

BKG[®] CrystallCut[®]

Underwater Pelletizing System

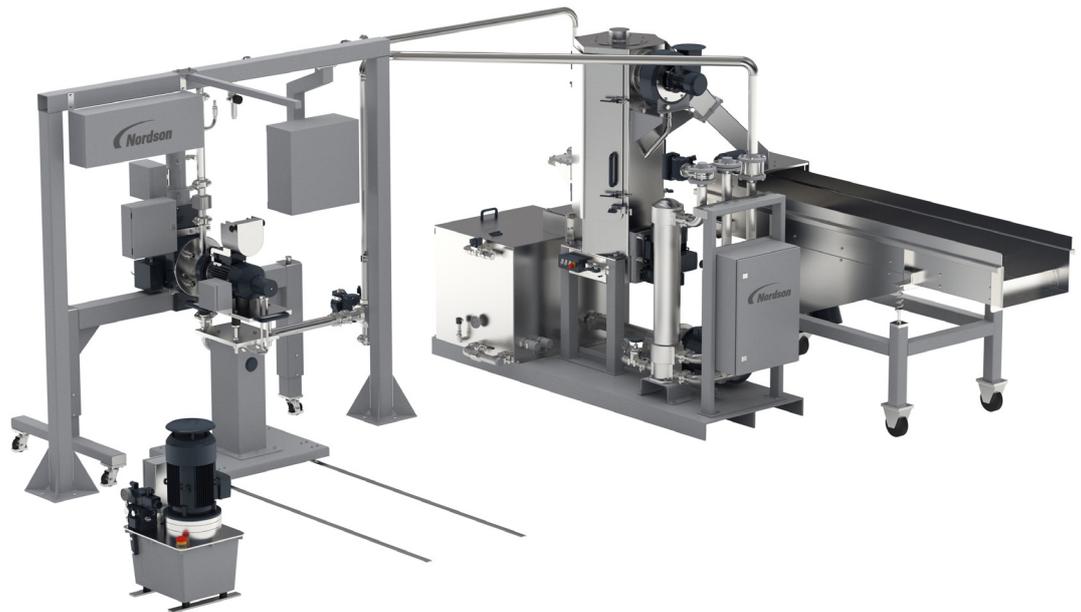
Pelletize and crystallize in one step - no additional heating required

Processes:

- Polymerization
- Recycling

Materials:

- PET
- PLA



Features:

- Crystallization by use of the energy present within the pellets
- Homogeneously crystallized pellets

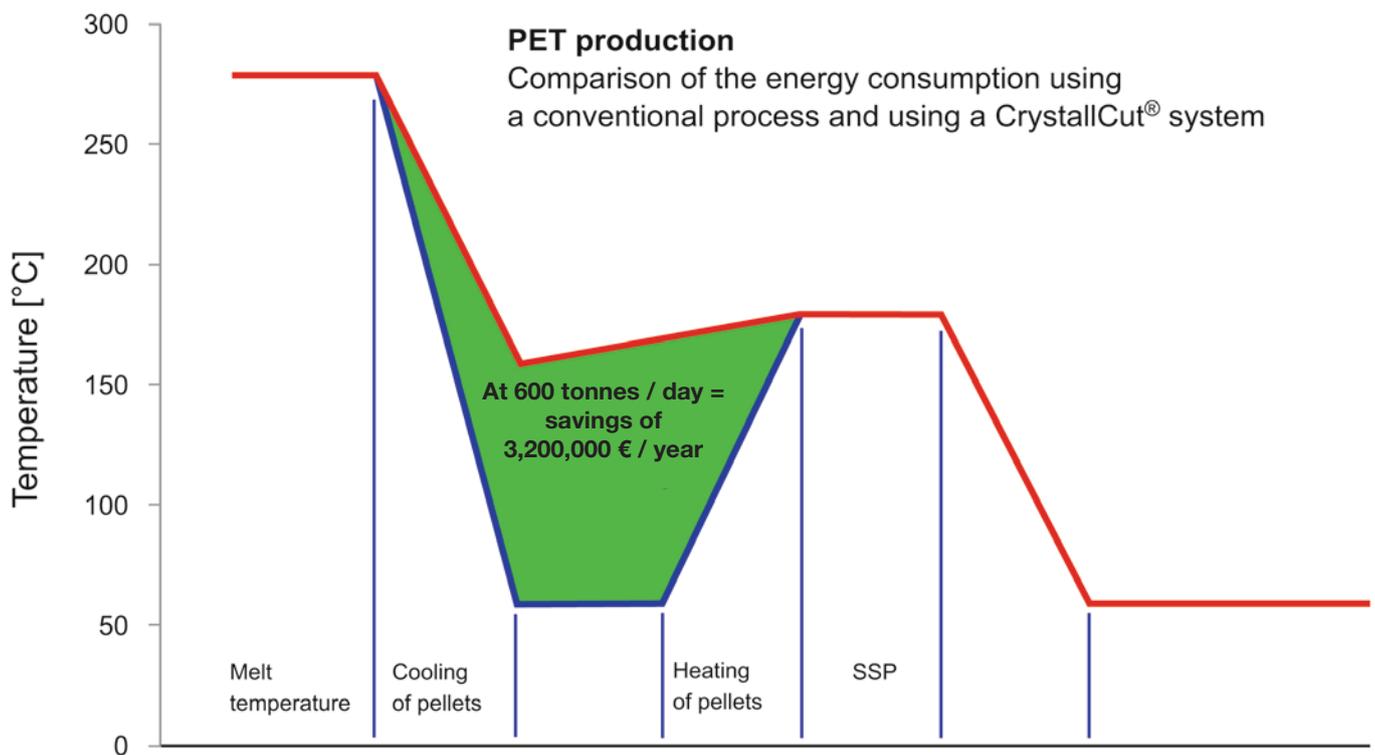
Benefits:

- Viscosities between IV 0.4 und 0.9 dL/g (PET)
- Crystallization up to 40% and above without additional use of energy (virgin PET)
- Complete, continuous process
- Verifiable reduction in production cost
- Lower energy consumption compared to conventional crystallization
- Direct conveyance into SSP is possible
- The product is almost dust free
- No sticking together of the PET pellets
- Increased bulk density of PET pellets by up to 8%
- Quick and easy start-up and change of product



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BKG CrystallCut[®] was developed to produce free flowing crystallized PET granulate, gently and economically. BKG CrystallCut[®] allows for the pelletizing and crystallization of PET in ONE single process step without the need for additional energy. In the conventional crystallization process, PET granulate has a tendency to crystallize with a lack of homogeneity – the amorphous amount is too high and the degree of crystallization very low. In addition, the conventional crystallization process requires a significant cooling and reheating of the pellets which contributes to a high degree of energy consumption.