

## Skidder Safety - Logging and Site Clearing Safety Talk

Skidders are essential material-handling machines in logging and site-clearing operations, designed to drag or winch heavy timber across uneven terrain. These machines operate in environments characterized by poor ground conditions, variable slopes, hidden obstacles, and changing weather. Because skidders combine high tractive force with elevated centers of gravity, loss of stability and uncontrolled movement remain the leading causes of serious injury and equipment damage.

### Stability and Rollover Hazards

Wheeled skidders frequently operate on soft soils, rutted ground, slash-covered surfaces, and side slopes. Key risk factors include reduced traction on wet clay, loose gravel, snow, or leaf litter; sudden changes in grade or side slope that exceed machine stability limits; high drawbar forces when pulling oversized loads; and traveling with raised blades or suspended loads that shift the center of gravity.

### Traction Management Practices:

- Plan skid trails to minimize side-slope travel and avoid abrupt elevation changes
- Travel straight up or down slopes whenever possible; avoid diagonal approaches
- Reduce speed on uneven ground to allow corrective action before instability develops
- Match load size to ground conditions; smaller pulls reduce the risk of downhill push or sideways slide

### Rollover Protection and Operator Practices

Rollover Protective Structures (ROPS) and seatbelts are the final line of defense when stability is lost. Per OSHA 1910.266, you must:

- Operate only machines equipped with certified ROPS
- Wear seatbelts at all times to remain within the protective zone
- Keep blades and grapples low during travel to maintain a low center of gravity
- Avoid sudden turns, braking, or acceleration on slopes

### Cable Winch and Line-of-Fire Hazards

Winch systems introduce high stored-energy hazards during timber extraction. Cable failures or sudden load releases can result in severe struck-by injuries. Critical controls include:

- Inspect winch cables daily for broken strands, kinks, corrosion, or crushed sections
- Maintain proper spooling and avoid side pulls that overload cable guides
- Keep all personnel well clear of the winch line and load path during tensioning
- Never straddle, step over, or stand near a tensioned cable

### **Pre-Operation and PPE Requirements**

Before operating, conduct a circle check: test brakes and hydraulics, verify ROPS integrity, confirm backup alarms function, and ensure a fire extinguisher is present. Required PPE includes hard hat, high-visibility clothing, logging boots, and hearing protection.

Use three-point contact when mounting or dismounting. Park on level ground, lower all attachments, engage the parking brake, and shut down the engine before exiting.

### **Emergency Response**

If your skidder begins to tip, stay in the cab and remain belted—the ROPS protects you only if you stay inside the protective zone. Establish clear communication with ground crew and maintain exclusion zones around active winching operations.

Discussion Points:

1. Which terrain conditions on our current site present the greatest traction challenges?
2. What warning signs indicate increasing rollover risk during a pull or turn?
3. When was the last time you inspected your winch cable, and what defects require removal from service?

**Remember: No load is worth your life. If conditions feel unsafe, stop and reassess.**