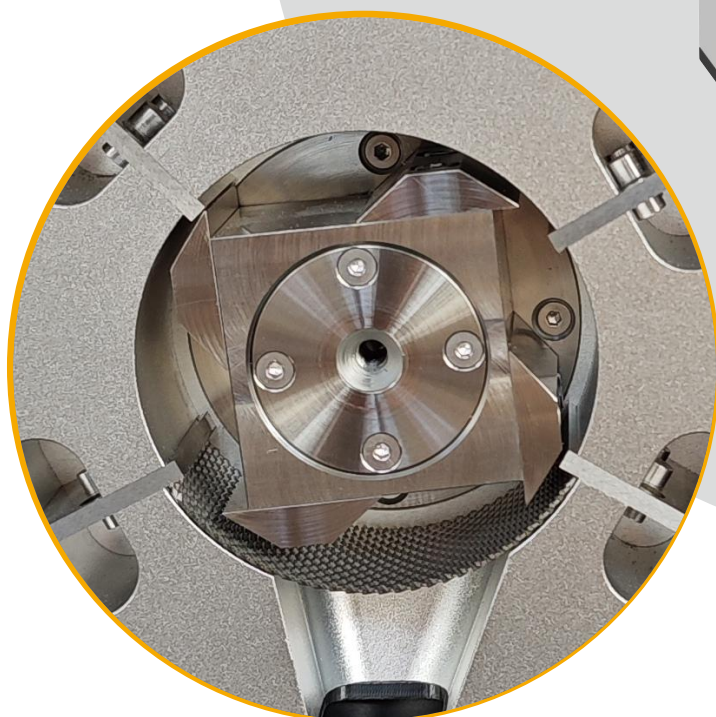


**POWTEQ®**



**Cutting Mill CM51**

◇ Cutting Mill CM51

Cutting Mill CM51 is designed to crush samples with varying brittleness and temperature sensitivity. It is an ideal equipment for sample preparation of heavy metal testing in RoHS and WEEE. It can handle samples continuously and can crush long fibrous samples in one step without pre-crushing.

○**Typical samples :** rubber, garbage, circuit boards, wood, paper, seasonings, straw, stalks, bones, feed, cables, plastics, grains, lignite, and peat, etc.



CM51

Application Examples

Before		After	
		Sample	Plant root
		Sample characteristic	Tough, dry
		Feed size	<2cm
		Time & Speed	3minutes,4500rpm
		Final fineness	0.5mm
		Sample	Protein Fiber
		Sample characteristic	Soft, fibrous
		Feed size	2cm
		Time & Speed	3minutes,3000rpm
		Final fineness	1mm
		Sample	Solid waste
		Sample characteristic	Soft, tough, dry
		Feed size	1 cm
		Time & Speed	3minutes,3000rpm
		Final fineness	1mm

## ○ Working Principle

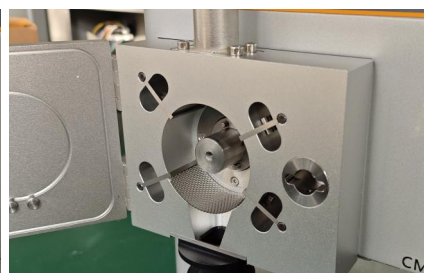
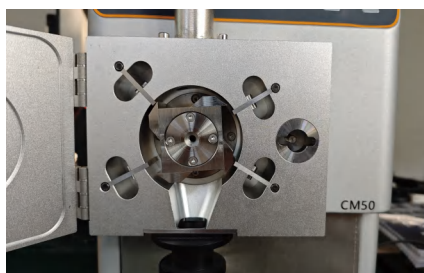
Cutting Mill CM51 functions based on strong cutting and shearing force. Samples are fed into the grinding chamber through the feed hopper. Inside the chamber, they are first crushed through the shearing action between the rotor and cutting bars. Then they are crushed again through the shearing action between the rotor and sieve. Once the sample particles are smaller than the sieve size, they are passed through the airflow from the grinding chamber into the collecting bottle.



### ○ Hopper

- Anti - splash design
- Easy to disassemble

\*The grinding chamber and hopper can be made of stainless steel, which is suitable for applications in industries such as biomedicine.



- Easy and safe to operate. The electronic safety switch prevents the instrument from starting when the door is open.
- The rotor, bottom sieve and hopper can be easily removed and installed, making it convenient to clean the grinding chamber.
- It has a powerful motor and can crush tough fibrous materials, such as garbage, circuit boards, dog chews, rubber, and plastics.
- Grinding chamber and hopper in contact with samples are made of easy - to - clean materials.

## ○ Technical data

CM51			
Feed size	< 25mm	Collecting bottle volume	250ml
Final fineness	0.2~6.0mm	Rated power	800W
Speed	500-6000rpm	Rated voltage	220V, 50/60Hz
Grinding set material	Stainless steel/ Heavy metal free steel	Instrument size	270x476x340mm
Optional sieve apertures	0.25/0.50/0.75/1.0/2.0/4.0/6.0mm	Package size	450x400x550mm
Instrument weight	35kg		