

# TRACTION-WINCH

T10 - T12 - T20 Series



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Made in Canada

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## Forestry of the Future

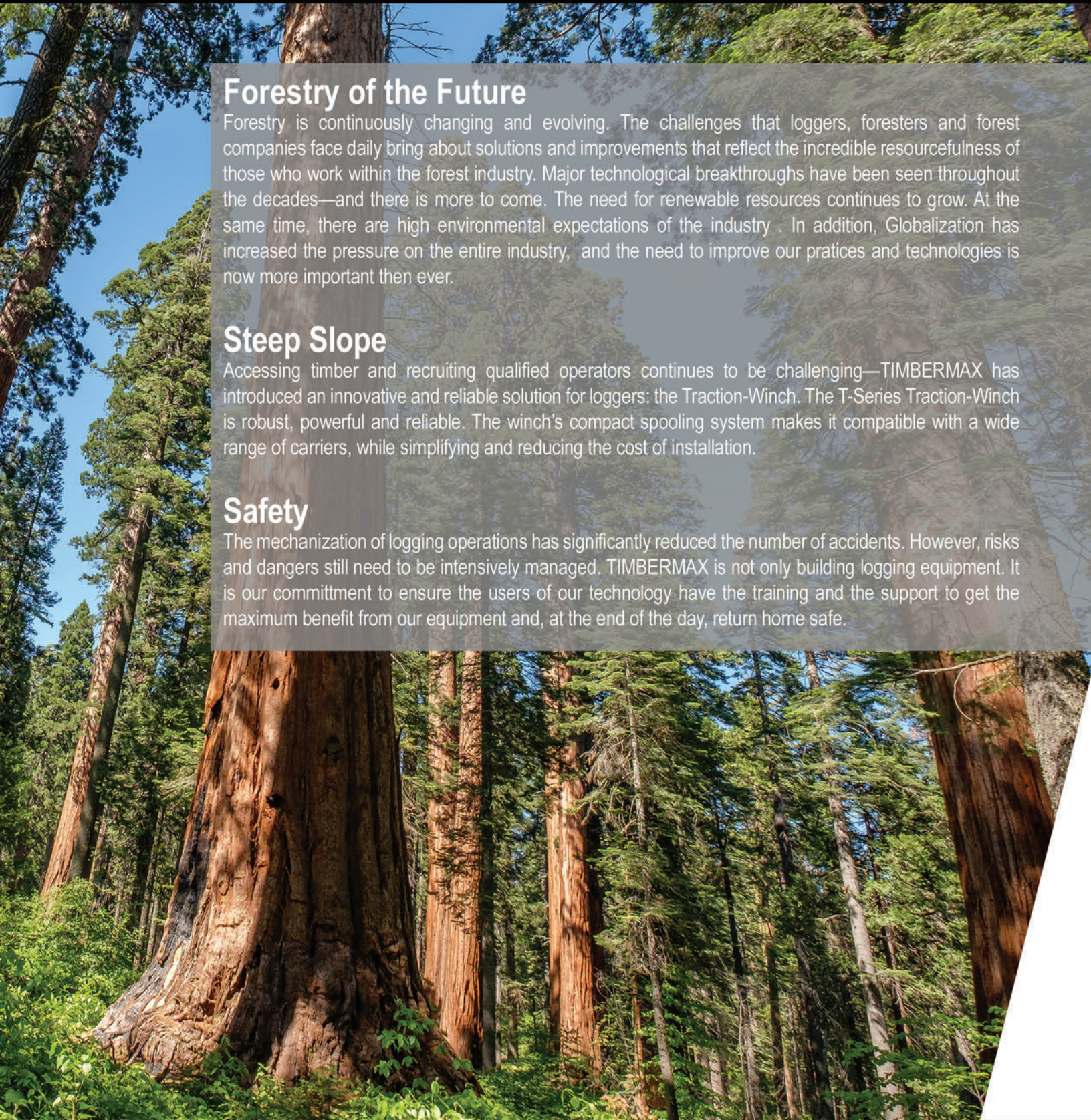
Forestry is continuously changing and evolving. The challenges that loggers, foresters and forest companies face daily bring about solutions and improvements that reflect the incredible resourcefulness of those who work within the forest industry. Major technological breakthroughs have been seen throughout the decades—and there is more to come. The need for renewable resources continues to grow. At the same time, there are high environmental expectations of the industry. In addition, Globalization has increased the pressure on the entire industry, and the need to improve our practices and technologies is now more important than ever.

## Steep Slope

Accessing timber and recruiting qualified operators continues to be challenging—TIMBERMAX has introduced an innovative and reliable solution for loggers: the Traction-Winch. The T-Series Traction-Winch is robust, powerful and reliable. The winch's compact spooling system makes it compatible with a wide range of carriers, while simplifying and reducing the cost of installation.

## Safety

The mechanization of logging operations has significantly reduced the number of accidents. However, risks and dangers still need to be intensively managed. TIMBERMAX is not only building logging equipment. It is our commitment to ensure the users of our technology have the training and the support to get the maximum benefit from our equipment and, at the end of the day, return home safe.







## WHY should YOU use the Traction-Winch?

- ➔ **Safety:** The system provides traction assist, which in combination with the *iWinch*® Control System, allows the operator to better identify limits and danger.
- ➔ **Productivity:** It significantly improves productivity while reducing costs in areas where yarders are too expensive and conventional equipment reaches its traction and safe operating limits.
- ➔ **Soil Disturbance:** It substantially reduces soil disturbances. In situations in the past, where it might have been necessary to stop operations and wait for dry conditions, it is now possible to keep working throughout the year.
- ➔ **Snow:** It improves accessibility to timber in areas affected by heavy snowfall.

## WHAT are the limits ?

### Operator Skills

Even with the use of proven technologies, human error can still be the source of an accident. Establishing safe work standards and procedures is extremely important. There are challenges operators will face, and the learning phase should not be underestimated.

### Equipment Operational Limits

The Traction-Winch should not be used as a safety device. The failure of the anchor or one of its components is a possibility - it is important that the operator's safety is not solely reliant on the winch. The Traction-Winch can be mounted on a wide range of carriers and anchoring machines, each of which has its own operating limits. Modifications to the carrier may be necessary to improve its capabilities on slope.

### Ground Conditions

The traction capacity of the soil depends on many factors, any of which are subject to change. For example, the soil's moisture content might change rapidly following heavy rain. This is why TIMBERMAX does not give a fixed slope limit. However, experience shows that the system works optimally on slopes from 35%-70%. The TIMBERMAX *iWinch* Control system is able to provide the operator with continuous feedback on the traction capacity of the soil.



# TRACTION-WINCH

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### Robust, Powerful, Reliable

The TIMBERMAX Traction-Winch Package consists of the winch unit, hydraulic components, and the *iWinch*® Control System. The winch is compact and features a built-in spooling device - making it compatible on a wide range of carriers. Through field experience and continuous product improvement, TIMBERMAX believes that there is a machine configuration that will work for you.

### Configuration Solutions

#### One Machine System

The winch is installed on the steep slope machine. The cable is attached to a stump or suitable anchoring point.

- *Quicker setup time*
- *Static line (longer cable lifetime)*
- *Cost effective for full-time dedicated cutting machine*

#### Two Machines System

The winch is installed on a carrier (excavator, dozer, or TIMBERMAX *ELEVATOR*®) or suitable anchoring machine.

- *Versatile - skidder, buncher, harvester, or forwarder can be tethered*
- *Minor modifications to the slope machine required*
- *Extra power from anchor machine engine*

A TIMBERMAX representative is available to review your current operation and provide you with advice on a suitable solution to fit your needs.

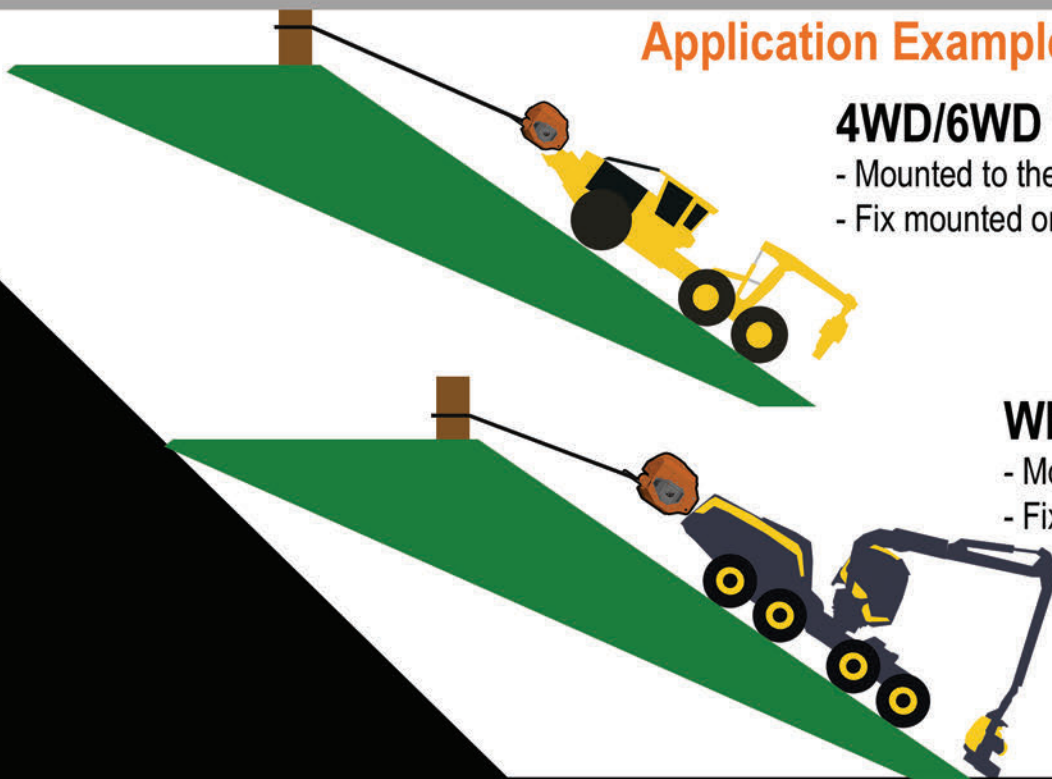
### Application Examples

#### 4WD/6WD Wheeled Skidder

- Mounted to the front
- Fix mounted or tiltable

#### Wheeled Harvester

- Mounted to the rear
- Fix mounted or tiltable

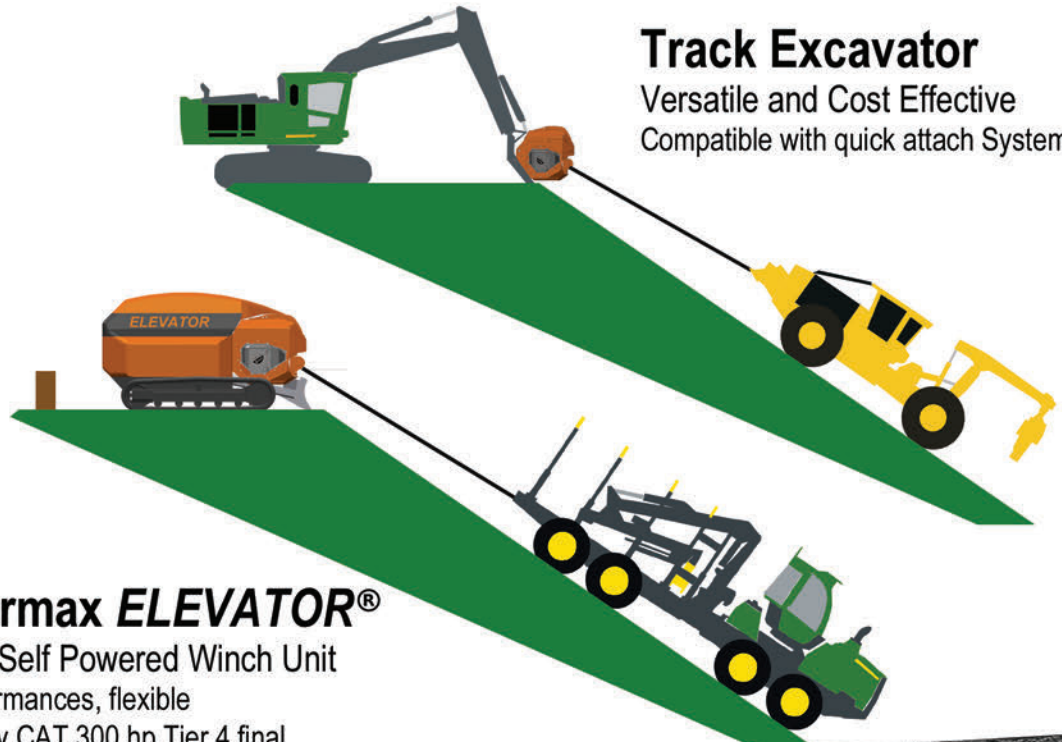






## Track Excavator

Versatile and Cost Effective  
Compatible with quick attach System



## Timbermax *ELEVATOR*®

Powerful Self Powered Winch Unit  
High Performances, flexible  
Powered by CAT 300 hp Tier 4 final





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## UNIQUE Concept

Limited Carrier Modifications Required

Standard mounting dimensions makes installation simple and swapping between machines easy.

### Carrier Requirements:

- 1" Pressure Line
- 1" Return Line
- ½" Drain Line
- Electrical Cable (7 connectors) with +24 V Supply

## TIMBERMAX Drive

Powerful, Reliable and Efficient

The winch is powered by a variable displacement hydraulic motor - allowing high torque or high speed under low load conditions. Power is transmitted to the winch drum through the three stage planetary gear drive. The drum is secured by a multi-disc, spring-applied brake.



Powered by  
**Rexroth**  
Bosch Group

## REMOTE Control

Easy to Operate

TIMBERMAX has remote controls available to match your installation and options.

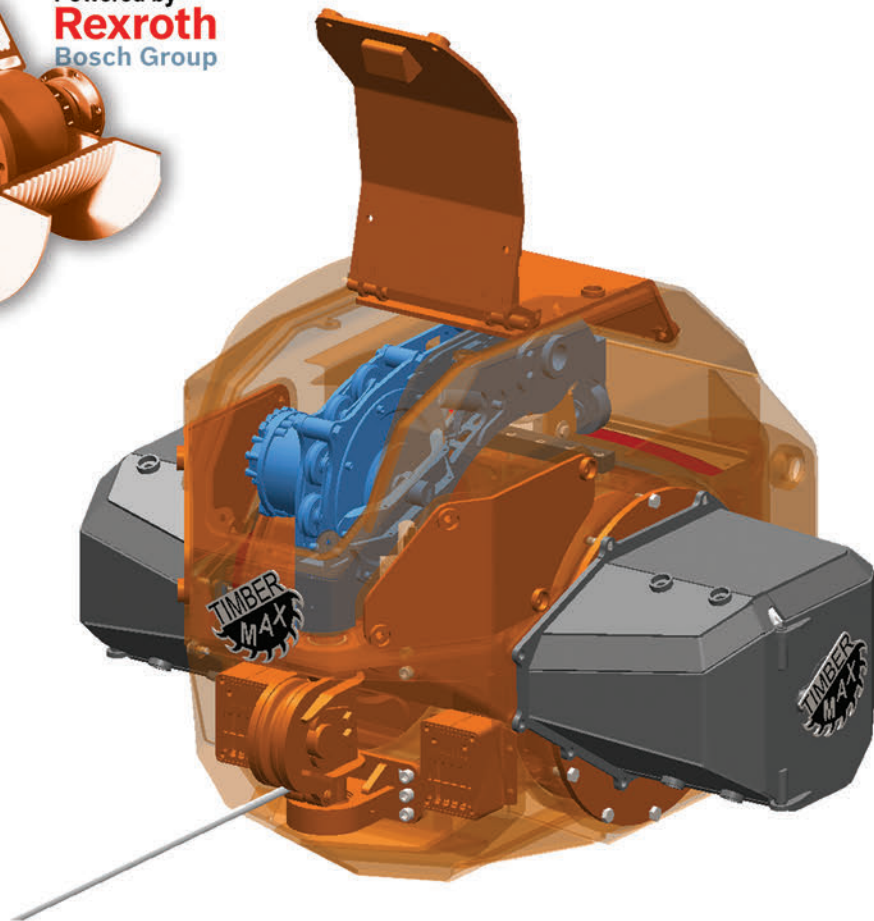


## EXCAVATOR Mount Ready

Versatile, and Dynamic

No need to install sheaves, pulleys or drums on the carrier.

Most 20 + ton units can be used as the base carrier







## iWinch® Control System

Intuitive, and User Friendly

- Winch pull setup, tension monitoring with alarms
- Redundancies and safety features for maximum operator safety
- Remote diagnostic ready



## COMPACT Design

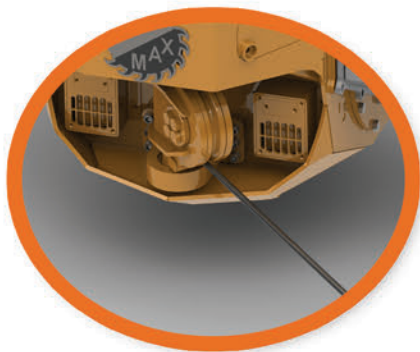
Perfect Spooling

The winch drum is equipped with a robust and reliable spooling system designed to extend cable lifetime and reduce operating costs.

## ROBUST Rope Guide

± 45 degrees

The TIMBERMAX rope guide contains an oversized bearing and a swivel-mount allowing for operation within 45 degrees from the center.



### Imperial Specifications

Winch Pull	(Tons)	10	12.5	20
Rope dia.	(in)	5/8"	3/4"	7/8"
Capacity	(ft)	1600	1100	1600
Max Speed	(ft/s)	5	4.7	4.5
Weight	(lb)	7200	7200	9500
Min. Flow	(gpm)	50 - 60	50 - 60	75 - 100
Pressure	(psi)	4000-4600	4000-4600	4400 - 4600

### Metric Specifications

Winch Pull	(kN)	100	125	200
Rope dia.	(mm)	16	19	22
Capacity	(m)	500	350	500
Max Speed	(km/h)	5.5	5.2	5.0
Weight	(kg)	3300	3300	4300
Min. Flow	(l/min)	190 - 240	190 - 240	280 - 380
Pressure	(bar)	280-320	280-320	300-320

