

MRCH200 Roller Compactor



MRCH200 Roller Compactor is newly developed equipment with integration of the extrusion, pulverizing and granulating. It is widely applied in the pharmaceutical, food and chemical industry with the feature of simple process, high output and easy cleaning, etc.

Features:

- Design of GMP
- High quality stainless steel construction
- Fully sealed operation condition
- Adjusted by inverter
- Compact structure, easy for cleaning and maintenance
- PLC control, POD display, easy operation

Main Technical Data:

Model	MRCH200
Roller size $\Phi \times W$ (mm)	200x75
Granularity (mm)	0.4-1.5
Output (kg/h)	30-200*
Max. Pressure (kN)	138
Screw Feeder Rotating Speed (rpm)	20-102
Roller Rotating Speed (rpm)	8.8-38
Granulating Rotating Speed (rpm)	45-200
Total power (kW)	12
Vacuum Relief Pressure (bar)	2-5
Rolling Temp. (°C)	<40
Overall Dimension L x W x H (mm)	1,210x1,280x2,200
Weight (kg)	1500

Filling and Feeding

The built-in blender is in filling mechanism with natural vent channel, which is convenient for material transmission. The horizontal double screw feeder could convey the raw material uniformly. The vacuum vent system could increase the material compactability and output.

Extrusion Molding

The circulating cooling system and adjustable temperature of roller guarantee the drug property of thermo-sensitive substance. The water cooling channel is inside roller, the negative circulating cooling system ensure no leakage. The forming pressure is adjustable.

Two-grade Granulating

Pre-crushing knife can reduce the content of fine powder before granulating. The two-grade granulating mechanism guarantees the powder's uniformity.

Reliable Electrical System

Advanced control principle and reliable electrical parts ensure the accurate function realization of program and interlock protection.

Stable Hydraulic System

Static pressure-keeping system can realize the stability and low noise in running, which is assembled by world leading brand hydraulic parts and accumulator.