

MAS Series Beside-the-Press Granulators

MAS1 to MAS4: In-Line Recycling of Soft to Medium Hard Plastics

- The very compact design allows MAS granulators to be used directly beside the injection molding machine.
- The granulators can be easily adjusted to suit the individual application.
- Hopper design for robot feeding.
- High quality regrind due to low rotor speed (200 rpm).
- Fastest change of knives without using pre-adjustment gauge (MAS1, MAS3).
- Standard pre-adjustment gauge for fast and easy change of knives (MAS2, MAS4).
- Patented quick release clamps for the rotor knives ensure fast and safe knife changes (MAS2, MAS4).
- Electrical cabinet allows all electrical options to be easily retrofitted.
- Regrind collection bin allows manual emptying or vacuum evacuation.
- Stainless steel internal hopper and regrind collection bin.



Cutting chamber of the MAS3 granulator model with 8 x 3 staggered knives.

Rugged Design for Continuous Operation

Cutting Chamber

- Double supported bearing of the shaft for vibration free operation.
- Open rotor with 3 moving and 2 fixed knives (MAS2, MAS4).
- Staggered rotor with 3 x 8 knives (MAS3) or 3 x 3 knives (MAS1) 2 fixed knives.
- Replaceable inserts on the side walls of the cutting chamber prevent wear of the walls that could arise from rotating parts and sprues.
- Easy cleaning of the screen by means of quick release clamps.
- Reversible screen for longer life.

Electrical Equipment + Safety

- Time delayed safety switch.
- All MAS granulators meet the specifications of the EN12012 standard.



Material Extraction

Regrind collection bin allows manual emptying or vacuum evacuation.

Hopper

- Top feed for robot, hand or conveyor.
- Soundproofed hopper with large chute opening and anti-flyback curtain.
- Hopper prepared for magnet.

Motor Drive

All MAS models are driven directly via a gear motor and equipped with double bearing rotors + flywheel (MAS3/MAS4 standard).

Sound Level

Less than 80 dB(A) sound level (depending on material and feeding method of the granulator).



Cutting chamber of the MAS4 granulator model with 3 moving and 2 fixed knives.

Easy Cleaning

- The design of the granulators allows easy cleaning and reduces downtime to a minimum.
- Quick access to the cutting chamber and screen without requiring any additional tools.

Options

- Magnet for metal separation.
- Flywheels (MAS1/MAS2).
- Level indicators providing visual/audible alarm.
- Water cooling (MAS2, MAS3, MAS4).
- Soundproofed execution (MAS2).
- Higher frame for bagging (MAS1, MAS2).
- Rotating evacuation bin (180°).
- Evacuation bins for manual evacuation.
- Screens with conical or slant holes.
- Phase detector allows to check the direction of rotation (MAS2, MAS3, MAS4).

Type MAS	Dimensions								Weight
	A	A1	A2	B	B1	B2	C	D	
	mm								kg
MAS1	556	340	207	455	393	—	615	1,150	162
MAS2	715	340	324	455	393	—	615	1,210	210
MAS3	700	505	30	455	420	133	820	1,310	250
MAS4	795	600	30	455	420	133	820	1,310	270

Specifications subject to change without notice.

MAS1 and MAS3 with Staggered Rotor

Rotor with 3 x 3 (MAS1) or 8 x 3 (MAS3) Staggered Knives

- Excellent regrind quality.
- The staggered rotor knives offer the optimal solution to "pull" parts into the cutting chamber.
- The cutting force is distributed across several high-alloyed, hardened rotating knives that provide a simple scissor cut for added energy savings, along with low-noise operation and high cutting performance.
- Rotating knives can be sharpened several times depending on the amount of wear. The cutting geometry of the knives allows them to be changed without any additional adjustment.
- The two fixed knives can be turned four times before replacement.
- Minimum downtime when changing knives.
- Fast and simple cleaning.



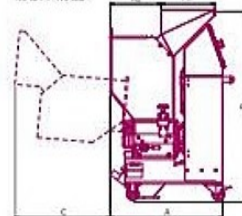
MAS2 and MAS4 with Open Rotor

Open Rotor with 3 Moving and 2 Fixed Knives

- High quality regrind and minimal fines.
- A pre-adjustment gauge is included to allow easy, quick adjustment of the knives for optimal cutting clearance.
- The slanted open rotor moving knives combined with two inclined fixed knives provide a double scissor action again improving the regrind quality and minimizing fines.
- Optimal circulation of air within the cutting chamber prevents thermal degradation of the molecular structure or melting of the material.
- The patented tensing clamps of the rotor knives ensure easy cleaning and maintenance.
- Fast and easy cleaning.



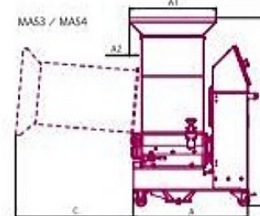
MAS1 / MAS2



B1



MAS3 / MAS4



B1



Type MAS	Ø Rotor	Rotor speed	Cutting chamber	Power	Inertia pulley	Rotor	Knives fixed/rotating	Ø Screen holes	Throughput
	mm	rpm	mm	kW				mm	kg/h*
MAS1	180	200	130 x 247	2.2	option	knives staggered	2 / 3 x 3	4 - 5 - 6	30
MAS2	180	200	247 x 255	4	option	open	2 / 3	4 - 5 - 6 - 8	70
MAS3	180	200	325 x 190	4	standard	knives staggered	2 / 8 x 3	4 - 5 - 6 - 8	80
MAS4	180	200	420 x 190	4	standard	open	2 / 3	4 - 5 - 6 - 8	110

* Depending on the nature, shape and density of products to be processed. Under manual feeding conditions, tests for the determination of the throughput were carried out with PE/PP caps.