

VIBRATORY DISC MILL RS 300



The Vibratory Disc Mill RS 300 is suitable for the **extremely quick, loss-free and reproducible grinding** of medium-hard, brittle and fibrous materials to analytical fineness. It is possible to process 1, 2, 3 or 4 samples simultaneously. Thanks to the robust universal drive shaft, which sets the grinding jar into a 3-D motion, this mill accepts grinding set weights of up to 30 kg. The closed grinding system guarantees complete processing of the sample.

Just like the RS 200, the RS 300 with its **robust design** has proven to be ideally suitable for applications in geology, mineralogy, metallurgy, as well as in the building materials sector (cement) and in power plants.

Due to the **high end fineness** and speed the RETSCH Vibratory Disc Mills are the perfect choice when it comes to **preparing samples for spectral analysis**.

APPLICATION EXAMPLES

cement, cement clinker, ceramics, coal, coke, concrete, corundum, electronic components, glass, metal oxides, minerals, ores, plant materials, silicates, slag, soils, ...

PRODUCT ADVANTAGES

- | reproducible results and homogeneous samples thanks to universal drive shaft (3D vibration of grinding sets)
- | speed: 912 min⁻¹
- | short grinding times
- | autoreverse function (left/right rotation)
- | programmable interval function (start/ stop automatic)
- | wide range of materials for contamination-free grinding
- | grinding jar volumes from 100 ml up to 2,000 ml
- | closed and noise-insulated grinding chamber
- | pneumatic grinding-jar clamping (with air-pressure) for convenient and safe handling
- | additional security feature: mill only starts if the pneumatic pressure is correct
- | optional Autolifter for ergonomic lifting of heavy grinding sets

FEATURES

Applications	size reduction, mixing, tritulating
Field of application	construction materials, environment / recycling, geology / metallurgy, glass / ceramics
Feed material	medium-hard, hard, brittle, fibrous
Size reduction principle	pressure, friction
Material feed size*	< 20 mm
Final fineness*	< 20 µm
Batch size / feed quantity*	35 - 2,000 ml
Speed at 50 Hz (60 Hz)	912 min ⁻¹
Material of grinding tools	chrome steel, hardened steel, tungsten carbide, zirconium oxide, steel 1.1740 (for heavy-metal free grinding)
Grinding jar sizes	100 ml / 800 ml / 1,000 ml / 2,000 ml
Setting of grinding time	digital, 00:00 to 59:59
Drive	3-phase motor
Drive power	2.2 kW
Electrical supply data	different voltages
Power connection	3-phase
Protection code	IP 40
W x H x D closed	1150 x 1400 x 810 mm
Net weight	~ 415 kg (without grinding set)
Standards	CE

FUNCTION PRINCIPLE

The vibratory disc mill comminutes by impact and friction. The grinding set is firmly attached to the vibration plate with a pneumatic quick clamping device. The plate with the grinding set is subjected to 3-D vibrations.

The sample is crushed by **extreme pressure, impact and friction generated by centrifugal forces acting on the grinding rings in the dish.**The vibrations are produced by a frequency controlled 2.2 kW 3-phase motor.

www.retsch.com/rs300

ORDER DATA

VIBRATORY DISC MILL RS 300

**Vibratory Disc Mill RS 300 for grinding sets 100 ml - 2000 ml
(please order grinding sets separately)**

21.101.0001  RS 300 3/N~ 400 V, 50 Hz,
without AutoLifter

21.101.0005  RS 300 3/N~ 220 V, 60 Hz,
without AutoLifter

other electrical versions available for the same price

ACCESSORIES / SPARE PARTS RS 300

23.225.0003 AutoLifter for ergonomical outlifting of grinding sets 800, 1000 and 2000 ml

03.143.0071 Platform Insert

03.225.0093 Disc hook

23.701.0007 Air compressor 200/240 V, 50 Hz

03.381.0010 Airbag clamp

23.181.0001 Spring (set of 6 pieces)

23.043.0001 Spring spigot bush (set of 12 pieces)

2000 ML GRINDING SETS

**Complete set, incl. grinding jar, lid with gasket and disc
(no spacer ring needed)**

23.462.0002 Grinding set complete, chrome steel

23.462.0020 Grinding set complete, standard steel

23.462.0003 Grinding set complete, stainless steel 1.4401 polished

ACCESSORIES / SPARE PARTS

03.462.0378 Grinding jar, chrome steel

03.470.0041 Disc, chrome steel

03.107.0589 Lid, chrome steel

03.107.0592	Aeration lid, chrome steel
03.462.0376	Grinding jar, standard steel
03.470.0042	Disc, standard steel
03.107.0588	Lid, standard steel
03.111.0364	Gasket for lid

1000 ML GRINDING SETS

**Complete set, incl. grinding jar, lid with gasket and disc
(please order spacer ring separately)**

23.462.0016	Grinding set complete, chrome steel
23.462.0014	Grinding set complete, standard steel

ACCESSORIES / SPARE PARTS

23.025.0109	Spacer ring for chrome steel, standard steel and silicon nitride grinding set
03.462.0377	Grinding jar, chrome steel
03.470.0039	Disc, chrome steel
03.107.0587	Lid, chrome steel
03.462.0372	Grinding jar, standard steel
03.470.0040	Disc, standard steel
03.107.0586	Lid, standard steel
03.111.0363	Gasket for lid

800 ML GRINDING SETS

**Complete set, incl. grinding jar, lid with gasket and disc
(please order spacer ring separately)**

23.462.0024	Grinding set complete, chrome steel
23.462.0018	Grinding set complete, standard steel

ACCESSORIES / SPARE PARTS

23.025.0109	Spacer ring for chrome steel and standard steel grinding set
03.462.0379	Grinding jar, chrome steel
03.470.0037	Disc, chrome steel

03.107.0585	Lid, chrome steel
03.462.0371	Grinding jar, standard steel
03.470.0038	Disc, standard steel
03.107.0584	Lid, standard steel
03.111.0360	Gasket for lid

100 ML GRINDING SETS

**Complete set, incl. grinding jar, lid with gasket and disc
(please order spacer ring separately)**

23.462.0008	Grinding set complete, chrome steel
23.462.0017	Grinding set complete, standard steel
23.462.0006	Grinding set complete, tungsten carbide, light
23.462.0007	Grinding set complete, tungsten carbide, with protective steel jacket

ACCESSORIES / SPARE PARTS

23.025.0104	Spacer ring for chrome steel and standard steel grinding set
23.025.0105	Spacer ring for tungsten carbide grinding set
23.025.0106	Spacer ring for tungsten carbide light grinding set
23.025.0117	Adapter plate for 4 x 100 ml chrome steel, standard steel and tungsten carbide light grinding sets
05.114.0070	O-ring for lid

