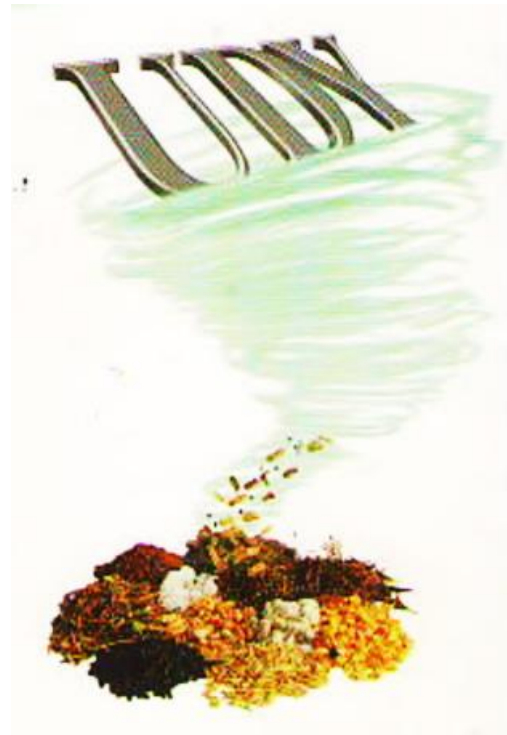


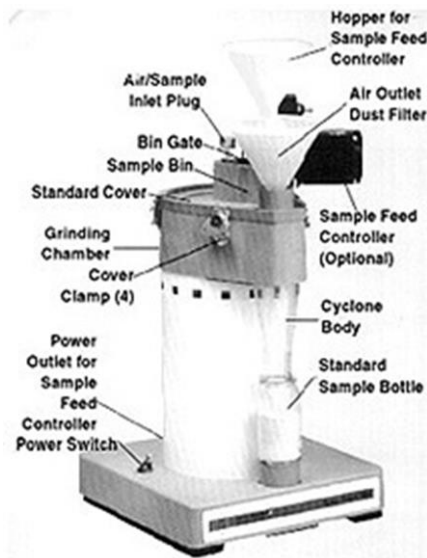


# CYCLONE SAMPLE MILL DIRECT DRIVE

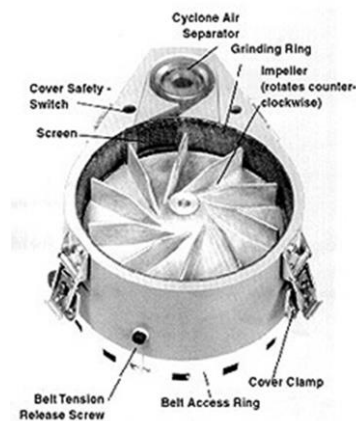
UDY Corporation 201 Rome Court, Fort Collins Co 80524  
Voice: 970-482-2060 Fax: 970-482-2067



The world famous Cyclone Sample Mill is used for lab sample preparation. This powerful mill grinds samples to the consistency necessary for accurate test results. Many models and accessories to meet your lab needs.



The UDY Cyclone Sample Mill is powered by a 1/2 hp AC/DC universal 115V; 10,000 rpm full load (16,000 rpm no load) The grinding ring has tungsten carbide abrasive particles on a steel base. Ground material is collected in 120 ml glass bottles, fabric bags, or other containers.



UDY Cyclone Sample Mills use a patented\* method of grinding. High speed rotation of the impeller and air currents throw particles into, and rolls them around the grinding ring. Particles remain in the grinding chamber until impact-shattering and abrasion make them small enough to flow out the exit with the air current. The air flow removes essentially all material and makes clean out unnecessary. The air flow also minimizes heating and therefore eliminates thermal degradation.



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## General Description:

- Reasonably Priced for the Budgeted Lab
- Same \*Patented Grinding Action as Our Belt Drive Cyclone Mill
- For General Purpose Grinding When You Would not Need Maximum Particle Size Consistency
- Can be used for NIR testing
- Popular Flow Through Design
- Uses 120, 500 or 1000 ml UDY Collection Bottles
- Direct Drive Train (no belt worries) 10,000 RPM, 1/2 hp Motor
- Able to use the UDY Retrofit Kit (PN 30-0598) For Products with Moisture Content >15% or oil Content >20%
- Uses other Standard UDY Belt Drive Supplies and Accessories (i.e. Vacuum, Sample Feed Controller, Screens, Grinding Ring, etc.)

Patent No. 3,754,715

## MATERIALS MILLABLE:

Materials which tend to gum-up and present problems in other dry mills can often be ground in the Cyclone Sample Mill because of its patented grinding action and the low residence time in the grinding chamber. A general guideline is that materials may contain up to 20% oil or 15% moisture. Some materials containing higher levels of moisture or oil can be ground. Marginal cases are substantially aided by use of a vacuum cleaner to increase air flow. This does not result in loss of sample.

Since many properties influence grinding characteristics, UDY Corporation personnel should be consulted regarding experience with specific materials. The applications laboratory will be happy to grind test samples and provide recommendations. If samples are corrosive or trace contamination is a concern, UDY personnel should be consulted

## INITIAL PARTICLE SIZE:

The maximum initial particle size depends on the mass and grinding properties of the material. The standard Mill Cover limits the maximum initial particle dimension to 5 mm (1/4 inch). Low mass materials such as forages, leaves, and wood chips can be introduced in larger initial sizes by using the optional Forage Cover. The Forage Cover permits feeding forage core samples directly into the Mill without preliminary grinding.



## Specifications:

**Cyclone Sample Mill - Direct Drive** Dimensions: 26x26x47 cm (10.3"x10.3"x18.5") LxWxH. Carton: 34x34x41 cm (13.5"x13.5"x16") LxWxH. Net weight: 13 kg (28 lb) Shipping weight: 15 kg (33 lb).

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Accessories included: 3 collection bottles w/snap cap, 2 hex keys, antistatic solution, 0.5 mm screen, and clean-out brushes.

Authorised Distributors  
Gulf Analab Technologies FZC  
P O Box No. 172104 | Dubai | United Arab Emirates

WWW.GULFANALAB.AE  
E mail :info@gulfanalab.ae  
Phone : +971 569456316