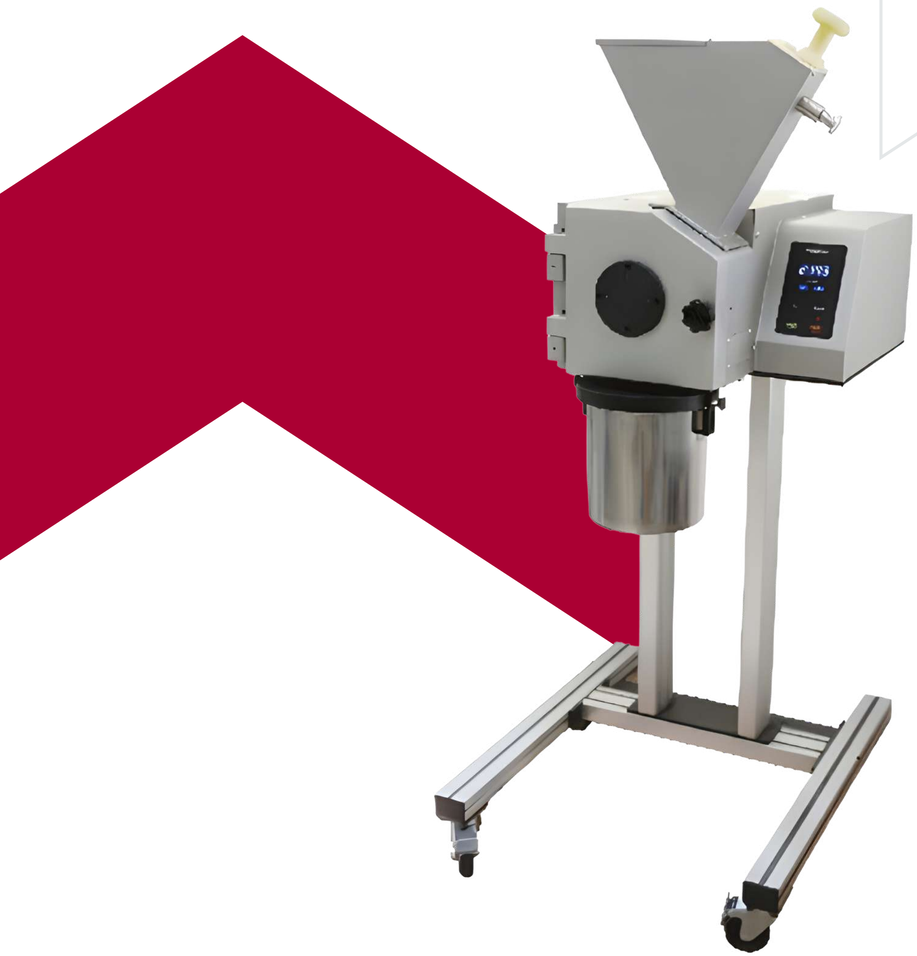
INNOVATIVE TECHNOLOGIES

Multi-Functional Cutting Mill

CM100M

TORONTECH



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Multi-Functional Cutting Mill

CM100M

Introducing the **Cutting Mill CM100M** - your ideal solution for processing a wide array of dry samples, from soft to tough, fibrous, and hard materials.

Its adaptability excels through batch processing and continuous operations, catering to both coarse and fine crushing needs.

Explore the CM100's versatility, setting a new standard in sample preparation excellence.

Feed Size:	Final Fineness:	Speed:
≤60×80mm	**0.1-20mm**	**500~4000rpm**

APPLICATION

Sample Type

Plant stem, wood, medicine, feed, season, rubber, plastic, leather, waste, paper, packaging foam, cardboard， etc.

WORKING PRINCIPLE

The sample enters the grinding chamber from the hopper and is cut as it encounters the shearing action between a rotor and a stationary cutting bar. If the sample size is smaller than the opening on the sieve plate, it is collected in the bucket below.

PRODUCT ADVANTAGES

Ease of Maintenance with Replaceable Components: Cleaning is made easy with replaceable push-fit grinding sieves and rotor, minimizing downtime and ensuring optimal performance.

Efficient Grinding and Sample Regulation: The CM101 features fast, low-heat grinding and precise sample size regulation using bottom sieves for consistent results.

Continuous Processing Capability with Efficient Cleaning: Capable of processing large sample volumes continuously, the CM101 includes a small sample receiver and cyclone separator for streamlined operation and reduced heat generation.

Versatile Fixation and Mobility with Safety Features: The CM101 offers stable floor fixation or mobile use with casters, enhanced by safety features like a quick locking mechanism and motor braking for user confidence.

TECHNIQUES FOR ACHIEVING OPTIMUM GRINDING RESULTS

Optimizing Rubber and Plastic Samples:

- Achieving better results with samples like rubber and plastic may involve freezing or incorporating auxiliary materials.

Fine Grinding Strategy:

- To meet fine grinding needs, begin with the use of the larger aperture bottom sieve for pre-pulverization, followed by the smaller aperture bottom sieve for fine grinding.

Speed Adjustment for Sample Types:

- When handling flexible and heat-sensitive samples, a speed of less than 1000rpm is recommended, while medium-hard and soft samples are best processed at speeds above 1000rpm.

CONNECT CYCLONE SEPARATOR, SMALL VOLUME SAMPLE RECEIVER

When utilizing CM101 in conjunction with the cyclone separator, it is well-suited for managing light or low-volume samples. The integration of a cyclone separator broadens the scope of applications for Cutting Mills. This not only efficiently addresses the heat transfer issue during the grinding process, making cleaning easier, but also enhances the consistency and reproducibility of the grinding outcomes.

ROTOR

Rotor A: The standard rotor designed for use with Cutting Mill CM101, primarily employed for crushing hard and fibrous samples, such as straw.

Rotor B: The 6-disc rotor designed for use with Cutting Mill CM101, primarily used for crushing medium-hard, flexible, and lightweight samples, such as plastic, rubber, and circuit boards.

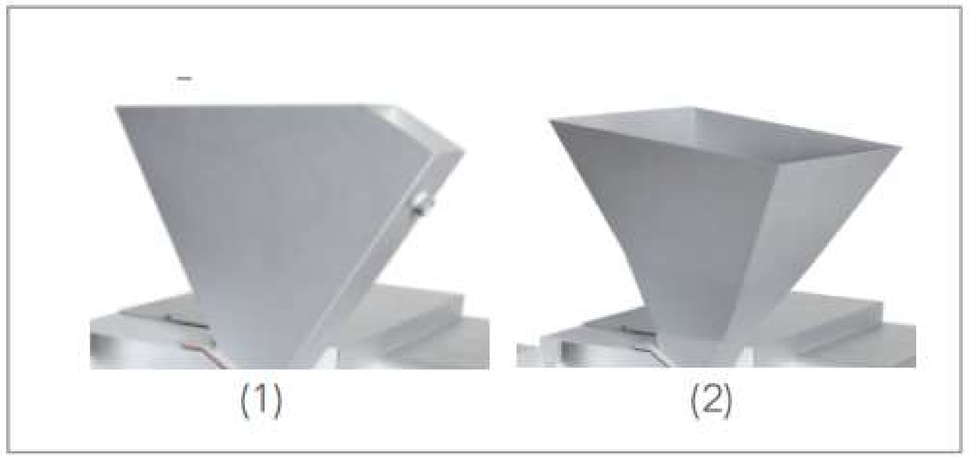
A

B

HOPPER

We provide two types of feed hoppers: the V-type feed hopper (1) and the standard feed hopper (2). The V-type feed hopper (1) is suitable for block and granular samples, while the standard feed hopper (2) is ideal for processing long strips of plant materials and similar specimens.

Both the feed hopper and the instrument's shell are constructed from durable steel, offering ergonomic design for user-friendliness and ease of operation.



TECHNICAL SPECIFICATION

ITEM	TECHNICAL PARAMETER
Feed size	＜60*80mm
Final fineness	0.1~20mm
Speed	500-4000rpm
Sieves	0.20/0.25/0.50/1.00/2.00/4.0/ 6.0/8.0/10.0/20.0mm
Collector capacity	0.25-30L
Collector	0.25L, 0.5L, 1L, 3L, 5L, 30L
Peripheral speed	3.4-26.8m/s
Grinding chamber material	stainless steel, 1.1740 steel, hardened steel
Rated power	1.5KW
Power supply	220V，50/60Hz (110V Also available upon request)
Instrument size (W*D*H)	630*705*1412mm
Package size (W*D*H)	1000*1000*1450mm
Net weight	120kg

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