

IS 15542 : 2005

Safety Requirements for Power-Operated Chaff Cutters

Power-operated chaff cutters are essential tools for farmers to efficiently cut fodder. However, there have been serious safety concerns, including reports of accidents resulting in injuries. IS 15542:2005 Indian Standard on 'Safety Requirements for Power-Operated Chaff Cutters' aims to establish safety requirements to protect users.

Key Safety Features:

1. **Materials and Construction:**
 - Blades are to be made high-quality carbon steel or alloy steel.
 - The standard also prescribes the materials for use in different parts of the Power-Operated Chaff Cutters.
2. **Feeding Systems:**
 - Two types of feeding systems are permitted: Feeding Chute and Conveyor. Each system has specific safety requirements, such as covers and guards to prevent accidental contact with moving parts.
3. **Safety Guards and Covers:**
 - All moving parts, including gears and bearings, must be covered with guards made from sturdy materials to prevent injuries.
 - A flywheel locking pin is required to secure the machine when not in use.
4. **Warning Features:**
 - Devices such as a warning roller are recommended to alert operators when feeding fodder, adding an extra layer of safety.
5. **Design Adjustments:**
 - Chaff cutters must allow adjustments in the angle of cutting knives and the direction of feed rollers to avoid feed interference.
6. **Operational Checks:**
 - Chaff cutters should be run without load for at least 5 minutes to check for any unusual sounds, slippage, or wear that could indicate potential issues.
7. **Operator's Manual:**
 - Each machine must come with an operator's manual available in Hindi/English/ Local languages to ensure all users understand safe operating procedures.
8. **Cautionary Notices:**
 - Clear warnings must be displayed on the machine to inform users of safe practices, such as not wearing loose clothing and avoiding distractions while operating.
9. **Marking Requirements:**
 - Each chaff cutter should be clearly marked with details such as manufacturer's name or registered trademark, code and batch number, model number, power rating, rated input capacity and Recommended rpm of fly wheel or cylinder.

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