LAARMANN®

Innovators in Solids

CM 500

Power Cutting Mill

Superior Cutting Mill engineered for rapid reduction of large particles

- Rapid reduction of large particles from 100mm to 1mm
- Quick and easy to clean
- Full range of bottom sieves
- The CM500 can handle samples of up to 30kg/h
- CE-certified

Laarmann Group B.V.
Op het Schoor 6
6041 AV
Netherlands

info@laarmann.eu
www.laarmann.eu
webshop.laarmann.eu
+31 6 23 40 00 33

Features and benefits

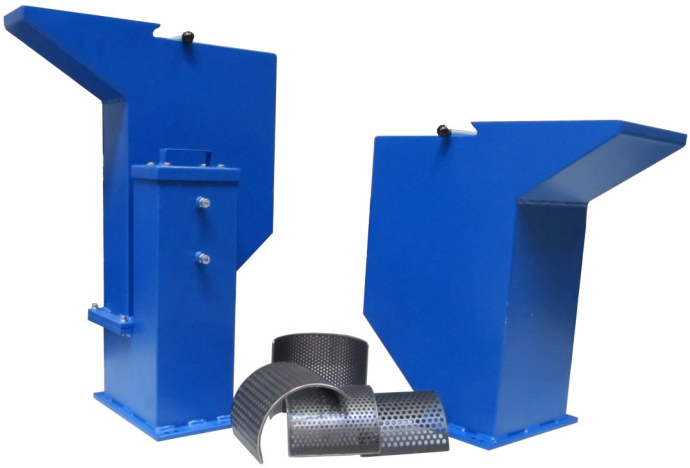
- Rapid sieve and knife changeover
- Quick and easy to clean
- Performance - enhancing diagonal cutting action
- No need to adjust the rotor knife
- Ideal granulate quality with similar grain characteristics
- No tool required to open
- Outer bearing assembly protected from dust ingress
- CE certified

Applications

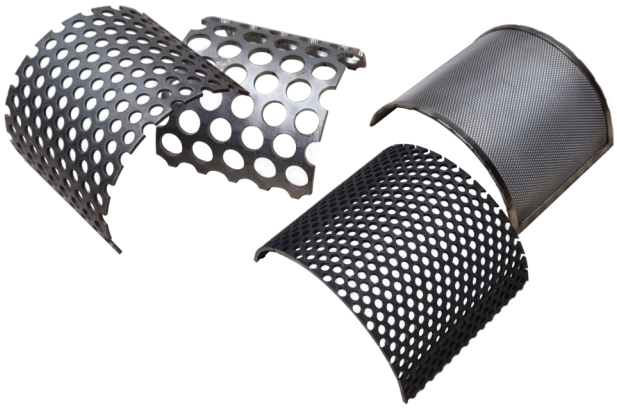
- Linoleum, Carpets cloth
- Secondary fuels and bio mass
- Food and animal food
- Wood, paper, carton, cellulose
- Rubber, shredder light fractions
- House waste, industrial waste
- Computer scrap and electronic scrap
- Plants, twigs, roots etc.
- Herbs, spices, gras, straw
- Bones
- Technical plastics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

Infeed hopper / Rotor and stator knifes / Bottom sieves

- Hardened steel
- Heavy metal free steel
- Tungsten carbide



Cutting Mill bottom sieves different hoppers and bottom sieves



Cutting Mill bottom sieves with round holes various sizes

Additional options

Cutting Mill custom hopper

Cutting Mill custom collector

Cutting Mill standard

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Superior Cutting Mill engineered to reproducibly grind volumes from 30g of up to 30 kg/h.

Method of operation

The Model CM500 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 CM500 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 is easily exchanged. 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.

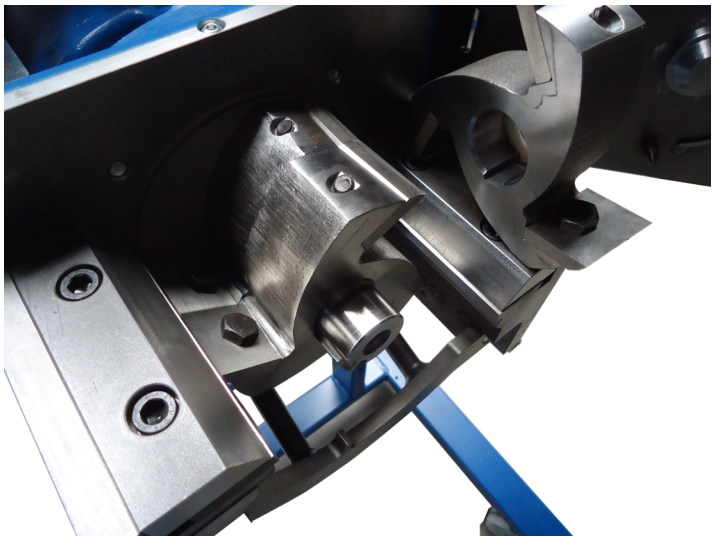
No other Cutting Mill is easier to clean then the CM 500 Cutting Mill. When the grinding process is finished the Front door and the Infeed Hopper can be opened sidewise and the milling chamber is fully accessible for quick and easy cleaning in order to perform a fast and systematic cleaning of the grinding tools.

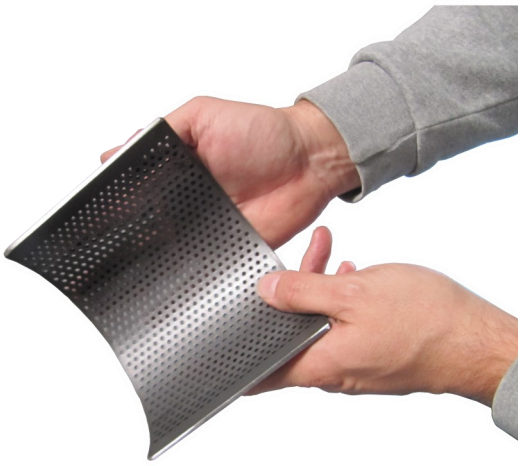
Grinding

The Cutting Mill is the first machine in a sample preparation laboratory of today 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 30kgs per hour (volume depending on the characteristic of the samples) can be ground down to 1,00 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 two integrated safety switches (door and collector) the machine can only be started when the “Easy Lock Cover“ is closed and the Sample collector is inserted properly. The Infeed Hopper as well as the housing of the CM500 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.





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Before	after	details
		Wood samples
		Different secondary fuels such as plastics, papers etc.
		Salt such as Iron sulfate
		Different plastics

TECHNICAL DATA	
working principle	Cutting
Feed size maximum	Up to 100 mm depending on sample
Quantity maximum	Up to 30 kgs per hour
Quantity minimum	50 gr.
End fineness maximum	250 µm
Number of rotor knifes	9
Number of stator knifes	2
Start / Stop function	By on/off button
End fineness adjustment	By interchangeable bottom sieves
Cutting chamber	130mm x 200mm
Electrical details	3x400V/50Hz
Speed	224 rpm
Motor Power	2.2 KW
gross dimensions wxdxh	app. 600 x 600 x 600 mm
net dimensions wxdxh	app. 390 x 485 x 375 mm
gross weight	190 kgs (only machine)
net weight	135 kgs (only machine)

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