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**Twister TW200**

## ◇ Twister TW200

TW200 is specially designed for the NIR(near infrared spectroscopy)analysis of food and feed sample preparation. The special design of the rotary knife, grinding chamber and grinding sieve ensures the sample is not affected by the heat and achieve good grinding effect. The application of the cyclone technique enables the results of the NIR sample preparation more reproducible and reliable.

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



TW200

TW200 enables very fast and convenient sample preparation and is suitable for a variety of analytical techniques, such as: NIR, kjeldahl, fibre determination and solvent extraction.

### Application Examples

Before grinding	After grinding	Parameter	
		Sample	Soybean
		Speed setting	16000rpm
		Sample characteristic	soft , medium-hard
		Remarks	feed speed
		Time	the sample can be collected immediately after feeding
		Sample	wheat
		Speed setting	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
		Sample	rice
		Speed setting	16000rpm
		Sample characteristic	soft , dry , brittle
		Remarks	feed speed
		Time	the sample can be collected immediately after feeding

## ○ Working Principle

The sample enters the grinding chamber through the hopper (with anti-splash function), under the action of the air flow generated by the high-speed rotary knife (impeller), produces huge secondary impact and surface friction with the rotary knife and fixed sieve ring, and achieves the crushing effect in a very short time. Continuously, the crushed samples quickly enter the sample-collect bottle in the low-pressure area through the turbine air flow. The turbine flow provides additional cooling conditions and cleaning functions, which ensures original nature of the samples.



## ○ Features and advantages

- A hopper with adjustable feeding rates for different particles.
- Strong motor, high efficiency.
- No cross contamination, easy to clean.
- Professional industrial design, long service life.
- Adjustable rotate speed, less sample residual and wider application.
- Unique grinding chamber design, better suitable for grinding of cereal and feed.

## ○ Technical Data

	TW200
Maximum feeding size	< 10mm
Final fineness	< 250 μm
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
Instrument size (W*D*H)	318*257*470mm
Package size (W*D*H)	440*370*650mm
Net weight	22kg



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