X-COMPOUND
A TROESTER COMPANY

Halogen Free Flame Retardent Compounds (HFFR)

Application

In recent years the demand for halogen free flame retardant (HFFR) compounds increases steadily. Especially in the field of electric cables and components in electrical appliances there is a strong need of these materials. The requirements include low smoke emissions, low generation of corrosive and toxic gases and low fire propagation characteristics. To achieve these requirements economically, flame retardants need to be dispersed well in a polymer matrix.

The unique principle of operation let us control exactly the energy input into the material, achieving maximum dispersion of the flame retardant and avoiding thermal degradation of the sensitive material.

Benefits

- Gentle material processing and excellent mixing due to the unique principle of operation
- Excellent Low wear
- Easy access to process unit by smart design
- Homogeneously controlled temperatures for all surfaces in contact with product
- Injection of fluids straight into the process section

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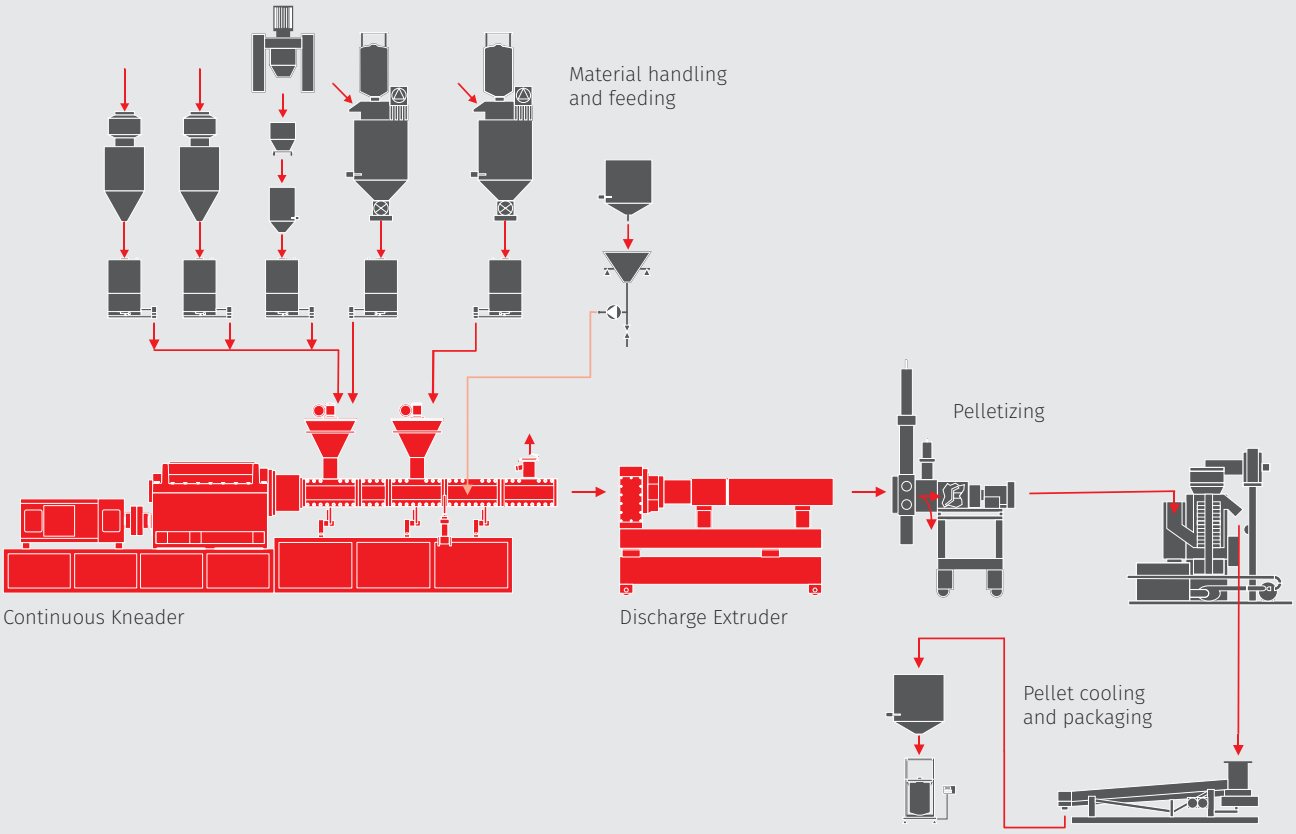
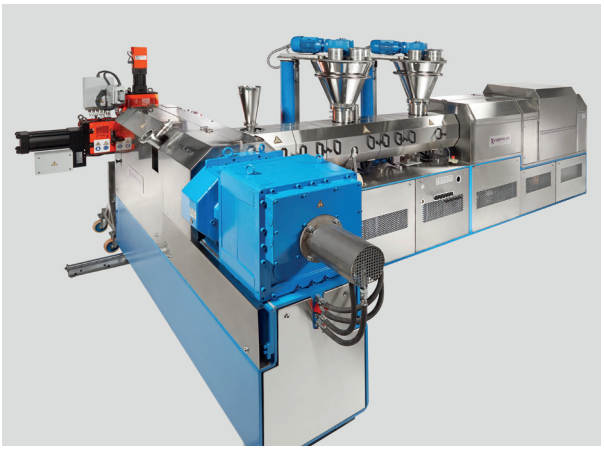
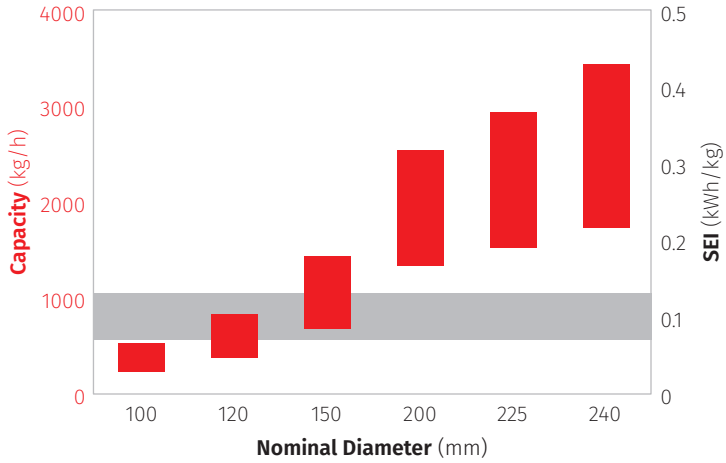
Flow Sheet



Kneader Data





Kneader	Nominal Diameter (mm)	H (mm)	B (mm)	L (mm)	Throughput (kg/h)	SEI (kWh/kg)
CK 100	100	2'000	3'100	5'430	300-600	0.08-0.14
CK 120	120	2'300	3'400	6'256	450-900	0.08-0.14
CK 150	150	2'700	3'800	7'350	750-1'500	0.08-0.14
CK 200	200	3'000	4'700	8'580	1'200-2'600	0.08-0.14
CK 225	225	3'300	5'000	9'496	1'600-3'000	0.08-0.14
CK 240	240	3'500	5'300	10'080	1'800-3'500	0.08-0.14

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.