



## Rescue Equipment and Solutions

Tractel® Safety Applications  
and Product Guide

## when lives are on the line



In high-rise buildings, on remote mountainsides, or in underground tunnels search and rescue teams, civil protection crews, and other brave individuals save lives every day in a wide range of situations. One thing remains constant in urgent emergency situations: having the right equipment makes all the difference. The tools that rescue workers around the world count on are portable, durable, and reliable, quick to set up and easy to operate under any conditions. Hand-operated hoists, portable anchor points, lifelines, and specialized rope systems make it possible for rescue workers to perform vital tasks anywhere on an emergency scene, without the need for external power sources or complicated setup procedures.

## Vital Rescue Applications and Equipment

The needs of rescue departments can vary widely depending on the size and location of the communities they protect, the types of emergencies and natural disasters they respond to, and the specialized crews that are deployed. But the need to intervene safely and quickly is constant, and lives always depend on having the right equipment and applying it properly.

Situation	Tractel® Solutions
Pulling damaged doors open or removing roof sections to reach rescues	griphoist®/tirfor® T500 series
Lifting and lowering people in and out of danger	griphoist®/tirfor® TU series, Emergency Kits
Moving disabled vehicles out of dangerous or obstructing positions	bravo® lever hoist
Establishing anchor point over a hatchway or hole	Tripod
Creating anchorage at edge of structure	davitrac™ with portable anchor base
Anchoring temporary lifelines for multiple people	davimast™ with two 360° anchor points
Controlling descent of two people on a rescue line	derope® UP A Descent Device System

# hoists for rescue operations

Rescue workers are very strong people, both mentally and physically. Even so, the work they do routinely requires more than mere muscle power. For lifting and handling heavy equipment and supplies in stations and garages to performing on-scene demolition and rescue work, portable hoists are indispensable tools rescue teams and civil protection departments to have, use, and maintain.

## what to look for in a hoist

Hoists used for rescue applications need to be:

- Lightweight and portable so the hoist can be positioned anywhere on the scene.
- 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 them 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.

If you have any questions about which hoists are right for your team or department, consult the experts in lifting and handling equipment at Tractel®.

# griphoist®/tirfor®

The hoist that defines the manual, lever-operated wire rope hoist category is branded “griphoist” in North America and “tirfor” in other global markets.

## 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

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The griphoist®/tirfor® T500 series includes models with a range of nominal weight capacities for any emergency and rescue use. 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

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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 manriding, making it an important piece of equipment for any rescue crew.

## FEATURES

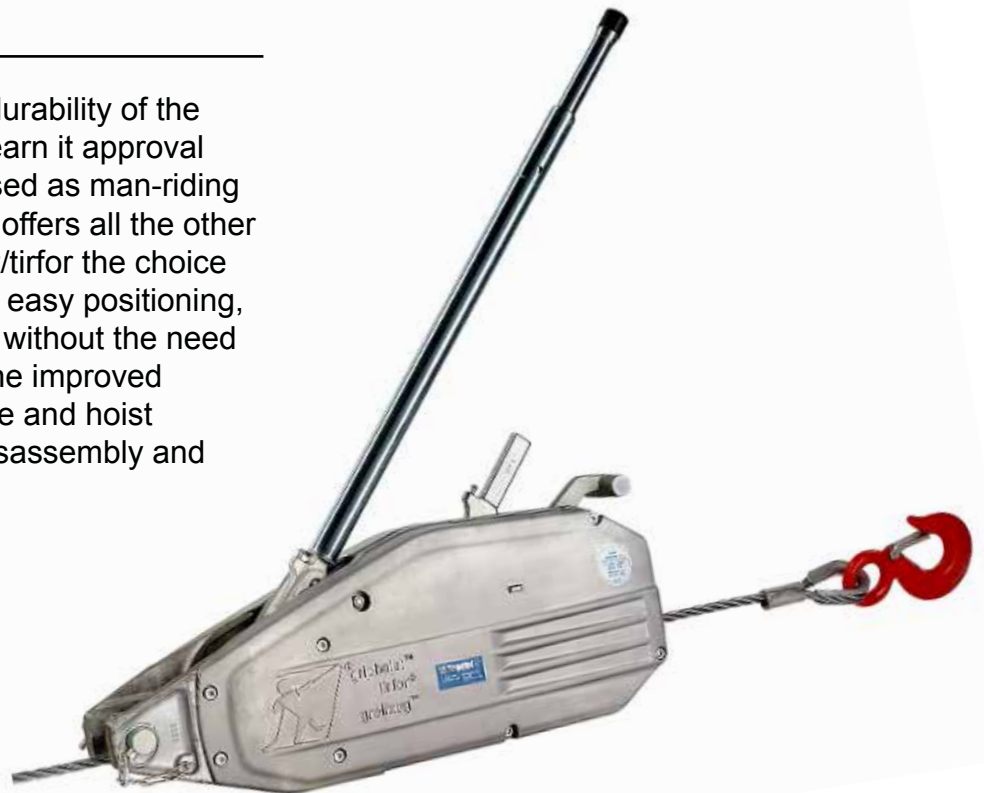
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The superior strength and durability of the griphoist®/tirfor® TU series earn it approval by UL and qualify it to be used as man-riding equipment with maximum loads of 1,500 lbs./675 kg to 6,000 lbs./2,700 kg. This innovative design was one of the 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 lbs./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 at any height using any length of maxiflex wire rope, making them useful over great heights and distances.

## BENEFITS

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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 rescue teams: 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.



# griphoist®/tirfor® rescue kits

Designed to provide portability, quick setup, and reliable life-saving performance to rescue teams, each of these kits includes a durable steel carrying case with a griphoist®/tirfor® TU series wire rope hoist. Also included are a selection of pulleys and slings needed for common applications such as victim retrieval, vehicle hoisting, emergency onsite demolition, and more.

## Rescue Kits by Hoist Type

TU17 rescue kit (2,000 lb./900 kg capacity, 1,500 lb./675 kg for manriding)

TU28 rescue kit (4,000 lb./1,800 kg capacity, 3,000 lb./1,350 kg for manriding)

TU32 rescue kit (8,000 lb./3,600 kg capacity, 6,000 lb./2,700 kg for manriding)



## EACH KIT ALSO INCLUDES

- Steel box
- 60 ft. (18 m) of galvanized wire rope with safety hook mounted on carrying reel
- Telescopic handle for manual operation of the hoist
- Appropriate snatch block pulley
- Wire rope sling, 6 ft. (1.8 m) long with choker hook
- Wire rope sling, 6 ft. (1.8 m) long
- Wire rope sling, 9 ft. (2.7 m) long

# bravo® lever hoist

bravo lever hoists from Tractel® are among the lightest, most portable chain hoist options available. With a range of capacities from 1,100 lbs./0.5 t to 19,800 lbs./9 t, bravo can handle the most demanding loads under extreme conditions.

## FEATURES

bravo's® 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, and its rubber handle makes it easy to maintain a firm grip.



# safety lines & anchorage

Stairs and ladders can help crews reach many spaces on the scene of an emergency, but for descent and rescue, safety lines must sometimes be employed. Controlling rates of movement along safety lines is essential for preventing injuries. Sturdy anchoring points, whether for lines or hoists, are also needed. Available structures may not offer adequate support, so rescue teams often must set up temporary anchorage, such as tripods, booms, or mast-style anchors.



## derope® UP A descent device system

The derope® system is engineered to provide safe descent for both rescuer and rescuee. This system is the portable, powerful, and effective equipment that rescue teams should train with and carry.

### FEATURES

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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

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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 rescuers and rescuees if needed, which can be vital in some rescue situations.



# portable anchorage

For fall protection, material handling, and victim retrieval operations, rescue work often requires one or more strong anchor points, each capable of supporting multiple crew members and their gear. This is particularly important when rescuers need to enter confined spaces or remove people from them. Access to each confined space may vary greatly, so selecting the right anchoring equipment is vital.

## 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 with no tools and equipped with accessories to serve a wide range of functions.

### FEATURES

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- Portable anchoring base available
- Anchorage for up to two users and their gear, up to 330 lbs./150 kg each
- Can serve as an anchor point for manual or motorized wire rope hoist
- Material lifting maximum capacity 1,100 lbs./500 kg, depending on the lifting tools used

### BENEFITS

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- 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

For work in spaces like large vats, partially-collapsed buildings, or other confined spaces, emergency workers and the people they rescue must sometimes be supported by a horizontal lifeline system. 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

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- Adjustable from 3 to 60 ft./1 to 18 m
- Maximum capacity of 2 operators of 310 lbs./140 kg each
- Can be used with temporary lifeline tempo 3 with 3 users of 310 lbs./140 kg

## BENEFITS

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



# tripod

To establish strong anchorage over an opening into a roof, manhole, or other vertical confined space, a tripod can be an excellent equipment choice.

## FEATURES

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- Tested to stop the simultaneous fall of two operators weighing 300 lbs./150 kg each
- Material lifting capability of 1,100 lbs./500 kg
- Can be positioned over openings up to 6 ft./1.85 m wide

## BENEFITS

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- Folds to fit in small vehicles
- Lightweight for easy carrying
- Can attach multiple hoists and other equipment at once



# Tractel®: quality, reliability, and performance when it matters most

Every time rescue workers go to work can be a matter of life and death. The heroic individuals in these jobs need equipment they can count on. Globally known as THE top tier choice for hoists and related rescue gear, Tractel® engineers all their products to be durable and reliable under the most demanding and extreme conditions. Tractel hoists, rescue kits, and other equipment are used and trusted by emergency teams, civil protection departments, and rescue 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®

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To learn more about how Tractel® products and services support rescue workers and to see what we can do for your department, visit [tractel.com](http://tractel.com) or contact a civil protection specialist today.



BOSTON  
**1 800 421-0246**  
[tractel.usa-east@tractel.com](mailto:tractel.usa-east@tractel.com)

LOS ANGELES  
**1 800 675-6727**  
[tractel.usa-west@tractel.com](mailto:tractel.usa-west@tractel.com)

MONTREAL  
**1 800 561-3229**  
[tractel.canada@tractel.com](mailto:tractel.canada@tractel.com)

[www.tractel.com](http://www.tractel.com)