L&L inc.

Sutherlin, Oregon

“Responsible Forestry Today, Healthy Forests For The Future”

Terry Mann
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PONSSE

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PROGRESS OF TECHNOLOGY

L&L inc.

Founded in 1986
by Louis and Lori Mann

L&L inc.

Switched to Cut-To-Length
In 2004

The Cut-To-Length (CTL) Method

Is a European timber harvesting system that consists of a Harvester and Forwarder

Harvester

Forwarder

Harvester

The harvester is used to fall, delimib, buck and pile timber at the stump. Processing is done in front of the harvester creating a “brush mat” of limbs and tops. The harvester and forwarder travel though the stand on these brush mats to protect the soil during the operation.

Forwarder

The Forwarder follows the Harvester along the same brush mats and loads the processed logs onto it’s rear bunk space, allowing the logs to be carried to the roadside rather than being skidded along the ground. This helps avoid damage to the soil and standing timber.

Benefits of CTL

- Ability to thin to higher stand density
- Reduced impact on soil
- Efficient team
- Excellent utilization
- Long yarding distance

Challenges in the Northwest

- Steep Terrain <40%
- Wet Weather
- Erosion
- Water Resources

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June 2017 Germany Trip

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June 2017 Germany Trip

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L&L inc.

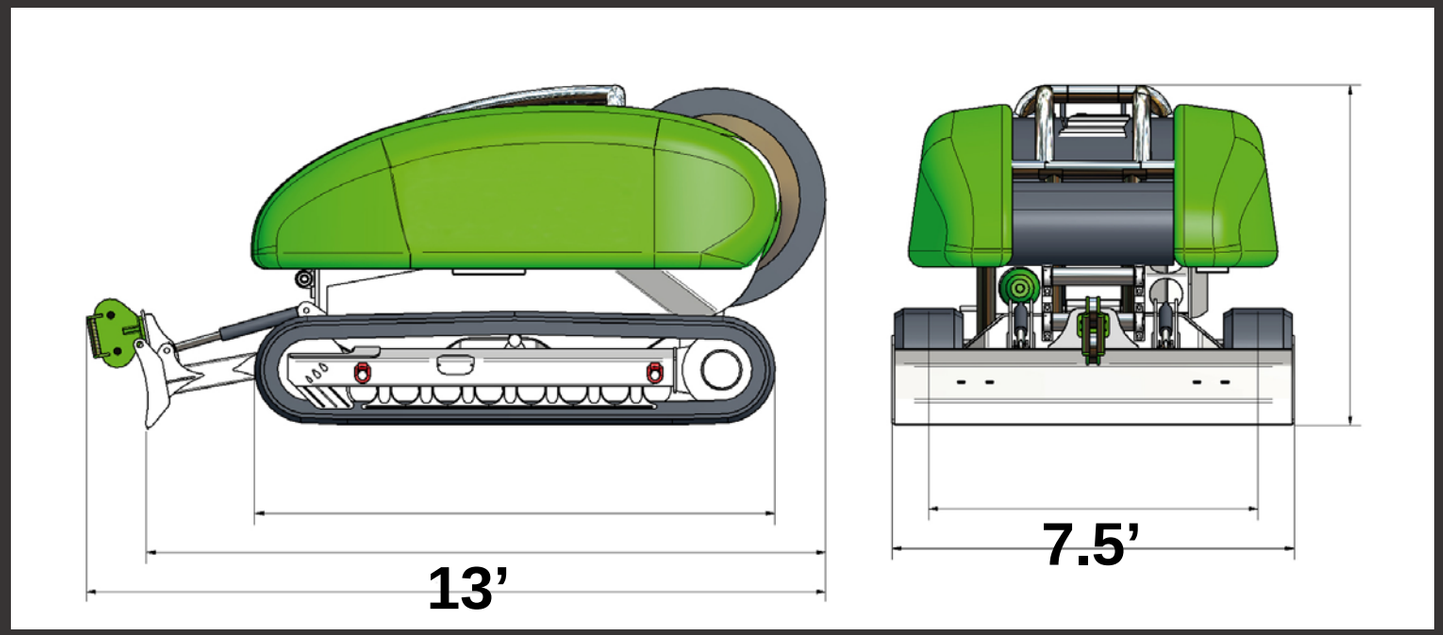
June 2017 Germany Trip

June 2017 Germany Trip

T-Winch 10.1

EcoForst T-Winch 10.1

- 145 hp, 3.0 liter, 4-cyl engine
- 1650 ft. 3/4” cable
- Pulling Force: 8 1/2 tons
- Operating weight: 16,000 lbs.
- Compact size
- Fully remote controlled
- Self contained unit



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Simple design

Rear drum

Cable fairlead over blade

- Very stable
- Low center of gravity
- Blade used as deadman
- Easily tied back to tree or stump

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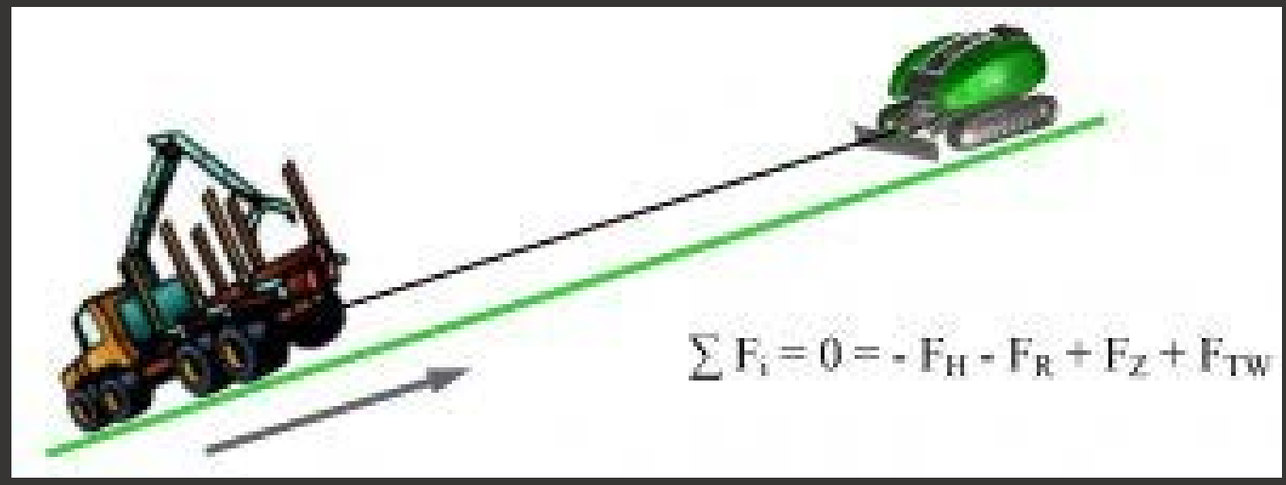
Easily maneuvered and set up with the remote control

<u>T-Winch</u> stands for “Traction Winch” The concept is to give traction assist, not to just drag the machine up the hill using brute force. The T-Winch produces up to 17,000 lbs. of pulling force. This is added to the tractive effort of the Harvester or Forwarder, dramatically increasing climbing ability and reduces digging and churning to get up the hill.



This added tractive effort has huge benefits in protecting soil and root systems, especially during wet weather operations.

The ability to implement ground based CTL harvesting on steeper terrain offers a more economical and efficient thinning method compared to traditional yarder based systems.

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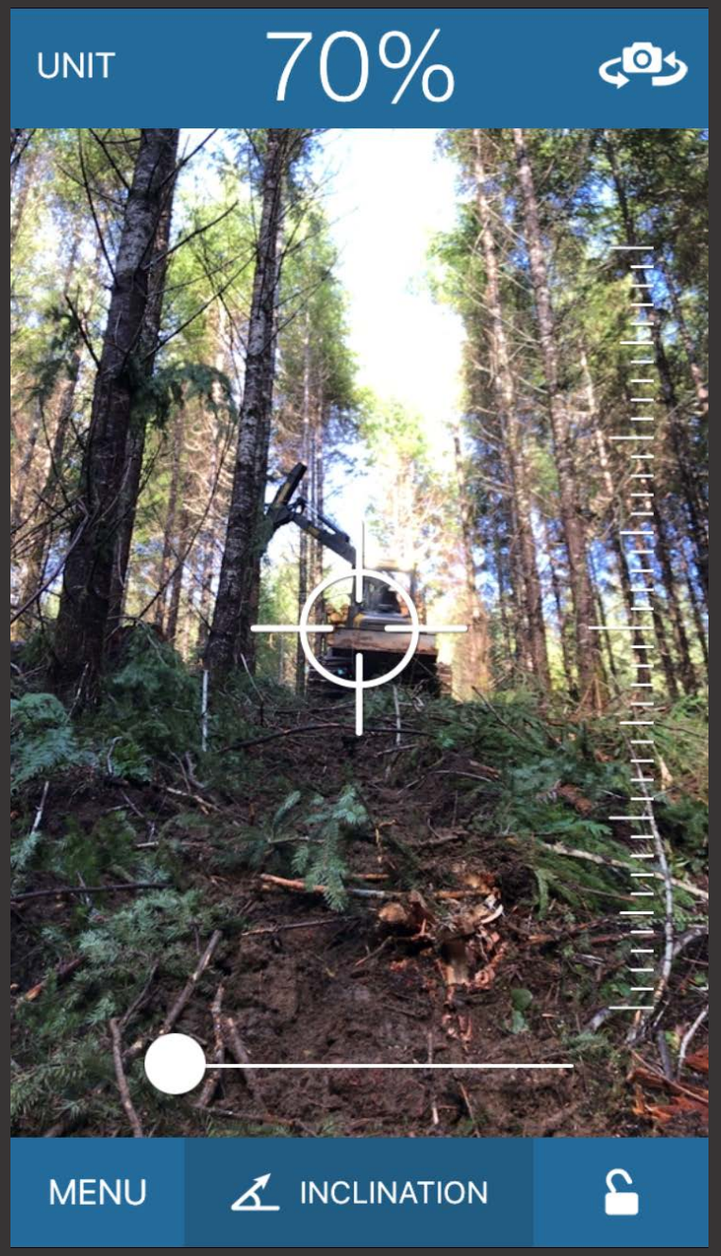
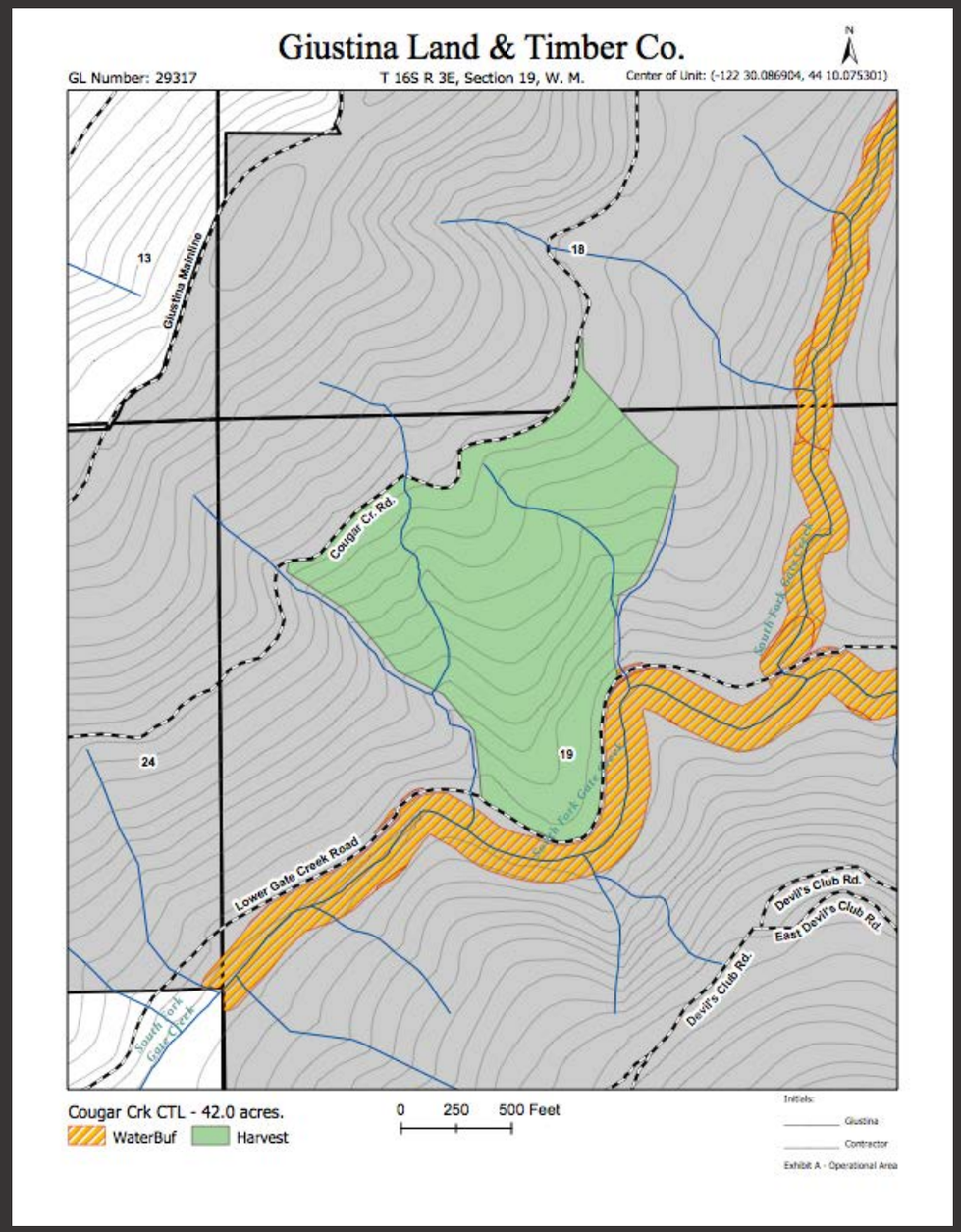
Pulling force is controlled by a simple remote.

Using the T-Winch, we have been able to climb slopes over 70% with a fully loaded forwarder without damaging the ground.



Intermediate blocks can be used in some situations to corner off of a ridge, or to go over a rocky point to prevent cable rub.



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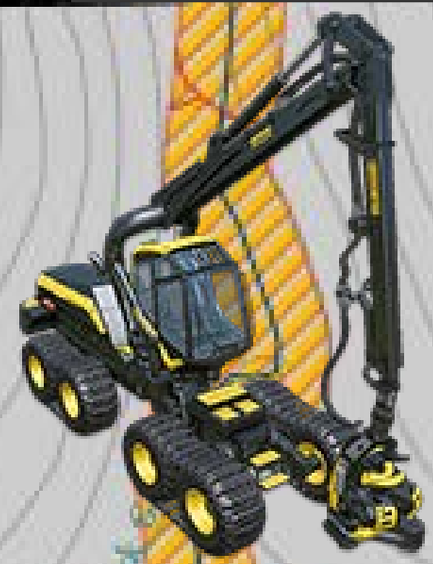

Cougar Cr. Rd.

24

19

Lower Gate Creek Road

Devil's Club Rd.

East Devil's Club Rd

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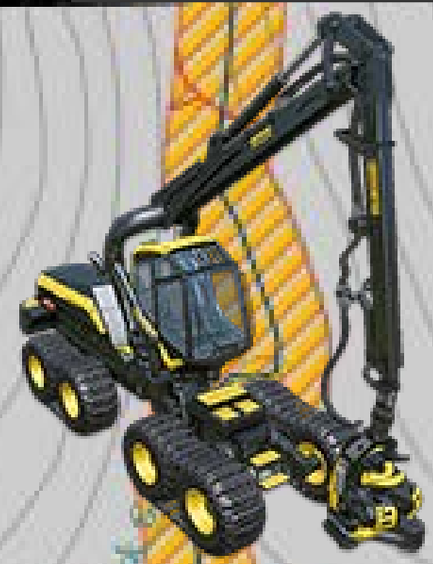

Cougar Cr. Rd.

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Cougar Cr. Rd.

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East Devil's Club Rd

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Cougar Cr. Rd.

Block → X

19

24

Lower Gate Creek Road

Devil's Club Rd.

East Devil's Club Rd

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Cougar Cr. Rd.

South Fork Gate Creek

19

24

Lower Gate Creek Road

Devil's Club Rd.

East Devil's Club Rd

Blocks can be used when road banks are too high or in other situations where placing the T-Winch above the road would be difficult.

A block can also be used to double the line, giving twice the pulling force

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Questions?

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