

Watering Pelletizing System

Operation and application

Range of application

Baracco BPW liquid ring pelletizing systems are modern, simple, and compact machines that guarantee excellent and quality productions, guaranteeing moderate production costs. BPW guarantees consistent pellet uniformity and its operation is not sensitive to temporary interruptions in the flow of the polymer. The optimized machine design helps minimize polymer inventory between the extruder and die and evenly distributes polymer flow to each hole in the die plate.

Typical applications include polymer recovery, post-consumer / industrial recycling, and compounding.

Benefits:

- Uniform flow of the polymer towards the die
- Quick removal of the blade and die
- Quick color changes
- Easy cleaning
- Easier commissioning and operation
- Excellent drying of the pellets
- Easy access and cleaning to the dryer
- Insensitive to process variations

Operation of Baracco pelletizing systems

The operation of the Baracco Pelletizer WaterRing is a simple but efficient cutting process. The material is melted and homogenized inside an extruder, then the material arrives at the BPW die, from which the molten material comes out and is cut by rotating blades. Subsequently, the cut pellet is transported by the water flowing over the walls of the granulation chamber to a static separator. The latter separates water from pellets, which are then transported to the vertical centrifuge SP where the product is dried. The production capacity varies according to the model and material, so as to be able to meet the needs of each individual customer.

The following table lists the different BPW models and their respective production capacity.

Model of Pelletizer	Output Capacity (kg/h)
BPW50	100
BPW100	100-400
BPW200	500 - 1000
BPW300	1000 - 3000





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Technical data

Hourly production table by material (kg / h):

Material	BPW50	BPW100	BPW200	BPW300
LDPE	100	350	1000	1500
LLDPE	100	350	1000	1500
HDPE	100	350	1000	1500
PP	100	350	1000	1200
PP carica minerale	100	350	12000	1600
PS	100	350	1200	1600
HIPS	100	350	1200	1600
MIPS	100	350	1200	1600
SAN	100	350	1200	1600
ABS	100	350	1200	1600
ABS+PC	100	300	1200	1500
SB+PVC	100	300	800	1500
SB	100	300	800	1500
PMMA	100	300	800	1500
EVA	100	250	600	800
PVC FLEXIBLE	100	350	1000	1700
TPR	100	300	700	1300
TPU	100	300	700	-
PC	100	350	8000	-