X-COMPOUND
A TROESTER COMPANY

Peroxide Crosslinkable Polyethylene

Application

To meet the outstanding requirements on insulation materials for medium and high voltage power cables, peroxide crosslinkable Polyethylene compounds are first choice. These compounds need to fulfill exceptional demands in quality, such as cleanliness, to achieve the requirements on dielectric strength and lifetime. The manufacturing process is split into two steps. In the first step, the polymer is mixed with additives (except peroxide) to a homogeneous compound and conveyed through a high-performance filter system to assure the highest possible purity degree. In the second step, the compound is transferred into an inline mixing system, in which liquid peroxide is added. The condition of the peroxide absorption process is exactly controlled. By this approach highest qualities of crosslinkable Polyethylene can xbe achieved. The process as described allows the production of super clean material with throughput rates up to 4000 kg/h.

Benefits of Continuous Kneaders

- Gentle material processing and excellent mixing due to the unique principle of operation.
- Modular setup and maximum flexibility
- Excellent self-cleaning
- Homogeneous Temperature distribution in Kneader and Extruder due to liquid medium temperature control
- Possibility to inject liquids into the processing unit at variable positions

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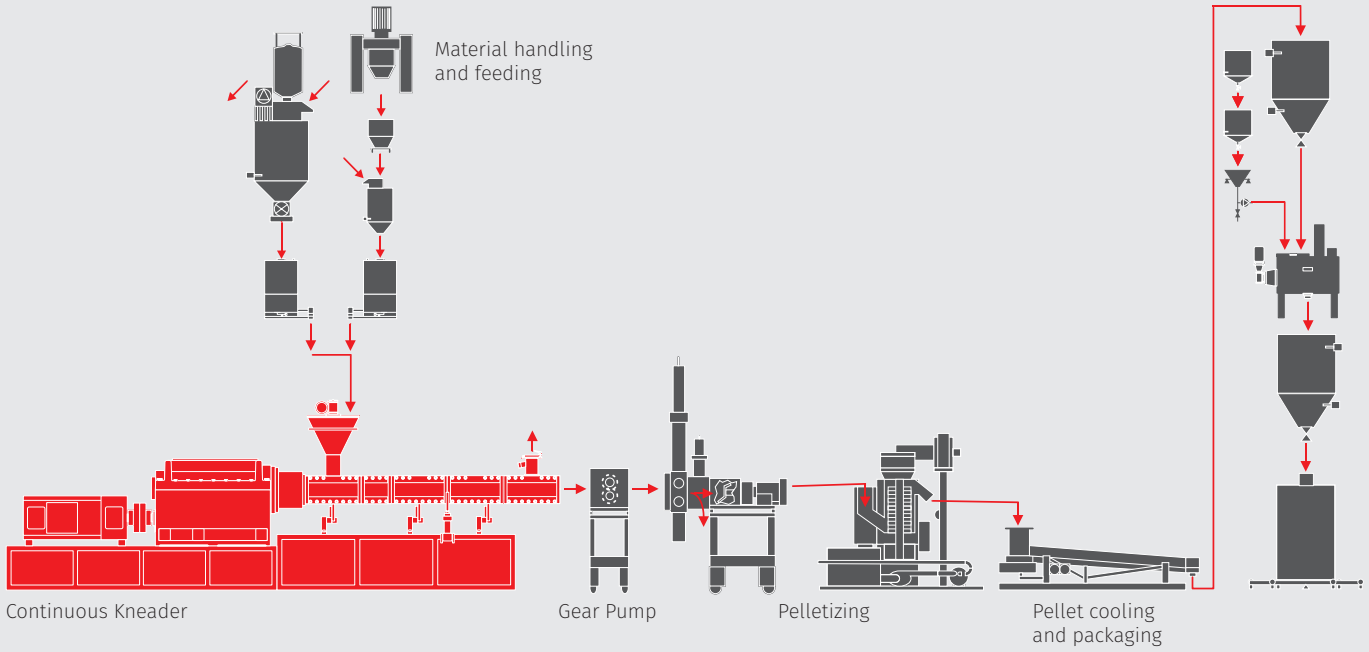
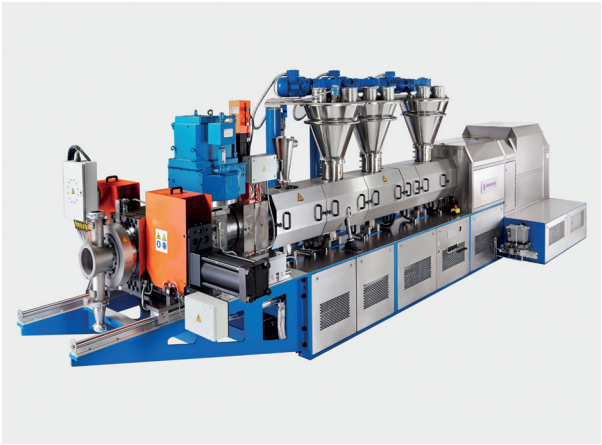
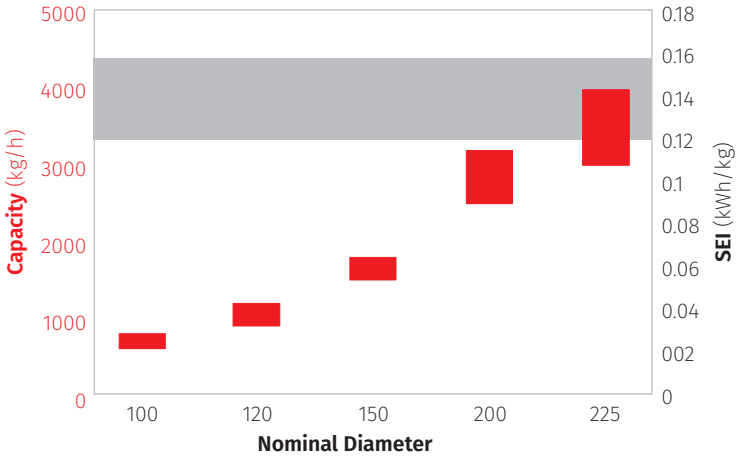
Flow Sheet



Kneader Data





Kneader	**Nominal Diameter**	**H** (mm)	**B** (mm)	**L** (mm)	**Throughput** (kg/h)	**SEI** (kWh/kg)
CK 100	100	2,000	750	5,220	600 – 800	0.12 – 0.16
CK 120	120	2,300	800	6,000	900 – 1,200	0.12 – 0.16
CK 150	150	2,700	900	7,000	1,500 – 1,800	0.12 – 0.16
CK 200	200	3,000	1,000	8,160	2,500 – 3,200	0.12 – 0.16
CK 225	225	3,300	1,100	10,500	3,000 - 4,000	0.12 - 0.16

The data provided in this document are for information purposes only. Actual dimensions, throughputs and energy inputs are depending e.g. on raw materials and may vary.