

## 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.

With its adjustable speed of 3,000 to 10,000 rpm the rotor beater mill 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
- high final fineness
- adjustable speed for different applications
- easy cleaning thanks to exchangeable push-fit grinding insert, rotor and cassette
- 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
- electric engine brake
- defined final fineness due to bottom sieves with aperture sizes from 0.08 - 10 mm
- central locking device
- wide range of accessories including various collection and feeding systems, rotors and sieves

### 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*	< 25 mm
Final fineness*	< 50 µm
Speed at 50 Hz (60 Hz)	3,000 - 10,000 min <sup>-1</sup> (in steps of 500)



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	min <sup>-1</sup> )
Rotor peripheral speed	22 ..72 m/s
Types of rotors	standard / distance
Material of grinding tools	rotor and sieves of stainless steel
Sieve sizes	trapezoid holes 0.08 / 0.12 / 0.20 / 0.25 / 0.35 / 0.50 / 0.75 / 1.00 / 1.25 / 1.50 / 2.00 mm round holes 3.00 / 4.00 / 10.00 mm
Hinged hopper	removeable hopper
Dust extraction unit	optional cyclone
Collector capacity	5 l / optional: 30 l
Drive	3-phase motor
Electrical supply data	200 .. 240 V
Power connection	1-phase
Engine brake	yes, electric
Protection code	IP 41
Power consumption	2.5 kW
W x H x D closed	600 x 1200 x 700 mm (with base frame)
Net weight	~ 60 kg (with base frame)
Standards	CE

### Please note:

\*depending on feed material and instrument configuration/settings

## 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 safety switch, splashback and access barrier in the inlet and outlet areas, Rotor Beater Mills offer the highest



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degree of operating safety.

### Order data

#### Rotor Beater Mill SR 300

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

20.752.0001 SR 300, 200-240 V, 50/60 Hz  
22.824.0007 Base frame with wheels

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

##### Retaining frame 360° of stainless steel

22.642.0004 Retaining frame 360°

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

02.407.0057 Trapezoid holes, 0.08 mm  
02.407.0026 Trapezoid holes, 0.12 mm  
02.407.0028 Trapezoid holes, 0.20 mm  
02.407.0029 Trapezoid holes, 0.25 mm  
02.407.0120 Trapezoid holes, 0.35 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° of stainless steel

02.143.0066 Retaining frame with grinding insert for sieves 180°

##### 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  
03.647.0395 Trapezoid holes, 0.35 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



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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

## Vibratory Feeder DR 100

### DR 100 complete unit, incl. feeding kit (push-fit feed chute 75 mm, holder for push-fit feed chute, hopper 3.5 litres, holder for hopper) and fixture

70.938.2003	DR 100, 220-240 V, 50 Hz
70.938.2004	DR 100, 220-240 V, 60 Hz

### DR 100, 200 V, 60 Hz

### DR 100, 200 V, 50 Hz

22.935.0020	Cyclone-suction-combination for SR 300 Cyclone unit incl. 5 litres collection receptacle (to be used with industrial vacuum cleaner)
22.935.0021	Cyclone unit incl. 30 litres collection receptacle (to be used with industrial vacuum cleaner)
22.748.0005	Industrial vacuum cleaner for mills, 230 V, 50/60 Hz (other electrical versions and spare filter bags available upon request)

## Additional items SR 300

22.717.0007	Distance rotor of stainless steel
22.717.0006	Rotor of stainless steel
03.010.0052	Sieve cassette, stainless steel
22.187.0008	Ring-type filter for collecting receptacle 5 litres
22.748.0001	Dust filter clamping rings for ring-type filter, incl. 5 dust filters
22.524.0002	Dust filters for ring-type filter, 25 pieces
02.011.0038	Collecting receptacle, 5 litres, stainless steel
02.187.0020	Filter hose for collecting receptacle 5 litres, length 240 mm, incl. comfort flange
02.186.0037	Spare filter hose for 02.187.0020
22.003.0015	Collecting receptacle, 30 litres, plastic, incl. filter hose and comfort flange
02.186.0042	Spare filter hose for 22.003.0015