

Application

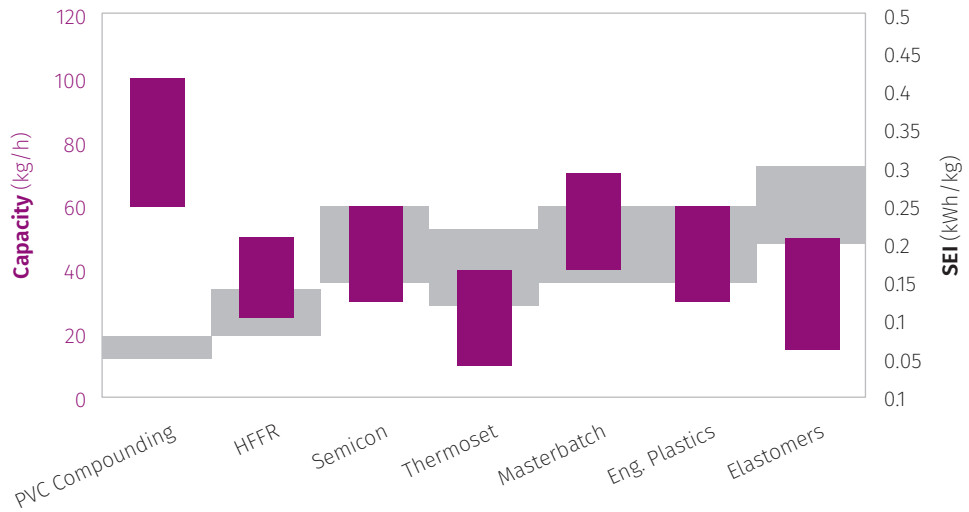
Modern polymer formulations are highly adapted to the compounding process to achieve maximum performance at best economic conditions. This requires lab compounding units which allows to scale-up lab results to achieve a minimum time-to-production.

The X-Compound Lab Continuous Kneader CK45 was designed to be just as similar as possible to our production size equipment. Unique features comprise the possibility to use heat control units for the barrel and even more to control the temperature of both Kneader and discharge extruder screw.

Benefits

- Gentle material processing and excellent mixing due to the unique principle of operation
- Modular setup for optimum flexibility
- Homogeneously controlled temperatures for all surfaces in contact with product
- Excellent self-cleaning
- Narrow residence time distribution
- Proven robust engineering
- Easy access to process unit by smart design

Kneader Data



Application	Throughput (kg/h)	SEI (kWh/kg)
PVC Compounding	60-100	0.05-0.08
Halogen Free Flame Retardant Compounds (HFFR)	25-50	0.08-0.14
Semiconductive Compounds	30-60	0.15-0.25
Thermosets, Powder Coatings, Toner	10-40	0.12-0.22
Masterbatches	40-70	0.15-0.25
Engineering Plastics	30-60	0.15-0.25
Elastomeric Compounds	15-50	0.20-0.30

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.