



Electric Power Utilities

Tractel® Safety Applications
and Product Guide

supporting the individuals who provide our power



On towers, in underground access tunnels, or climbing roadside utility poles, electric power utility workers perform difficult work in dangerous environments to ensure that electric power keeps flowing to communities around the world. In addition to the hazard presented by powerful electrical current, there are the risks of falls and other accidents, particularly when working at height or in confined spaces. One thing remains constant in all the situations that electric utility workers encounter: having the right safety equipment makes all the difference.

The ideal tools for electric power utility safety and rescue applications are portable, durable, and reliable, quick to set up and easy to operate under any conditions. Safety lines, harnesses, portable anchor points, manual hoists, and other specialized equipment make it possible for workers to perform vital tasks in utility facilities and in the field without the need for external power sources or complicated setup procedures.

Essential Electrical Utility Safety Equipment

Electric utility workers need to perform installation, maintenance, inspection, and rescue operations in hazardous conditions that include working on tall structures, underground, and in remote locations. It's no exaggeration to say that their safety and their lives depend on having the right equipment and applying it properly.

Situation	Tractel® Solutions
Controlling descent of two people on a rescue line	Derope® Up A descent device system
Safely arresting the fall of a worker on a lifeline	Stopfor® B trailing rope grab
Providing worker with safe attachment to lifelines	Tower TracX harness
Creating anchorage at edge of structure	Davitrac™ with portable anchor base
Temporary horizontal lifeline for multiple people	Two Davimast™ with horizontal lifeline (Tempo 3 option)
Tensioning support cables on a utility pole	Griphoist®/Tirfor® T500 series
Lowering workers into an access tunnel	Griphoist®/Tirfor® TU series
Positioning heavy equipment during installation	Bravo® lever hoist
Accurately measuring the force on a tensioned cable	Dynarope® HF 37 tensiometer

power and people are on the line

When working at height or in confined spaces, electric utility workers require protection from hazards. To prevent and arrest falls, as well as to ensure that any injured workers are positioned to be rescued promptly and effectively, specialized safety equipment must be provided and properly used.



Derope® Up A descent device system

The Derope® system is engineered to provide safe descent for both rescuer and rescuee when retrieving an injured worker from a high work area or a confined space. This system is the portable, powerful, and effective equipment that utility rescue teams should train with and carry.

FEATURES

Derope® Up A includes a manually operated winch with a 2:1 lift ratio. Derope® Up A is also available as a kit which includes the primary descent/lift device, as well as the accessories needed to use it, including a sling, carabiner, and J-knife.

BENEFITS

With easy operation, the Derope® Up A requires minimal special training to use safely and effectively provides regulation compliant, reliable descent control. The integrated hand winch allows the lifting of people suspended on the lifeline, which can be vital in some rescue situations.

Stopfor® B trailing rope grab

Engineered to immediately and safely halt falls, the lightweight, strong Stopfor® B trailing rope grab is specially designed to be incorporated in a fall arrest or travel restraint system where worker mobility and fall protection are required.



FEATURES

The Stopfor® B is constructed of steel with a zinc-dichromate finish, and it can safely arrest the fall of a single worker weighing up to 310 lb. (140 kg), including clothing and tools. Its $1\frac{5}{16}$ in. (33 mm) diameter hole allows for a variety of hook sizes.

BENEFITS

The system can be easily attached or removed at any point on the lifeline. Its combination of roll-over cam braking and a friction-introducing bend of the lifeline provides exceptionally smooth, controlled, low-force fall deceleration.

WARNING: Use only $\frac{5}{8}$ in. (16 mm) Tractel® specified three-strand lifeline with the Stopfor® B trailing rope grab. Use of any other rope or diameter is prohibited and would result in serious injury or death.

Tractel® Tower TracX harness

To attach to a lifeline, lanyard, ladder safety system, or other active fall protection, an electrical utility worker requires a regulation-compliant safety harness. The Tower TracX harness is specially designed for the safety and comfort of technicians and professionals whose work involves frequent and prolonged time in a harness, climbing and working on towers and other high structures.

FEATURES

The Tower TracX harness has high-tenacity polyester webbing, fall indicators, and a sliding bar adjuster. This strong, versatile harness features sternal, back and side D-rings, and is available in sizes from Small to XX-Large.

BENEFITS

The TracX pad provides comfort and minimizes weight on shoulders. The breathable lining keeps the user dry and comfortable. The lumbar support with a removable belt accommodates a variety of tools and their pouches and features seat support saddle connectors. Its tongue and buckle adjustment points allow for a proper fit over light or heavy clothing for year-round use.



portable anchor solutions

Many of the towers, pylons, and other structures electric power utility workers access have built-in anchor points built into them for use in fall protection, suspended work, material handling, and rescue operations. In other situation, temporary strong anchor points need to be set up. This can be especially important for electrical utility work being performed in confined spaces such as underground tunnels and maintenance shafts, where all workers must be attached to lifelines at all times, and rescue crews need to be standing by. Tractel® provides multiple anchorage options for vertical and horizontal lifelines.

Davitrac™

The Davitrac™ is a complete solution for safe vertical rope access in a confined space situation. Lightweight, easy to use, and versatile, it can be set up in minutes and is equipped with accessories to serve a wide range of functions.

FEATURES

- Portable H self-stabilizing adapter
- Anchorage for up to three users and their gear, up to 330 lb. (150 kg) each
- Can be used as an anchor point for manual or motorized hoist
- Material lifting maximum capacity 1,100 lb. (500 kg), depending on the lifting tools used

BENEFITS

- Easy to handle, transport, and set up
- Compatibility with the Tractel® product range allows a large number of possible configurations, including attachment of additional wire rope or chain hoists, descent control systems, and other accessories



Davimast™ with two 360° anchor points for horizontal lifeline

During electrical utility work in confined spaces or in rescue operations, a temporary lifeline system may need to be set up. A pair of Davimast™ mast-style anchors can be equipped with double 360° rotating PPE anchor brackets to create lifeline support for multiple people.

FEATURES

- Adjustable from 3 to 60 ft. (1 to 18 m)
- Can be used with Tractel® Tempo III temporary lifeline with three users of 310 lb. (140 kg)

BENEFITS

- Lightweight, easy storage, transport and set-up with no tools required
- Compatible with Davitrac™ adapters for versatile placement



lifting, handling, and tensioning tools

Moving electrical utility workers and their equipment takes more than mere muscle power. In addition to lifting and lowering, electrical utility workers often need to perform a range of tensioning tasks, from power lines to the structural cables supporting tower and poles. This tensioning requires not only strong, controlled pulling power, but precise measurement of the tension force applied to the wires, ropes, and cables. Specialized equipment allows utility workers to perform these tasks effectively and safely.

what to look for in a hoist

For use in electrical utility applications, the ideal hoist should be:

- Lightweight and portable so the hoist can be positioned anywhere in the job site.
- Powerful and versatile so it can lift, lower, or pull loads however the job requires: vertically, horizontally, or diagonally over any distance or height.
- Easy to set up and operate so that a single crew member can get started and use it unassisted.
- Hand-powered to be used where electricity is unavailable, or where conditions like extreme heat or water might make it unsafe to use.
- Durable and long-lived to perform under the harshest conditions and to be easily maintained and repaired.



Griphoist®/Tirfor®

“Griphoist®/Tirfor®” in the US (not North America), “Tirfor®” in Canada and worldwide (with capitals and registered symbol)

Griphoist®/Tirfor® T500 series

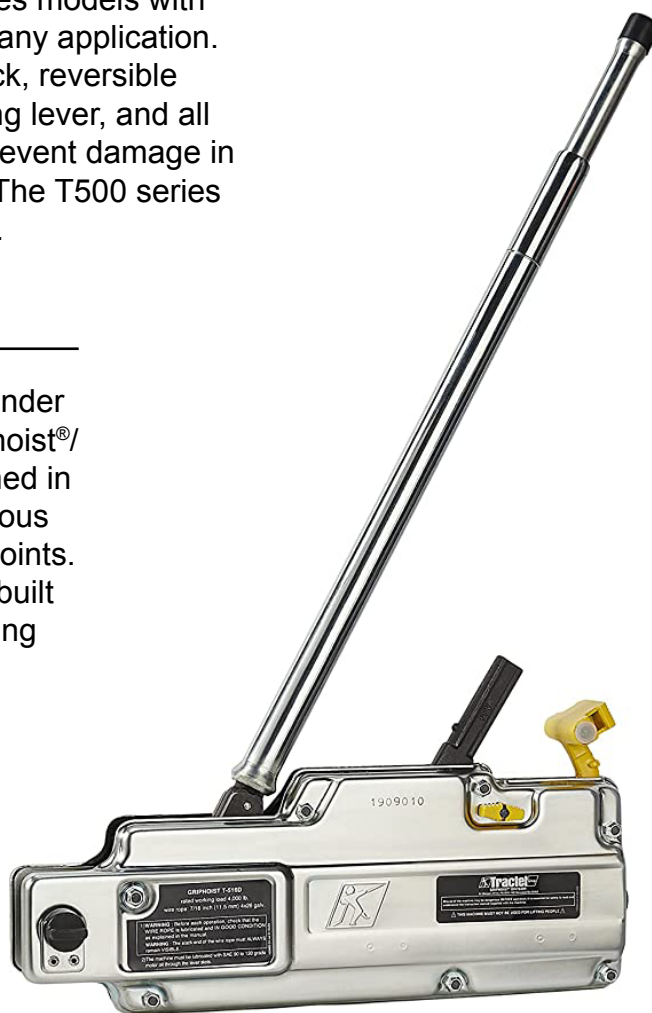
The entry level models of the Griphoist®/Tirfor® line, the hoists of the T500 series are compact, highly reliable industrial-grade equipment that have been used by rescue professionals and specialists for decades.

FEATURES

The Griphoist®/Tirfor® T500 series includes models with a range of nominal weight capacities for any application. These wire rope hoists feature easy, quick, reversible operation using an adjustable, telescoping lever, and all models include overload shear pins to prevent damage in case the maximum weight is exceeded. The T500 series can use any length of maxiflex wire rope.

BENEFITS

Easy to deploy, assemble, and operate under any conditions, lightweight, durable Griphoist®/Tirfor® T500 series hoists can be positioned in any anchoring place and provide continuous pull without the need to change anchor points. The T500 series is also economical and built to require less maintenance while providing maximum equipment longevity.



Griphoist®/Tirfor® TU series

The Griphoist®/Tirfor® TU series hoist uses a pair of specially engineered jaws in its mechanism that combine to create the “U” configuration that gives the series its name. The TU series is certified for man-riding, making it an important piece of equipment anywhere workers are being lifted, lowered, or rescued.

FEATURES

The superior strength and durability of the Griphoist®/Tirfor® TU series earn it approval by UL and qualify it to be used as man-riding equipment with maximum loads of 1,500 lb. (675 kg) to 6,000 lb. (2,700 kg). This innovative design was one of the first of its kind: often imitated by the competition – but never duplicated. The powerful TU series hoists have a nominal weight capacity range of 2,000 to 8,000 lb. (900 to 3600 kg). All models in the series feature easy, quick, reversible operation using an adjustable, telescoping lever. Griphoist®/Tirfor® TU series hoists can lift or pull any length of Maxiflex wire rope, making them useful over great heights and distances.

BENEFITS

The superior strength and durability of the Griphoist®/Tirfor® TU series earn it approval by UL and qualify it to be used as man-riding equipment. The series also offers all the other benefits that make Griphoist®/Tirfor® the choice of utility workers: portability, easy positioning, and steady, continuous pull without the need to change anchor points. The improved jaw shape also extends rope and hoist lifespan while simplifying disassembly and maintenance.



Bravo[®] lever hoist

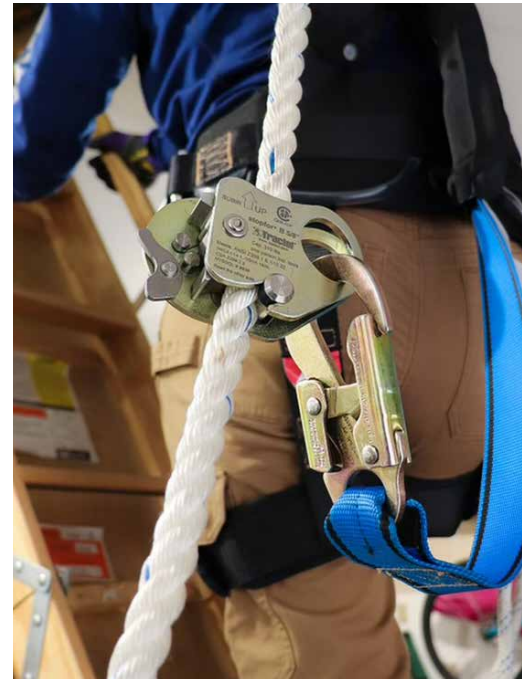
Among the lightest, most portable chain hoist options available Bravo[®] lever hoists are offered in a range of capacities from 1,100 lb. (0.5 t) to 19,800 lb. (9 t). Electrical utility workers can count on Bravo[®] hoists to lift and position heavy tools and equipment, handling the most demanding loads under extreme conditions.

FEATURES

The Bravo[®] design includes exclusive desynchronized pawls which prevent any unintentional release of the load. The hoist line also includes permanent load control, automatic load brake closure, and optional load limiters.

BENEFITS

The Bravo[®] hoist ensures maximum safety during heavy lifting, thanks to their desynchronized dual pawl design. The longevity, resistance to harsh conditions, and ease of maintenance are increased by its galvanized fittings and epoxy paint. The rubber handle makes it easy to maintain a firm grip.



Dynarope[®] HF 37

The Dynarope[®] tension meter is a precision device for measuring forces in a tensioned cable or rope. When the tension meter is placed on a tensioned cable, the load cell will generate a signal which is more or less proportional to the force. This allows electrical utility workers to accurately and safely perform important tensioning tasks.

FEATURES

The HF 37 series measures tension force in $\frac{3}{16}$ to $\frac{5}{8}$ in. (5 to 18 mm) cables with an accuracy of <1% FS. The tensiometer can be connected to a PC for managing and storing measurement results and includes an extensive database of wire rope data.

BENEFITS

The Dynarope[®] HF 37 can be attached directly to the cable to be measured. The meter's fixed display allows quick, easy reading of force, and many settings can be customized.



Tractel®: the power of quality, reliability, and performance

Every time electric utility technicians and teams go to work, they are exposed to serious hazards. The individuals in these jobs need equipment they can count on. Globally known as THE top tier choice for utility worker safety equipment, Tractel® engineers all their products to be durable and reliable under the most demanding and extreme conditions. Tractel® hoists, harnesses, and other equipment are used and trusted by municipal and private utility company workers across the US and around the world. Tractel® supports their products by offering exceptional service and training. As part of a Tractel® service contract or on an ad hoc basis, Tractel® field service teams can provide in-situ inspection, maintenance, and troubleshooting in many major metro areas. Tractel® training courses teach the proper usage and maintenance of Tractel® equipment, and these may be conducted at a Tractel® site or suitably equipped and approved customer premises.

Choose the industry leader. Choose Tractel®.

To learn more about how Tractel® products and services support electric utility workers and to see what we can do for your company or municipality, visit tractel.com or contact a power utility specialist today.



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