

pulverisette® 16



Cross Beater Mill

- Versatile
- Rapid non-aggressive grinding
- Suitable for medium-hard, brittle samples

ZERKLEINERN



PARTIKELMESSEN TEILEN MILLING PARTICLE SIZING DIVIDING ZERKLEINERN PARTIKELMESSEN TEILEN MILLING PARTICLE SIZING DIVIDING ZERKLEINERN PARTIKELMESSEN TEILEN



Made in Germany

Cross Beater Mill "pulverisette 16"



■ Field of application

The cross beater mill "pulverisette 16" is universally used in the chemical and ceramic industry; in mining and metallurgy and in agriculture for the preparation of soil samples.

As a universal mill for both laboratory and industrial applications. It is especially suitable for the grinding of medium-hard, brittle materials up to Mohs scale of hardness 6. In the laboratory the "pulverisette 16" is used for either pre- and fine crushing while in industry it is frequently used for fine grinding at the end of a complete process.

The max. feed size is 20 mm for individual pieces and 15 mm when a continuous feed is required. The throughput is conditional on the characteristics of the material and the apertures of the bottom sieve and will go up to a maximum of 80 l/h. Collecting vessels of 5 or 30 l are available for batch processing.

The ultimate fineness depends on the fracture characteristics of the material to be ground and the aperture size of the bottom sieve, which can be as small as 100 µm. In general 100 % of the sample is smaller than approx. 70 % of the aperture size of the bottom sieve used.

Examples of application

Soft materials

needles, leaves, grains, resins, cellulose, chemicals, dried fruits, peat, seeds, dried plants

Medium-hard samples

feed, salts, pellets, coal, kaolin, spices, gypsum, drugs, potash, tablets, slags, minerals, ashes, stones and soil (bauxite, limestone, dry clay, etc.), synthetic resins, pyrite, cement clinker, coke, ore, fire-proofed materials

■ Method of operation

The cross beater mill crushes the sample by impact, friction and shear forces.

When the material is introduced via the funnel it falls immediately into the grinding chamber where it is ground between cross beater, toothed grinding assembly and bottom sieve, until it reaches the required fineness, before being released through the bottom sieve into the collecting vessel.

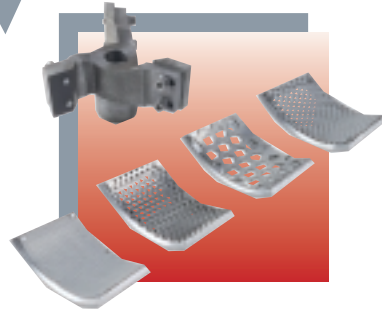
The use of a textile filter hose between the mill and the collecting vessel accelerates material throughput and prevents clogging due to the constant flow of air in the grinding chamber created by the cross beater action. This guarantees a non-aggressive, rapid sample reduction process.

Cross Beater Mill "pulverisette 16"

grinding chamber



cross beater and bottom sieves



"pulverisette 16" with collecting vessel for large quantities



Design Characteristics

- Grinding chamber fast locking clamping device
- Overload protection
- Toothed grinding tools made of steel cast
- Stainless steel collecting vessel
- Stainless steel trapezoidal and round shaped perforated sieves
- Aluminium cast housing
- Maintenance-free direct drive motor
- 1.1 kW self-braking motor, 2850 rpm
- Easy assembly

Advantages

- Multipurpose use
- Easily replaceable bottom sieves
- Easy cleaning
- Bench mounting or floor standing
- Low-cost, easy replacement of impact plates
- 2 year guarantee

Accessories

■ Bottom sieve, grinding assembly, mill housing

The bottom sieves are made of stainless steel trapezoidal resp. round perforation sheets metal. Larger openings mean faster throughput, less time in the mill and less wear.

Bottom sieve	stainless steel	77.3 % Fe, 18.0 % Cr, 2.5 % Ni, 2.0 % Mn, 1.0 % Si
Grinding assembly	steel cast iron	93.6 % Fe, 3.6 % C, 1.8 % Si, 0.5 % Mn
Mill housing	cast aluminium	87.3 % Al, 11.0 % Si, 0.5 % FE, 0.5 % MG

■ Stand

For floor-standing support of the "pulverisette 16"

■ Collecting vessel for large quantities

A 30 litre collecting vessel connected by a filter hose provides bulk storage facility.

Technical Data

Max. feed particle size	<= 20 mm	Motor-shaft-power	according to
Throughput	< 80 l/h		VDE 0530, EN 60034
Final fineness depending on the chosen bottom sieve	< 120 µm	Weight	net 36 kg, gross 76 kg
Electrical Details	400 V/3~, 50 Hz, 1480 Watt	Dimensions w x d x h	42 x 44.5 x 56 cm
	230 V/1~, 50 Hz, 1590 Watt	Packing Details	Wooden case 80 x 70 x 70 cm
	110 V/1~, 60 Hz, 1500 Watt	Noise level	Workplace-related emission value: L _{pA eq} = 86 dB (A)



Ordering data

Order No.	Description	For rapid fax enquiry tick here
16.3030.00	<p>Cross Beater Mill "pulverisette 16" without bottom sieve and stand, incl. grinding assembly made of steel cast and collecting vessel 5 litres with filter hose</p> <p>for 400 V/3~, 50 Hz, 1480 Watt</p> <p>Attention: the "pulverisette 16" with voltage of "3~" can <u>only</u> be operated on a three phase supply network.</p>	
16.3020.00	for 230 V/1~, 50 Hz, 1590 Watt	
16.3010.00	for 110 V/1~, 60 Hz, 1500 Watt	
16.5100.10	<p>Bottom sieves of stainless steel trapezoidal perforation 0.12 mm</p>	
16.5110.10	trapezoidal perforation 0.2 mm	
16.5120.10	trapezoidal perforation 0.25 mm	
16.5130.10	trapezoidal perforation 0.5 mm	
16.5140.10	trapezoidal perforation 0.75 mm	
16.5150.10	trapezoidal perforation 1 mm	
16.5160.10	trapezoidal perforation 1.5 mm	
16.5170.10	trapezoidal perforation 2 mm	
16.5200.10	round perforation 3 mm	
16.5210.10	round perforation 4 mm	
16.5220.10	round perforation 5 mm	
16.5230.10	round perforation 6 mm	
16.5240.10	round perforation 8 mm	
16.5250.10	round perforation 10 mm	
16.3600.00	<p>Collecting vessel collecting vessel 30 litres with filter hose</p>	
16.3500.00	<p>Accessories stand</p>	