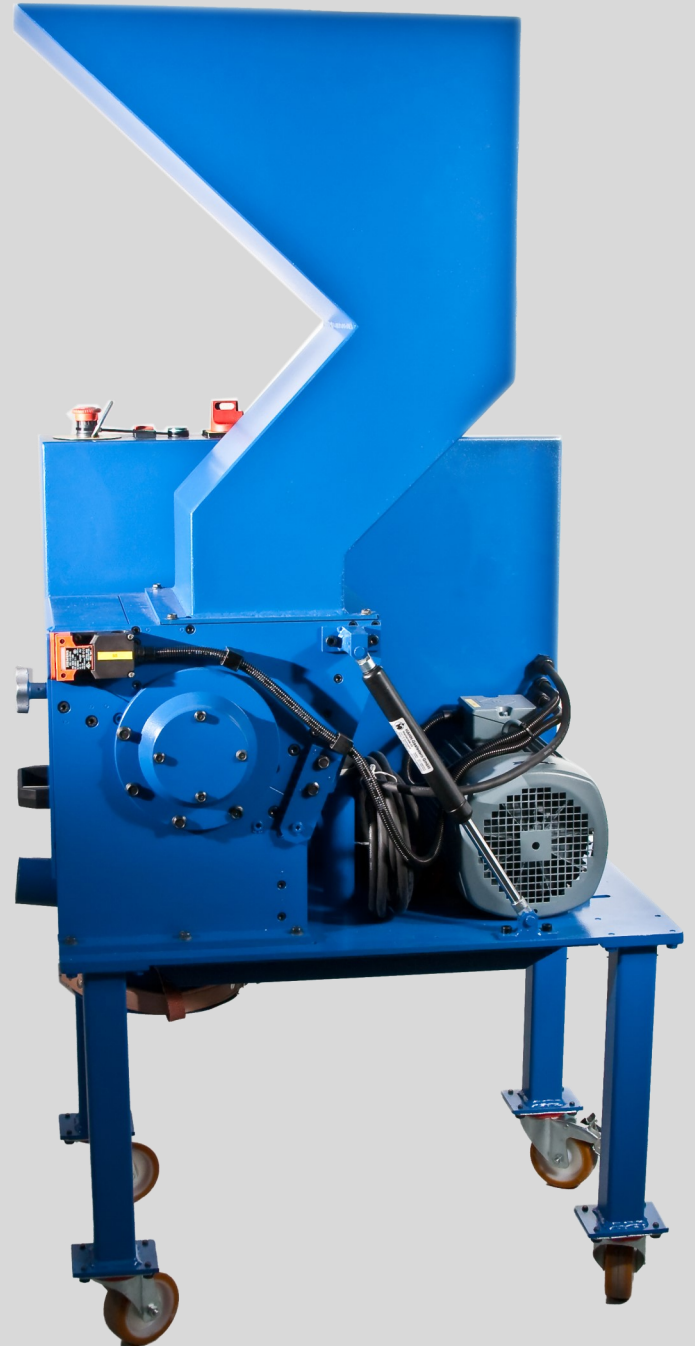


CM 1000

Power Cutting Mill

Superior Cutting Mill
engineered for rapid reduction
of large particles

- Rapid reduction of large particles from 100mm to 0,5 mm
- Quick and easy to clean
- Full range of bottom sieves
- The CM 1000 can handle samples of up to 60Kg/h
- CE-certified



Method of operation

The Model CM1000 Cutting Mill is used by laboratories and processing companies to granulate solid materials such as waste or wood and thermoplastics. The material to be processed falls into the cutting chamber of the CM1000 via a guide chute and is shredded by cutting between rotating and fixed knives until it passes an attached sieve as ground product. The sieve extends over the lower half of the grinding chamber and can be changed easily. Final particle size is determined by the selected sieve perforation aperture.

Sieve dimension (free open surface) must be large in order to obtain:

- a high throughput
- a low heat creation
- a homogeneous result.

No other Cutting Mill is easier to clean than the CM 1000 Cutting Mill. When the grinding process is finished the grinding chamber is fully accessible by unscrewing two hand screws and folding back of the infeed hopper. The grinding chamber is fully accessible for quick and easy cleaning in order to perform a fast and systematic cleaning of the grinding tools.

Grinding

The CM1000 Cutting Mill is the first machine in a state of the art sample preparation laboratory when it comes to sample preparation of cuttable materials. This system is suitable for the coarse and fine grinding of any dry substance, typically samples with a feed size of up to 100mm and a total batch of up to 60kgs per hour (volume depending on the characteristic of the samples) can be ground down to 0,5 mm or finer depending on the product.

High operator convenience and maximum safety

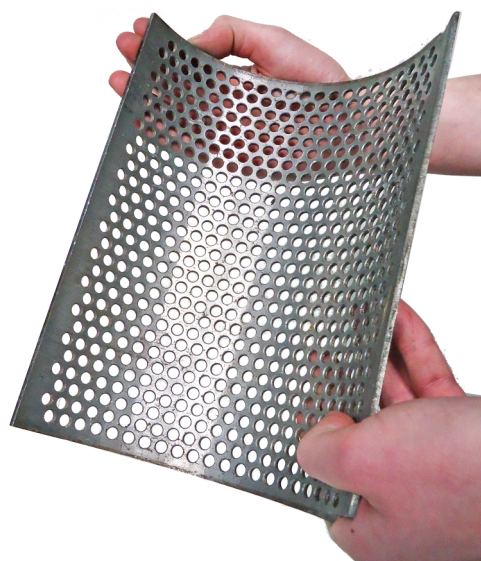
Maximum Grinding performance and maximum safety is important for LAARMANN Mills. Due to the integrated safety switch the machine can only be started when the "Easy Lock Cover" is closed and the grinding chamber cover is inserted properly. The Infeed Hopper as well as the housing of the CM1000 is made from solid steel. The ergonomic design of the machine and the positioning of the funnel and the starter box require a minimum space in the laboratory.



CM1000 Cutting Mill inside view



CM1000 Cutting Mill with plunger



CM1000 Cutting Mill bottom sieve

Benefits and applications

- Acoustic Noise Reduction: Infeed hopper made from Bondal. Bondal is a vibration damping composite material with a sandwich structure consisting of a viscoelastic core between two outer steel sheets.
- Various infeed hopper types are available with wooden/plastic plunger
- Restrained opening of the infeed hopper due to a gas spring
- Massive grinding chamber made from vibration reducing components
- Grinding chamber with safety switch for easy access and cleaning
- Flexible solid sample collector flange for optional extraction or connection to a collection vessels
- High precision solid steel underframe
- Industrial Castor wheels lockable

Bottom sieves

The size of the bottom sieve is important in order to decrease the heat creation during the grinding and to increase the capacity. The sieve dimension is 240mm x 240mm. This assures a large open surface which is essential for the cutting process to:

- Obtain a high throughput (see graphics)
- Have a low heat creation during the grinding process
- Receive a homogeneous result



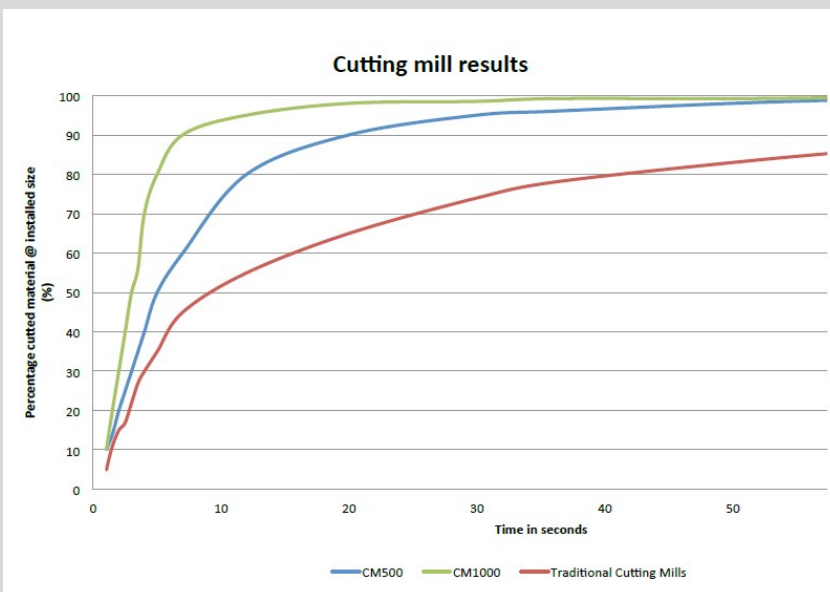
CM1000 Cutting Mill with plunger



CM1000 Cutting Mill closed



CM1000 Cutting Mill bottom sieves



Applications

- Linoleum, carpets, cloth
- Secondary fuels and bio mass
- Food and animal food
- Wood, paper, carton, cellulose
- Rubber, shredder light fractions
- House waste, industrial waste
- Computer scrap and electronic scrap
- Plants, twigs, roots etc.
- Herbs, spices, gras, straw
- Bones
- Technical plastics such as ABS, PA, POM, PE etc.



TRANSPORT DATA

Working principle	Cutting
Feed size maximum	Up to 100 mm depending on sample
Quantity maximum	Up to 60 Kgs per Hour
Quantity minimum	50 g
End fineness	500 µm
Number of rotor knives	3
Number of stator knives	2
Start / Stop function	By on/off button
End fineness adjustment	By interchangeable bottom sieves
Cutting chamber	230mm
Rotor diameter	Ø 150mm, Length 200 mm
Electrical requirements	200-240 Volt 50/60 Hz
Motor Power	3-4 KW
Gross weight	250 kgs (incl. packing, without accessories)
Net weight	230 kg (only machine)