



IS 11459 : 2024 Power Operated Chaff Cutter — Specification and Test Code

A chaff cutter is a machine used to **chop** fodder like **straw, hay** into **smaller, manageable pieces** for **livestock feeding**. This improves digestibility and nutrient absorption, benefiting animal health. Chaff cutters range from simple, hand-operated types to large, motorized versions for large scale usage. They help reduce feed waste and ensure that livestock receive balanced, easily consumable feed. This machine is essential in both small and large-scale livestock farming.

The Indian Standard IS 11459 : 2024 specifies material, construction, safety requirements and method of testing for power-operated chaff cutter run by electric motor, diesel engine, tractor PTO or any source providing the required rotary power. The standard classifies chaff cutter based on three primary attributes – **Cutting Mechanism** [Flywheel type and **Cylinder** type], **Chaff Dropping Position** [Let-fall type, **throw-away** type and **Blow-up** type] and **Feeding System** [Chute-fed and **Conveyor-fed**].

Key specifications includes material requirement of blades and various components of the chaff cutter, the **hardness of the blade** is specified as **40 HRC to 45 HRC** for easy chaff cutting, **minimum length of chute and conveyor** is provided as **900 mm** and **1200 mm** respectively for easy operation, requirement of a **minimum of 450 mm coverage of chute or conveyor** on feed roller side for **protecting the operator** from any injury. The standard also emphasizes on **safety requirements for operators**, specifying that protective guards must be in place for all exposed moving parts to prevent accidents.

Testing protocols outlined in the standard ensures that the cutters meet durability, efficiency, and safety benchmarks. This standard not only assists manufacturers in creating quality, standardized products but also helps users select reliable chaff cutters suited to their needs.