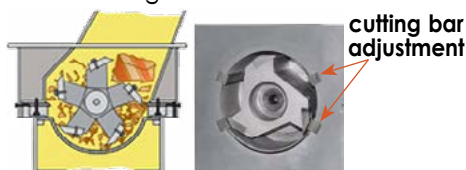


**Work Principle:**

The cutting mill process the sample by the strong cutting and shear force. The sample to be processed falls into the cutting chamber via the hopper and is shredded by cutting between rotating and fixed knives until it passes an attached sieve as ground product into the collecting bucket.

**Easy operation and clean:**

The operation of PCM series is quite simple and safe. The electric safety switch can prevent the device from being started when the door is opened. The anti-splashing design used for the feed hopper has no dead angle; the free falling of particle or powder samples can be used; the rotating knife, bottom sieve and hopper can be easily removed and re-installed. Such designs with good technical contents greatly facilitate the cleaning of the grinding chamber.

**PCM-100, PCM-200, Power Cutting Mills**

Cutting Mills is used to fast process the soft, tough, fibrous & hard sample. The result is reproducible due to the digital time setting. The instrument is easy operation, safe to the laboratory operator. The sample to be processed falls into the cutting chamber via the hopper & is shredded by cutting between rotating and fixed knives until it passes an attached sieve as ground product into the collecting bucket.

**Application Example:**

The cutting Mill is high-quality and economical grinding instrument. It is always used to process batch or continuous solid sample such as the wood, paperboard, paper, spice, straw, leather, rubber, raw material, bone, animal feed, cable, plastic, electric wastes, Non-metallic waste, grain, lignite, peat and so on. For the long fiber and big volume sample can process directly and do not need the pre-crush.

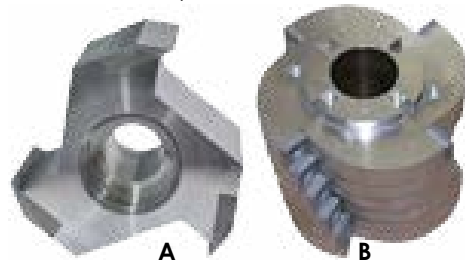
**Sample comparison before and after grinding:**

Sample picture		Parameter	
Before grinding	After grinding	Sample	Straw
		Rotor	Standard rotor stainless steel
		Sample characteristic	Soft
		Attention	Feed size less than 90mm, dry
		Time	Real time
Before grinding	After grinding	Sample	Dog Chews
		Rotor	Standard rotor stainless steel
		Sample characteristic	Brittle, Medium-hard
		Attention	Feed size must less than 90mm
		Time	Real time
Before grinding	After grinding	Sample	Circuit board
		Rotor	6-disc rotor stainless steel
		Sample characteristic	Tough, Hard
		Attention	Feed size less than 90mm, Remove the metal part before grinding
		Time	Real time
Before grinding	After grinding	Sample	chrysanthemum
		Rotor	Standard rotor stainless steel
		Sample characteristic	Oiliness, soft
		Attention	Feed size less than 90mm, Remove the metal part before grinding
		Time	Real time
Before grinding	After grinding	Sample	Plastic
		Rotor	6-disc rotor stainless steel
		Sample characteristic	Soft, Tough
		Attention	Feed size must less than 90mm
		Time	Real time

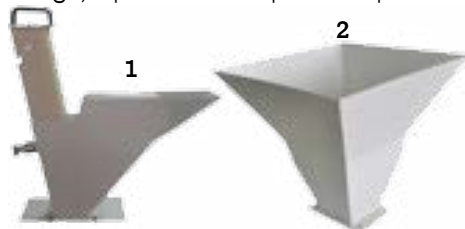


**Accessories and Parts:****Rotor**

Two kinds of rotors to be choosed, standard parallel rotor (A) and 6-disc rotor (B). The standard rotor is suitable for the general usage, for example medium-hard, fibrous sample (straw). The 6-disc rotor is suitable to process medium-hard, tough with elastic and light sample (plastic, rubber, Circuit board and so on). The rotor and the bottom sieves have special material to do the heavy metal free test.

**The Feed Hopper**

Two kinds of feed hopper, standard (1) and long neck type (2). The standard is suitable for bulk and granularity. The long neck type is suitable for the strip plant or other sample. The feed hopper and the housing are made of steel, Ergonomic design, Operation is simple and quick.

**Bottom Sieve**

Many kinds of bottom sieves can be choosed depend on the sample characteristic and final fineness.

**Optional Cyclone & Light Small Amount Sample**

When connect with the optional cyclone-suction-combination, can process the light small amount sample. The patent cyclone device can extend the application and also give cooling effect to the sample and help discharge the sample.

**Various models can meet different requirements:**

The PCM-100 cutting mill is high-quality economical and practical crushing equipment. It applies to samples with relative soft, medium-hard, tough or fibrous samples such as fiber and wooden samples and so on.

The PCM-200 efficient crushing equipment can perfectly process regular or irregular samples and it is an Ideal machine for heavy-metal-free ROHS and WEEE test (e.g. rubber, plastics, garbage, circuit board, etc.). It is always the favorite machine of laboratory analyzers due to its perfect integration of crushing samples with various crushability and temperature sensitiveness including flexible and heat-sensitive samples.

**Product advantages:**

- Powerful size reduction, even of heterogeneous mixtures
- The speed is adjustable between 500-3000rpm, continuously adjustable
- Final fineness depends on bottom sieve
- Apply to the temperature sensitivity samples due to the quickly and less heat milling
- Easy, fast and thorough cleaning of the grinding chamber
- Double bearing, brake motors
- Motor safety switches and electronic security system, to guarantee the motor brake off when the door opened
- Grinding chamber quickly locked & open, easy operation
- Wide range of collection system to meet various requirement.

**The technique achieve the best grinding result:**

- To rubber and plastic sample, add auxiliary materials or freezing to reach a better grinding result.
- For the fine grinding requirement, use a big hole sieve first grinding, and then use a small hole bottom to second grinding.
- To tough, heat sensitivity sample, the best speed is under 1000rpm, to the medium-hard, soft, the best speed is more than 1000rpm.

Technical Data	PCM-100	PCM-200
power supply	1PH, ~220V, 50/60Hz	3PH, ~380V, 50/60Hz, 3KW
Speed	500-3000rpm continuously adjustable	
Nominal Rating	1.5KW	3KW

Performance	PCM-100	PCM-200
Package size	850x760x1110mm	900x960x1420mm
Instrument size	650x700x1320mm	640x800x1520mm
Gross weight	136kg	250kg
Net weight	120kg	230kg

Performance	PCM-100	PCM-200
Working principle	Cutting	
Feed size	< 90mm	
Collector	5L (standard) or 0.5L, 1L, 2L, 30L options	
Batch quantity	5L or 0.2-60kg/hr	
Sieves	0.20/0.5/1.00/2.00/4.00/6.00/8.00/10.00/20.00mm	
Final fineness	0.1-20mm	
Rotor	Standard parallel rotor and 6-disc rotor	