

# SENTRY 3000 HAMMERMILL



(shown with door open)

## GRINDING CHAMBER

The rugged, well-proven, and durable 18" full circle grinding chamber is identical in all 6 Mix Mill Hammer Mill Models – the **Sentry 100, 145, 1000, 2000, 3000, and 4000**. The heavy-duty wear plates on the front and rear of the grinding chamber can be easily replaced. The 360-degree screen can be set in 18 different positions to evenly distribute screen wear and prolong screen life. The 15 case hardened, beveled hammers, are set in three groups. The large center hub has four spacing steps which allow the gap between the hammer tips and the screen to be optimized for the size of the ingredient. The hub is mounted with a self-centering tapered bushing to reduce vibration and is equipped with a built-in hub puller for easy hub removal.

## ELECTRIC CONTROL PANEL

The Sentry 3000 is equipped with a wall-mounted, dust-tight, electric control panel. See other side for details

## INGREDIENT INFLOW

Inflow is provided by five separate augers which permit grinding and mixing feed. The major ingredient is delivered via a 6" auger, and up to 4 additional ingredients are delivered via four 4" proportioning augers which are gear-driven off the primary drive train. The overall rate of ingredient delivery is regulated by a DC Controller, and the rate at which each auger rotates is regulated by five robust and easy-to-set dials. The Dials, once calibrated, permit exact and reproducible diets to be formulated. A paddle switch in each of the inlet compartments shuts the mill off if the ingredient flow is interrupted for any reason. Each inlet compartment is guarded by magnets to prevent entry of metallic contaminants.

## MILL MOTOR

Select according to your needs and your local power source. Single phase motors are available in 5, 7.5, or 10 HP. Three phase motors are available in 5, 7.5, 10, and 20 HP. *NOTE: Rotation of single-phase motors may be reversed to equalize hammer and screen wear.*

## TWO UNLOADING AUGER SIZES

Either 3.5" (8.89 cm) or 6" (15.24 cm) discharge augers are available to meet specific output requirements. These are ordered separately.

**Mix-Mill**  
FEED PROCESSING SYSTEMS

## DIMENSIONS

50" High x 38" Wide x 33.5" Deep

## SENTRY 3000 STANDARD FEATURES

1. Five individual inlet augers and proportioners each fitted with magnetic guards
2. Electric control panel
3. Discharge cross auger motor and belt guard
4. 3/16" screen (other sizes available)
5. Door interlock safety switch

## GRINDING CAPACITIES\*

- Corn: 7,000 lbs (3175 kg) / hr
- Wheat: 8,600 lbs (3900 Kg) / hr

*\*Based on 3/16" screen and 10 HP motor. Capacities will vary with the type and nature of the ingredient as well as the mill HP and screen opening size.*



## ELECTRIC CONTROL PANEL

**Dimensions** of the panel are  
29" Wide x 20" High x 8" Deep

## ELECTRIC CONTROL PANEL FEATURES

The wall-mounted control panel is dust tight for safety and reliability. Its circuitry permits the mill to be safely and easily started, monitored, and shutdown. Shut down occurs in stages. The motor to the ingredient feed proportioner turns off ahead of the mill. This stops the flow of incoming material. After the mill processes the material remaining in the grinding chamber, the motor to the discharge auger turns off. This allows the mill and the discharge auger to empty out.

The panel automatically senses system failure for any reason (lack of ingredient inflow or overload) and shuts the mill off. The controls have been designed to recognize an overload trip. Location of the overload fault will be displayed on the panel. The operator must then turn the "START/ON/OFF" switch to "OFF" before restarting the machine.

The **Amp Meter** allows the operator to view the load on the mill motor and to optimize the rate of ingredient delivery accordingly.

An **Auxiliary Switch** permits extra motors such as pumps, fans or air conveyors to start up with the Hammer Mill.

The main mill motor and all discharge auger motors are fused **within the Control Panel** for low cost installation and added safety.

An **Electric Timer** permits the mill to run for any time up to 2 hours. The Timer shuts the mill off automatically. Continuous running can also be carried out.

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FEED PROCESSING SYSTEMS