

ROTOR BEATER MILL SR 300



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

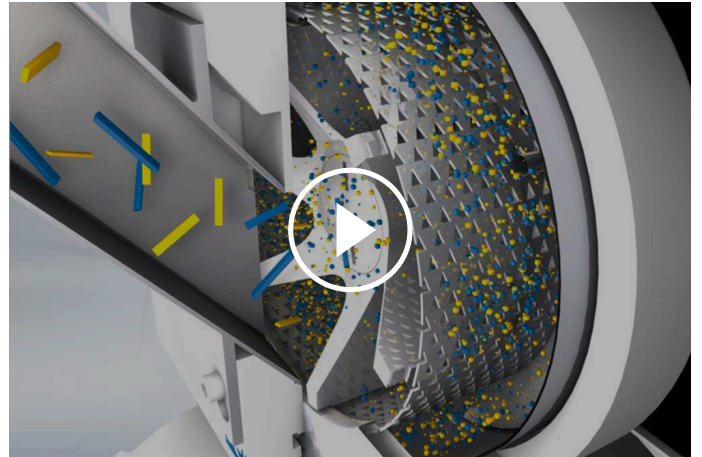
FEATURES

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 ⁻¹ (in steps of 500 min ⁻¹)
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

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 degree of operating safety.




[Click to view video](#)


www.retsch.com/sr300

ORDER DATA

ROTOR BEATER MILL SR 300

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, incl. standard rotor

20.752.0002  SR 300 200–240 V, 50/60 Hz, incl. distance rotor

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	
02.407.0037		Round holes	5.00 mm	
02.407.0043		Round holes	6.00 mm	
02.407.0039		Round holes	8.00 mm	for pre-grinding
02.407.0040		Round holes	10.00 mm	

RETAINING FRAME 180° OF STAINLESS STEEL

02.143.0066		Retaining frame with grinding insert for sieves 180°		
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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	
03.647.0395		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	
03.647.0048		Round holes	3.00 mm	
03.647.0049		Round holes	4.00 mm	
03.647.0050		Round holes	5.00 mm	
03.647.0052		Round holes	8.00 mm	
03.647.0053		Round holes	10.00 mm	for pre-grinding

ACCESSORIES SR 300

VIBRATORY FEEDER DR 100 COMPLETE UNIT, INCL. HOPPER 3.5 LITRES,
PUSH-FIT FEED CHUTE 75 MM, HOLDER FOR PUSH-FIT FEED CHUTE, 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

VIBRATORY FEEDER DR 100 COMPLETE UNIT, INCL. HOPPER 22 LITRES,
PUSH-FIT FEED CHUTE 75 MM, HOLDER FOR PUSH-FIT FEED CHUTE, HOLDER FOR HOPPER AND

FIXTURE

70.938.2008  DR 100, 220–240 V, 50 Hz

70.938.2007  DR 100, 220–240 V, 60 Hz

FEED HOPPER DR 100

02.785.0019  Feed hopper, 3.5 litres, stainless steel

02.785.0251 Feed hopper, 22 litres, stainless steel

CYCLONE-SUCTION-COMBINATION FOR SR 300

22.935.0020 Cyclone unit incl. 5 litres collection receptacle (to be used with industrial vacuum cleaner)

22.935.0021 Cyclone unit incl. 26 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  Standard 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, 26 litres, plastic, incl. filter hose and "comfort" flange

02.186.0042



Spare filter hose for 22.003.0015

99.200.0024

IQ/OQ Documentation for SR 300