

Auto Divider



General Features

The pellet sampling machine is responsible for random sampling of the pellets in desired percentage. Efforts have been made by the experts to design the machine so as the sampling is completely random and in a variety of percentages. This machine is designed in very appropriate dimensions (height and width) so that the pellet buckets enter it. In similar machines, the height is up to 2 meters and the input is fed into the machine from high above after the operator has taken a number of steps which makes the operation process difficult. The other notable advantage with the machine is the constant output flow rate regardless of the amount of input pellets. In addition to the sensitivity of the machine, an effort has been made to make the operation of the machine easy even for the least experienced operators. In designing the device, ergonomic and harmonic factors have been considered, so that it fits the laboratory environment and is compatible with the operator's physique.

System Features

Auto divider components are as follow:

1. The main body
2. The shooter system
3. The feeder
4. The cutter
5. The vibrator
6. The electronic unit and the electric board
7. The power transmission system
8. The panel of the buttons

Feeding

First, the operator puts the main selector on the ON mode. The main machine and the vibrator are also put on the ON mode and a bucket of pellets is placed in the input section of the machine to be dumped into the divider. The machine conducts sampling automatically. Please note that the output percentage of the sample can be set or changed by the operator.

Operating Mode

The machine moves the pellets through the feeder with the vibrating engine and drops them to the cutter which begins the random sampling with its rotatory movement.

Specifications	
Electromechanical press	
Motor speed	20 rpm
Max input Sample	15 kg
Sample value	adjustable
Output voltage	230 V 3 Ph (PWM Control)
Motor type	80_B4
Main power	230 V a.c. ± 10% 50/60 Hz 250 VA max

Number	Components	Model
1	Engine	80-B4
2	Gearbox	MVF-1-56
3	Vibrating engine	100 kg 3000 rpm