

# Granulators RSP 15 Series



▶ [English](#)

Versatility and ruggedness are the main characteristics of Piovan RSP 15 series granulators. The special geometry of the rotor allows the maximum performance to be obtained: a quality regrind with minimum energy requirement. Maintenance and cleaning operations are fast and safe for the operator.



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## RSP 15 Series Granulators

Piovan's RSP 15 series granulators are designed for recovery of defective pieces and sprues in a closed circuit beside the injection moulding machines. The four models in the range are characterised by a rotor with a 150 mm diameter and length ranging from 150 mm to 375 mm, with multiple staggered knives featuring scissor-like cutting action.

### Quality of the regrind

The special geometry of the rotor ensures a quality regrind with no dust and of uniform size. The angle of the knives guarantees a clean and precise cutting action. Two lateral discs running with the rotor eliminate friction of the material to be ground against the chamber sides, avoiding deformation from stress.

The diameter of the holes of the screen, which is made out of stainless steel, varies from 4 mm to 8 mm depending on the requirement (different diameters available on request). The granulators are also ideal for just-moulded pieces. The granulation chamber is available in a nitrated version for application with particularly abrasive or glass fibre materials.



Staggered blades to guarantee accurate and clean cutting action

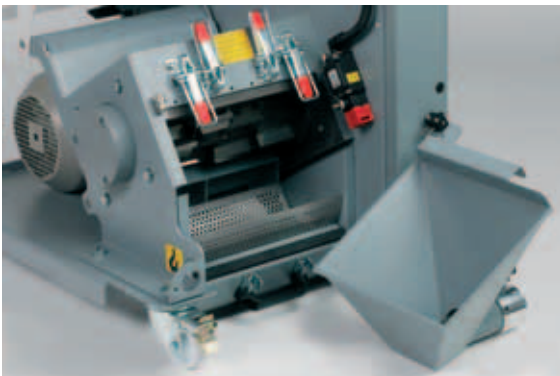
### Silent functioning

The progressive cutting action of the rotor contributes to the reduction of noise levels. The entire hopper is enclosed in soundproofing panels which guarantee extremely reduced sound levels, below 80 dB(A) for most polymers used.

# RSP 15 Series Granulators

## ▶ Safety for the operator

The distance between the hopper inlet and the rotating knives prevents any risk of accidental contact. The wide hopper inlet and the internal design of the hopper make the material free fall, with no blockage or material backflow. Two blocking safety devices protect the operator. The granulator functions only once all the safety devices have been re-activated.



Hopper height of 1230 mm with direct extraction system

## ▶ Easy cleaning

The cleaning operations for material change and normal maintenance are fast, simple and safe for the operator. To access the granulation chamber, it is sufficient to un-hook some hinges, open the hopper, extract the material collection bin and pull the screen out, without the use of tools. The rotor knives are disposable-like, quick to install and do not require any mechanical adjustment.





## Versatility

Within the numerous solutions available, it is possible to personalize the configuration for the unit to fulfil any specific requirement and to offer various types of hoppers or regrind extraction systems:

### Hopper

- > height 1230 mm
- > height 1000 mm
- > height 1100 mm (in the version with back feeding)

### Feeding

- > manual
- > robot
- > conveyor belt

### Extraction

- > direct
- > inclined auger
- > cyclone and blower
- > floor stand

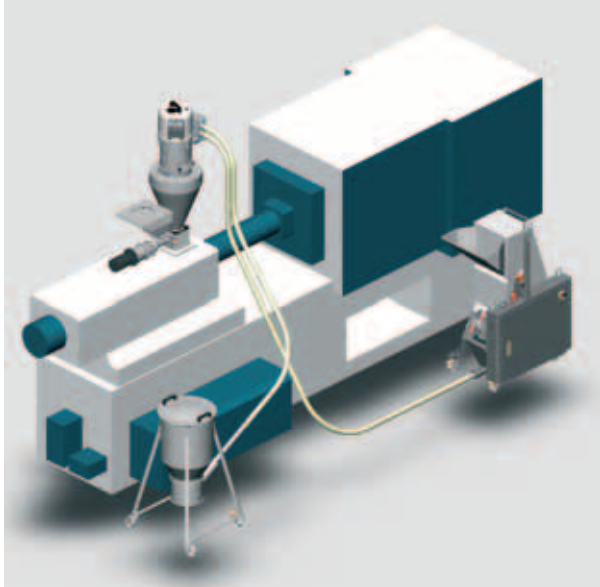
### Screen

- > diameter 4, 5, 6, 8 mm
- > diameter 6 mm for thin sprues

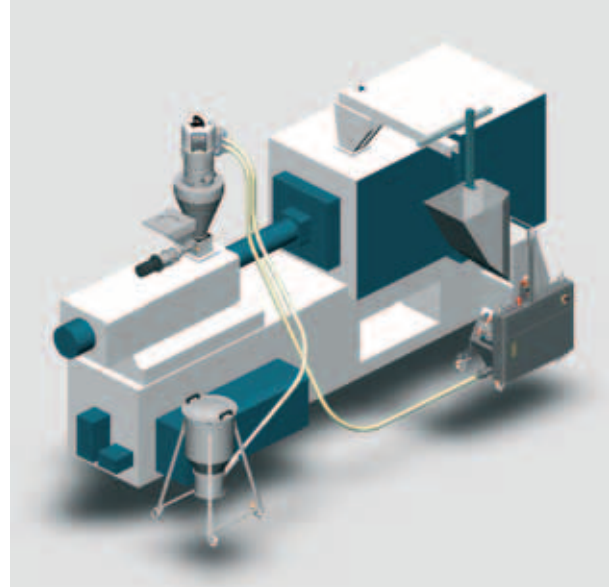


Hopper height of 1000 mm with inclined auger

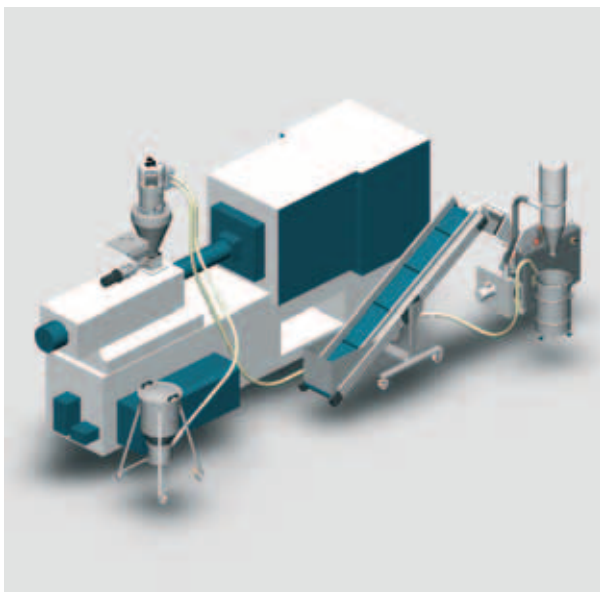
# RSP 15 Series Granulators



Hopper height of 1230 mm with direct extraction system



Hopper height of 1230 mm with funnel for robot

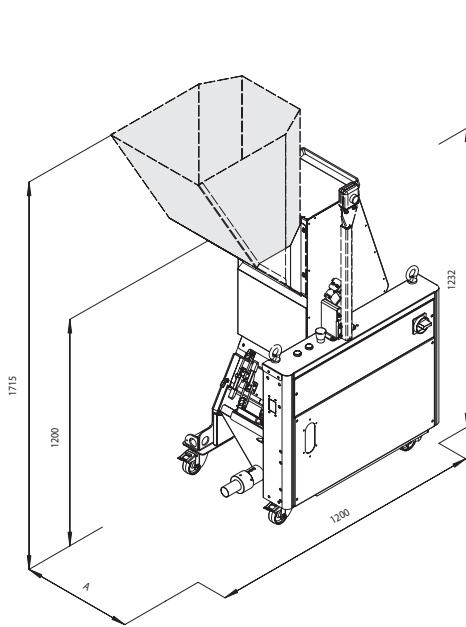


Hopper height of 1000 mm with conveyor belt

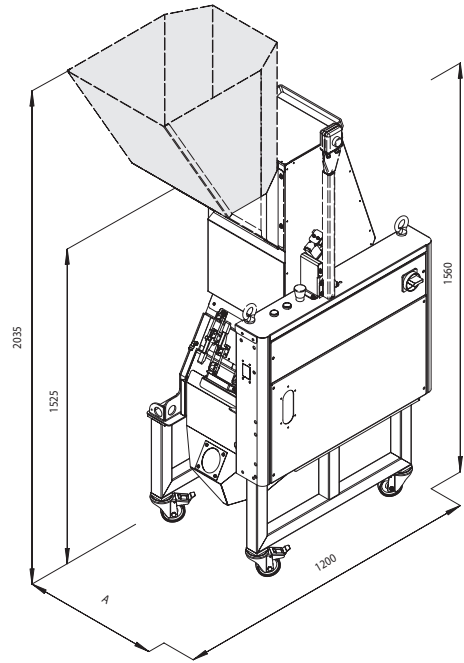
## Options

- > Nitrided granulation chamber
- > Flywheel
- > Collection bin for application with inclined extraction auger
- > Visual alarm
- > Larger feeding funnel

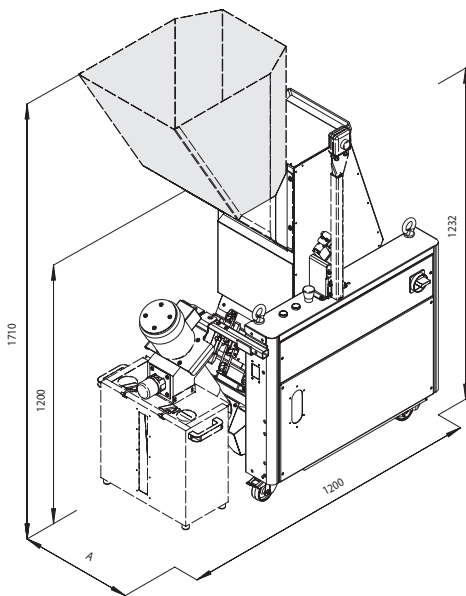
REMARKS: All parts indicated in the drawings with hatched lines are optional



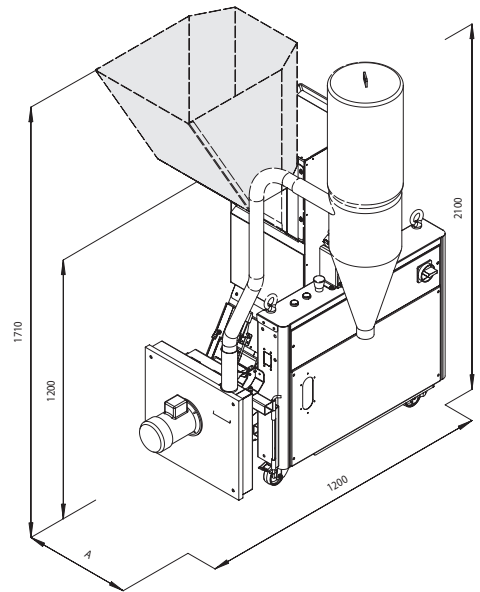
Hopper height of 1230 mm, direct extraction



Hopper height of 1230 mm, floor stand for direct extraction

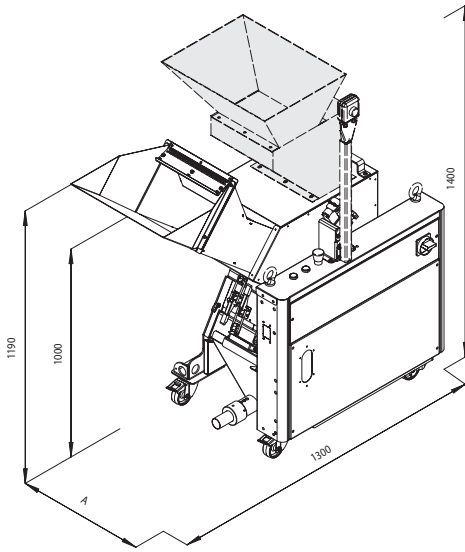


Hopper height of 1230 mm, inclined extraction auger

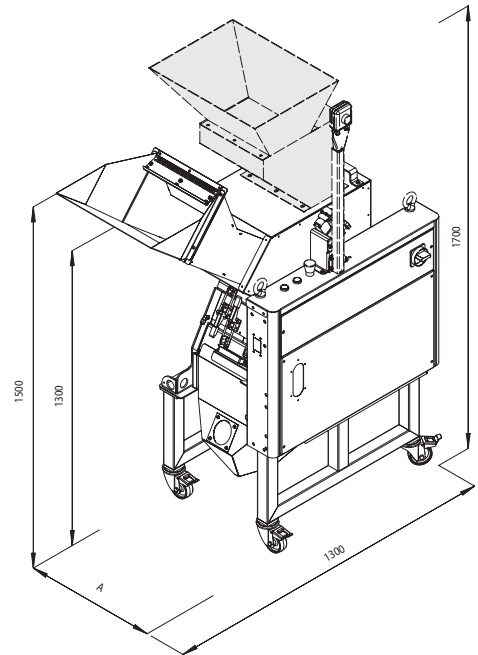


Hopper height of 1230 mm, cyclone extraction system

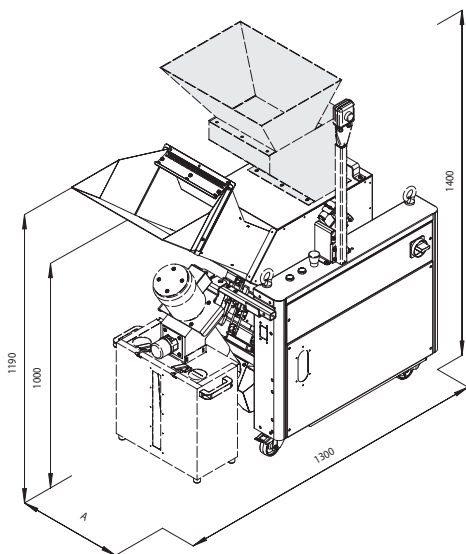
# RSP 15 Series Granulators



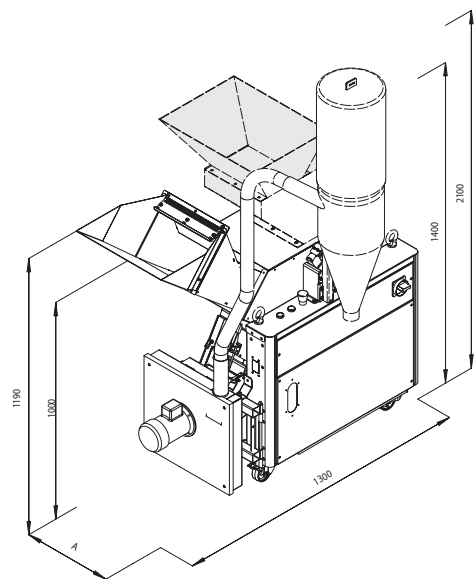
Hopper height of 1000 mm, direct extraction



Hopper height of 1000 mm, floor stand for direct extraction



Hopper height of 1000 mm, inclined extraction auger



Hopper height of 1000 mm, cyclone extraction system

Technical Data		RSP 1515	RSP 1523	RSP 1530	RSP 1538
Granulation chamber	mm	150x150	150x225	150x300	150x375
Hopper inlet	mm	150x150	150x225	150x300	150x375
Rotor diameter	mm	150	150	150	150
Fixed knives	n.	2	2	2	2
Rotor knives (two-knife rotor)	n.	4	6	8	10
Rotor knives (three-knife rotor)	n.	6	9	12	15
Motor power *	kW	2.2 (6 poles)	2.2 (6 poles)   4 (4 poles)	2.2 (6 poles)   4 (4 poles)	2.2 (6 poles)   4 (4 poles)
Installed power **	kW	2.3	2.3 / 4.1	2.3 / 4.1	2.3 / 4.1
Rotor speed	rpm	190	190 / 290	190 / 290	190 / 290
Noise level	dB(A)	< 80	< 80	< 80	< 80
Dimensions A	mm	433	508	583	658
Weight ***	kg	200	235	270	300

\* Power supply: 400 V / 3 / 50 Hz

\*\* Configuration with inclined extraction auger or cyclone and blower

\*\*\* Configuration A

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