

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.