

Rapid ThermoPRO



The power to
drive more profit



ThermoPRO 600
900
1200



ThermoPRO

Setting new standards

Grinding products in the web

Our modular solutions are flexible enough to fit into any line, whilst the size of the intake can cope with not only the plastic skeletons, but also line start-up cups and containers up to 200 mm in height. This means you can reuse all of the raw material that would ordinarily be seen as waste, and ensures you maximize your profit margins on the plastic you've already purchased.

In addition, there's no need for manual work where you'd usually need to handle the start-up waste, cutting out any injury risk and eliminate the risk of contaminating the material during internal handling and transportation for central granulation.

Rapid ThermoPRO is the most reliable, powerful and quiet granulator engineered specifically for the thermoforming industry.



Open-Hearted ThermoPRO

Rapid Open-Hearted Thermoforming granulator

Recycling is an essential part of the thermoforming industry, and the more you can do in-house, the better your margins will be. Sometimes, recycling on your own premises can be challenging, creating a loud environment with machines that still need a lot of manual input to ensure ongoing operation. Rapid ThermoPRO completely eliminates these potential issues.

With the Open-Hearted design concept the ThermoPRO gives full access to machine interior. This makes a huge difference when it comes to cleaning for material or colour changes and ease of service and maintenance.



The Rapid ThermoPRO is a tailored granulator to maximize the regrind quality.



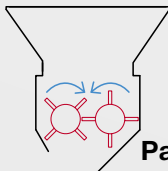
Low built ThermoPRO

Applications under the press

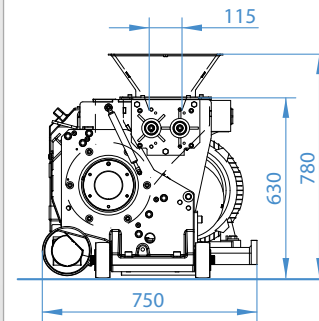
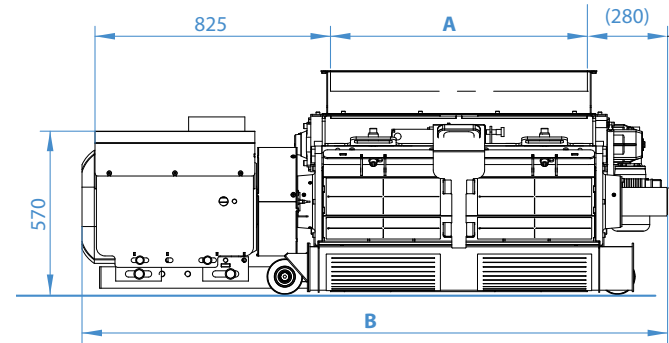
The 300-LBB with a paddle infeed is ideal to use in under-the-press applications.

A full roll feed unit with loop control can also be used to fit in-line with the thermoforming line.

The 300-LBB comes in three widths, 900, 1200 or 1500 mm



Paddle feed



LBB	300-90	300-120	300-150
A	900	1200	1500
B	2100	2400	2700

All dimensions in mm.

A return of investment (ROI) example

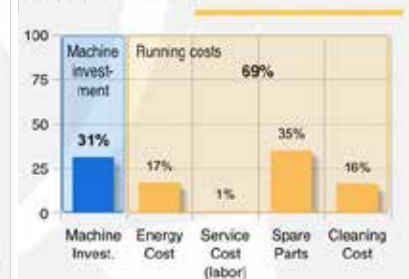
Super profitable – Payback in 39 days

The nature of inhouse plastic recycling choosing the right equipment

Return on Investment (ROI)



Life Cycle Cost



Example:

Application: Skeletal waste and start up cups in PS, 2 shift – 16 hours
 Material: PS – EUR 1,5/kg (US\$ 0,75/lb)
 Grinding capacity: 100 kg/h (220 lbs/h) Total regrind per day 1.600kg (3.500 lbs)
 Tailored solution: Rapid ThermoPRO
 Example price: EUR 65.000, (US\$ 78.000)
 Payback period: 39 days

Rapid Uncompromizing Performance

ThermoPRO



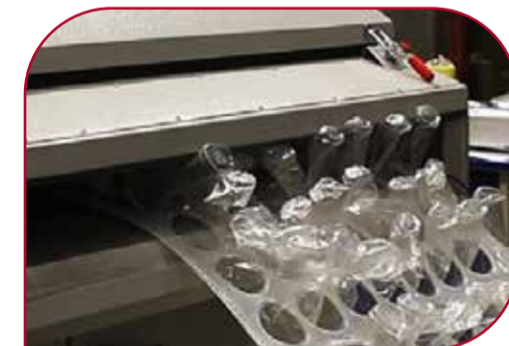
Integrated loop design
The ThermoPRO has three different loop solution that can handle start up products in the web up to 200 mm height.



Super sound proofed
The integrated loop control provides maximum sound insulation and reduce the noise level to under 80 dBA (depending application).



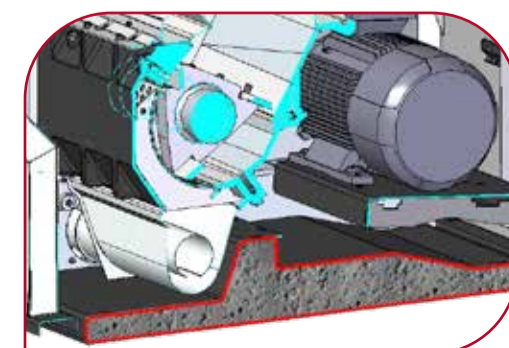
High quality regrind
A key is to generate high quality regrind that can be fed back into the production process again without affecting the production negatively. The Rapid ThermoPRO is 100 % developed to maximize regrind quality for Thermoforming applications.



Heavy duty roller feeder
Products up to 200 mm
Easily compresses and grind start up cups and products in the web.
Roll feeder are heavy duty design, not only to provide a trouble free in line operation.
No extra handling, no contamination of material – just run it directly into the granulator.



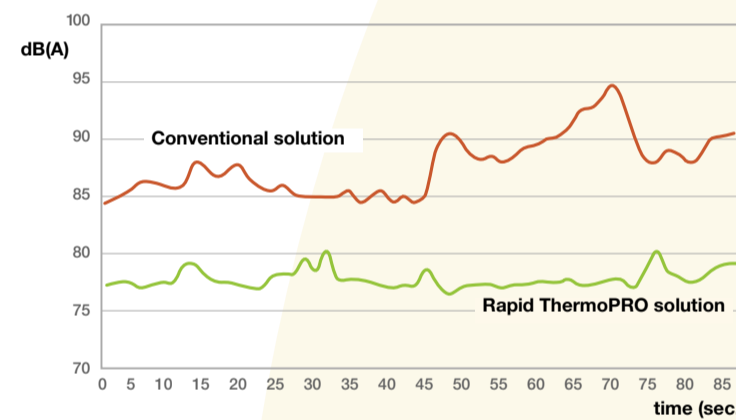
Inspection window with lights
A very safe and simplified solution for operator to monitor operation and when starting up the feeding of granulator.



Mineral Composite Technology Base, MCT
A mineral composite filled base to lower the center of gravity and absorb stress during operation lower the noise and vibrations even in the toughest applications.

The new modern granulation solution for the thermoforming industry

- Simplicity –**
ThermoPRO is coming with Rapid's unique and very appreciated "Open-Hearted" design as standard that drastically simplifies cleaning, service and preventive maintenance. Direct and total access to the heart of the machine in less than a minute!
- Extra heavy duty**
The new heavy duty roller feed has such design and strength so it can compress and feed cups up to 200 mm height, eliminating all manual handling at e.g. startups. – Grind all material and feed it back to the production again without risk of contamination.
- Super Silent – No More Noise**
With MCT base (Mineral Composite Technology) the vibrations from the cutting process is absorbed. The solution equipped with integrated loop control capture a lot of the granulation noise giving a convenient working environment with less than 80 dB(A) (can depend on material/application).

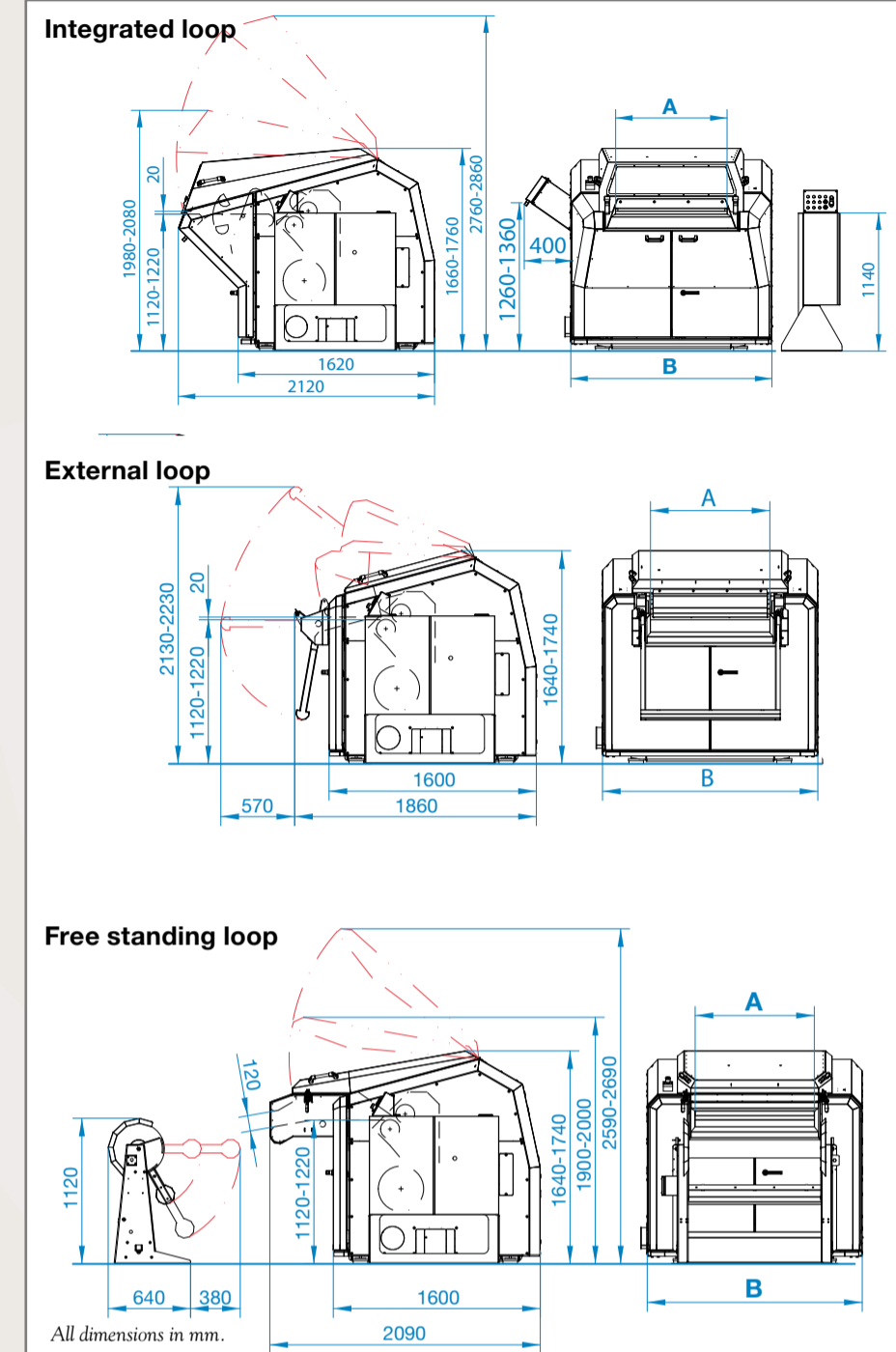


- Customized**
With 18 base models, and an array of useful options, the ThermoPRO can be 100% tailored for your application.



Side feed inlet
Scrap products can be fed into an optional side feed inlet, 120x120 mm opening

Specifications



	400-60	400-90	400-120
Rotor diam. (mm)	350		
Rotor design	3-blade, open		
Rotating knives	3	3	2x3
Fixed knives	2	2	2x2
Cutterhouse, Tangential, mm	620x360	920x360	1220x360
Motor, standard, (kW)	11	15	22
alternatives	11 / 15 / 18.5 / 22 / 32 / 37		
Throughput capacity, (kg/h)	up to 600	up to 900	up to 1200

Granulator features	
Open-Hearted design	
Pre-adjustable knives	
Double scissors cutting action	
Rotor stand still guard	
Heavy duty transmission	
Mineral Composite Technology machine base (MCT), less vibration, less noise	
Solid stand with machine shoes	
Electrical jack opening	

Granulator options	
5 blade rotor, increase throughput	
Side feed inlet, 120x120 for products	
Extra fixed knife, increasing throughput, Tangential	
Screen diam. Std/opt. (mm) 8, 4 / 6 / 10 / 12 / 17 / 25	
Knife setting jig	
Level indicator	
Frequency control system	
Stitch reduced screen	

Rapid RFT Roll feeder	
Drive motor alternatives (kW)	0,55/0,75/1,1
Single drive / Double drive	
Loop control	integrated / external / free standing
Heavy duty rollers	Knurled / grooved

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>



Register your Rapid granulator



We send you a password by mail



Login to the Rapid Service Center



And a world of valuable service information

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