

Designed for  
**plastics**



**Rapid GranuMATIC™**

# The plastic **granulating** shredder

When Rapid, in the 1960's, introduced the plastic granulator to the plastic industry nothing alike had been seen. It was the start of what was to become Rapid's leading technology.

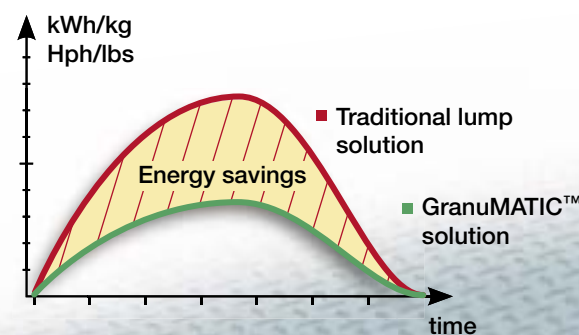
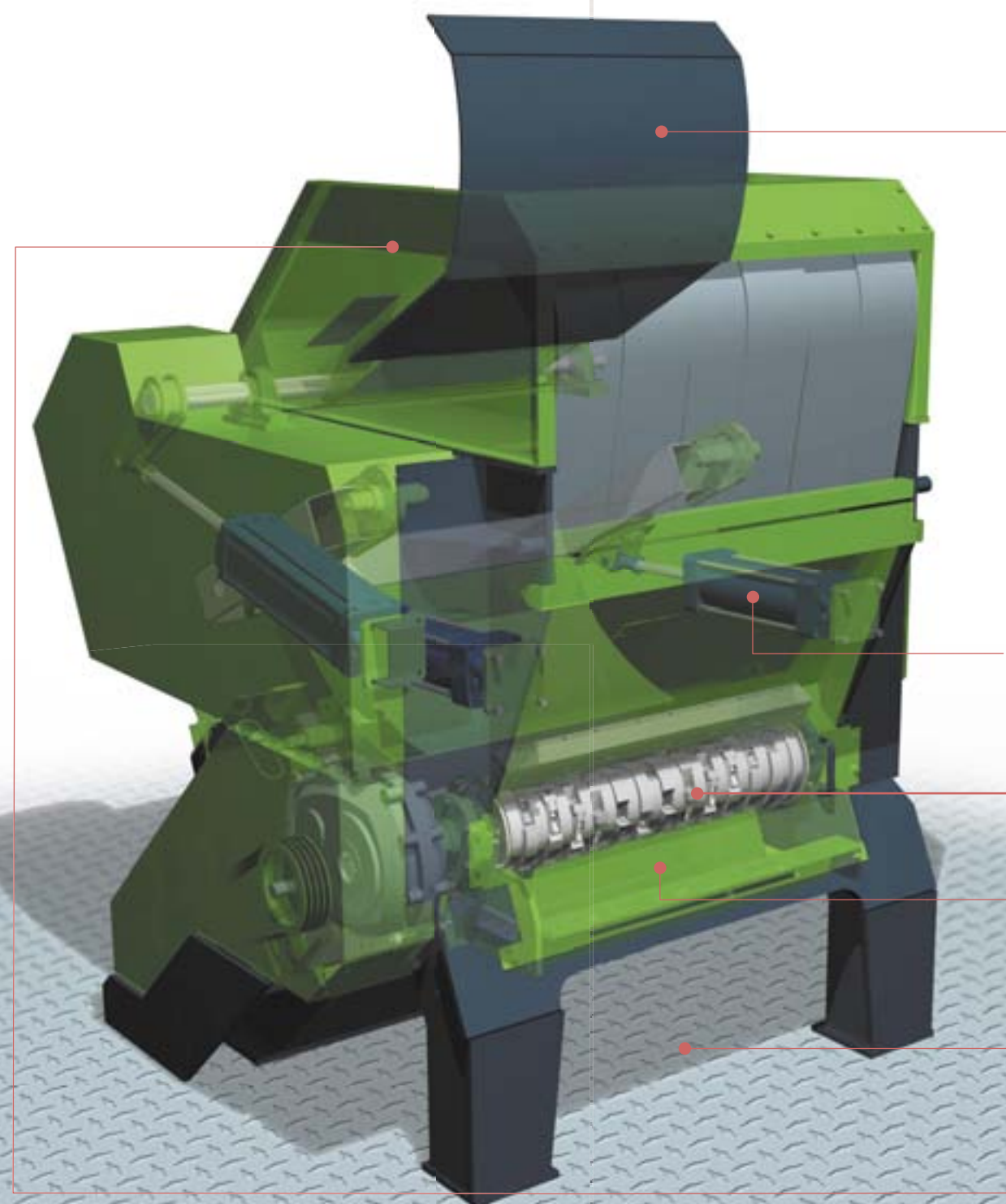
Today, with the release of the GranuMATIC™-line, we are once again the first to introduce a truly dedicated plastic recycling machine. They are not granulators, nor shredders – they are GranuMATIC™.

Until now, shredders have been designed for multi purpose use. Mainly for size reduction of garbage and wood.

The new GranuMATIC™ line is exclusively developed for efficient recycling of polymer materials. The unique technology is the result from Rapid's long experience in traditional shredders and granulators for polymer materials.

The GranuMATIC™ models are optimized to produce clean plastics by truly cutting smoothly even the hardest materials into uniform pieces.

The PolyCUT technology offers energy saving benefits. Unique design and configuration makes it possible to achieve high capacity even with limited motor power – this is how you can benefit from Rapid and minimize the running cost.



Because we know what we are doing, we can offer you the world's toughest guarantee – 5 years – when you buy a new Rapid GranuMATIC™. Through regular service and maintenance, and the replacement of worn parts when appropriate, your shredder will provide the same high performance as on the first day you used it.



**Cutting** the material with the PolyCUT technology, instead of shredding.



**Minimized stress** thanks to slow cutting operation.



**Saving energy.** PolyCUT and sequential cutting action enable low motor power.



**Rotor cooling** available for GranuMATIC™ Wide.



**Increased capacity** achieved by double knife rows (Wide model).



**Stress absorbing** pneumatic feeding system, the unique FlexiPUSH.



**Light weight, voluminous** goods are efficiently fed into rotor by an optional second pusher.



**Screenless operation** producing uniform "chips". Optional screen available for smaller particle size.



**Easy output** from standard high built stand by band conveyor or screw conveyor.



**Low noise level.** Optional sound proofed execution for critical environments.



**Trouble free** ownership provided by Rapid extended 5 year guarantee.

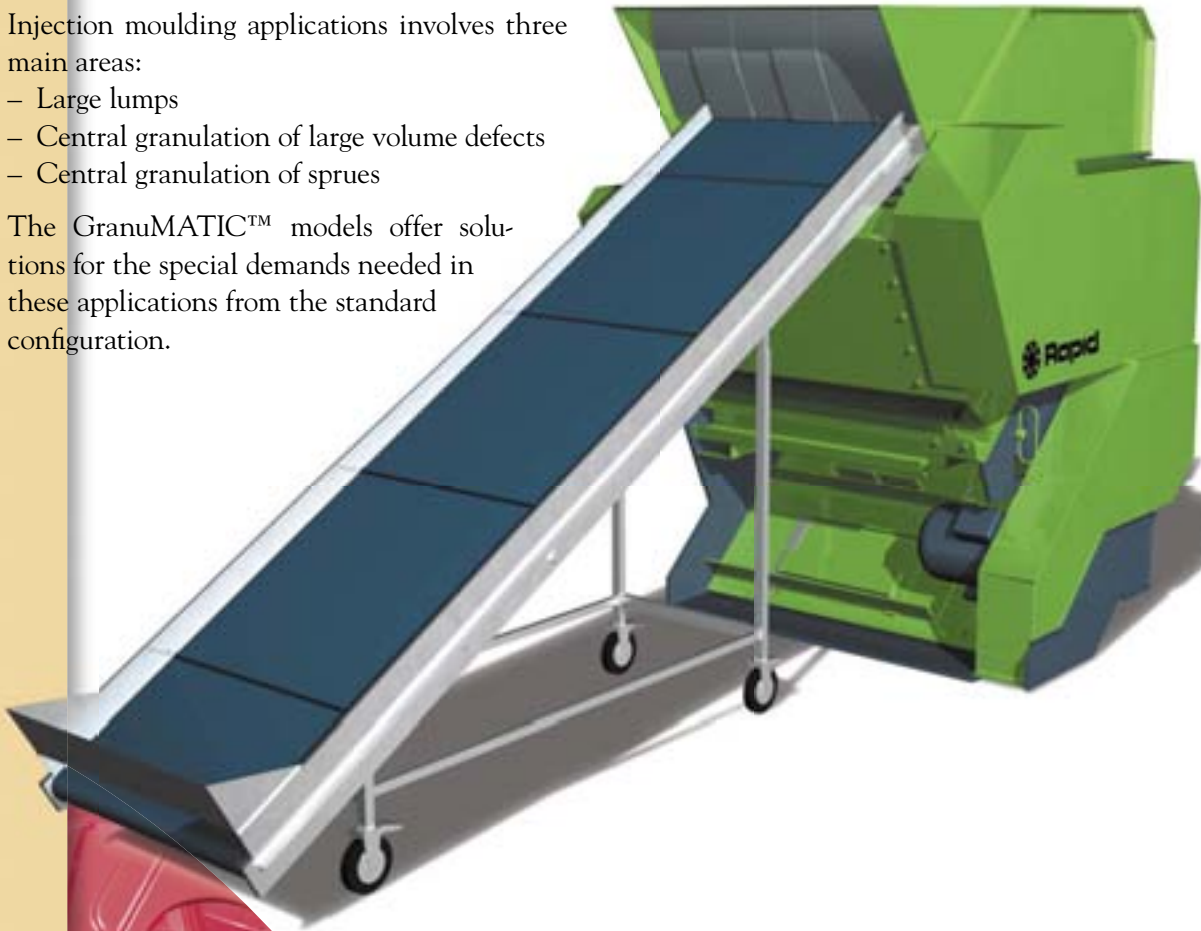


# Injection moulding

Injection moulding applications involves three main areas:

- Large lumps
- Central granulation of large volume defects
- Central granulation of sprues

The GranuMATIC™ models offer solutions for the special demands needed in these applications from the standard configuration.



	Sprues	Rejects	Lumps
	x	x	x
	x	x	x
kWh 1/hp	x	x	x
	-	-	-
	-	-	-
	x	x	x
	(x)	(x)	(x)
	(x)	(x)	-
	(x)	(x)	(x)
	x	x	x
5 year guarantee	x	x	x



## FlexiPUSH

The pneumatic FlexiPUSH-system is self regulating, efficiently absorbing vibrations and stress that appears in tough applications.

The special hopper design allows material to be transported automatically into the rotor. The pusher system is self cleaning when reversing.

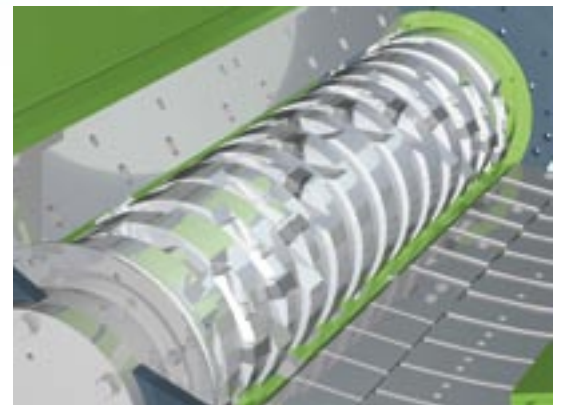
Loose

# Blow moulding

Blow moulding applications include both large size bulky items and smaller products like containers, bottles etc. To avoid the material floating above the rotor and not being cut, the Granu-MATIC™ is equipped with a top second pusher to force the material into the rotor knives.



	Bottles	Bulky items	Flash/Lumps
	x	x	x
	x	x	x
	x	x	x
	-	-	-
	(x)	(x)	(x)
	x	x	x
	x	x	-
	(x)	(x)	-
	(x)	(x)	(x)
	x	x	x
	x	x	x



## PolyCUT

The unique Rapid PolyCUT technology is a combination of knife cutting angle, cutting speed and sequential cutting supported by FlexiPUSH. It provides a superior shredding solution for plastic materials. PolyCUT provides a clear and smooth cut with low stress and enables low motor power.

Consequently you gain:

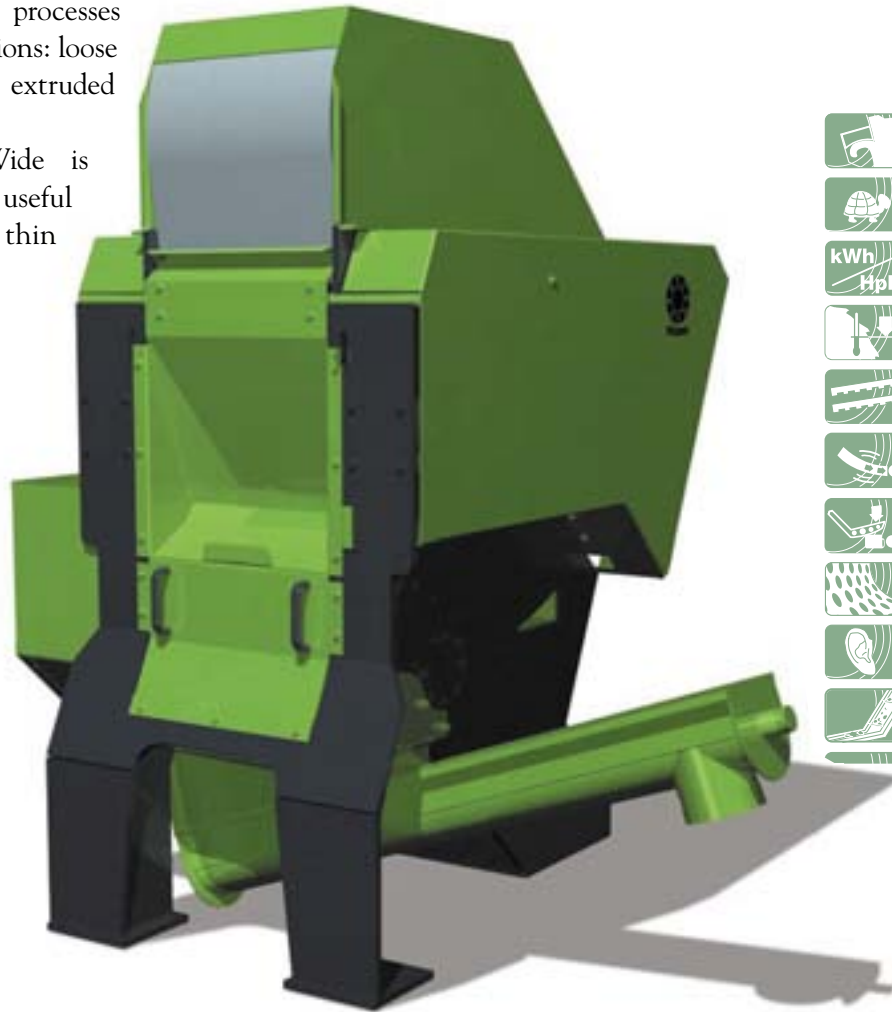
- uniform granulated ships
- low energy consumption
- a long lasting high performance solution (5 year warranty)



# Extrusion

The GranuMATIC™ Series processes all types of extrusion applications: loose film, rolls of film, big lumps, extruded profiles and pipes.

The GranuMATIC™ Wide is available with rotor cooling useful especially for processing of thin film.



	Loose film	Film rolls	Pipe/Profile	Lumps
	x	x	x	x
	x	x	x	x
	x	x	x	x
	(x)	(x)	-	x
	(x)	(x)	(x)	(x)
	x	x	x	x
	x	(x)	-	(x)
	(x)	(x)	-	(x)
	(x)	(x)	(x)	(x)
	x	x	x	x
	x	x	x	x

Processes involving extrusion require many different applications. The GranuMATIC™ Series is capable of processing all types of extrusion applications, loose film, rolls of film, lumps in different sizes and material, extruded profiles and pipes.





# Rapid system solutions



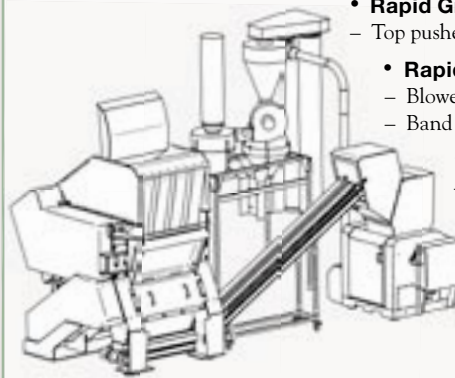
## Typical configuration – Lump application

- **Rapid GranuMATIC™ Compact**
  - Band conveyor infeed
- **Rapid 2036 granulator**
  - Blower F7/AX7,5
  - Band conveyor infeed
- **Regrind separation**
  - Rapid DS-50



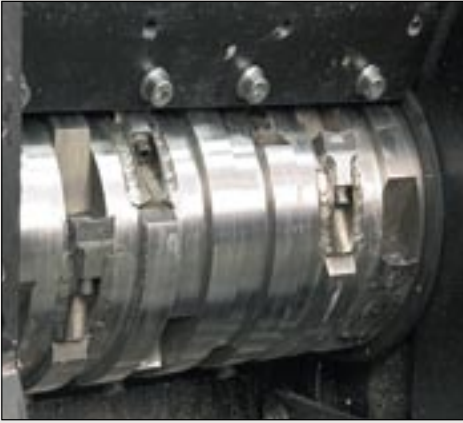
## Typical configuration – Container application

- **Rapid GranuMATIC™ Extend**
  - Top pusher
- **Rapid 3560 granulator**
  - Blower F15/AX12
  - Band conveyor infeed
- **Regrind separation**
  - Rapid DS-400
  - Metal separator
  - High-built stand



## Easy cleaning/access

The design puts handling in focus. Cleaning the machine for new materials or colors is easy. By removing a single plate, instant access to the machine interior is achieved without any heavy handling.

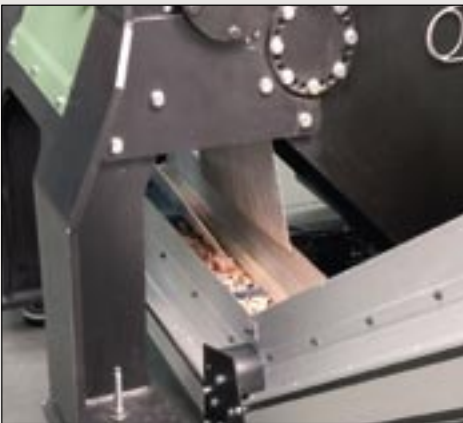


## Screenless operation

As the material is cut into uniform pieces the GranuMATIC™ operates without screen, although it can be installed as option when smaller particle size is required.

## Easy maintenance

The front opening makes it possible to access the heart of the machine fast and easy. All knives, rotating and fixed are easy accessible. The rotating knives are reversible and of cassette type that simplifies maintenance.



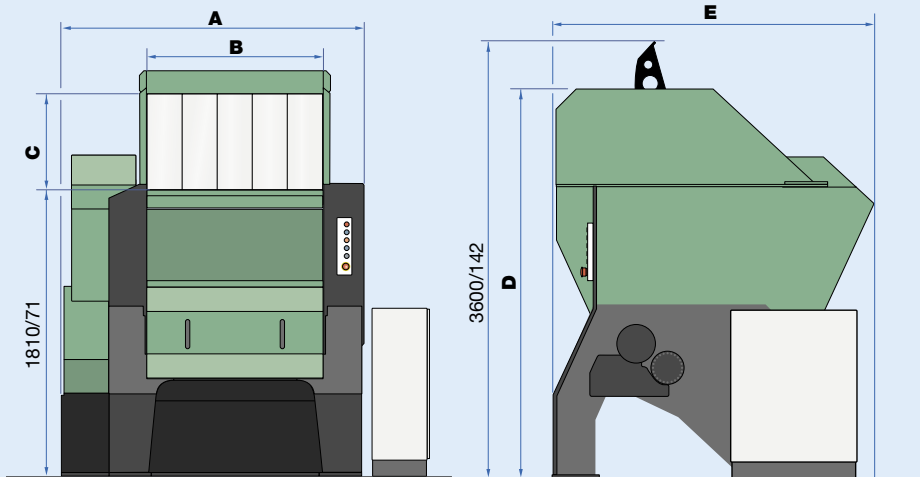
## Easy material evacuation

The high-built stand is standard and simplifies connection of material evacuation, either by a band- or screw-conveyor depending on your requirements.

<b>GranuMATIC™</b>	Compact	Extend	Wide
Power supply (kW/Hp)	11/15	22/30	55/75
Knives (pcs)	14	28	42
Rotor speed (rpm)	58	58	58
Weight (kg/lbs)	2 800/6 200	4 800/10 500	6 500/14 300
FlexiPUSH	yes	yes	yes
PolyCUT	yes	yes	yes
Rotor diam. (mm/in)	282/11	282/11	434/17
Cutterhouse (mm/in)	540×740/21×29	1080×740/42×29	1620×1020/64×40
Throughput* (kg/h/lbs/h)	450/1 000	900/2 000	1 500/3 300
Optionals			
Top pusher	N.A.	yes	yes
Rotor cooling	N.A.	N.A.	yes
Screen (hole dia., mm/in)	50, 2"		
Double knife rows	N.A.	N.A.	yes

\*Depending on application, material, feeding rate etc.

All dimensions in mm/in.



<b>GranuMATIC™</b>	A	B	C	D	E
<b>Compact</b>	1 320/52	540/21	520/20,5	2 540/100	2 230/88
<b>Extend</b>	1 930/76	1 080/42,5	620/24,5	2 660/105	2 230/88
<b>Extend, 2<sup>nd</sup> pusher</b>	1 930/76	1 080/42,5	760/30	2 810/111	2 230/88
<b>Wide</b>	2 930/115	1 620/64	1 000/39,5	3 100/122	2 300/90,5
<b>Wide, 2<sup>nd</sup> pusher</b>	2 930/115	1 620/64	1 180/46,5	3 280/129	2 300/90,5



# World leaders in handling plastics



Today's production plants place increasing focus on recycling plastics waste directly in the plant. Each model in our extensive ranges of Rapid shredders and granulators gives you optimal performance, 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.

As a world leader in supplying high-performance equipment to the plastics industry, it was a natural step to design the GranuMATIC™-line. It provides economical solutions for diverse tough applications.

We call it granulistics! Contact Rapid to learn how you can improve your granulation economy.



## Present worldwide

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