

Cyclone Mill TWISTER

General Information

The cyclone mill TWISTER is specially designed for the processing of foods and feeds for subsequent NIR analysis. The optimized form of rotor and grinding chamber generates an air jet which carries the ground sample through the integrated cyclone into the sample bottle. The air jet prevents the material from heating up, thus preserving the moisture content.

The provided sieves guarantee an optimum particle size distribution so that it is not necessary to recalibrate the NIR spectrometer. The rotor speed can be adjusted in 3 steps allowing for perfect adaptation to the sample requirements. Cleaning the mill is quick and easy as the air jet effects a complete discharge of the material from the grinding chamber.

This new cyclone mill in proven RETSCH quality optimizes the reproducible sample preparation to NIR analysis thus allowing for meaningful and reliable analysis results.



Application Examples

cereals, corn, feed pellets, forage, pasta, pharmaceutical products, rice, soy, tobacco, ...

Product Advantages

- ideal for grinding feeds, grains, forage and other similar products
- 3 controlled speeds
- cyclone separator with 250 ml collecting bottle for quick extraction of sample
- no cross contamination thanks to easy cleaning
- · convenient operating panel
- robust industrial motor 900 W with long lifetime

Features

Applications grinding prior to NIR analysis

Field of application agriculture, foods / feeds, medicine /

pharmaceuticals

Feed material fibrous, soft
Size reduction principle impact, friction
Material feed size* < 10 mm
Final fineness* < 250 µm
Batch size / feed quantity* < 250 ml

Speed setting 10,000 / 12,000 / 14,000 min⁻¹

Rotor peripheral speed 52 / 62 / 93 m/s

Rotor diameter 98.5 mm Sieve sizes 1 mm / 2 mm

Drive series-characteristic motor



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Drive power 900 W

Electrical supply data different voltages

Power connection 1-phase

W x H x D closed 449 x 427 x 283 mm

Net weight 14 kg Standards CE

Please note:

Function Principle

In the cyclone mill TWISTER size reduction is effected by impact and friction between the rotor and the friction surface of the fixed grinding ring. The feed material passes through the hopper (with splash-back protection) onto the rotor which is rotating with high speed and is thus submitted to preliminary size reduction. The sample is then thrown outwards by centrifugal acceleration and is pulverized between rotor and grinding ring. The 2-step grinding ensures particularly gentle but fast processing. The feed material only remains in the grinding chamber for a very short time. The integrated cyclone provides cooling of the sample and the grinding tools. This guarantees preservation of the sample properties to be determined. The ground material is separated in the cyclone and collected in a sample bottle.

Order data

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complete with rotor, grinding ring, sieve section (1.0 mm and 2.0 mm) and 10 sample bottles 250 ml

20.831.0001 TWISTER, 220-240 V, 50/60 Hz 20.831.0002 TWISTER, 100-120 V, 50/60 Hz

Additional items TWISTER

03.647.0366	Sieve section 0.5 mm
03.647.0367	Sieve section 0.8 mm
03.647.0368	Sieve section 1.0 mm
03.647.0369	Sieve section 2.0 mm
03.614.0011	Grinding ring

03.608.0110 TWISTER rotor
02.186.0004 Filter bag for cyclone

22.523.0001 Sample bottles, 250 ml, 10 pieces 22.523.0006 Sample bottles, 250 ml, 50 pieces

22.748.0005 Industrial vacuum cleaner for mills, 230 V, 50/60 Hz

(other electrical versions and spare filter bags

available upon request)

^{*}depending on feed material and instrument configuration/settings