

Roller Compactor System

Applications:

EPS roller compactor is a densification and dry granulation machine. It features all-in-one; grinding, granulating and milling.

Features:

1. Vertical and horizontal feeding.
2. Constant pressure control system: pressure is a key factor in granulation process. The use of the constant pressure system ensures repeatable particle density and compressibility.
3. Constant torque control system: the extrusion feeder is designed by EPS. It adopts a synergic control between torque and the servomotor to provide accurate torque force applied and to adjust rotation speed automatically. This design ensures even, continuous, and stable feeding process.
4. Double-roller single motor drive system allows both rollers to move simultaneously.
5. Two-stage granulation method uses various screen sizes to obtain specific particle sizes.
6. GMP standard, three-level security authorization, parameters controlled by PLC, auto-save for all data which can be exported by USB devices.



Roller Compactor System

Lab to Pilot Scale Models and Technical Data

Models		Mini-DC	DC-5	DC-15
Total Power (kw)		1.5	4.5	7
Production Capability (kg/h)		0.5-1	1-5	3-15
Speed (rpm)	Extruder	10-300		
	Roller	1-15		
	First Granulaor	50-300		
	Second Granulator	50-600		
Roller Size (mm)		80×15	80×25	200×35
Roller Pressure (KN)		0-30	0-100	0-150
Screen Size (mm)		0.6、0.9、1.2、1.5、2.0、2.5、3.0、3.5 (choose)		
Dimensions (mm)		1100×700×900	1300×800×1200	1800×900×1600
Equipment Weight (kg)		150	300	800

Pilot to Production Scale Models and Technical Data

Models		DC-50	DC-100	DC-200	DC-500
Total Power (kw)		11	20	30	50
Production Capability (kg/h)		5-50	10-100	30-200	50-500
Speed (rpm)	Extruder	10-300		10-150	
	Roller	1-15		1-30	
	First Granulaor	50-300		50-500	
	Second Granulator	50-600		50-1000	
Roller Size (mm)		250×50	350×50	350×50	350×50
Roller Pressure (KN)		0-210	0-350	0-500	0-1000
Screen Size (mm)		0.6、0.9、1.2、1.5、2.0、2.5、3.0、3.5 (choose)		0.6-10 (choose)	
Dimensions (mm)		2000×1000×2000	2300×1100×2500	2500×1300×2800	2800×1500×3000
Equipment Weight (kg)		1000	1500	2000	3000

EPS Roller Compactor System Provides:

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