



CYCLONE MILL TWISTER TW200

- Feed size : < 10mm
- Final fineness: < 250µm
- Speed : 12000/14000/16000rpm

Cyclone Mill Twister TW200 is specifically crafted for food and feed sample preparation for NIR (near-infrared spectroscopy) analysis. Its unique design incorporates a rotary knife, grinding chamber, and grinding sieve to ensure that the sample remains unaffected by heat while achieving effective grinding. Additionally, the utilization of cyclone techniques enhances the reproducibility and reliability of NIR sample preparation results.

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APPLICATIONS

- **Application fields:** agriculture, pharmaceuticals, food, feed, chemistry.
- **Sample types:** fibrous, soft, dry, and low-fat (with up to 15% water and 10% fat).
- **Typical samples:** granule tablets, cereals, corn, cattle and horse feed, medicines, beans, tobacco, and more.

Cyclone Mill Twister TW200 streamlines sample preparation, delivering rapid and efficient results. It supports a range of analytical methods, including NIR, Kjeldahl, fiber analysis, and solvent extraction.

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Before Grinding	After Grinding	Parameter	
Cyclone Mill Twister TW200	Cyclone Mill Twister TW200	Sample	Soybean
		Speed setting	Speed 16000rpm
		Sample characteristic	Soft, Medium-hard
		Remarks	Feed speed
		Time	The sample can be collected immediately after feeding

Before Grinding	After Grinding	Parameter	
Cyclone Mill Twister TW200	Cyclone Mill Twister TW200	Sample	Wheat
		Speed setting	Speed 16000rpm
		Sample characteristic	Soft, Dry
		Remarks	The moisture content of the sample should not exceed 15%
		Time	The sample can be collected immediately after feeding

Before Grinding	After Grinding	Parameter	
Cyclone Mill Twister TW200	Cyclone Mill Twister TW200	Sample	Rice
		Speed setting	Speed 16000rpm
		Sample characteristic	Soft, Dry, Brittle
		Remarks	Feed speed
		Time	The sample can be collected immediately after feeding

FEATURES

- Adjustable hopper for varied feeding rates with different particle sizes.
- Robust motor for high efficiency.
- Minimal risk of cross-contamination and easy cleaning.
- Incorporates a professional industrial design for extended service life.
- Adjustable rotation speed, resulting in reduced sample residue and broader applicability.
- Features a unique grinding chamber design, particularly suitable for grinding cereal and feed.

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THEORY & METHOD

Working Principle

The sample is introduced into the grinding chamber via the hopper, which includes an anti-splash function. Within this chamber, it undergoes rapid processing due to the high-speed rotary knife (impeller) generating strong secondary impact and surface friction against the rotary knife and the fixed sieve ring. This results in rapid and effective crushing.

Subsequently, the crushed samples swiftly move into the sample-collecting bottle within a low-pressure area, facilitated by the turbine airflow. The turbine flow not only provides additional cooling but also serves cleaning purposes, preserving the original nature of the samples.

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TECHNICAL SPECIFICATIONS

Maximum feeding size	< 10mm
Final fineness	< 250μm
Speed setting	12000/14000/16000rpm
Rotor peripheral speed	61/71/82m/s
Batch feeding volume	□ 250ml
Rotor diameter	98mm
Rated power	1.5KW
Power supply	220V□ 50/60Hz (110V Also available upon request)
Instrument size (W*D*H)	318*257*470mm
Package size (W*D*H)	440*370*650mm
Net weight	22kg



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