



SYKLONMØLLE TWISTER

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.

FORDELER

- | 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

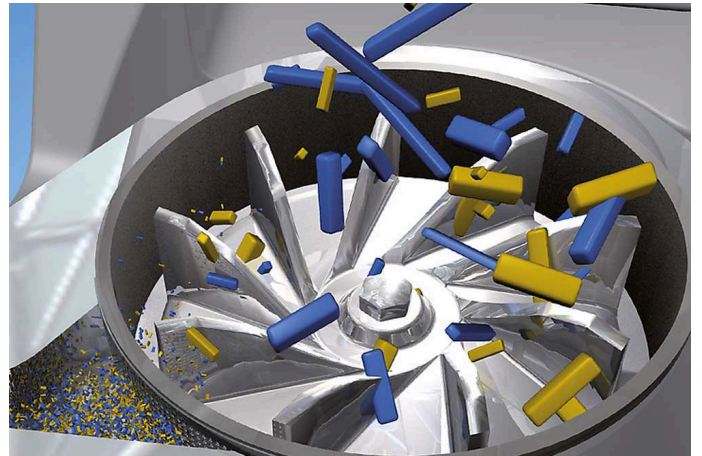
BRUKSEKSEMPLER

farmasøytiske produkter, forpellets, høy, kornprodukter, mais, pasta, ris, soya, tobakk, ...

To find the best solution for your sample preparation task, visit our application database.

VIRKEMÅTE

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.



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TECHNICAL DATA

funksjon	nedmaling før NIR-analyse
bruksområde	landbruk, matvarer / fôr, medisin / legemidler
matemateriale	fibrøs, mykt
nedmalingsprinsipp	sammenstøt, friksjon
matestørrelse*	< 10 mm
sluttfinhet*	< 250 µm
prøvevolum*	< 250 ml
innstilling av turtall	10,000 / 12,000 / 14,000 min ⁻¹
rotorens perifere hastighet	52 / 62 / 72 m/s
Rotordiameter	98.5 mm
siktestørrelser	1 mm / 2 mm
drift	serieviklet motor
drivkraft	900 W
Elektriske tilkoblingsdata	ulike spenninger
Nettilkobling	1-fase
b x h x d lukket	449 x 427 x 283 mm
nettovekt	14 kg
Normer / standarder	CE

*avhengig av matemateriale og apparatkonfigurerings-/apparatinnstillinger

[/twister](#)

BESTILLINGSINFO

CYCLONE MILL TWISTER

Cyclone Mill TWISTER complete with rotor, grinding ring, sieve section (1.0 mm and 2.0 mm), wooden plunger 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



ACCESSORIES CYCLONE MILL TWISTER

SIEVE SECTIONS TWISTER

03.647.0366 Sieve section 0.5 mm, stainless steel



03.647.0367 Sieve section 0.8 mm, stainless steel



03.647.0368 Sieve section 1.0 mm, stainless steel



03.647.0369 Sieve section 2.0 mm, stainless steel



ADDITIONAL ITEMS TWISTER

03.614.0011 Grinding ring, stainless steel with CrWFe coating



03.608.0110 TWISTER rotor, aluminum



22.355.0008 Cassette, incl. rotor, grinding ring, sieve section 1.0 mm and 2.0 mm

03.725.0035 Wooden plunger



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)