

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) |





Cross Beater Mill SK 300

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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 | ~ 57 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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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

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|-------------|--|
| 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

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|-------------|--------------------------|
| 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 |



Cross Beater Mill SK 300

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