

Extruder and Spheronizer

Applications:

EPS extrusion - spheronization units are highly efficient and precise to prepare placebo and/or drug pellets. It is ideal equipment for pellets in high volume production in pharmaceutical, food and chemical industry and other industries.

Features:

1. Unique temperature control: the only equipment in China with internal and external temperature control. It provides constant material temperature and therefore quality process control.
2. Four-in-one equipment: extrusion, spheronization, drying, and coating
3. Higher coating efficiency than traditional fluid bed and centrifugal coating methods.
4. The unique design of airflow control and material moisture adjustment system is widely applied to various pelleting processes.
5. Multiple plate pore sizes are optional for preparing 0.2-3.0mm pellets.
6. Pelleting time is short. Production efficiency is high.
7. Pelleting is uniform and yield is high.
8. GMP standard, three-level security authorization, parameters controlled by PLC, auto-save for all data which can be exported by USB devices.



Extruder and Spheronizer

Pilot to Production Scale Models and Technical Data

Model	LTAES 380	LTAES 500	LTAES 700	LTAES 1000
Production Capability (kg/h)	10-30	20-50	30-80	80-200
Pellet dia. (mm)	0.2-3.0 and above			
Extrusion Speed (rpm)	5-50	5-50	5-50	5-50
Spheronizing (rpm)	100-1000	100-800	100-700	100-500
Extruder dia. (mm)	100	150	200	150 (double-screw extrusion)
Spheronizer plate dia. (mm)	380	500	700	1000
Total Power (kw)	5.5	7.5	10	20
Power (V)	380	380	380	380
Dimensions (mm)	1300×1100×1600	1500×1300×1750	1800×1500×1750	2100×1700×1800

Lab to Pilot Scale Models and Technical Data

Model	E-25	Mini S	Mini 250	Mini 250-C
Production Capability (kg/h)	0.2-0.5	60mm (5-20g/batch) 80mm (20-50g/batch) 120mm (50-100g/batch)	1-3 (Interchangeable spheronizer bowl)	1-3 (Interchangeable spheronizer bowl)
Coating Capacity (kg/batch)	—	—	—	0.3-1.5
Pellet dia. (mm)	0.3-3.0	0.3-3.0	0.2-3.0	0.2-3.0
Extrusion Speed (rpm)	Digital Speed Control	—	5-50	5-50
Spheronizing (rpm)	—	Digital Speed Control	100-2000	100-2000
Extruder dia. (mm)	25	—	50	50
Spheronizer plate dia. (mm)	—	60/80/120	250	250
Coating Temp. (°C)	—	—	—	Room Temp. -90
Total Power (kw)	0.12	0.12	2.2	5.0
Power (V)	220v、50Hz	220v、50Hz	220v、50Hz	380v、50Hz
Dimensions (mm)	270×200×300	260×260×460	900×550×1200	1500×900×1400

EPS Extruder and Spheronizer Provides:

- Batch Size Flexibility
- Easy Scalability
- Maximum Processing Control
- Excellent Handling and Friendly User Technology
- Easy to Changeover and Cleaning
- Minimizes Downtime
- Economical