

# ***pulverisette 25***

# ***pulverisette 19***



## **Cutting Mill Combination**

- Suitable for extremely heterogeneous samples
- Fully automatic, two-stage grinding
- Sample extraction via cyclone separator to glass sample collection vessel

**grinding** sample  
cutting mill preparation  
for your lab

**FRITSCH**

# Cutting Mill Combination

## Field of application

The Cutting Mill Combination can reduce 2 litres of material with a maximum edge length of 30 mm down to  $< 500 \mu\text{m}$  and provide an accurate representative sample ready for analysis in one pass within 5 minutes.

Amongst other applications its main use is for the preparation of heterogeneous materials for analysis according to the standard method for domestic waste, for the determination of calorific value and chlorine content (e.g. in cement plants) as well as for RoHS testing. It has been specifically designed to deal with very heterogeneous materials such as household waste, building rubble, German Recycling System bales or light shredder fractions from recycling.

## Method of operation

The Cutting Mill Combination which consists of the Power Cutting Mill pulverisette 25 and the Universal Cutting Mill pulverisette 19 processes the whole sample by initially grinding the material in the pulverisette 25. The ground sample then enters a funnel where sample division takes place. The ratio is adjustable but the standard setting divides the sample in the ratio of 1 to 13. One part is then subjected to fine grinding in the pulverisette 19 element of the combination and reduced to a suitable size which is collected in a glass sample collection vessel. The remainder can be discarded or retained for future reference.

## Advantages

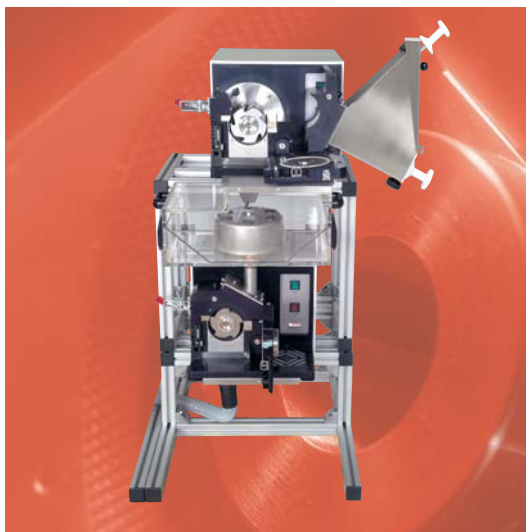
- Drastically reduced cleaning requirements
- Convenient material feed facility
- Cooling throughout process
- No sieve blockage
- High throughput
- Process tolerates up to 30% moisture content in sample

## Design Characteristics

- Minimal dead space
- Removal of milling parts without tools
- Integrated sample exhaustor with cyclone separator
- Glass sample collection vessel
- Integrated sample division to reduce the quantity for fine grinding



quality control  
grinding  
**Cutting Mill Combination**



Cutting Mill Combination  
pulverisette 25 - pulverisette 19 opened



rotor with V-cutting edges and fixed knives



integrated sample divider

## Standard version

In the standard version, the Cutting Mill Combination consists of the following components:

- **Power Cutting Mill pulverisette 25**, with
  - 2-liters standard funnel
  - sieve cassette with sieve insert 4 mm square perforation, made of stainless steel
  - cutting tool set consisting of rotor with V-cutting edges and fixed knives of hardmetal tungsten carbide
- **Integrated sample divider**  
(division ratio 1:13)
- **Universal Cutting Mill pulverisette 19** with
  - sieve cassette with sieve insert 0.5 mm trapezoidal perforation, made of stainless steel
  - cutting tool set consisting of rotor with V-cutting edges and fixed knives of hardmetal tungsten carbide
- **Sample exhauster with cyclone separator**
  - 500 ml glass collection vessel
- **Underframe**

## Accessories

The Cutting Mill Combination is also available in other configurations and can be fitted with any accessory that is available for the Power Cutting Mill pulverisette 25 and the Universal Cutting Mill pulverisette 19. These accessories can be found in the appropriate individual leaflets.



# pulverisette 25/pulverisette 19

## Technical data

working principle	cutting
funnel opening	120 x 105 mm
max. feed size (depending on the material)	120 x 85 mm
min. sample quantity	20 - 30 ml
max. throughput (depending on the material and sieve size)	60 l/h
final fineness depending on sieve cassette	0.25 - 6 mm
feeding	batchwise/continuous
rotor speed	300/2,800 rpm
electrical details	400 V/3~, 50-60 Hz, 6340 watt
motor-shaft-power according to VDE 0530, EN 60034	2.2/1.5 kW
weight	net: 214 kg, gross: 244 kg
dimensions w x d x h	on stand: 62 x 82 x 145 cm
packing details	pallet case: 82 x 100 x 165 cm

## Ordering data

Order no.	Description
	<b>Cutting Mill Combination pulverisette 25 / pulverisette 19 Standard version</b>
19.5030.00	for 400 V/3~, 50-60 Hz, 6340 watt
	Other configurations on request.
	Detailed brochures on the Universal Cutting Mill pulverisette 19 and Power Cutting Mill pulverisette 25 available on request.

