

pulverisette 15



Cutting Mill

- Suitable for soft to medium-hard dry materials
- Rapid, reproducible grinding
- Easy to operate and safe to use

grinding sample
cutting mill preparation
for your lab

FRITSCH

Cutting Mill

Field of application

Grinding of soft to medium-hard dry materials and fibrous materials or materials containing cellulose including rubber, leather, paper, cardboard, textiles, plastics, wood, metal-free waste, coal, feedstuffs, maize, grain, confectionery, malt, noodles, herbs and spices, dried meat, bone, horn, pills, tablets, foliage, fibres, peat, roots, tobacco, cork.

Straw, stalks foils and similar long, thin samples can be fed full-length into the instrument.

Method of operation

In the grinding chamber of the pulverisette 15 cutting mill, four knives rotate against three stationary knives in the cutting action to reduce the sample. The material remains in the grinding chamber until the desired final particle size is achieved and the continuous flow of air carries it through the mesh of the interchangeable sieve insert into the collecting vessel.

Advantages

- Easy cleaning of grinding chamber and grinding parts
- Convenient materials feed
- Rapid, reproducible grinding
- Defined final particle size with interchangeable sieve inserts
- Ease of maintenance
- Certified safety (CE mark)
- 2 year guarantee



quality control
fine grinding
Cutting Mill



pulverisette 15
with collecting vessel for large quantities



cutting rotor and sieve inserts



grinding chamber

Design Characteristics

- Easy access to grinding chamber using only two knurled screws
- Housing with cover opens out completely
- Cover can be removed from hinge
- 2-litre stainless steel funnel with plastic pusher
- Grinding chamber efficiently sealed
- Long lasting hardened steel knives
- Cutting edges can be reused
- Knives can be resharpened
- Cutting gap externally adjusted
- High cutting rotor speed (2800 rpm)
- Bearing support on both sides of cutting rotor
- Dust-sealed bearings
- Recyclable, torsion-resistant aluminium housing
- Designed for operation either fixed to bench-top or for use on independent mounting frame.

Accessories

■ Sieve inserts

Sieve insert made of stainless steel with trapezoidal or square perforations can be selected from the range to obtain final particle size of your choice.

■ Stand

For free-standing installation of the pulverisette 15

■ Filter hose for large quantities

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

pulverisette 15

Technical data

working principle	cutting
max. feed size (depending on the material)	60 mm
min. sample quantity	30 - 50 ml
max. throughput (depending on the material and sieve size)	50 l/h
final fineness depending on the selected sieve insert	0.25 - 6 mm
feeding	batchwise/continuous
rotor speed	2,800 - 3,400 rpm (depending on voltage and frequency)
electrical details	400 V/3~, 50 Hz, 1900 watt 230-240 V/1~, 50 Hz, 2100 watt 100-120 V/1~, 60 Hz, 1800 watt
motor-shaft-power according to VDE 0530, EN 60034	1.1 kW for 100-120 V/1~ motor 1.5 kW for all other motors
weight	net: 42 kg, gross: 72 kg
dimensions w x d x h	table mounting or on stand: 42 x 48 x 69 cm
packing details	wooden case 87 x 58 x 78 cm

Ordering data

Order no.	Description
	Cutting Mill pulverisette 15 without sieve insert, incl. 3.5 l collecting vessel * included in the basic price of the instrument
15.4030.00	for 400 V/3~, 50 Hz, 1900 watt Attention: The pulverisette 15 with voltage "400 V/3~" can <u>only</u> be operated on a three phase supply network!
15.4020.00	for 230-240 V/1~, 50 Hz, 2100 watt
15.4010.00	for 100-120 V/1~, 50-60 Hz, 1800 watt
	Other voltages on request!
	Sieve inserts made of stainless steel
45.1200.10	0.25 mm trapezoidal perforation
45.1210.10	0.5 mm trapezoidal perforation
45.1220.10	0.75 mm trapezoidal perforation
45.1230.10	1 mm trapezoidal perforation
45.1240.10	1.5 mm trapezoidal perforation
45.1250.10	2 mm trapezoidal perforation
45.2200.10	4 mm square perforation
45.2210.10	6 mm square perforation
	Collecting vessels
15.4400.00*	3.5 litres
15.4560.00	60 litres with filter hose
	Accessories/Spare parts
83.4300.00	stand
45.4000.00*	set rotating knives made of tempered steel (set = 4 pieces)
45.4100.00*	set stationary knives made of tempered steel (set = 3 pieces)

