

Variable Speed Rotor Mill PULVERISETTE 14, FRITSCH

Universal mill for rapid grinding of medium-hard to soft materials as well as of temperature-sensitive materials. Even samples which are difficult to grind can be grinded by means of embrittling to analysis fineness. Dispersing and homogenising of dry samples is also part of the application areas.

Typical fields of application:

Soft materials like plants, wood, roots, leaves, coniferous needles, spices, textiles, leather, chemicals, foodstuffs, grains, cellulose, fillers, chalk, kaolin, coal, soils (without stones).

Medium-hard samples like pharmaceuticals, dragées, tablets, fertilizers, pellets, fodder

Temperature-sensitive samples can be ground, because of the rapid, effective grinding, the heat absorption of the material is reduced.

Materials which are difficult to grind such as styrene, polyester, plastics, foils, PVC, PP and PE.

RoHS-test for grinding of electronic units, plastic and glass.

Method of operation:

The rapid size reduction and the universal use is due to the extremely high rotational speed of the cutting rotor.

In addition, the sharp-edged teeth and the sieve insert reduce the sample by shearing.

Features at a glance:

- rapid sample throughput as a result of high-speed grinding and simple handling
- easy, contamination-free cleaning of the grinding parts outside of the device - grinding parts can be completely removed and reset without tools
- simple operation by means of quick release clamp and membrane keyboard
- revolution adjustable by micro controller
- high revolution stability also under maximum capacity
- for optimal material supply, the vibrations feeder LABORETTE 24 is recommended
- converting to iron-free grinding or for applications which have to avoid contamination
- certified safety (CE-mark)
- 2-year warranty

Technical data:

Max. feed size:	10 mm
Throughput:	0.05 – 5 l/h
Sieve size:	0.08 – 6 mm
Final fineness (d ₇₀):	40 µm
Rotor speed:	6,000 – 20,000 rpm
Dimensions (L x D x H):	31 x 48 x 47 cm
Weight net:	23 kg

Article	Order No.
High-speed rotor mill PULVERISETTE 14 ¹⁾	53 98 14300

For 100 – 120/200 – 240 V/1~, 50 – 60 Hz, 1150 Watt without rotor and sieve ring, incl. collecting vessel (the voltage specified on the order form will be set by the factory), rotor and sieve ring should be chosen from the list below, because otherwise operation is not possible.

¹⁾ Supplied without the illustrated accessories

Accessories

Rotors

Stainless steel, hardened

Article	Order No.
Rotor with 8 ribs	53 98 44408
Rotor with 12 ribs	53 98 44412
Rotor with 24 ribs	53 98 44424

Sieve rings made of stainless steel

Trapezoidal hole mm	Order No.	Round hole mm	Order No.
0.08	53 98 14201	1	53 98 14311
0.12	53 98 14203	2	53 98 14315
0.2	53 98 14205	4	53 98 14317
0.5	53 98 14207	6	53 98 14319
0.75	53 98 14209		
1	53 98 14211		
1.5	53 98 14213		
2	53 98 14215		

Further accessories for variable speed rotor mill PULVERISETTE 14

- sieve rings with reinforced edges for heavy duty loads
- conversion kit for grinding large quantities
- rotor and sieve rings made of pure titanium for „iron-free“ grinding as well as the corresponding conversion kit for grinding large quantities
- rotor and sieve rings TiN-coated and TC-coated for grinding medium-hard, tough materials and for sample treatment according to RoHS and WEEE
- impact rotor insert for pre-grinding and grinding samples that are difficult to grind
- pin insert for grinding without a sieve of medium-hard and oily and greasy samples
- vibratory feeder LABORETTE 24 for optimal sample feeding

