

Cube Mixer CM-series



PMS CUBIC MIXER® is a tumbling mixer, suitable for gentle blending of dense powder and granules. Each ingredient should be in significantly different in proportion. It has been recognized as an economical tumbler with its durability and minimum maintenance requirement. Our product series range from laboratory scale up to production scale, with working capabilities 13 to 500 liters.

Theory of Operation

PMS CUBIC MIXER® is a tumbling mixer which consists of cubic form of container. The cube is mounted so that it can be rotated about an axis. The resulting tumbling motion is accentuated simply by virtue of container shape and by means of baffles. The efficiency of tumblers is highly dependent on the rotation speed.

All contact parts are made of stainless steel SUS 304. Product contact parts are completely separated from technical components, assuring oil and grease free in the operating chamber. Secured inlet and outlet ports ensure dust tight operation.

For process control, mixing time can be set to determine process end-point. In addition, process could not be started unless safety guard is firmly closed.

Application:

- Pharmaceuticals
- Food
- Agricultural
- Chemical

Benefit:

- cGMP Compliance
- Economical
- Low Power Consumption
- Durable machine components
- Easy to Operate, Clean and Maintenance

Technical Data:

	CM 10 (Lab)	CM 30	CM 60	CM 100	CM 200	CM 350	CM 500
Capacity (kg)	6-9	16-22	30-44	50-75	110-154	180-250	250-350
Max Working Volume (liter)	13	32	62	108	220	364	500
Cube Face Dimension (mm)	300	400	500	600	760	900	1
Driving Unit (KW)	0.37	0.75	1.1	1.5	3.75	5.6	7.5

Standard:

- All contact parts made of stainless steel SUS 304
- One set of baffle bar for model CM 100 and larger
- Single Speed, non-explosion proof geared motor
- Manual Charge and Discharging ports with secure locking device
- Electrical control and safety devices
- Safety guard located in front of the machine

Option:

- All contact parts made of stainless steel SUS 316
- Explosion proof motors and Explosion proof control unit
- Special design for loading system, i.e. Vacuum transfer unit or in-line operation
- Discharge height and Feature to suite specific discharge requirements or in-line operation
- Side Platform and Ladder
- Validation Document: Installation Qualification (IQ)/ Operational Qualification (OQ)