

## Cross Beater Mill SK 100

### General Information

The Cross Beater Mill SK 100 is suitable for coarse and fine size reduction, either in batches or continuously. It can process medium-hard and brittle materials and is easy to operate.

The SK 100 is intended for universal use: from sample preparation in laboratories up to preparing sample batches in pilot plants or production facilities.

### Application Examples

cement clinker, chamotte, coal, coke, glass, granite, gravel, gypsum, minerals, ores, oxide ceramics, slag, soils, ...

### Product Advantages

- suitable for batchwise operation of larger quantities
- defined final fineness due to bottom sieves with aperture sizes from 0.12 - 10 mm
- exchangeable grinding and sieve inserts
- wide range of accessories including various collection and feeding systems, rotors and sieves
- easy cleaning
- motor brake
- central locking device

### Features

Applications	size reduction
Field of application	agriculture, chemistry / plastics, construction materials, environment / recycling, geology / metallurgy, glass / ceramics
Feed material	medium-hard, brittle
Size reduction principle	impact
Material feed size*	< 15 mm
Final fineness (technical value)	< 100 µm
Final fineness*	< 100 µm
Speed at 50 Hz (60 Hz)	2850 min <sup>-1</sup> (3420 min <sup>-1</sup> )
Rotor peripheral speed	22 m/s (26 m/s)
Material of grinding tools	hardened steel, stainless steel, cast iron, steel 1.1740 (for heavy-metal free grinding)
Sieve sizes	trapezoid holes 0.12 / 0.20 / 0.25 / 0.50 / 0.75 / 1.00 / 1.50 / 2.00 mm round holes 3.00 / 4.00 / 5.00 / 6.00 / 8.00 / 10.00 mm
Collector capacity	5 l / optional: 30 l
Drive	1-phase motor / 3-phase motor





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Drive power	1.1 kW
Electrical supply data	different voltages
Power connection	1-phase / 3-phase
Protection code	IP 54
W x H x D closed	560 x 1150 x 700 mm (with base frame)
Net weight	~ 57 kg (with base frame)
Documentation	Operation & Application Video
Standards	CE

### Please note:

\*depending on feed material and instrument configuration/settings

## Function Principle

Size reduction in the SK 100 takes place by impact effects. The feed material passes from the hopper directly into the center of the grinding chamber, where it is caught by the cross beater and ground between the baffle plates of the cross beater and the toothed grinding insert.

As soon as the material is smaller than the aperture size of the bottom sieve used, it passes through the sieve and enters the collecting receptacle. The air drawn in through the hopper by the cross beater accelerates the discharge of the ground material. The airborne fine fraction is separated off by a downstream filter system.

## Order data

### Cross Beater Mill SK 100

**with cross beater, baffle plates, 240 mm filter hose and collecting receptacle (please order bottom sieve and optional base frame separately)**

#### grinding assembly / cross beater / baffle plates

20.735.0001	SK 100, 3/N~ 400 V, 50 Hz, cast iron / cast iron / hardened steel
20.735.0007	SK 100, 230 V, 50 Hz, cast iron / cast iron / hardened steel
20.735.0002	SK 100, 3/N~ 400 V, 50 Hz, hardened steel / cast iron / hardened steel
20.735.0008	SK 100, 230 V, 50 Hz, hardened steel / cast iron / hardened steel
20.735.0003	SK 100, 3/N~ 400 V, 50 Hz, stainless steel / stainless steel / stainless steel
20.735.0009	SK 100, 230 V, 50 Hz, stainless steel / stainless steel / stainless steel

#### for grinding without heavy-metal contamination

20.735.1001	SK 100, 3/N~ 400 V, 50 Hz, cast iron / cast iron /
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## Cross Beater Mill SK 100

20.735.1007	steel 1.1740
	SK 100, 230 V, 50 Hz, cast iron / cast iron / steel 1.1740

other electrical versions available for the same price

### Bottom sieves SK 100 of stainless steel

02.407.0059	Trapezoid holes, 0.12 mm
02.407.0013	Trapezoid holes, 0.20 mm
02.407.0001	Trapezoid holes, 0.25 mm
02.407.0002	Trapezoid holes, 0.50 mm
02.407.0003	Trapezoid holes, 0.75 mm
02.407.0004	Trapezoid holes, 1.00 mm
02.407.0005	Trapezoid holes, 1.50 mm
02.407.0006	Trapezoid holes, 2.00 mm
02.407.0007	Round holes, 3.00 mm
02.407.0008	Round holes, 4.00 mm
02.407.0009	Round holes, 5.00 mm
02.407.0010	Round holes, 6.00 mm
02.407.0011	Round holes, 8.00 mm
02.407.0012	Round holes, 10.00 mm

### Bottom sieves of steel 1.0344 for grinding without heavy-metal contamination

02.407.0083	Trapezoid holes, 0.12 mm
02.407.0084	Trapezoid holes, 0.20 mm
02.407.0085	Trapezoid holes, 0.25 mm
02.407.0086	Trapezoid holes, 0.50 mm
02.407.0087	Trapezoid holes, 1.00 mm
02.407.0088	Trapezoid holes, 2.00 mm

### Additional items SK 100

01.824.0028	Base frame for SK 100
22.609.0003	Wheels for base frame
22.443.0001	Grinding assembly, cast iron
22.443.0002	Grinding assembly, hardened steel
22.443.0003	Grinding assembly, stainless steel
22.716.0001	Cross beater, cast iron
22.716.0002	Cross beater, stainless steel
22.526.0001	Baffle plates, hardened steel, 3 pieces
22.526.0002	Baffle plates, stainless steel, 3 pieces
22.526.0006	Baffle plates, steel 1.1740, 3 pieces for grinding without heavy-metal contamination

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



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22.187.0001	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
01.011.0023	Collecting receptacle, 5 litres, stainless steel
22.187.0003	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
03.241.0006	Door gasket SK 100