

# Rapid OneCUT PRO

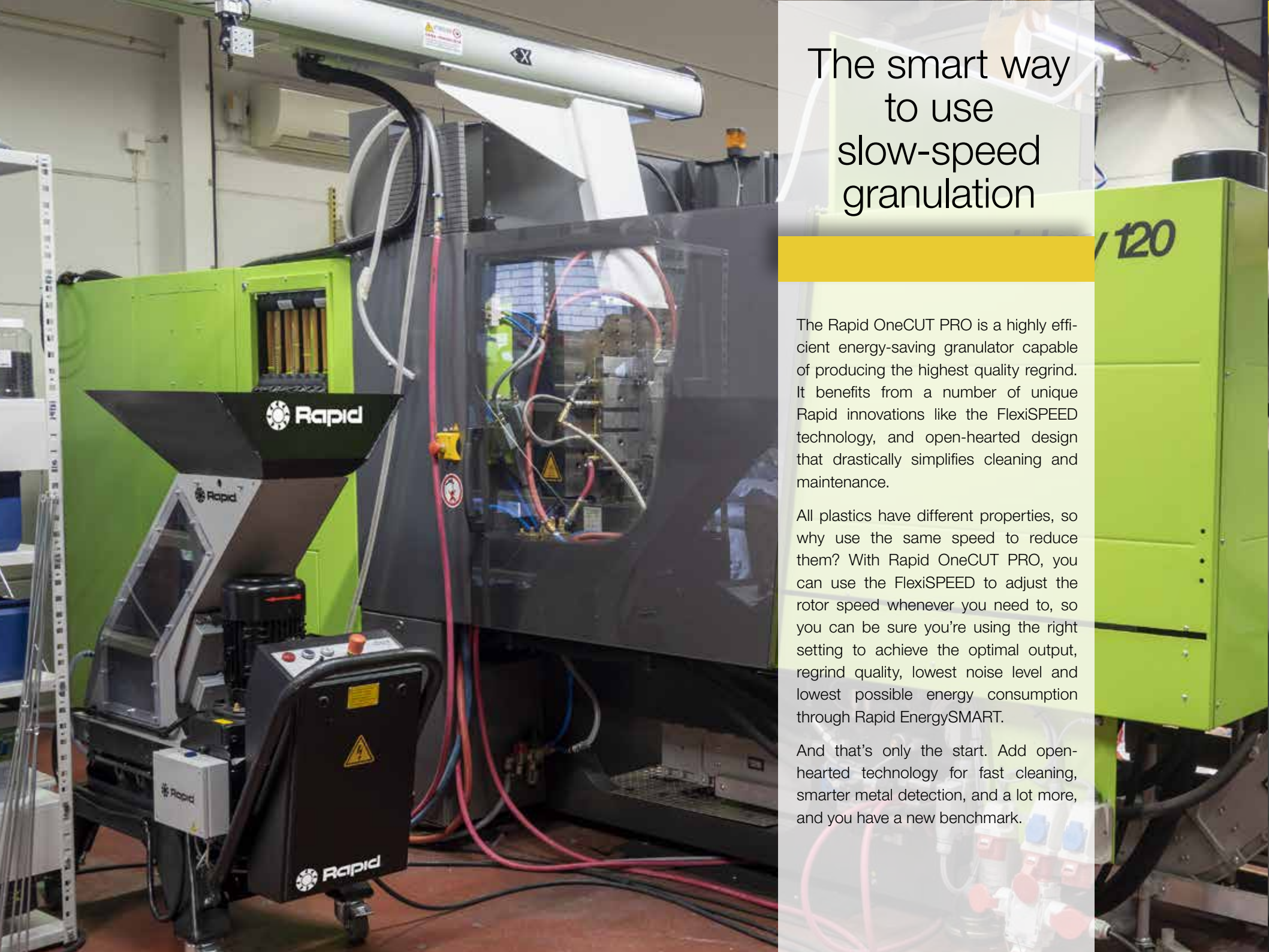
Flexible Slow speed

The smart way to benefit from  
slow speed granulation



Rapid OneCUT PRO  
100-22  
100-33  
100-44






## 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.



## The cutting edge of plastic recycling

Rapid OneCUT PRO is a compact machine that's packed with technology engineered for performance, safety and ease-of-use.

- FlexiSPEED system which uses a frequency converter allows you to adjust the speed based on the material for optimal performance, which reduces the noise level and reduces energy use by up to 30%.
- Rapid EnergySMART can help you to utilize the granulating overcapacity and save up to 80% of your energy cost. It's also equipped with the Rapid Start/Stop mode, where the granulator will granulate in intervals, saving even more energy.
- SquareCUT cutting tooth design generates uniform regrind of the absolute highest quality.

# Rapid OneCUT PRO

## The FlexiSPEED granulator

The new modern slow speed granulator with many smart and patent pending features

- Save up to 80% of energy cost with Rapid EnergySMART
- Fastest machine to clean with Rapid Open Hearted Design – Open up the complete machine in less than 30 seconds
- Total accessibility of rotor and cutter house through Rapid QRR – quick rotor release – disconnects the gearbox to provide completely open cutter house and a free spinning rotor for much easier cleanouts
- Highest quality regrind independent of the material thanks to Rapid FlexiSPEED – cutting speed adapted to material characteristic
- Anti-blocking system as standard – prevents overload, rotor blocking and can stir the material in the cutter house by reversing the rotor direction
- Meets the current and future safety requirements: OneCUT PRO meets safety level PLD according to the new European safety rules. EN12012-1:2018.

### Open-Hearted design

Thanks to Rapid QRR (Quick Rotor Release) the complete cutter house, including rotor, opens in less than 30 seconds for cleaning, service and preventive maintenance. As the rotor is disconnected from the gear motor, it can be easily rotated for convenient cleaning with full visibility. The opening and closing of the cutter house is gas spring assisted in order to simplify the opening but equally as important, control the closing to prevent any injury risk.

### FlexiSPEED – Frequency converter

Different materials have different characteristics. Adjust the speed by +/- 40% (from 15 – 35 rpm) to optimize the regrind quality, lower the noise level or maximize the regrind capacity.

**Lower the speed** – for brittle materials, lower noise level and lower energy consumption.

**Increased speed** – for softer materials and higher capacity.

### Rapid EnergySMART – Save up to 80% of your energy cost

Utilize the granulator overcapacity to save significant amount of the energy cost. With Rapid Start/Stop mode the granulator can stop and restart in intervals. During pause mode, you'll have zero energy consumption and no noise. After a preset time the granulator starts again and recycles all the accumulated material in the hopper and then it stops again.

### Straight cut with – Staggered cutting segments

The teeth are configured in a straight cut design in order to maximize the gripping of sprues and parts. Lack of gripping ability increases dust and fines production. Each tooth has a square cut design to generate uniform high quality regrind. The rotor segments are staggered to each other so only one segment is cutting at a time, providing a smooth operation.

### Turnable knives and hooks and PowerTECH execution

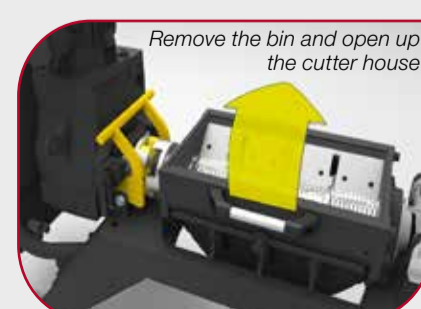
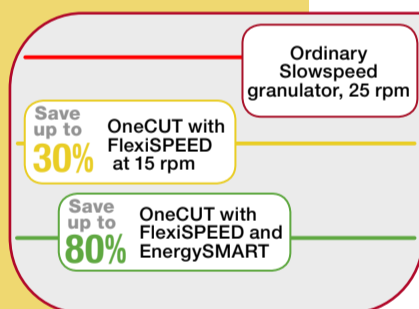
The Rapid OneCUT PRO is designed for minimal cost of ownership. The main wear and tear parts, like the fixed knives and the cutting hooks, are turnable for double life time. The OneCUT PRO can also be delivered in a PowerTECH execution for very abrasive materials. With PowerTech execution the rotating-, fixed- and scraper knives have a super hard treatment for maximum wear resistance.

### Metal detector, optional

Hopper mounted metal detector – detecting metal in the hopper increases detection – stopping the rotor before the metal reaches the cutter house. Detecting even embedded metal.

### Instant access with Rapid QRR

How to completely open OneCUT PRO in less than 30 seconds with Rapid QRR (Quick Rotor Release) Drastically simplifies cleaning, service and preventive maintenance.



## Specifications, Features and Options

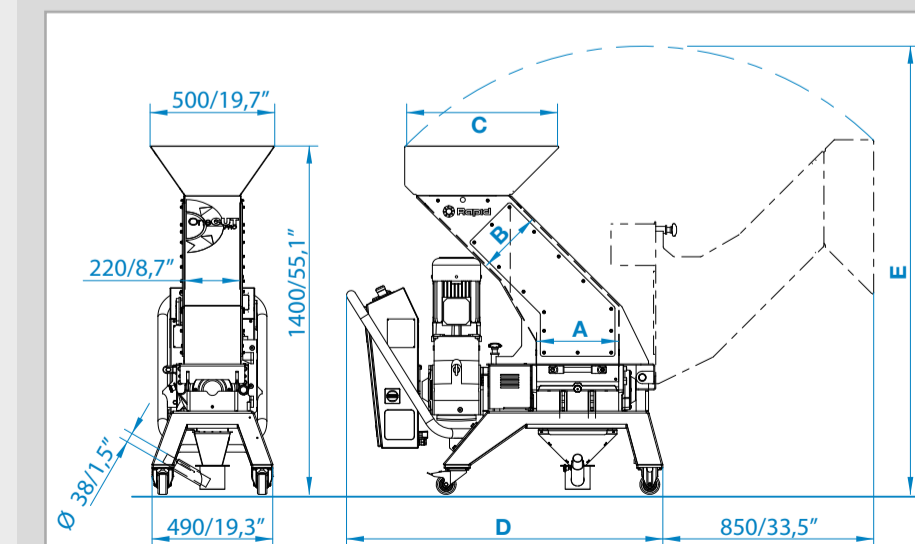
Standard models	OC 100-22	OC 100-33	OC 100-44
Cutter house width, (mm/in)	215x220 8,5"x8,7"	330x220 13"x8,7"	445x220 17,5"x8,7"
Rotor speed, (rpm.)	15-35		
Cutting hooks	1	2	3
Rotor segments	2	3	4
Rotor teeth size, mm/in (standard/optional)	5 / 0,2" 7 / 0,28"		
Motor, optional (kW/HP)	1,5 (2,2)/2(3)		
Hopper inlet, (mm)	200x220 7,8"x8,7"	260x220 10,2"x8,7"	320x220 12,6"x8,7"
Throughput capacity, (kg/h, lbs/h)	up to 20/40	up to 35/75	up to 50/110

### Standard features

- Open-Hearted design
- Rapid QRR, Quick Rotor Release, giving fast access to cutter house
- Staggered rotor configuration with straight cut per segment
- ABS function, reversing rotor regularly to optimize recycling efficiency

### Optional features

- EnergySMART, save up to 80% of energy cost
- In hopper metal detector, detects even embedded metal
- IMM interface, for connection to production line
- Level indicator, paddle type
- Wear resistant rotor/cutterhouse parts



OneCUT PRO	100-22	100-33	100-44
A	215/8,5"	330/13"	445/17,5"
B	200/7,8"	260/10,2"	320/12,6"
C	520/20,4"	605/23,8"	690/27,2"
D	1160/45,7"	1280/50,4"	1400/55,2"
E	1720/67,7"	1800/70,9"	1890/74,5"

# 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

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