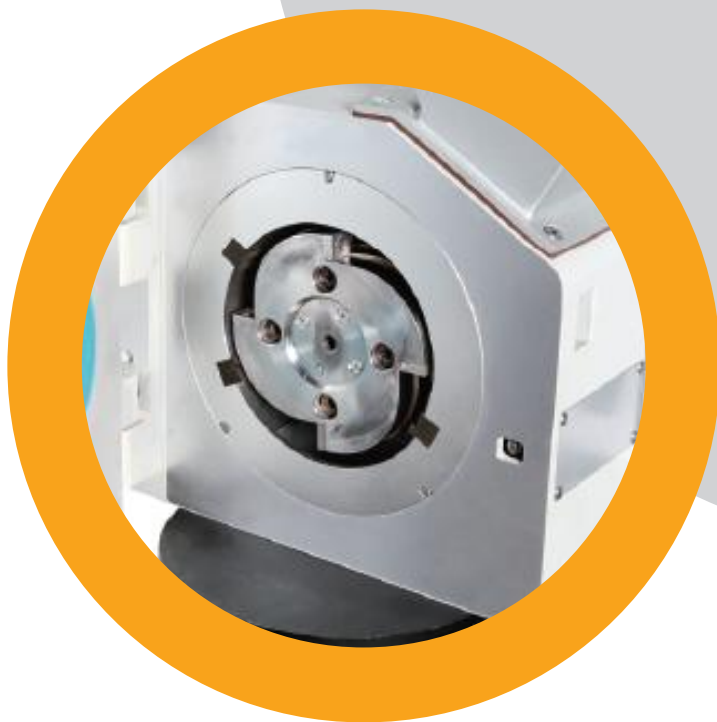


POWTEQ®



Cutting Mill **CM101**

◇ Cutting Mill CM101

Cutting Mill CM101 is suitable for various soft, tough, fibrous and hard dry samples. It can be used for batch processing and continuous coarse crushing and fine crushing.



○ Applications

CM101 can handle fibrous, tough materials, such as tobacco, leather, circuit boards and so on;

Application Examples

Before grinding		After grinding		Parameter	
				Sample	bone
				Speed setting	1800rpm
				Sample characteristic	mid-hard
				Remarks	feed size
				Time	1min
				Sample	turmeric
				Speed setting	2000rpm
				Sample characteristic	mid-hard
				Remarks	feed size
				Time	2min

○ Working Principle

The sample passes through the hopper into the grinding chamber and is cut by the shearing action between a rotor and a fixed cutting bar. When the sample size is smaller than the aperture on the sieve plate, the sample falls into the collecting bucket.



○ Techniques for achieving optimum grinding results

- For samples such as rubber and plastic, better results can be achieved by freezing or adding auxiliary materials.
- For fine grinding requirements, the large aperture bottom sieve shall be used for pre pulverization and then the small aperture bottom sieve for fine grinding.
- For flexible and heat-sensitive samples, the speed of less than 1000rpm while for the medium hard and soft samples, the speed above 1000rpm is preferred.

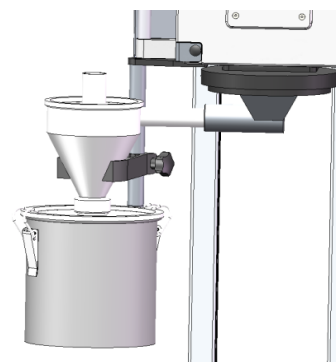
○ Features and advantages

- Equipped with crushing dust collection device to prevent cross contamination.
- It can be fixed on the floor and equipped with casters to move easily.
- With quick locking device and motor braking, it has high safety performance.
- The grinding process is rapid and produces less heat
- The size of the sample is controlled by the bottom sieve and sieve with different sizes can be selected.
- A large amount of sample can be processed continuously, ranging from a few kilograms to several hundred kilograms per hour.
- CM101 can be equipped with small sample receiver and cyclone separator, which is convenient for sample collection, chamber cleaning and heat generation reduction.



● Connect cyclone separator, small volume sample receiver

When the CM101 is used with the cyclone separator, it is suitable for handling light or small volume samples. The use of cyclone separator extends the applications of the Cutting Mills. It not only effectively solves the heat transfer problem during the grinding process so as to make cleaning easily, but also improve the uniformity and reproducibility of the grinding results.



○ Rotor

RotorA: standard rotor, for Cutting mill CM101, mainly used for crushing hard and fibrous samples (such as straw).

RotorB: 6-disc rotor, for Cutting mill CM101, mainly used for crushing medium hard, flexible and light samples (such as plastic, rubber, circuit board).

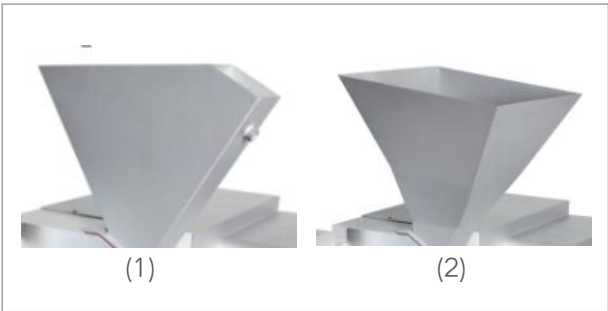


We also provide rotors and sieves made of special material for heavy-metal-free crushing.

Hopper for CM101

Two kinds of feed hopper, V type feed hopper (1) and standard feed hopper(2).(1) is suitable for block and granule samples, and (2) suitable for long strips of plant or other materials.

The feed hopper and the shell of the instrument are made of hard steel, which is ergonomically designed and easy to operate.



○ Technical Data

Feed size	≤60 × 80mm	Grinding chamber material	stainless steel, 1.1740 steel, hardened steel
Final fineness	0.1-20mm	Rated power	1.5KW
Speed	500-4000rpm	Power supply	220V , 50/60Hz
Collector capacity	0.25-30L	Instrument size	630*705*1412mm
Collector	0.25L、0.5L、1L、3L、5L、30L	Package size	1000*1000*1450mm
Peripheral speed	3.4-20.1m/s	Net weight	120kg
Sieves	0.20/0.25/0.50/1.00/2.00/4.0/6.0/8.0/10.0/20.0mm		