



Application

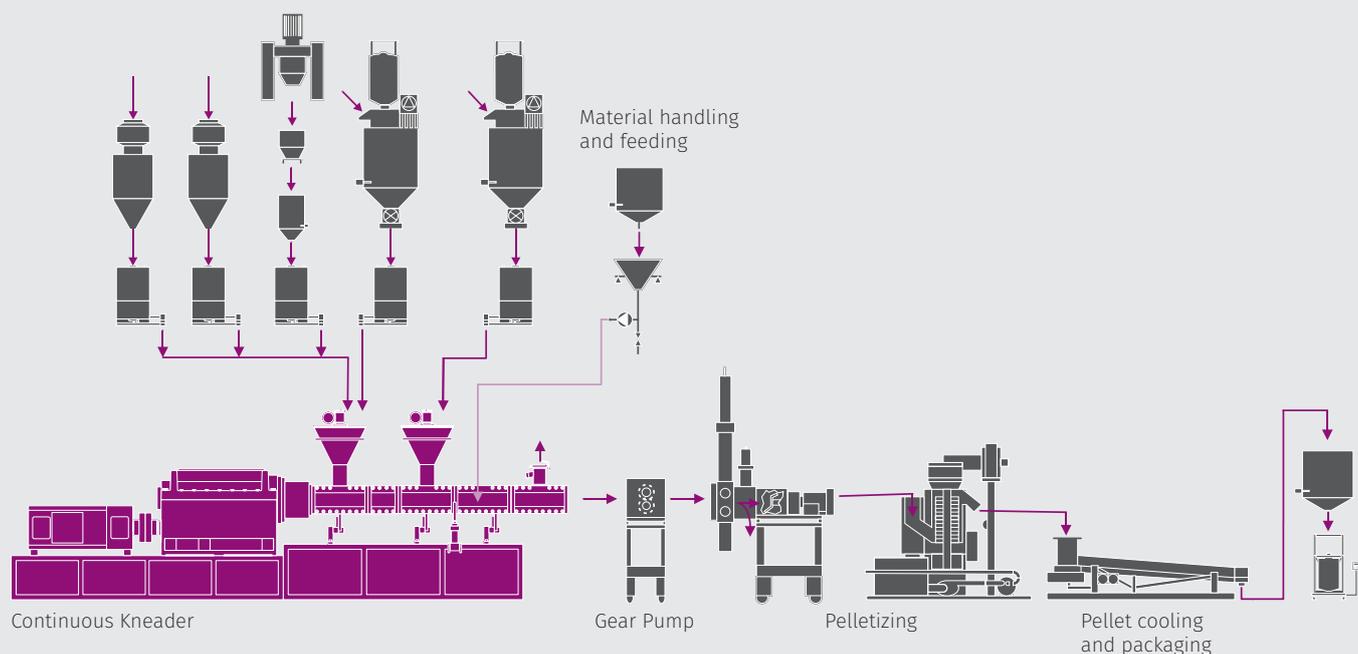
Masterbatches are concentrates of additives, pigments, or fillers in a polymer. They are designed to provide a maximum ease of handling with almost no dust contamination of the user's facilities. An optimal dispersion of the additives, pigments, or fillers are required to make masterbatches as user friendly as possible. Therefore, it is essential to achieve exceptional mixing performances and gentle material processing at the same time. Gentle processing is essential to keep the structure of the functional pigments, additives, or fillers and thus, to achieve maximum performance with an optimum content of the resins.

We can exactly control the energy input into the material, and monitor the temperature profile along the kneader process length. Thus, we find the optimum balance of gentle processing and intensive mixing.

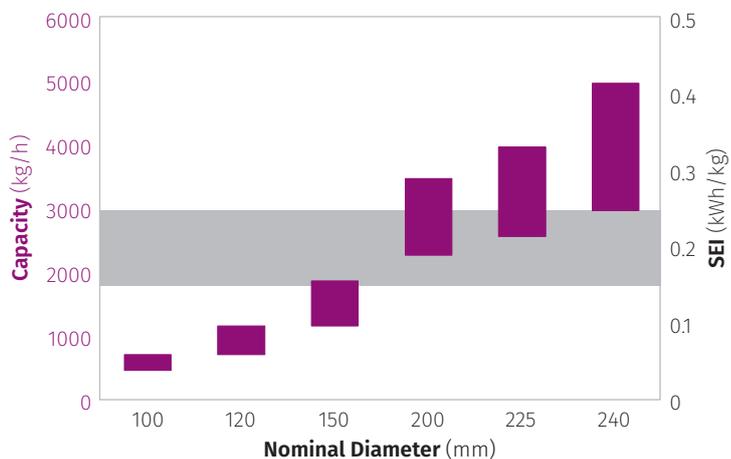
Benefits

- Gentle material processing and excellent mixing due to the unique principle of operation.
- Minimum wear due to low pressure processing unit
- Highest filler loadings achievable
- Injection of fluids straight into the process section
- Narrow residence time distribution

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	750	5'450	500-750	0.15-0.25
CK 120	120	2'300	800	6'460	750-1'200	0.15-0.25
CK 150	150	2'700	900	8'050	1'200-1'900	0.15-0.25
CK 200	200	3'000	1'000	9'900	2'300-3'500	0.15-0.25
CK 225	225	3'300	1'100	11'060	2'600-4'000	0.15-0.25
CK 240	240	3'500	1'200	11'800	3'000-5'000	0.15-0.25

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.