

Conservation Agriculture

Rollers for Terminating Cover Crops



Smooth Roller Drum

Smooth drum (no crimping bars). May include attachments for herbicide application.

- Cheapest, easiest to make.
- Low vibration.
- Faster speeds.
- Excellent kill with herbicide.
- Poor kill without herbicide.

Straight Bar Roller

Smooth roller with straight crimping bars attached – alternating contact with soil creates vibrations.

- Aggressive termination of cover crop.
- Easy to make.
- High vibrations to tractor and driver.
- Requires slow operating speed.



Curved Blade Roller

Smooth roller with curved crimping bars – constant contact with soil reduces vibrations.

- Few vibration problems.
- Fast operating speeds.
- Reduced crimping action.



Two-Stage Roller

A large, smooth roller and a smaller, spring-loaded roller with crimping bars.

- Adjustable to soil & plant conditions.
- Few vibration problems.
- Lighter-weight construction.
- More components.



Crimping Bed Roller

A crimping roller for elevated beds.

- Crimps both furrows and beds.
- Less vibration than straight bar roller – but still aggressive termination.
- Can be modified for different bed configurations.
- Requires medium operating speed.



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