P-16

ROTOR MILL

FRITSCH

TECHNICAL SPECIFICATIONS



EASY WORKING. GREAT RESULTS.

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TECHNICAL DATA

P-16 – Rotor Mill

Working principle	impact
Material type	medium-hard, brittle
Field of application	agriculture and forestry, geology and mineralogy, mining, ceramics, plastics and textiles, metallurgy
Materials grinding tools (grinding insert, cross beater, impact plate)	cast iron, stainless steel, hardened steel
Initial size /feeding size max.	25 mm
Min. sample quantity	approx. 40–50 ml
Final fineness *(depends on application)*	0.12–10 mm
Max. throughput	approx. 80 l/h
Feeding	batchwise/continuous
Dust extraction	optional cyclone
Collection vessels *(depending on device configuration)*	1 l, 2 l, 5 l, 20 l, 26 l, 60 l
Rotational speed	2,000–4,000 rpm
Peripheral speed	15.5–31 m/s
Electrical details	200–240 V/1~, 50/60 Hz
Power consumption	1,500 W
Emission sound pressure level at the workplace acc. to DIN EN ISO 3746 *(depends on application / workplace related)*	approx. L_{pAd} = 85 dB
Weight	50 kg
Safety class	IP41
Dimensions (W x D x H)	60 x 70 x 58 cm table-mounting or on stand

ACCESSORIES

P-16 – Rotor Mill

Order no.	Article
	**Instrument without bottom sieve and stand, incl. collecting vessel 5 litres with filter hose**
	Grinding insert and cross beater made of cast iron, impact plates made of hardened steel
16.6020.00	for 200–240 V/1~, 50/60 Hz, 1,500 W
	Grinding insert and impact plates made of hardened steel, cross beater made of cast iron
16.6030.00	for 200–240 V/1~, 50/60 Hz, 1,500 W
	Grinding insert, cross beater and impact plates made of stainless steel
16.6050.00	for 200–240 V/1~, 50/60 Hz, 1,500 W
	**Accessories for Rotor Mill P-16**
	Bottom sieves made of stainless steel 316L
16.6710.10	0.12 mm trapezoidal perforation
16.6712.10	0.2 mm trapezoidal perforation
16.6714.10	0.25 mm trapezoidal perforation
16.6715.10	0.35 mm trapezoidal perforation
16.6716.10	0.5 mm trapezoidal perforation
16.6718.10	0.75 mm trapezoidal perforation
16.6720.10	1 mm trapezoidal perforation
16.6722.10	1.5 mm trapezoidal perforation

Order no.	Article
16.6724.10	2 mm trapezoidal perforation
16.6750.10	3 mm round perforation
16.6752.10	4 mm round perforation
16.6754.10	5 mm round perforation
16.6756.10	6 mm round perforation
16.6758.10	8 mm round perforation
16.6760.10	10 mm round perforation
	Bottom sieves made of chromium-free steel DC01Cu for heavy-metal-free grinding
16.6714.09	0.25 mm trapezoidal perforation
16.6730.09	1 mm trapezoidal perforation
16.6732.09	2 mm trapezoidal perforation
	Rotor Mill and bottom sieves in further configurations on request.
	Sample exhaustion with cyclone
	High-performance cyclone
16.6820.00	high-performance cyclone made of stainless steel 316L with flexible tube connection, incl. sample glass 1 litre
45.9064.00	inline sight glass 316L can be used between high-performance cyclone and collecting vessel 60 litres
	Collecting vessels for high-performance cyclone
83.3250.00	sample glass 1 litre
83.3260.00	sample glass 2 litres
83.3270.00	sample glass 5 litres
45.8040.00	collecting vessel, 20 litres made of stainless steel 316L
45.8050.00	collecting vessel, 60 litres made of stainless steel 316L

Order no.	Article
	Exhaust system for high-performance cyclone
43.9070.00	exhaust system, dust category “M” according to DIN EN 60335-2-69 for 230 V/1~, 50/60 Hz, 1,600 W
43.9055.00	fleece filter bag for exhaust system (pack = 5 pieces)
43.9052.00	plastic bag for exhaust system (pack = 5 pieces)
43.9051.00	filter set polyester for exhaust system (pack = 2 pieces)
	Further accessories
45.5820.00	universal support stand
16.6124.00	collecting vessel 26 litres with filter hose
	Certification
96.0430.00	IQ/OQ documentation (questionnaire format - implementation not included)



The combination of the Cross Beater Mill with the high-performance cyclone enable a simple cleaning and feeding, the use of finer bottom sieves for achieving a higher final fineness, increases the throughput and reduces the thermal load of the samples – even for materials, which are otherwise difficult to grind.

APPLICATION EXAMPLES

P-16 – Rotor Mill

Sample 1: Sodium chloride tablets

Milling:

- Grinding insert, cross beater and impact plates made of stainless steel
- 0.5 mm trapezoidal perforated sieve insert





Sample 2: clay

Milling:

- Grinding insert and impact plates made of hardened steel, cross beater made of cast iron
- High-performance cyclone
- 0.75 mm trapezoidal perforated sieve insert





Sample 3: tiles

Milling:

- Grinding insert and impact plates made of hardened steel, cross beater made of cast iron
- 1.5 mm trapezoidal perforated sieve insert





Sample 4: wood chips

Milling:

- Grinding insert, cross beater and impact plates made of stainless steel
- High-performance cyclone
- 1.5 mm trapezoidal perforated sieve insert





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Contact person:

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for a non-binding consultation or individual test grinding to identify your ideal device configuration and optimal grinding parameters.

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