



THE MOST VERSATILE TRACTION WINCH



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T24 HDX

ENGINEERED FOR
EXTREME CONDITIONS



215 kN
24 tons



500 m
1,640 ft



29 mm
1 1/8"



7,140 kg
15,741 lbs



MINIMUM
POWER
REQUIREMENT
171 kW
230 hp



350 - 400
Size



MODERN PROJECTS REQUIRE MODERN TOOLS

Introducing the New HDX Series

You spoke, we listened. The new HDX series of winches takes the quality equipment engineering we're known for to the next level, with key improvements to product performance, a reduction in maintenance costs, and boosted all-weather durability.

Here's how a traction winch helps your team:



IMPROVED SAFETY

With mechanized operations to enhance stability on sloped terrain, a traction winch with one operator in the cabin replaces multiple manual loggers, greatly reducing the risk of on-site accidents in dangerous conditions.



INCREASED PRODUCTIVITY

Don't let poor weather or rugged terrain slow you down. An automated traction winch helps you work on steep slopes, wet ground, and narrow areas with minimal impact to the soil, without damaging the machine.



REDUCED SOIL DISTURBANCE

A traction winch enables operation in adverse weather conditions on weaker or wet soil. Less skidding, and minimal impacts to the composition of the surrounding terrain, even in poor conditions.



ENHANCED AUTOMATED CAPABILITIES

This winch works automatically, keeping cable tension controlled at all times, even when not moving. The operator in the tethered machine does not need to push buttons and can focus on the main task.

MINIMIZE RISKS MAXIMIZE RESULTS



WHY THE WINCH AS AN ATTACHMENT **MAKES MORE SENSE**



IMPROVED VERSATILITY

The T24HDX traction winch is compatible with multiple carriers, can be swapped between job sites. It can be installed on new/operational machines, or on retired equipment with a working hydraulic system.



COST-EFFECTIVE

T24HDX repurposes your existing equipment, maximizing the efficiency, efficacy, and lifespan of base machines across a wide range of carriers. In addition to holding resale value on the secondary market, this powerful tool reduces the need for repairs and lowers expected maintenance costs.



EASY INSTALLATION

With non-invasive installation that requires minimal changes to the carrier machine, the T24HDX traction winch improves your equipment's re-sale value. It's quick and easy to return to primary function from traction winch in excavators, road builders, and even feller bunchers.



GAME-CHANGING POWER

The T24HDX traction winch attachment is a compact unit that leverages the power of its carrier machine, matching the capabilities of rear-mounted and self-propelled winch units while enabling safe, stable operations on steep slopes, wet areas, and other previously inaccessible terrain.





SYSTEM WALKAROUND AND **WORK ENVIRONMENT**



CARRIER CONTROL MODULE
This module takes over the engine and pump control. It transfers the alarms to the operator wirelessly via the iWinch

WINCH ATTACHMENT
Works automatically, with control and oversight from the tethered machine operator

WINCH CARRIER
Provides power to the automated traction winch unit with no operator required

TETHERED MACHINE
One operator safely controls the TimberMAX Traction Winch from inside the security of the tethered machine's cab

JOYSTICK
Put control of minimum and maximum tension override capabilities at your fingertips with TimberMAX's user-friendly functionalities



IWINCH DISPLAY
Gain increased visibility into your operations with a 12" display featuring an intuitive, fully automated control system



REAL TIME SLOPE GRADIENT MEASUREMENT
Track slope gradient measurements in real-time via an angle module installed on the chassis or the tracks of the tethered machine



WINCH MOVEMENT SENSOR
Independently anchored, this advanced sensor detects any winch movement and alerts the operator via the iWinch display



FRONT PIVOTING SHEAVE
The robust front pivoting sheave pivots 180° allowing for a wide operating range in front of the winch



AUTOMATED TENSION CONTROL
In addition to manual override capabilities, iWinch can connect to the tethered machine's drive system to automatically control the tension according to the detected direction of travel



SWAGED WIRE ROPE
With a breaking strength of 72 tons (79 US tons), the 29 mm (1 1/8") swaged wire rope provides a safe working load of 3:1 on tough terrain

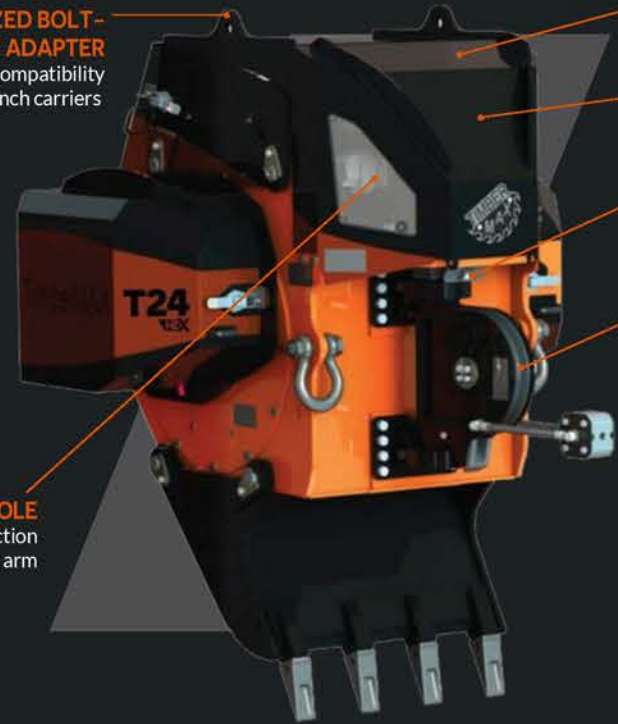


T24HDX WINCH FEATURES



From forestry to pipelining, the T24HDX offers the size, capacity, and cable length required to take on the toughest projects in the most extreme terrain. **Tethers to six-wheel skidders, forestry swing machines, and more.**

CUSTOMIZED BOLT-ON LUG ADAPTER
Maximizes compatibility with winch carriers



TOP MOUNT
Reduces operating weight and enhances stability

LOAD CELL
Delivers precision tension measurements

PIVOTING SHEAVE CAMERA
Enhances wire rope hazard visibility and safety

OVERSIZED PIVOTING SHEAVE
Extends durability and lifespan of wire rope

TOP HOOD PORTHOLE
Enables easy inspection access to spooling arm

TIE BACK CAMERA
Improves hazard visibility and safety behind the winch

INTEGRATED CASE DRAIN FILTER
Supports easy, fast installation



BACK PORTHOLE
Provides easy inspection access to drum

ROPE CLAMP OPENING
Ensures reliable service access to rope clamp

HIGH STRENGTH STEEL
Optimizes weight, durability, and performance

LARGE CLEANING OPENING
Facilitates easy removal of mud and debris

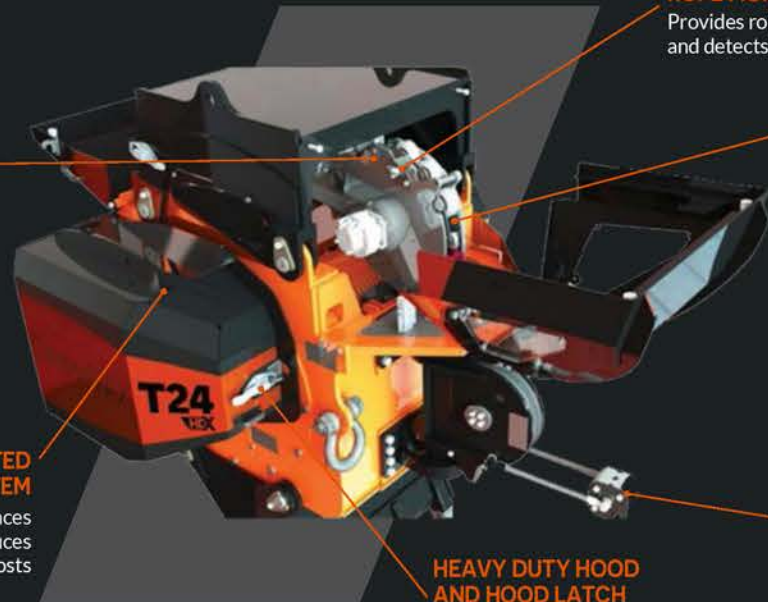
ROPE MONITOR
Provides rope diameter and detects damages

INDEPENDANT MEASURING WHEEL AND LANDING MODE
Featuring an independent measuring wheel for heightened precision, this new and improved system ensures accurate rope length measurements while preventing the rope terminator from being fed into the sheave.

With Landing Mode, users can now set the cable to slack at a specified distance, allowing the tethered machines to operate on landing without disengaging the cable for easier decking operations.

WIRE ROPE CLEANER
Improves winch dirt management to extend rope lifespan

STRONG TENSIONING CHAIN
Greases bearings automatically



AUTOMATED GREASING SYSTEM
Improves performances and reduces maintenance costs

HEAVY DUTY HOOD AND HOOD LATCH
Provides easy inspection access with no tools required

IMPROVED STABILITY AND MOBILITY
Optimal design facilitates the easy transport and handling of the winch



ROBUST SPADE WITH BUCKET TEETH
Provides hold-back to reduce movement and boost safety



OPTIMIZE PERFORMANCE & SAFETY WITH THE **iWINCH CONTROL SYSTEM**

ROPE CAPACITY INDICATOR

Colour indicator tracks drum capacity and alerts at half of last layer

LINE COUNTER

Displays how much rope has been let out in real time

COMMUNICATION SIGNAL

Measures the strength of the system's reception signal

MANUAL SPOOLING FUNCTION

Feed cable in and out manually while rigging or as needed

PRE-SET TENSION SETTINGS

Define tension based on direction (uphill, downhill, stationary) and let operators focus on the task at hand. The 'Not Moving' force aids stability during shovel logging, trench digging, and other tough projects

In advanced mode, the system differentiates between sliding and moving downhill

MOVEMENT SENSOR

Receive immediate alerts when any movement is detected in the winch anchor

CARRIER ALARMS

Get notified of issues with carrier equipment fuel levels, voltage, hydraulic fluid levels, engine oil pressure, overheating, and more

CARRIER ENGINE CONTROL

Remotely start and stop the carrier machine's engine from the tethered machine

TETHERED MACHINE GRADIENT TRACKER

Track slope gradient measurements in real-time via an angle module installed on the main chassis or track frame of the tethered machine



INTUITIVE SERVICE MENU

Access the essential diagnostic tools and information required to troubleshoot issues without a technician on site

ACTIVE EVENTS AND ERROR CODES

View issues in real-time or recorded in the history log to enable easier troubleshooting

LIVE CAMERA ACCESS - 3 FEEDS

View operations from the drum, pivoting sheave, and tie back cameras to ensure safety and peak performance. Supports automatic camera switching in certain work phases

DRUM SPEED INDICATOR

Ensure that the drum's travel speed remains within safe operational ranges with audible and visual alarms when overspeed is detected

TETHERED MACHINE CONFIGURATION

Combine the advantages of the Smart and Advanced functionalities in one system. Easily toggle between different modes and machine configurations in just a few clicks



- ✓ User-Friendly and Intuitive
- ✓ Bi-Directional Communication
- ✓ 12" Display Screen
- ✓ Full Diagnostic Tools
- ✓ Automated Data Logging
- ✓ Easy Install & Operation



MAINTENANCE FEATURES

AUTOMATIC GREASING SYSTEM

TimberMAX includes an automatic greasing system to simplify routine maintenance, maximize uptime, and ensure peak performance. When the grease cartridge is empty, iWinch notifies you via alarm.



AUTOMATED USAGE TRACKING

To help plan, schedule, and facilitate routine maintenance, the iWinch control system automatically keeps track of working hours and sends alerts when preventative action is recommended.



FRONT PIVOTING SHEAVE - OPEN DESIGN

Keep dirt and debris out of the winch with a specially designed pivoting sheave. Remaining dirt can be quickly and easily removed via the bottom panel at the back of the winch.



EASY-TO-OPEN ACCESS PANELS

Our traction winch is built durable and compact to keep interior components protected, with large access panels designed to facilitate easy inspections, cleaning, and routine maintenance.



ELECTRIC POWERED CYLINDER HOOD

An electric-powered main hood makes it easy to open and close TimberMAX's heavy protective guard. This enables easy and safe inspection of the interior components without compromising on protection.



MAINTENANCE GUIDE & CHECKLISTS

Extend the lifespan of your equipment by following the best practices outlined in TimberMAX's operating manual, spare part books, daily inspection checklist, and recommended maintenance schedule on paper or via iWinch. Need further assistance? TimberMAX techs are here to help!



LOW MAINTENANCE MAIN DRIVE

Low maintenance with synthetic oil that lasts 1000 hours.



HIGH-PRESSURE FILTER

To reduce hydraulic wear and tear and extend the component's lifetime, TimberMAX features an integrated high-pressure filter to protect from the carrier and a built-in drain filter to filter oil returning to the tank.

DRAIN FILTER

TimberMAX in Action



High-Output Uphill Skidding for 6-Wheel Skidders



35-Ton Forestry Excavator Tethering a Feller Buncher



Installed on John Deere JD959M Assisting Tigercat LX830D



Installed on John Deere JD959M Assisting John Deere JD959M



Tethering Cat 336 for Pipeline Construction



High-Performance Back Filling for Quarry Work



TimberMAX Installed on a Repurposed Tigercat Shovel Logger



Enabling High-Mobility in Logging Block - Deep Snow Pack

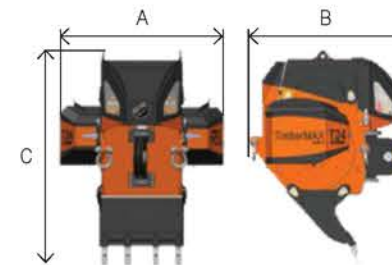


WARRANTY

1 year - 2000 hours

*2 year warranty available under certain conditions. contact your dealer for more details.

T24 SPECIFICATIONS



WINCH DIMENSIONS

LENGTH (A)	2,000 mm (79 in)
WIDTH (B)	2,020 mm (80 in)
HEIGHT (C)	2,650 mm (104 in)
WEIGHT*	5,650 kg (12,430 lb)

*Wire rope weight not included

CARRIER REQUIREMENTS

MIN. POWER REQUIREMENT	171 kW (230 hp)
PRESSURE LINE	1"
RETURN LINE	1 1/4"
CASE DRAIN LINE	3/4"
ELECTRICAL CABLE	7 conductors
SUPPLY	+24V, 20A

HYDRAULIC SYSTEM

CONTROL TYPE	Proportional Flow or Load Sensing
MIN. FLOW FOR OPTIMAL PERFORMANCES	300 l/min (80 gpm)
PRESSURE	320 bar (4,650 psi)

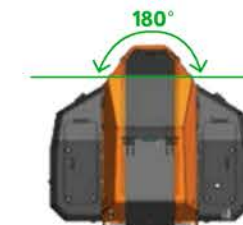
WINCH DRIVE

TRANSMISSION	DUAL Heavy Duty REXROTH Planetary Drive
BRAKE	2x Independent disk brake set in oil bath. Spring Loaded Pressure released
HYDRAULIC MOTORS	2 x REXROTH Variable displacement Axial Piston

Meet or exceeds ISO 19472-2:2022

SPOOLING SYSTEM

TYPE	TimberMAX Spooling device with integrated Rope Tensioner
DRIVE	REXROTH Radial Piston Motor
PIVOTING SHEAVE	On 180°. Maximum tension $\pm 45^\circ$ from the axis of the center of the pulley



CABLE

DIAMETER	29 mm (Approx. 1 1/8")
LENGTH	500m (1,640 ft)
MIN BREAKING STRENGTH	680 kN (150,000 lb)
GROOVED DRUM	Yes
DIAMETER MONITORING	Continuous and alarms via iWinch Display

PERFORMANCES

MAX PULLING CAPACITY TOP LAYER*	200 kN (22.4 Tons)
MAX PULLING CAPACITY CORE LAYER*	360 kN (40.4 Tons)
PULLING CAPACITY SETTING	5 - 215 kN (0.56 - 24 Tons)
TOP SPEED	8 km/h (7.3 ft/s)

* At 320 Bar (4,600 psi) dP



SAFETY FEATURES

SIGNAL LOSS ALARMS	Yes
EMPTY DRUM ALARM	Yes
CARRIER ALARMS	Low Fuel, Low Hydraulic Oil Level, Low Engine Oil Pressure, Coolant Over Temperature, etc.
SLOPE TEST MODE	Yes
MOVEMENT SENSOR	Yes, With Independent Anchor from Winch Carrier
WINCH ALARMS	Overspeed, Low Supply Pressure, Wire Open Circuit, Unexpected Behavior, etc.



IWINCH CONTROL SYSTEM

COMMUNICATION	Bi-directional
MANUAL OPERATION	Via Display and handheld remote
AUTOMATIC OPERATION	Advanced mode and Smart mode
TENSION SETTINGS	Uphill / Not moving / Downhill
TENSION MIN / MAX OVERRIDE	Advanced mode
CAMERA	Drum Front sheave Tie-back
E-STOP	Winch carrier and display
DATA LOGGER	Yes
TENSION MONITOR	Measured pressure, calibrated load cell available
TELEMATIC READY	Yes
ADVANCED DIAGNOSTIC	Yes, and available to user