

A large industrial shredder machine, likely a Pabst model, featuring a black and silver design. It has a large hopper for material input and a control panel with a monitor and buttons. The machine is shown from a side-on perspective, highlighting its robust construction and industrial-grade components.

Rapid's "open-hearted" engineering concept is now built into each granulator model of its Rapid 300, 400 and 500 Series. The big benefit of being open-hearted is that it boosts performance by providing direct and easy access to the heart of a machine to achieve very fast 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 color and material changes.

Once again, Rapid confirms that it leads the field with innovative design and makes no compromises in providing you with high-performance granulators.

Extremely short pit stops
Saving costs by simplifying your clean-
ing 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.

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

Rapid strives to exceed your expectations in recycling plastic waste.

A close-up photograph of a metal component, likely a part of a machine. On the left, there is a section with a grid of small, circular perforations. To the right of this, a larger, solid metal flange or housing is visible, featuring several bolt holes and a smooth, machined surface. The lighting highlights the metallic texture and the precision of the manufacturing.

3BRO548-GB-02, Rapid Granulator AB, 2007.04
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A large, industrial-grade X-ray inspection system, the Rapiscan Rapid 500. It features a large, silver-colored monitor mounted on a black base. The base has two large, black, textured doors with silver handles. The side of the machine is black with a yellow and black radiation warning symbol and the text "Rapid 500". The machine is positioned on a red and white checkered floor.



Rapid 500 series

“Open-Hearted Engineering”

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.

Easy cleaning and maintenance

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.

Highest-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.

Less energy

The true double scissors action reduces the force needed to slice through plastic waste. Therefore a smaller motor can be used to significantly reduce energy consumption.

Reversible screen

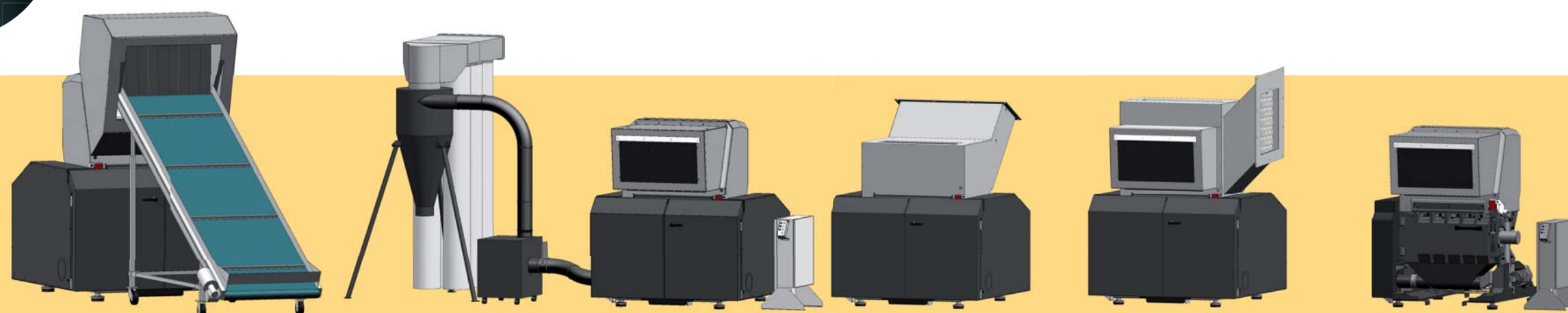
The screen can be turned, providing longer lifetime and maximum durability.

Power-assisted opening/closing

Rapid opening and closing of the in-feed hopper is assured by gas springs or a motor-driven jack.

Infeed configurations

A great number of hopper alternatives are available as standard options depending on application and infeed method. Most of the standard hoppers are of modular design and can be easily re-configured later if needed.



Specifications

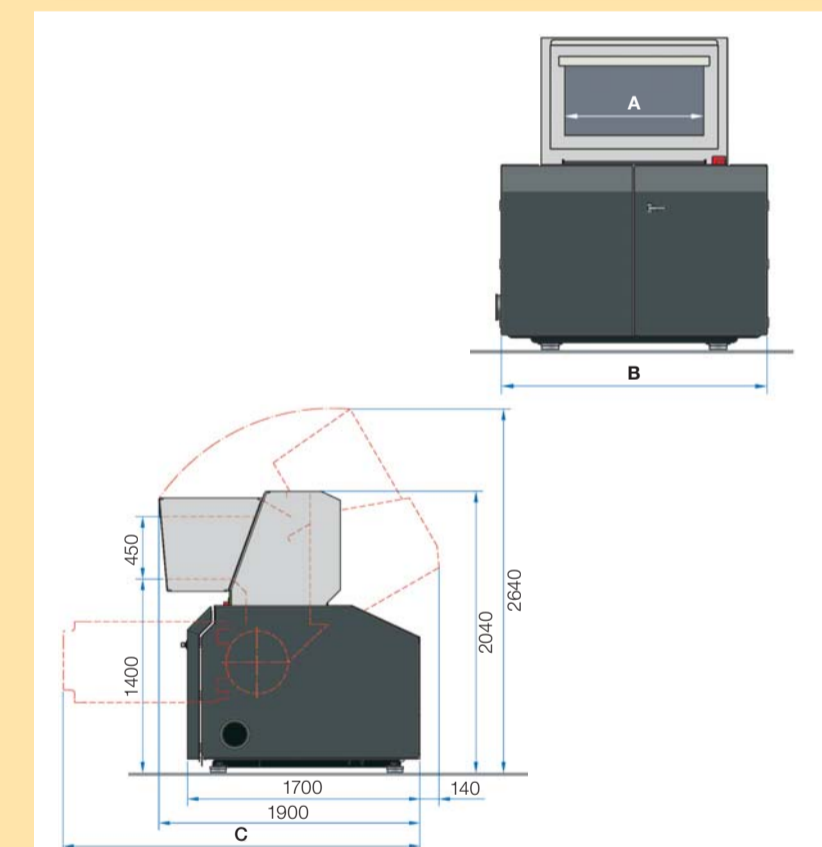
	500-60	500-90	500-120
Rotor diam. (mm)	450		
type	3-blade, open		
Rotating knives	6		
Fixed knives	4		
Cutterhouse, Super-T/T, mm	620 x 580	920 x 580	1220 x 580
Pre-cut, mm	620 x 460	920 x 460	1220 x 460
Hopper inlet	600 x 450	900 x 450	1200 x 450
Motor, standard, (kW)	22	30	37
alternatives	18.5 / 22 / 30 / 37 / 45 / 55		
Throughput capacity, (kg/h)	up to 600	up to 900	up to 1200
Weight (kg)	3000	3300	3600

Features

Pre-adjustable knives
Double scissors cutting action, V-position
Rotor stand still guard
Swing-out cutter house front/cradle
Heavy duty transmission
Easy removable flaps
Solid stand with machine shoes
Electrical jack opening

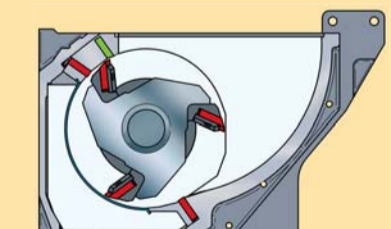
Options

5 blade rotor, increase throughput
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 4 / 6 / 10 / 12 / 17 / 25
Extra flywheel
Knife setting jig
Level indicator

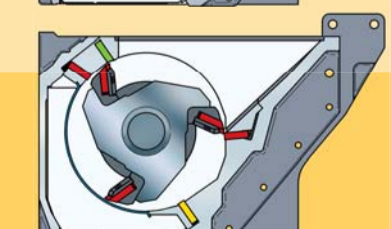


All dimensions in mm.

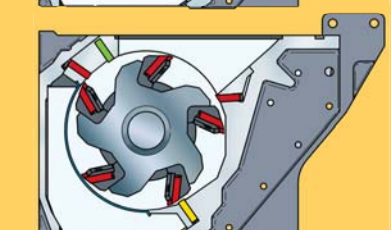
Model	A	B	C
500-60	600	1440	2500
500-90	900	1740	2600
500-120	1200	2040	2900



Super-Tangential for bulk waste
The two fixed knives as shown (red) are typically used. A third fixed knife (green) is optional for higher capacities. Typical applications are voluminous parts and scrap.



Tangential for extruded materials
The two fixed knives (red) are typically used. One or two additional fixed knives (green/yellow) – are optional to increase throughput when higher capacities are required.



Pre-cut for thicker walled materials
Recommended for heavy-duty granulation of sheets, pipes, profiles and thick-walled materials etc. The third and fourth fixed knives (green/yellow) are optional to increase capacity.