



Product News

Fritsch: Fine and powerful laboratory scale Comminution with high Flexibility

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Idar-Oberstein, Germany –

Variable 300-3000 rpm for fine Comminution



Universal Cutting Mill Pulverisette 19
with variable rotational speed
adjustment.

The high-speed Universal Cutting Mill Pulverisette 19 comminutes up to 60 l/h of soft to medium-hard sample materials and fibrous materials at a torque of up to 30 Nm with reliable reproducible results. A special advantage of the machine is

the variable rotational speed adjustment in increments of hundred between 300 and 3000 rpm, which enables fine tuning of the comminution process for each sample within a very wide range of applications.

Variable 50-700 rpm for powerful Comminution

The low-speed Universal Cutting Mill Pulverisette 19 features variable rotational speed adjustment between 50-700 rpm and a torque of up to 67 Nm. Due to the combination of low cutting rate and extreme cutting forces, this enables a very powerful comminution of hard, tough-elastic samples and small sample quantities. At the same time, it is the ideal solution for all applications where e.g. thermal damage, the loss of highly volatile substances, or an excessively high fine share need to be avoided.

Cyclone Separators for Sample Extraction

For a clean, convenient, and cool sample extraction, the Pulverisette 19 can be combined with a Fritsch cyclone separator and an exhaust system. The strong airflow ensures simple feeding, increases throughput, reduces the thermal load of the samples and enables the use of finer sieve cassettes to achieve a higher final fineness – even for materials, which are otherwise difficult to comminute finely.

High-Performance for every Requirement



Pulversiette 19 with new Fritsch high-performance cyclone separator.

The Fritsch high-performance cyclone separator, made of stainless steel 304, is particularly indispensable in the analytical sector and in the food and pharmaceutical industries, and for the processing of heterogeneous mixtures of material, e. g. in the cement industry. Due to its high surface quality, it offers

enhanced resistance to corrosive media such as alkalis and acids and is especially easy to clean with a wide range of possible cleaning agents, without leaving any residues. In addition, it can be completely dismantled, fully emptied, flooded and sterilised, and thus offers reliable protection against cross-contamination. Especially convenient: The comminuted sample is drawn directly into the screwed-on sample glass or in a larger collecting vessel of up to 60 litres, in which it can also be transported and stored.

Small Volume Cyclone Separator

Especially for exhaustion of small sample quantities, Fritsch designed the compact small volume cyclone separator. It is made of plastic, can be dismantled completely and cleaned in a dishwasher for reliably preventing contaminations. The comminuted sample is collected in a screwed-on sample glass of 250 or 500 ml volume.