest possible energy consumption through Rapid EnergySMART.

And that's only the start. Add open-hearted technology for fast cleaning, smarter metal detection, and a lot more, and you have a new benchmark.



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 Delta-Tech 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 |
|-------------------|-------------------------|-----------------|--------------------|----------------|
| <b>OneCUT PRO</b> |                         |                 |                    |                |
| OC100-22          | 215x220                 | N.A.            | 1.5                | 20             |
| OC100-33          | 330x220                 | N.A.            | 1.5                | 35             |
| OC100-44          | 445x220                 | N.A.            | 1.5                | 50             |
| <b>150-Series</b> |                         |                 |                    |                |
| 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             |
| <b>200-Series</b> |                         |                 |                    |                |
| 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            |
| <b>300-Series</b> |                         |                 |                    |                |
| 300-30            | 300x260                 | 260             | 5.5                | 200            |
| 300-45            | 450x260                 | 260             | 7.5                | 300            |
| 300-60            | 600x260                 | 260             | 7.5                | 500            |
| <b>400-Series</b> |                         |                 |                    |                |
| 400-45            | 450x350                 | 350             | 15                 | 450            |
| 400-60            | 600x350                 | 350             | 22                 | 600            |
| 400-90            | 900x350                 | 350             | 22                 | 750            |
| 400-120           | 1200x350                | 350             | 22                 | 900            |
| <b>500-Series</b> |                         |                 |                    |                |
| 500-60            | 600x450                 | 450             | 22                 | 600            |
| 500-90            | 900x450                 | 450             | 30                 | 900            |
| 500-120           | 1200x450                | 450             | 37                 | 1200           |
| <b>600-Series</b> |                         |                 |                    |                |
| 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

# Get **MORE** performance from your Rapid equipment!

Preventive maintenance is the key to high-quality regrind, keeping down life-cycle costs and, in the worst cases, avoiding costly breakdowns that can stop production. This is why you should service and maintain your granulators regularly, with the frequency determined by your specific application demands.

With installation and service from your local Rapid Service Team, you can rest assured that your granulator will deliver high availability, efficient performance and a long life, year after year.

Our spares and service team is just a phone call away to provide you all the help you need with service, maintenance and replacement parts. Our promise is simple: your request will be handled promptly, typically within a few hours.



## Rapid 5-year extended warranty

With a preventive maintenance program in place and the use of original Rapid spare parts you will experience the same superior performance from your granulator as you did day one.

Our commitment is underscored by the 5-year extended warranty that you receive for free with all new Rapid granulators. All you need to do is register your granulator (see below). The only exception to the warranty is if you

use abrasive materials. This will, according to normal branch practice, turn the rotor and cutterhouse into wear parts, and thus exclude it from the extended warranty.

The warranty is valid for five years if you can show a documented maintenance history (as stated in the Rapid user's manual) and, of course, the use of Rapid original spare parts.



## Rapid Service Center

**Get the most out of your Rapid granulator – register it today!**

In the Rapid Service Center you get on-line access to your granulators documentation, including:

- manual, forget about lost manuals, it's always available
- electrical drawings of your individual machine
- program for all service activities; weekly, monthly etc.
- the service log supports the extended Rapid 5-Year warranty
- direct link to the Rapid Spare Parts Team to order the correct parts, for your individual machine, when you need.

Register your granulator at <https://service.rapidgranulator.com>



1 Register your Rapid granulator



2 We send you a password by mail



3 Login to the Rapid Service Center



4 And a world of valuable service information

### Rapid Granulator AB, Sweden

P.O. Box 9, SE-333 02 Bredaryd  
Delivery address:  
Industrivägen 4, SE-333 72 Bredaryd  
Phone: +46 370 86500  
Email: [sales@rapidgranulator.se](mailto:sales@rapidgranulator.se)

### Rapid worldwide:

|              |  |
|--------------|--|
| USA          | <a href="mailto:info@rapidgranulator.com">info@rapidgranulator.com</a>   |
| Germany      | <a href="mailto:info@rapidgranulator.de">info@rapidgranulator.de</a>     |
| France       | <a href="mailto:info@rapidgranulator.fr">info@rapidgranulator.fr</a>     |
| Italy        | <a href="mailto:info@rapidgranulator.it">info@rapidgranulator.it</a>     |
| China        | <a href="mailto:info@rapidgranulator.cn">info@rapidgranulator.cn</a>     |
| Asia/Pacific | <a href="mailto:info@rapidgranulator.asia">info@rapidgranulator.asia</a> |

