



## РЕЖЕЩА МЕЛНИЦА SM 100

The budget-priced basic model

**Cutting mills are the first choice for the size reduction of soft, medium-hard, tough, elastic, fibrous, and heterogeneous mixes of products.**

The SM 100 is the budget-priced basic model among the RETSCH cutting mills. It is suitable for the size reduction of samples which don't require extremely high forces. The mill has been specially designed for routine applications. It is easy to operate and can be mounted on a solid table or on the optional base frame.



[Click to view video](#)

## ЗА ЕЖЕДНЕВНО ПОЛЗВАНЕ

- | Feed size < 60 x 80 mm
- | Defined final fineness due to bottom sieves with aperture sizes from 0.25 - 20 mm
- | Quick and easy cleaning due to smooth surfaces and push-fit rotor
- | Gravity outlet for collection vessels of different sizes
- | Wide range of accessories including various hoppers, collection systems, rotors and sieves
- | най-високи стандарти за безопасност



РЕЖЕЩА МЕЛНИЦА SM 100

## ACCESSORIES FOR SAFE AND EFFECTIVE GRINDING PROCESSES

The SM 100 can be equipped with different rotors, hoppers and bottom sieves. The mill and accessories, including cutting bars and cutting plates, are also available in versions for heavy-metal-free size reduction.



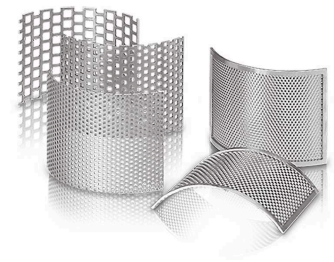
### ROTOR TYPES

A parallel section rotor and a 6-disc rotor are available in stainless and heavy-metal-free steel for optimum adaptation to sample properties.



### HOPPER TYPES

The SM 100 can be equipped either with the universal hopper, which is suitable for most samples, or the long-stock hopper which is specially designed for long samples.



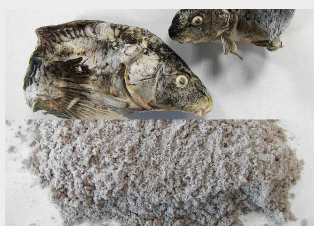
### BOTTOM SIEVES

The bottom sieves with trapezoid or square holes are made of stainless steel or heavy-metal-free steel.

РЕЖЕЩА МЕЛНИЦА SM 100

## ТИПИЧНИ ОБРАЗЦИ НА МАТЕРИАЛИ

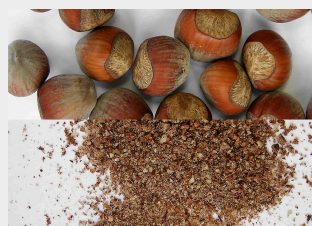
RETSCH cutting mills are suitable for a vast range of applications. Typical materials include PET preforms, aluminium slag, animal feed, bones, cables, cardboard, electronic components, feed pellets, foils, food, leather, lignite, material mixtures, non-ferrous metals, paper, pharmaceutical products, plant materials, plastic toys, plastics, polymers, refuse derived fuels, resins, rubber, spices, straw, textiles, waste, wood, etc.



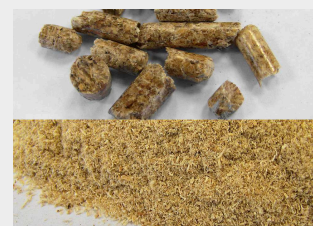
риба



дърво



ядки



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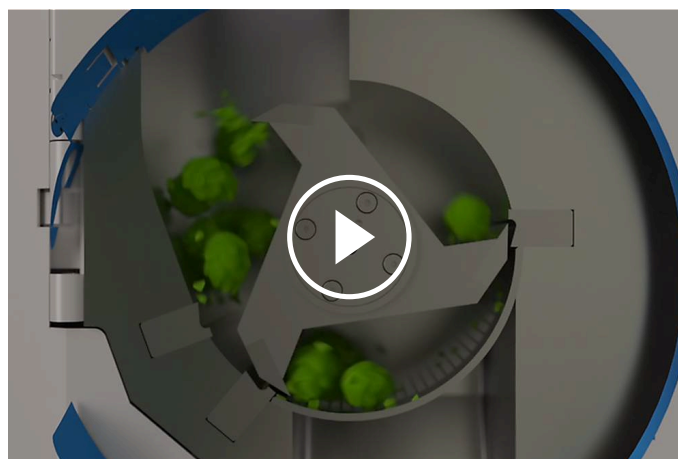
РЕЖЕЩА МЕЛНИЦА SM 100

## ПРИНЦИП НА РАБОТА

Намаляването на размера на частиците в режещата мелница SM 100 се извършва с помощта на силите на срязване. Пробата се смилва между ножовете на ротора и неподвижните ножове на статора.

В 6-дисковият ротор са инсталирани спирално последователно твърди пластини с режещи крайници. Ножовете на паралелния ротор са по-мощни и раздробяват пробата с усилен режещ ефект.

Времето за смилане е много кратко; след като пробата стане по-малка от отворите на дъното сито, тя преминава през него и се събира в колектора. Скоростта на ротора от 1.500 об./мин. подsigурява внимателно и бързо маналяване



[Click to view video](#)

големината на частиците.

РЕЖЕЩА МЕЛНИЦА SM 100

## TECHNICAL DATA

<b>Приложения</b>	намаляване на размера посредством рязане
<b>Област на приложение</b>	биология, медицина / фармация, околна среда / рециклиране, селско стопанство, техника / електроника, химия / пластмаси, храни
<b>Материали</b>	мек, средно твърди, еластични, влакнести
<b>Принцип на смилане</b>	срязване
<b>Максимален размер на захранващият продукт</b>	< 60 x 80 мм
<b>Големина след смилане*</b>	0.25 - 20 мм
<b>Скорост при 50 Херца (60 Херца)</b>	1,500 об./мин.
<b>Периферна скорост на ротора</b>	9.4 - 11.4 м/с
<b>Диаметър на ротора</b>	129.5 мм
<b>Тип на ротора</b>	паралелен ротор / 6-дисков ротор
<b>Видове бункери</b>	стандартен, удължен
<b>Материал на смилещите части</b>	неръждаема стомана, стомана за смилане без присъствие на тежки метали, волфрамов карбид
<b>Форма и размери отворите на ситата</b>	трапецовидни отвори 0.25 / 0.50 / 0.75 / 1.00 / 1.50 мм квадратни отвори 2.00 / 4.00 / 6.00 / 8.00 / 10.00 / 20.00 мм
<b>Колектори / обеми</b>	сибирателен съд 5 л / опция: 30 л събирателни бутилки 0.25 / 0.5 л
<b>Задвижване</b>	трифазен мотор
<b>Мощност на двигателя</b>	1,5 kW
<b>Данни за електрозахранването</b>	различни напрежения
<b>Захранване</b>	трифазен
<b>Защита</b>	IP 54
<b>Размери затворена</b>	582 x 1675 x 700 мм (с базова рамка и стандартен бункер)
<b>Нетно тегло</b>	~ 73 кг без бункер, ротор и базова основа
<b>Стандарти</b>	CE







\*в зависимост от захранващия материал и настройките на инструмента\*

[www.retsch.bg/sm100](http://www.retsch.bg/sm100)

## ДАННИ ПОРЪЧКА





### CUTTING MILL SM 100

**Cutting Mill SM 100 complete with collecting receptacle, 5 litres**  
(please order rotor, hopper, bottom sieve and optional base frame separately)



20.727.0001		SM 100	3~ 400 V, 50 Hz
20.727.0009		SM 100	220–230 V, 50/60 Hz, with frequency converter
20.727.0002		 SM 100	3~ 400 V, 50 Hz, for grinding without heavy-metal contamination
20.727.0010		 SM 100	220–230 V, 50/60 Hz, with frequency converter, for grinding without heavy-metal contamination
22.824.0005		Base frame with wheels for SM 100	

#### other electrical versions available




#### ROTORS SM 100, SM 200, SM 300

22.608.0022		6-disc rotor, stainless steel, with reversible cutting tips of tungsten carbide	
22.608.0028		6-disc rotor, steel 1.0580, with reversible cutting tips of tungsten carbide, for grinding without heavy-metal contamination	
22.608.0021		Parallel section rotor, stainless steel	
22.608.0018		Parallel section rotor, steel 1.0580, for grinding without heavy-metal contamination	

#### HOPPERS












22.785.0007		Universal hopper with plastic plunger for SM 100	
22.408.0004		Long stock hopper with wooden plunger for SM 100	


#### ADDITIONAL PLUNGERS FOR UNIVERSAL HOPPER

22.725.0010		Plastic plunger
22.725.0011		Wooden plunger
22.725.0012		Aluminum plunger


## BOTTOM SIEVES SM 100, SM 200, SM 300


### BOTTOM SIEVES OF STAINLESS STEEL


03.647.0312		Trapezoid holes	0.25 mm
03.647.0313		Trapezoid holes	0.50 mm
03.647.0314		Trapezoid holes	0.75 mm
03.647.0315		Trapezoid holes	1.00 mm
03.647.0316		Trapezoid holes	1.50 mm
03.647.0317		Trapezoid holes	2.00 mm
03.647.0318		Square holes	2.00 mm
03.647.0319		Square holes	3.00 mm
03.647.0320		Square holes	4.00 mm
03.647.0321		Square holes	6.00 mm
03.647.0322		Square holes	8.00 mm
03.647.0024		Square holes	10.00 mm


03.647.0062  Square holes 20.00 mm

**BOTTOM SIEVES OF STEEL 1.0353 FOR GRINDING WITHOUT HEAVY-METAL CONTAMINATION**

03.647.0325  Trapezoid holes 0.25 mm

03.647.0326  Trapezoid holes 0.50 mm


03.647.0327  Trapezoid holes 0.75 mm

03.647.0328  Trapezoid holes 1.00 mm


03.647.0329 Trapezoid holes 1.50 mm


03.647.0331 Square holes 2.00 mm

03.647.0332 Square holes 3.00 mm

03.647.0333  Square holes 4.00 mm


03.647.0334 Square holes 6.00 mm


03.647.0335  Square holes 8.00 mm


03.647.0359  Square holes 10.00 mm




**ACCESSORIES SM 100, SM 200, SM 300**

**COLLECTING RECEPTACLES**




22.003.0008  Collecting unit 250 / 500 ml, incl. 2 sample bottles

22.523.0001  Sample bottles, 250 ml, 10 pieces



22.003.0007  Collecting receptacle, 5 litres, stainless steel

05.045.0528		Collecting receptacle, 30 litres
22.187.0006	 <b>i</b>	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	 <b>i</b>	Dust filters for ring-type filter, 25 pcs.
22.187.0007		Filter hose for collecting receptacle, 5 litres, incl. holder


#### ACCESSORIES FOR ROTORS

22.908.0001		Reversible cutting tip incl. screws, tungsten carbide, for 6-disc rotor (10 pcs.)
22.151.0004		Cutting plates, stainless steel, for parallel section rotor, 1 set (3 pieces)
22.151.0006	 <b>i</b>	Cutting plates, steel 1.1740, for parallel section rotor, 1 set (3 pieces) for grinding without heavy-metal contamination

#### STATIONARY CUTTING BARS

22.152.0007		Cutting bars, stainless steel, 1 set (3 pieces) for SM 100
22.152.0009	 <b>i</b>	Cutting bars, steel 1.1740, 1 set (3 pieces) for SM 100 for grinding without heavy-metal contamination
22.608.0035		Adjustment aid for cutting bars

#### ADDITIONAL ITEMS SM 100, SM 200, SM 300

22.225.0002		Replacement extraction tool for rotor
22.111.0003		Gasket for door SM 100 / SM 200 / SM 300, 1 piece
99.200.0032		IQ/OQ Documentation for SM 100