

PALLMANN

Production of flowable granules

Plast-Agglomerator, type PFV



Materials that can be processed:

Production of flowable granules with high bulk density from thermoplastic waste such as polyethylene, polypropylene, polystyrene, polyamide, polyester, PVC, ABS, XPS etc. as well as composite materials. The granules are produced without hardly any thermal stress.

Consistency of the feed material:

Film, strapping, fibers, composite materials etc. The material must be size reduced to approximately 8-10 mm before it can be fed into the Plast-Agglomerator system.

Decisive advantages:

- Excellently flowable agglomerate with high bulk density
- Material-gentle agglomeration by means of frictional heat
- Continuous process
- Fully automatic start-up in cold condition
- Low space requirement due to compact design
- Fully automatic continuous operation

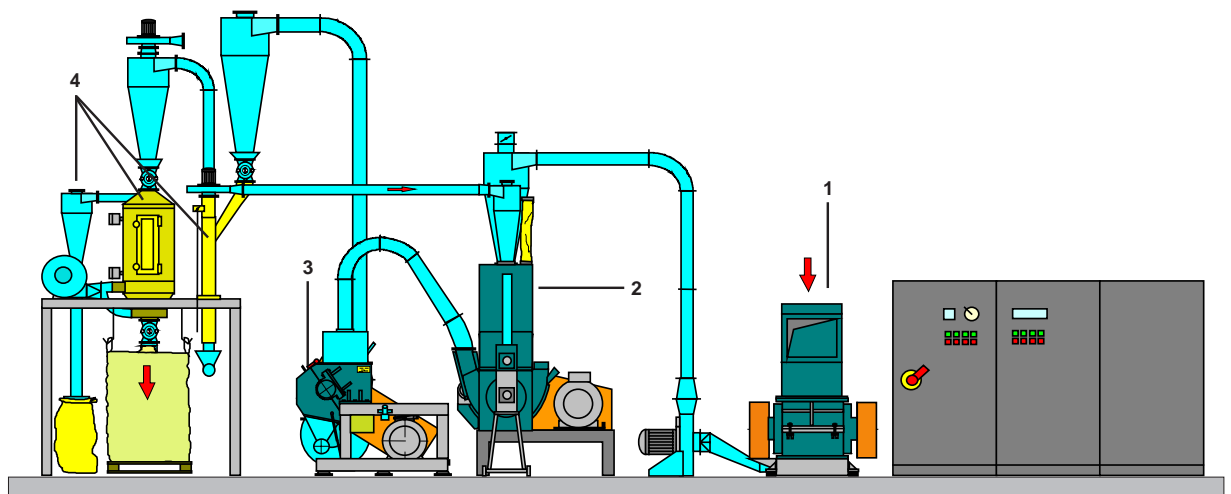
Area of application:

- Packaging industry
- Film production
- Production of PET products
- Production of plastic fibers
- Thermoplastic foam production
- Thermoplastic insulating foam production
- Recycling industry
- Compounding industry

Method of operation:

The pre-cut feed material, fed into the plast-agglomerator by means of a dosing screw is agglomerated by means of frictional heat right below the melting point of the plastic material and is pressed through the special hole size of a die. The retention time in the agglomerating chamber is only a fraction of a second. The material coming out of the die is cut by rotating knives and is transported by means of cool air of fan into the hot melt granulator where it is cut to even sized granules. The particle size is determined by the hole size of the screen installed in the hot melt granulator. The granules are then conveyed through a cascade sifter in order to separate fine particles. Depending on the customer's requirement, the system can be supplied with different options such as automatic fill level indicator, granules cooler, pressure sensors, speed control, service platforms or a base frame with pre-installed cabling.

1. Knife Mill
2. Plast-Agglomerator
3. Hot-melt granulator
4. Cooling air classifying unit



Technical data:

Type		PFV120	PFV200	PFV250	PFV315	PFV400	PFV600	
Die diameter	mm	120	200	250	315	400	600	
Cooling water consumption	l/h	400-800	700-1100	700-1100	700-1100	700-1100	900-1300	
Total capacity installed	kW	45-65	88-120	120-189	165-280	243-379	549-799	
Dimensions	Width	mm	4000	6000	7000	8000	8500	10000
	Depth	mm	2000	2300	2500	3000	3500	4500
	Height	mm	4800	5100	5500	6000	6500	8000



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