

## Rotor Beater Mill SR 300

### General Information

The Rotor Beater Mill SR 300 is suitable for coarse and fine size reduction, either in batches or continuously. It can process dry, soft, medium-hard, organic and inorganic substances.

Its high speed in comparison to the SR 200 allows a significantly higher throughput and fineness.

The SR 300 is intended for universal use: from sample preparation in laboratories up to preparing sample batches in pilot plants or production facilities.

The grinding chamber, the feed hopper and the material inlet are completely made from high quality stainless steel.

### Application Examples

bentonite, chemical products, coal, coke, drugs, feed pellets, fertilizers, food, graphite, gypsum, herbs, pharmaceutical materials, plant materials, plastics, powder coating, resins, rice, salts, seeds, soils, spices, sugar, ...

### Product Advantages

- suitable for batchwise operation of larger quantities
- central locking device
- wide range of accessories including various collection and feeding systems, rotors and sieves
- high final fineness
- exchangeable grinding and sieve inserts
- grinding chamber, feed hopper and material inlet and outlet of stainless steel
- optional grinding inserts 180° for grinding of hard-brittle materials by additional impact
- optional distance rotor to reduce frictional heat
- removable hopper for easy cleaning
- motor brake
- defined final fineness due to bottom sieves with aperture sizes from 0.08 - 10 mm

### Features

Applications	size reduction, deagglomeration
Field of application	agriculture, chemistry / plastics, construction materials, environment / recycling, food, geology / metallurgy, medicine / pharmaceuticals
Feed material	soft, medium-hard
Material feed size*	< 15 mm
Final fineness*	< 50 µm
Speed at 50 Hz (60 Hz)	8,100 min <sup>-1</sup> (9,700 min <sup>-1</sup> )
Rotor peripheral speed	58 m/s (69.5 m/s)



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Types of rotors	rotor beater / standard / distance
Material of grinding tools	stainless steel: grinding chamber / ring sieves / retaining frame - chromium plated: retaining frame
Sieve sizes	trapezoid holes 0.08 / 0.12 / 0.20 / 0.25 / 0.50 / 0.75 / 1.00 / 1.25 / 1.50 / 2.00 mm round holes 3.00 / 4.00 / 10.00 mm
Collector capacity	5 l / optional: 30 l
Drive	3-phase motor
Electrical supply data	different voltages
Power connection	3-phase
Protection code	IP 54
Power consumption	2.2 kW
W x H x D closed	560 x 1200 x 890 mm (with base frame)
Net weight	~ 95 kg
Documentation	Operation & Application Video
Standards	CE

\*depending on feed material and instrument configuration/settings

## Rotor Beater Mill SR 300

### Videolink



<http://www.retsch.com/sr300>

### Function Principle

Size reduction and deagglomeration in the SR 300 are achieved by impact and shear effects. The feed material passes from the hopper into the center of the grinding chamber where it is crushed between the rotor, sieve and grinding inserts.

As soon as the material is smaller than the aperture size of the sieve it enters the collecting receptacle. The quick-acting door lock ensures easy access to the grinding chamber for quick cleaning. With their motor brake (braking time < 0.5 s), safety switch, splashback and access barrier in the inlet and outlet areas, Rotor Beater Mills offer the highest degree of operating safety.

### Order data

#### Rotor Beater Mill SR 200 / SR 300

with rotor, 240 mm filter hose and collecting receptacle (please order retaining frame, sieves and optional base frame SR 200 separately)

20.733.1002

SR 300, 3/N~ 400 V, 50 Hz, rotor speed 8,100 min<sup>-1</sup>, of stainless steel, with easily removable stainless steel hopper, incl. base frame

other electrical versions available for the same price

#### Retaining frames and ring sieves for SR 200 / SR 300

##### Retaining frame 360°

22.642.0002

Retaining frame for ring sieves 360°, chromium plated

22.642.0001

Retaining frame for ring sieves 360°, of stainless steel

##### Ring sieves 360° of stainless steel

02.407.0057

Trapezoid holes, 0.08 mm

02.407.0026

Trapezoid holes, 0.12 mm

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02.407.0028	Trapezoid holes, 0.20 mm
02.407.0029	Trapezoid holes, 0.25 mm
02.407.0030	Trapezoid holes, 0.50 mm
02.407.0031	Trapezoid holes, 0.75 mm
02.407.0032	Trapezoid holes, 1.00 mm
02.407.0058	Trapezoid holes, 1.25 mm
02.407.0033	Trapezoid holes, 1.50 mm
02.407.0034	Trapezoid holes, 2.00 mm
02.407.0035	Round holes, 3.00 mm
02.407.0036	Round holes, 4.00 mm
02.407.0040	Round holes, 10.00 mm, for pre-grinding

## Retaining frame 180°

02.143.0014	Retaining frame with grinding insert for sieves 180°, stainless steel
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## Sieves 180° of stainless steel

03.647.0081	Trapezoid holes, 0.08 mm
03.647.0039	Trapezoid holes, 0.12 mm
03.647.0040	Trapezoid holes, 0.20 mm
03.647.0041	Trapezoid holes, 0.25 mm
03.647.0042	Trapezoid holes, 0.50 mm
03.647.0043	Trapezoid holes, 0.75 mm
03.647.0044	Trapezoid holes, 1.00 mm
03.647.0045	Trapezoid holes, 1.25 mm
03.647.0046	Trapezoid holes, 1.50 mm
03.647.0047	Trapezoid holes, 2.00 mm
03.647.0048	Round holes, 3.00 mm
03.647.0049	Round holes, 4.00 mm
03.647.0053	Round holes, 10.00 mm, for pre-grinding

## Additional items SR 200 / SR 300

01.824.0028	Base frame for SR 200
22.609.0003	Wheels for base frame
22.717.0003	Distance rotor of stainless steel for SR 200
22.717.0004	Distance rotor of stainless steel for SR 300
22.717.0001	Rotor of stainless steel for SR 200
22.717.0002	Rotor of stainless steel for SR 300

## Additional items SR 200 / SR 300 / SK 100

22.187.0001	Ring-type filter for collecting receptacle 5 litres
22.748.0001	Dust filter clamping rings for ring-type filter, incl. 5

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22.524.0002	dust filters
01.011.0023	Dust filters for ring-type filter, 25 pieces
22.187.0003	Collecting receptacle, 5 litres, stainless steel
	Filter hose for collecting receptacle 5 litres, length 240 mm, incl. comfort flange
02.186.0027	Spare filter hose for 22.187.0003
22.003.0011	Collecting receptacle, 30 litres, plastic, incl. filter hose and comfort flange
02.186.0033	Spare filter hose for 22.003.0011