### G, B, N, T, NT, Evolution, TRM, KA, KD, SL

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Maximum flexibility of rotor configuration

Easy maintenance and

accessibility







PET Preforms & Bottles

#### Lowest noise level

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& Technical Sheets

#### **GRANULATOR FOR SMALL CAPACITY** IMM Up to 90 kg/h

G17 granulators are designed to produce the most homogeneous regrind shape and dimensions, along with little to no presence of dust.

A distinctive characteristic of this series is the ability to produce regrind with very small dimensions. The great advantage of dimensionally small regrind is the possibility to add higher percentages to the virgin material with no influence to the quality of the finished product. Small capacity systems, injection moulding machines or extruders, are equipped with small diameter plastification screws, unable to process granules with dimensions exceeding those of the virgin granule. The G17 granulators produce regrind which is dimensionally comparable to the virgin pellet.









Recycling



#### GRANULATION

#### **Rotor type** Open or staggered, with low rotating speed 155 or 275 rpm.

- **Cutting system** Inlet faces apposite to the direction of rotation, tangential cut, adjustable blades, with hardness 56-58 HR, bolted chamber.
- **Grid** Stainless steel with 5 mm passing holes diameter; reversible. 4, 6, 8 or 10 mm available on request.
- Main options and<br/>versionsSound-proof feeding hopper kit; sound-proof basement kit, extraction kit by means<br/>of a vacuum fan or screw feeder; connection for suction probe; visual and acoustic<br/>alarm; additional back feeding hopper; additional hopper for robot feeding; niploy<br/>treatment for the cutting chamber<sup>1</sup>, rotating speed 275 rpm and enhanced power.



G17 granulators are available with open or staggered rotor

	Inlet dimensions (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Load power (kW)	Grid size (mm)	Max throughput (kg/h)
G17-22-3K	230 x 310	3	2	170	155	2.2	5	50
G17-38-3K	380 x 310	3	2	170	155	2.2	5	90

1: For wearing materials (e.g. glass fiber or calcium carbonate loaded polymers)









Lowest noise level

accessibility

Autc

components

Rigid Packaging Easy maintenance and





parts

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Thermoforming & Technical Sheets

## **GRANULATOR** Up to 200 kg/h

**COMPACT** 

The G25 series is designed mainly for installation beside the IMM; the adjustable rotating knives assure cutting efficiency and quality and reduce noise.

The G25 series includes versatile machines, that can be easily installed and integrated in customer's systems, thanks to the compact dimensions, the low noise level largely within EN standards and the various discharge systems.

Flexible Film







Recycling



PET Preforms & Bottles

#### GRANULATION

#### **Rotor** Open or staggered, diameter 250 mm with lateral side disc.

**Cutting system** Inlet contrary to direction of rotation, tangential cut, adjustable blades, with hardness 56-58 HR, bolted chamber.

Available screen 4, 5, 6, 8, 10 mm, reversible.

Main options and Noise insulation kit; fan and cyclone extracting devices (available also as noise insulated or with high performance fan), rigid or flexible screw feeder or connection for suction probe; external visual lamp; safety switch for frontal door; current absorption meter; side soundproofed feeding hopper for pipes (120 x 120 mm); back sound-proof feeding hopper for sheet (300 or 450 x 100 mm); upper feeding hopper for pipes and profiles (diam. 80 mm); niploy treatment for the cutting chamber.<sup>1</sup>



Different configuration for the material extraction are available, including a transiting through fan with cyclone

	Inlet dimensions (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Load power (kW)	Grid size (mm)	Max throughput (kg/h)
G25-30-3K	380 x 311	3	2	250	340	4	8	140
G25-45-3K	380 x 457	3	2	250	340	5,5	8	200

1: For wearing materials (e.g. glass fiber or calcium carbonate loaded polymers)





Easy maintenance and accessibility



Lowest noise level

Autc

components

Rigid Packaging



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High efficiency and clean process thanks to the advanced "Scissor" cutting

### **FLEXIBLE GRANULATOR** Up to 340 kg/h

S30 series is suitable for a wide range of applications thanks to the robust construction and the highly efficient "scissor" cutting, with double inclination that reduces also heating and dust generation.

The cleaning and maintenance operations can be easily performed thanks to the quick opening.

A wide range of feed and discharge options are available to meet customer's requirements.



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Recycling

Rotor	Open type diameter 305 mm.
Cutting system	Inlet contrary to direction of rotation, tangential cut, adjustable blades, with hard- ness 56-58 HR, bolted chamber.
Available screen	4, 5, 6, 8, 10 mm; reversible.
Main options and versions	Different extracting devices: fan and cyclone (available also with the noise insulated or with high performance fan), flexible screw feeder or connection for suction probe; current absorption meter; back soundproofed feeding hopper for sheet (500 x 100 mm); side sound-proof feeding hopper for pipe (150 x 150 mm); enlarged feeding

inlet (std or soundproofed); niploy treatment for the cutting chamber.



The hopper is designed to guarantee minimum distance for operator safety, facilitate the falling down of the pieces and reduce noise propagation The bolted construction of the cutting chamber allows the replacement of every components,

with a tremendous reducing of costs refurbishing for old machines

	Inlet dimensions (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Grid size (mm)	Max throughput (kg/h)
S30-50-3K	305 x 510	3	2	305	460	8	340







High wear resistance with side plates configuration



Advanced "Scissor" cutting action, reduces energy consumption, heat and dust generation



Hinged hopper manually operated for easier cleaning and maintenance

### **MULTI PURPOSE GRANULATOR** Up to 700 kg/h

The G40 and G42 series are designed for injection, blow moulding, and also for extrusion, thanks to the specific feeding hoppers for sheets and pipes, available as option.

The main feeding hopper is hinged and manually operated for easy cleaning and maintenance.

The cutting performance and efficiency are guaranteed by the scissor cutting action. The G40 and G42 series also meet the highest standard of safety and are fully sound enclosed, for low operating noise level.



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Recycling

Compound

Rotor	Open type diameter 400-420 mm with wear resistant side plates.
Cutting system	Inlet contrary to direction of rotation, tangential cut, with super tangential cutting chamber (only for G42), adjustable blades with 56-58 HRC, bolted cutting chamber.
Available screen	8 mm reversible as standard. 6, 10, 12 or 14 mm available on request.
Main options and versions	For G40: additional back insulated feeding hopper for sheet (inlet: 900 x 150 mm), additional side feeding hopper for pipes (inlet: 200 x 200 mm), niploy treatment for the cutting chamber. For G42: kit for additional pulley, suction box for probe, absorbed current alarm.



Adjustable rotary knife improve the cutting process, reduce the dust and noise generation and also power consumption



The bolted construction of the cutting chamber allows the replacement of every components, with a tremendous reducing of costs refurbishing for old machines

	Inlet dimensions (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Grid size (mm)	Max throughput (kg/h)
G40-70	530 x 710	3	2	420	450	8	350-500
G40-90	530 x 913	3	2	420	450	8	500-700
G42-70	560 x 710	3	2	420	450	8	350-500
G42-90	913 x 560	3	2	420	450	8	500-700







granulation of plastics, rubber and light metals

Designed for high-quality



Advanced "Scissor" cutting action, reduces energy consumption, heat and dust generation



Hopper and screen cradles ensure easy access for quick cleaning and maintenance

#### FOR HEAVY DUTY **APPLICATIONS** Up to 1,400 kg/h

Designed for heavy duty applications, the N45 series granulators can be used for high-quality granulation of plastic, but also of wastes in general.

The remote control mounted in a separated enclosure makes for easier and more flexible installation.

The cutting performances and efficiency are guaranteed by the scissor cutting action. The N45 series meets also the highest standard of safety and are fully sound enclosed for low operating noise level.





















#### GRANULATION

Rotor	3K or 5K twin shear open rotor with wear resistant side plates.
Cutting system	Inlet contrary to direction of rotation, tangential cut, adjustable blades with hardness 56-58 HRC.
Available screen	8 mm, reversible.
Main options and versions	Motor with 75 kW, enlarged feeding hopper with inlet dimensions 1,070 x 650 mm.



The granulator can be equipped with different feeding hopper, such as the one for the manual feeding of pipe and profile

	Inlet dimensions (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Load power (kW)	Grid size (mm)	Max throughput (kg/h)
N45-100	600 x 1,070	3	2	450	460	45	8	1,000
N45-160	600 x 1,600	3	2	450	460	55	8	1,400

# N55 | N60





Advanced cutting action, reduces energy consumption, heat and dust generation



Wear resistant rotor



Rigid



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#### EFFICIENT SIZE REDUCTION OF PLASTIC AND WASTE Up to 2,100 kg/h

With a large feed opening, a highly robust structure and with powerful motors, the N55-N60 series are designed for heavy duty applications or extra large parts, with the maximum efficiency in size reduction and easy cleaning.

The robust structure and blades guarantee a long operating life.

The advance cutting action assures high efficiency and clean operation.

A wide range of feed and discharge options are available to meet specific requirements.



Flexible Film

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& Technical Sheets





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Rotor	Wear resistant side plates.
Cutting system	Inlet contrary to direction of rotation, tangential cut, adjustable blades with hardness 56-58 HRC and bolted cutting chamber. Tangential cut for both N60 and N55, supertangential for N55.
Available screen	10 mm reversible for N60 and 8 mm revesible for N55.
Main options and versions	Motor with 110 kW; forced feeding kit D 350 L 1,000 2 x 5.5 kW for N60. Motor with 55 kW; and enlarged hopperof 2,600 mm for N55.



The design of the feeding hopper and the presence of the protections avoid any risk of fly back



The open rotor of N60 maximizes the heat dissipation making the machine suitable to run also with high temperature scraps

	Inlet dimensions (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Load power (kW)	Grid size (mm)	Max throughput (kg/h)	Rotor technology
N55-90	700 x 913	3	2	560	460	37	8	700-1000	Open rotor
N60-100	825 x 1060	3	2	609	450	55	10	1400	3K, 5K or
N60-160	825 x 1590	3	2	609	450	75	10	2100	7K twin shear open rotor

# Film and edge trim





Designed for efficient size reduction of edge trims and film



Different motor size for energy saving or higher cutting power



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Quick opening and easy cleaning

#### **IMMEDIATE REGRINDING** Up to 680 mm wide

The machines of this family is designed specifically for applications in extrusion film.

The different configurations can match all customer's requests, both in terms of energy saving and cutting power and efficiency.

The feeding system is specifically designed for film and the granulator can be integrated in the line for immediate material recovering.









Flexible Film









Recycling

#### Material to be grinded Option available

Film and film edge trim.

Monitoring of an external level sensor to stop the machine and to generate an acoustic alarm; aluminium swinging barbell L = 185.



The extracting device can be external or integrated in the same frame of the granulator

	Inlet dimensions (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Load power (kW)
G17-38-ET1	n.1 20x180	3	2	170	250	3
G25-30-ET1/2	n.1/2 20x100	3	2	250	340	4
G25-45-ET1/2	n.1/2 20x100/180	3	2	250	340	5.5
S30-50-ET2	n.2 20x180	3	2	305	460	11
S30-50-R	n.1 20x480	3	2	305	460	11
G40-70-R	n.1/2 20x480/680	3	2	419	460	22
G40-70-ET2	n.2 20x180/380	3	2	419	460	22

# TINT





Designed for efficient size reduction of thermoforming sheets and scrap



Suitable for sheet with thermoformed lids



PET Preforms & Bottles Rigid

Models for in-line and off-line granulation

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### FOR THERMOFORMING APPLICATIONS Up to 1,800 kg/h

T and NT series are specifically designed for efficient reduction of thermoforming sheet, lids and scrap.

The granulators can be integrated in the thermoforming line for in-line or off-line granulation according to customer's request. A wide range of motor size are available for the best balance between energy saving and cutting capacity.



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Flexible Film

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Thermoforming & Technical Sheets









Production range	From 350 up to 1.800 kg/h.
Rotor	Open rotor with wear resistant side plates.
Cutting system	Inlet contrary to direction of rotation, tangential cut, adjustable blades with hardness 61HRC, bolted cutting chamber.
Material to be grinded	Thermoforming sheet, suitable also for thermoformed caps ad edge-trim Soundproofing casing for model NT35-120-R. Soundproofing hopper for manual feeding (inlet dimensions 200x600 mm) Swinging roll for edge-trim in-line feeding.

	Sheet wide (mm)	N. rotating blades	N. fixing blades	Rotor diameter (mm)	RPM	Load power (kW)	Max throughput (kg/h)
N40-70-T	680	3	2	419	450	22	500
N40-90-T	870	3	2	419	450	30	700
N45-100-T	1,040	3	2	450	450	45	1,100
N45-160-T	1,550	3	2	450	450	55	1,600
NT25-91	860	3	2	254	475	7.5	500
NT25-120	1,160	3	2	254	475	7.5	700
NT35-120	1,160	3	2	355	500	15	1,000
NT35-140	1,360	3	2	355	500	15	1,200
NT35-160	1,550	3	2	355	500	22	1,350
S60-100-T	950	3	2	609	450	55	1,100
S60-160-T	1,550	3	2	609	450	75	1,800

# **Evolution Series**





Long blade life time



Very fast blade replacement



Adjustable rotor and bed knives or disposable knives available

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#### HEAVY DUTY GRANULATOR Up to 5,000 kg/h

The Evolution Series is very robust and suitable for heavy duty, dry or wet operations.

The maintenance has been optimized: very fast blade replacement time and the anti wear Hardox plates are easily replaceable.

The Evolution Series is efficient and effective, with a reduction of 30% of the power used and the maximum capacity increased up to 40%, compared to the previous version.

The rotor and bed knives are adjustable for a longer blade life time and produce a uniform regrind with very little power.



Flexible Film

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& Technical Sheets







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Rotor	Open type with wear resistant side plates.
Cutting system	Inlet faces apposite to the direction of rotation, tangential cut, adjustable blades with hardness 56-58 HRC, bolted cutting chamber.
Main options and versions	EV616: motor with 132 kW (with the 616-6K), spare kits for the knives kit (for 616- 3K or 616-6K). EV916: energy saving configuration for the 916-6K with 250 kW motor; extracting screw.



The blades have the best compromise between hardness and resistance; for thermoforming they reached 61 HRC hardness



Dedicated engineering solutions are available for the automatic feeding of edge-trim

	Rotor diameter (mm)	Rotor lengths (mm)	N. rotating blades	RPM	Motor power (kW)
EV616	616	1,600	6	460	75-132
EV916	916	1,600	6	330	160-250

# TRM





High flexibility thanks to wide range of automated programs for different products

Cutting angle designed to reach high output with minimum energy consumption



PET Preforms & Bottles Suitable for recycling critical components

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### **SINGLE SHAFT SHREDDER** For heavy duty applications

The single shaft shredders are designed with a new and patented rotating blades fixing, featuring cutting angles which help recycle difficult components and achieve high production output with low energy consumption.

The TRM series is suitable to recover plastic materials, films, car parts and also electrical cables, wood or paper.

The control is PLC based allowing management of different applications thanks to multiple automatic programs.



Flexible Film

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& Technical Sheets







Cutting system	Inlet faces apposite to the direction of rotation, tangential cut, blades with hardness 56-58 HRC, bolted cutting chamber.
Available screen	Diam. 20, 30, 40 mm, reversible.
Main options and versions	Kit for side inlet feeding hopper; rigid screw feeder (diameter 150 mm L=3,200 mm), special anti-wear treatment for the cutting chamber; special versions with enlarged or double motor-gear and motor for heavy duty.



The cutting chamber is realised with a patented fastening way that allows a cutting angle specific design for grinding critical materials

	Rotor diameter (mm)	Rotor lengths (mm)	N. rotating blades	RPM	Motor power (kW)	Hydraulic system power (kW)
TRM600	220	600	15/23	82	18.5	1.1
TRM900	220	900	23/34	82	30	1.1
TRM1200	400	1,200	31/47/91	82	45/55/75	4/5.5
TRM1500	400	1,500	58	95	75/2x55/2x75	5.5





Vacuum suction system for low noise and dust emission



Easy cleaning and maintenance



Robust and compact structure

### **AIR FILTERING DE-DUSTING** Up to 2,000 kg/h

KA series is designed for the extraction of regrind material under vacuum, minimizing the generation of dust and noise.

The system includes a filtration system for the conveying air. The filtering cartridges can be easily replaced.

The extraction system can be interconnected with the granulator control, or it can be independently operated.

The structure is robust and compact and it can adapted to any plant layout.





















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Recycling

Compound

Feeding system	By vacuum.
Filtering device	Filtering removable cartridge.
Options:	Antistatic bars, metal separa

Antistatic bars, metal separator, stand-alone configuration or integrated with grinder control.

	Throughput (kg/h)	Load power (kW)	Collecting bin volume (dm <sup>3</sup> )	
KA07	100-250	1.85	50	
KA12	250-400	2.95	50	
KA110	400-600	4.75	87	
<b>KA145</b> 600-1,300		8.8	87	
KA350	1,300-2,000	16.1	87	
KA710	2,200-4,500	31.1	87	

# КГ





Produces high quality regrind material











### **DE-DUSTING** SYSTEM WITH AIR **FILTRATION** Up to 1,500 kg/h

The KD series is designed for the de-dusting of regrind material in order to improve quality. The process air used for the de-dusting process is filtered and it can return into the atmosphere, keeping a safe and clean environment.

There are different configurations for a variety of application and it can be floor standing and fitted to a new or existing grinder.

The de-dusting systems are equipped with an air suction system under vacuum and with a cartridge filter. This filter is supplied with automatic cartridge cleaning (except for KD01).

The installation can be completed with a wide range of accessories, such as big-bag support, metal separator or antistatic bar.









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Flexible Film

Pipes, Profiles

Recycling



# Feeding systemBy vacuum.Filtering deviceFiltering cartridge with automatic self cleaning by means of compressed air.

	Max throughput (kg/h)	Load power (kW)	Collecting bin volume (dm3)	
KD01	200	0.1	-	
KD04-S	500	0.75	50	
KD04	500	0.75	50	
KD07	1000	1.1	50	
KD12	1500	2.2	50	

# SL





Low speed granulator to reduce dust and noise generation



Easy inspection and cleaning



Robust construction for high reliability

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### SCREEN LESS GRANULATORS

SL series grinders are designed for technical moulding application and in particular for immediate recovering of sprues and runners.

The slow speed configuration, with a rotating speed of just 25 RPM, minimizes the dust, heat and noise generation. The resulting grinded material has a high quality, with a regular and consistent shape.

The machine reliability is guaranteed by a robust mechanical construction, that includes an anti-stress shaft rotation transmission and by a magnetic trap integrated in the feed hopper, to ensure that no metal parts can reach the cutting chamber.

The operation of inspection and cleaning are easy and quick and the operator can easily reach the rotor by opening the feed hopper.



Pipes, Profiles

Flexible Film

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& Technical Sheets







Rotor type	Staggered, low speed.
Cutting system	Combination of stationary cutters, scrapers and stationary crushing cutters.
Grid	Screen-less.



The rotor has different configuration, which a number of main cutters and sector elements according to the seize of the parts to process



The extraction of the grinded material can be easily realised thanks to the integrated suction box



The magnetic separator is integrated in the feed hopper in order to protect the rotor

	Inlet dimensions (mm)	N. main cutter	Sector element	Rotor diameter (mm)	RPM	Load power (kW)	Max throughput (kg/h)
SL - 1C	268 X 400	1	2	268	25	0.75	5
SL - 2C	359 X 400	2	3	268	25	1.5	10
SL - 3C	456 X 400	3	4	268	25	1.5	15
SL - 4C	547 X 400	4	5	268	25	1.5	20

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