

Cross Beater Mill SK 300

General Information

The Cross Beater Mill SK 300 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.

With its adjustable speed of 2,000 to 4,000 rpm the SK 300 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
- adjustable speed for different applications
- defined final fineness due to bottom sieves with aperture sizes from 0.12 - 10 mm
- easy cleaning thanks to exchangeable push-fit grinding insert, rotor and sieve
- wide range of accessories including various collection and feeding systems, rotors and sieves
- electric engine brake
- central locking device
- Optional cyclone available

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*	< 25 mm
Final fineness*	< 100 µm
Speed at 50 Hz (60 Hz)	2000 - 4000 min ⁻¹ (in steps of 200 min ⁻¹)
Speed setting	yes
Rotor peripheral speed	15.5 m/s .. 31 m/s
Types of rotors	stainless steel / cast iron
Material of grinding tools	hardened steel, stainless steel, cast iron, steel 1.1740 (for heavy-metal free grinding)

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Sieve sizes	trapezoid holes 0.12 / 0.20 / 0.25 / 0.35 / 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
Dust extraction unit	optional cyclone
Collector capacity	5 l / optional: 30 l
Drive	3-phase motor with frequency converter
Drive power	1.1 kW
Electrical supply data	200 .. 240 V 50 / 60 Hz
Power connection	1-phase
Protection code	IP 41
Power consumption	1.5 kW
W x H x D closed	600 x 1200 x 700 mm (with base frame)
Net weight	~ 55 kg (with base frame)
Remark weight (without hopper etc.)	~ 45 kg (without base frame)
Standards	CE

Please note:

*depending on feed material and instrument configuration/settings

Videolink



<http://www.retsch.com/sk300>

Function Principle

Size reduction in the SK 300 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.

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incl. order data

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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

20.751.0001	SK 300, 200-240 V, 50/60 Hz, cast iron / cast iron / hardened steel
20.751.0002	SK 300, 200-240 V, 50/60 Hz, hardened steel / cast iron / hardened steel
20.751.0003	SK 300, 200-240 V, 50/60 Hz, stainless steel / stainless steel / stainless steel
20.751.0004	SK 300, 200-240 V, 50/60 Hz, cast iron / cast iron / steel 1.1740
22.824.0007	Base frame with wheels

Bottom sieves SK 300 of stainless steel

02.407.0098	Trapezoid holes, 0.12 mm
02.407.0099	Trapezoid holes, 0.20 mm
02.407.0100	Trapezoid holes, 0.25 mm
02.407.0121	Trapezoid holes, 0.35 mm
02.407.0101	Trapezoid holes, 0.50 mm
02.407.0102	Trapezoid holes, 0.75 mm
02.407.0103	Trapezoid holes, 1.00 mm
02.407.0104	Trapezoid holes, 1.50 mm
02.407.0105	Trapezoid holes, 2.00 mm
02.407.0106	Round holes, 3.00 mm
02.407.0107	Round holes, 4.00 mm
02.407.0108	Round holes, 5.00 mm
02.407.0109	Round holes, 6.00 mm
02.407.0110	Round holes, 8.00 mm
02.407.0111	Round holes, 10.00 mm

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

02.407.0112	Trapezoid holes, 0.12 mm
02.407.0113	Trapezoid holes, 0.20 mm
02.407.0114	Trapezoid holes, 0.25 mm
02.407.0122	Trapezoid holes, 0.35 mm
02.407.0115	Trapezoid holes, 0.50 mm
02.407.0116	Trapezoid holes, 0.75 mm
02.407.0117	Trapezoid holes, 1.00 mm
02.407.0118	Trapezoid holes, 1.50 mm

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02.407.0119

Trapezoid holes, 2.00 mm

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

70.938.2005

DR 100, 200 V, 60 Hz

70.938.2006

DR 100, 200 V, 50 Hz

Cyclone-suction-combination for SK 300

22.935.0022

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

22.935.0023

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 SK 300

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

99.200.0023

IQ/OQ Documentation for SK 300

22.443.0004

Grinding assembly, cast iron

22.443.0005

Grinding assembly, hardened steel

22.443.0006

Grinding assembly, stainless steel

22.716.0003

Cross beater, cast iron

22.716.0004

Cross beater, stainless steel

22.526.0007

Baffle plates, hardened steel, 3 pieces

22.526.0008

Baffle plates, stainless steel, 3 pieces

22.526.0009

Baffle plates, steel 1.1740, 3 pieces for grinding without heavy-metal contamination