

PELLETIZING & PULVERIZING SYSTEMS ›

› STRAND PELLETIZING



EBG

Dry-cut belt conveyor pelletizing system



The belt conveyor pelletizing system EBG is specifically designed for the compounding of water-sensitive or highly filled (> 60 %) or fragile products. Variable system configuration permit a perfect adaptation to the product to be processed. Using the belt conveyor, even elastic and very flexible polymers may be handled easily and efficiently.

Your benefits

- Wide processing window
- Very slow drawing speed possible, starting at 8 m /min
- Strand cooling by air, water or both
- Due to linear pelletizer feed, no strand breaks
- Processing belt adaptable to different pelletizing heights
- Retro-fitting to existing pelletizing lines possible

Instead of being conventionally extruded into a water bath, the polymer strands are extruded directly onto a plastic or steel conveyor belt, which carefully draws the fragile strands to the pelletizing unit. This controlled drawing of the strands while they are still in a molten state prevents breaks in the strands and enables them to be directly fed into the pelletizer, where they are cut into uniform pellets. Depending on the application, the strands may be cooled with air, water, or both. Where water cooling is used, the SE air knife can be used for efficient dewatering. In combination with dry cut strand pelletizers from the PRIMO E, PRIMO S or PRIMO^{plus} series, the integrated system produces cylindrical pellets of the finest quality, ideally suited for further processing.

Applications

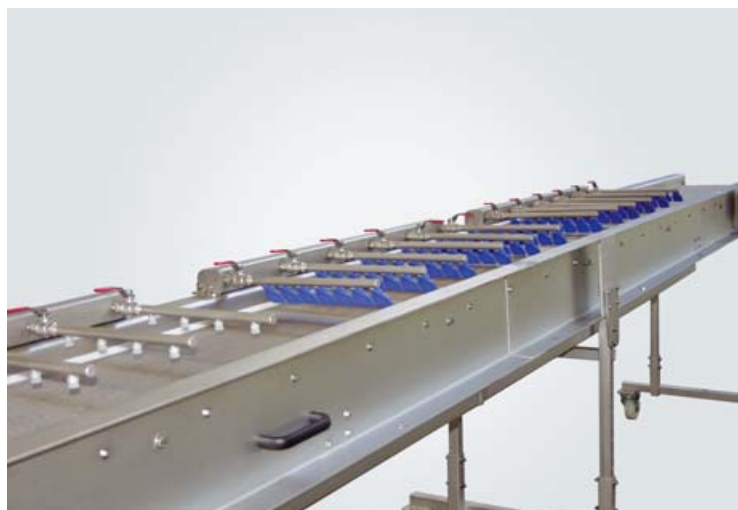
- Water-sensitive polymers, e.g. WPC
- Elastomers TPU, TPE, EVA
- Starch-based polymer, nawaro
- Highly filled products (> 60 %)
- High-temperature thermoplastics, e.g. FEP, PEEK, PPA, PPS
- Metal-filled compounds

Conveyor belt section:

- Choice of belt widths: 250 mm for throughput capacity up to 1,000 kg/h, or 400 mm for up to 2,000 kg/h
- Choice of belt materials: Plastic belts for low process temperatures (< 120 °C), steel belts for products processed at higher temperatures
- Open-mesh band material is highly permeable to both air and water
- Adjustable nozzles for air or water cooling



View of the conveyor belt section



Integrated EBG system with conveyor belt, air knife and strand pelletizer

Technical data:	EBG 60	EBG 100	EBG 200
Strand pelletizer::	Primo 60	Primo 100	Primo 200
Belt type:	STB 250	STB 250	STB 450
Operating with belt::	250 mm	250 mm	450 mm
Belt motor power::	0.55 kW		
Line speed:	8-80 m/min		
No. of strands (at 3mm pellet diameter):	5-8	10-20	20-40
Length of conveyor belt:	3, 5 or 7m		
Throughput at density 1.4 kg/dm ³ :	100-300 kg/h	200-800 kg/h	400-1,600 kg/h