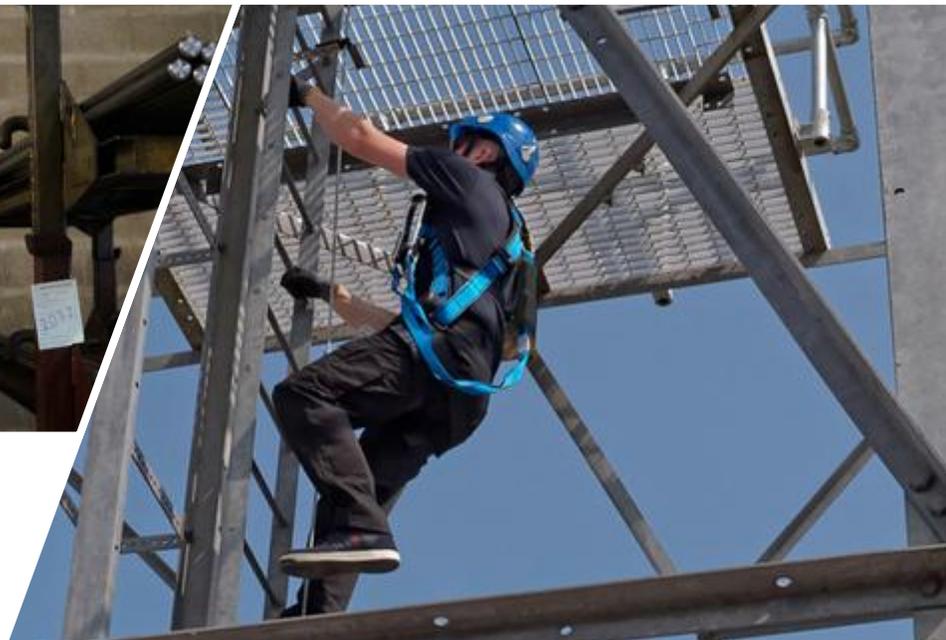
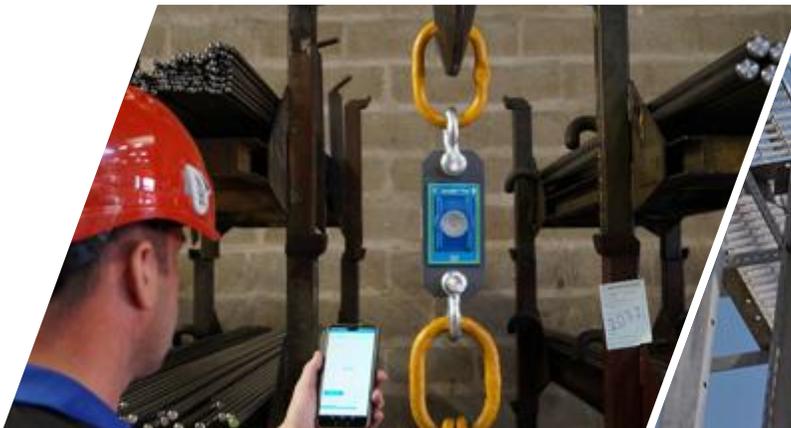




PART OF ALIMAK GROUP



Catalogue

Lifting and Handling | Height Safety | Measure and Control

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PART OF ALIMAK GROUP

Tractel is a world leading safety specialist providing reliable, innovative and cost-effective working-at-height solutions and services. These solutions are used in many end-user applications, in particular in industrial, construction, energy, telecoms and infrastructure projects.

Tractel's solutions portfolio comprises of:

LIFTING AND HANDLING

World leader in pass-through manual wire rope hoists (Tirfor) and pass-through electrical wire rope hoists (Tirak, Minifor), clamps, pulleys and hooks, as well as ground handling equipment.

HEIGHT SAFETY

Leading provider of working-at-height personal protective equipment—fall arrest devices (Stopfor, Blocfor, Derope), anchors, harnesses—as well as collective protective equipment, such as guardrails, (BlueWater), and safety gates (Fabenco).

MEASURE AND CONTROL

European leader in industrial load measurement and control—Dynafor, Handifor, Dynasafe, Dynaline, Dynarope and Dynaplug.

SERVICES

Inspection, maintenance and general overhauls services of mechanical equipment, as well as training and rental services.

Established more than 80 years ago, Tractel today has significant manufacturing facilities in Europe (France, Germany, Poland, Spain), the USA (Houston), Canada (Toronto, Montreal), China (Shanghai), Singapore and Turkey. These facilities are supported by dedicated centers of excellence in R&D, engineering and safety standards. Tractel has customers in 120 countries, subsidiaries in 19 countries, 10,000 distributors around the world, and is part of Alimak Group that employs around 3,100 people.

This network of expertise, experience and geographical locations allows Tractel to achieve global reach with local presence.

For further information, visit www.tractel.com.



The hoist that started it all:
the Tirfor, 1941

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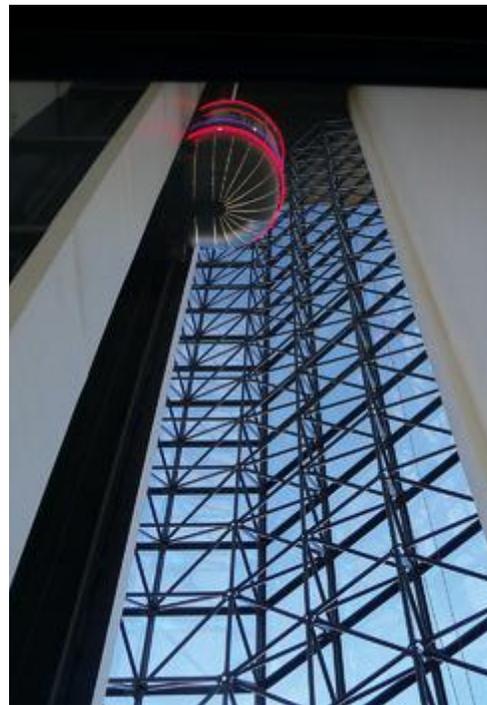
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WORLDWIDE LEADER FOR ELEVATOR INSTALLATION HOISTS

A wide offer:

- Tirak man-riding hoists
- Minifor material hoists
- Blocstop safety devices
- Corso trolleys and anchoring points
- Man-riding pulleys
- Height safety equipment
- Harnesses and lanyards
- Blocfor self-retracting devices
- Anchor test plates
- Transport cart/Tool for Tirak man-riding hoists



Tractel's unique test plates

TA test plates are test specimens endowed with a breaking section calibrated to break under a determined traction force. It is the fastest and simplest way to determine that a lifting point can safely pull a determined capacity.

Tractel offers several types of anchor testers calibrated to break with a tolerance range of $\pm 10\%$.

Capacities: 1,200, 1,500, 2,000 and 4,000 daN



BEFORE



AFTER



LIFTING AND HANDLING



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Tirfor

Wire rope hoists

The Tirfor lifting and pulling hoists are safe, reliable and efficient. Suitable for many applications, the Tirfor is a lever-operated wire rope hoist using a separate wire rope. One-man operated, using a telescopic operating handle, they can work in any position and over any height of lift. They can replace conventional winches and other hoists for many applications. Best uses are when doing long pulls or when requirements call for increasing capacity.

MULTIPLE OPERATION

- Works in any position; horizontal, vertical or angled
- Unlimited length of wire rope
- Increase the nominal capacity with multiple sheave blocks
- Long length of wire rope much easier to handle than chain

SIMPLE

- Fast and easy installation and use
- Easy to install or remove the wire rope
- Continuous operation without jerking
- Reduced maintenance with simple cleaning and regular lubrication
- Change from forward to reverse operation by transferring the operating handle from one lever to another

HEAVY DUTY

- High mechanical advantage
- Both ranges will operate in the most difficult conditions

SAFE AND RELIABLE

- The load is always permanently controlled with the utmost precision: when operation stops, the load is distributed on two jaw blocks
- TU range "UL" classified for man-riding applications for use as a scaffold hoist
- Each hoist is equipped with overload shear pins



CHOICE

Light and compact, the Tirfor T500D machines are easy to handle, provided a high mechanical advantage and are economical.



INCREASE OF LIFTING AND PULLING POWER

It is possible for lifting and pulling applications to increase the capacity of the Tirfor by using multiple sheave blocks without the user being directly in front of the load.



POWERFUL

Tirfor TU machines are in daily operation on construction sites around the world bringing power where it is needed for lifting, pulling and handling a wide variety of loads.

Tirfor

Wire rope hoists

CONSTRUCTION, PUBLIC WORKS, CIVIL ENGINEERING

- Moving and positioning formwork horizontally or vertically
- Positioning section or precast concrete beams
- Lifting work platforms or suspended working platforms
- Dragging, general lifting, guying, tensioning, etc.

BRIDGES

- Positioning formwork
- Guy-wire tensioning
- Pulling pre-cast concrete beams
- Suspending inspection and maintenance platforms

STEEL STRUCTURES

- Plumbing or aligning steel structures
- Erecting steel silos / structures

INDUSTRY

- Installation and removal of machine tools and presses
- Loading and unloading of heavy equipment
- Lifting and pulling during maintenance operations

ESCALATORS, ELEVATORS

- Loading, unloading and rigging of escalators
- Lifting and positioning cars and hoisting mechanisms

ELECTRICITY AND TELECOMMUNICATIONS

- Positioning transformers
- Erection of mobile aerials and antennas
- Tensioning underground and overhead cables
- Guy rope tensioning operations
- Each hoist is equipped with overload shear pins

ENTERTAINMENT

- Raising and lowering tents
- Tensioning of guy ropes
- TU series are man-riding rated by UL



OIL AND CHEMICAL INDUSTRIES

- Controlled positioning and assembly of pipes and ducting
- Tensioning guy ropes for silos stay and tanks during construction
- Inspection and maintenance work

EMERGENCY SERVICES (FIREMAN)

- Vehicle removal
- Rescue operations
- Large animal rescue
- Structural collapses
- Auto accidents
- 18-wheeler rollovers
- Tree and debris removal
- And a host of other accident and disaster applications

MODEL	T508D	T516D	T532D	TU17	TU28	TU32
Nominal capacity	2,000 lb.	4,000 lb.	8,000 lb.	2,000 lb.	4,000 lb.	8,000 lb.
Unit weight	14.25 lb. (6.6 kg)	30 lb. (13.5 kg)	51 lb. (24 kg)	18.5 lb. (8.4 kg)	41 lb. (18.6 kg)	59.5 lb. (27 kg)
Rope travel/ stroke lifting	1.8 in. (46 mm)	1.7 in. (42 mm)	0.7 in. (18 mm)	2 in. (50 mm)	2.2 in. (56 mm)	1.2 in. (30 mm)
Machine dimensions	16½ x 9⅞ x 3⅞ in. (420 x 250 x 99 mm)	20⅞ x 12⅞ x 5 in. (530 x 315 x 127 mm)	24⅞ x 14 x 5⅞ in. (631 x 357 x 148 mm)	20¾ x 9¾ x 4½ in. (825 x 284 x 113 mm)	26 x 13 x 5¾ in. (660 x 360 x 145 mm)	27 x 13 x 6⅞ in. (685 x 365 x 156 mm)
Handle (closed-ext.)	16–27 in. (405–690 mm)	26–45 in. (648–1,147 mm)	26–45 in. (648–1,147 mm)	18–28 in. (450–730 mm)	26–45 in. (648–1,147 mm)	26–45 in. (648–1,147 mm)
Wire rope dia.	⅝ in. (8.4 mm)	⅞ in. (11.5 mm)	⅝ in. (16.3 mm)	⅝ in. (8.4 mm)	⅞ in. (11.5 mm)	⅝ in. (16.3 mm)
Min. wire rope breaking strength	10,000 lb. (4,500 kg)	20,000 lb. (9,000 kg)	40,000 lb. (18,000 kg)	10,000 lb. (4,500 kg)	20,000 lb. (9,000 kg)	40,000 lb. (18,000 kg)
Wire rope weight	8 lb./30 ft. (3.5 kg/9 m)	28.9 lb./60 ft. (13 kg/18 m)	8 lb./30 ft. (3.5 kg/9 m)	8 lb./30 ft. (3.6 kg/9 m)	28.9 lb./60 ft. (13 kg/18 m)	8 lb./30 ft. (3.5 kg/9 m)

Capacities shown for material handling only—For man-riding capacities, contact us.

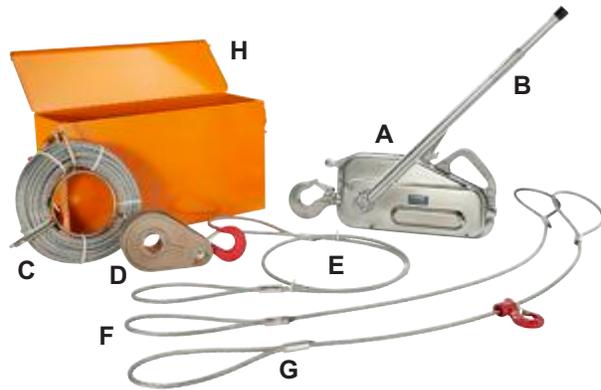
Tirfor

Rescue kits

Easily and quickly set up, the Tirfor rescue kits lift, pull and lower loads to save lives, rescue accident victims, remove obstructing trees and debris, tear down walls, handle wrecked automobiles and trucks and solve scores of other accident and disaster problems.

EACH RESCUE KIT INCLUDES

- A. Tirfor TU series hoist as specified
- B. Telescopic handle for manual operation of the hoist
- C. 60 ft. (18 m) of galvanized wire rope with safety hook mounted on carrying reel
- D. Appropriate snatch block pulley
- E. Wire rope sling, 9 ft. (2.7 m) long
- F. Wire rope sling, 6 ft. (1.8 m) long
- G. Wire rope sling, 6 ft. (1.8 m) long with choker hook
- H. Steel box



Pull-All J3 | Super Pull-All J5

Winch-hoists with unlimited wire rope

The Pull-All J3 and Super Pull-All J5 are universal lifting and pulling devices. These devices are ultra-lightweight, strong and are easy to operate and maintain. They can be used in countless applications.

HANDY

In just a few seconds the Pull-All is ready for operation:

1. Disengage wire rope release knob
2. Insert wire rope and push slack rope through the machine
3. Lock wire rope release knob into position
4. Anchor the Pull-All to a fixed point and attach load to wire rope hook
5. Place operating handle on forward motion lever and move it to and fro.
6. The Pull-All is ready for use!

INDISPENSABLE

The Pull-All is the ideal handyman tool for:

- Positioning trailers in places impracticable for a car
- Removing car engines
- Up-rooting small trees and stumps
- Freeing cars when stuck in mud, snow or a bog
- Beaching boats which cannot be reached by a transport vehicle
- Tensioning wires and wired fencing
- Tensioning overhead electric cables, erecting and tensioning wood or lattice masts, pylons, as well as concrete forms
- During house construction: installing radiators, heating elements, beams, uprights and bearers



Pull-All J3



Super Pull-All J5

MODEL	PULL-ALL (J3)	SUPER PULL-ALL (J5)
Nominal capacity	700 lb. (300 kg)	1,100 lb. (500 kg)
Wire rope dia.	3/16 in. (4.7 mm)	1/4 in. (6.5 mm)
Effort on handle	17.6 lb. (8 kg)	52.8 lb. (24 kg)
Dimensions of the machine	12.7 x 7.9 x 1.6 in. (320 x 200 x 40 mm)	14.7 x 8.5 x 2.2 in. (370 x 215 x 55 mm)
Unit weight	5.5 lb. (2.5 kg)	11 lb. (5 kg)

Hydraulic Tirfor

The hydraulic Tirfor hoist with self-reciprocating rams are available in two models:

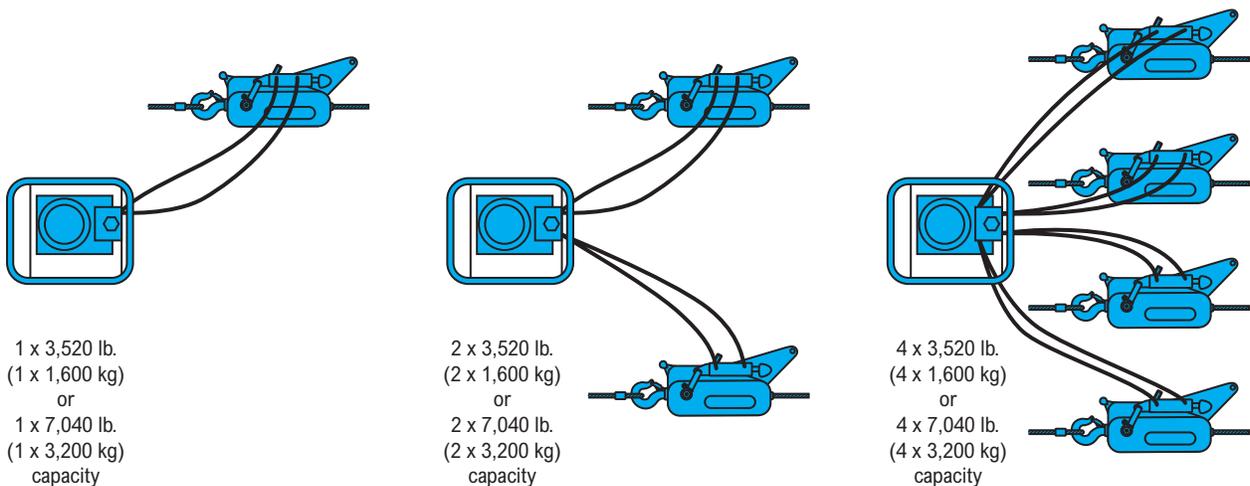
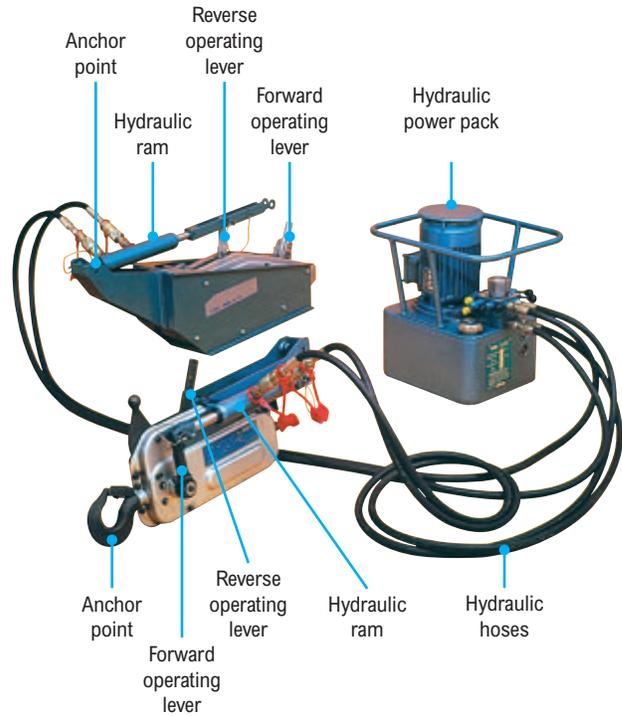
- TU28H with 3,520 lb. (1,600 kg) material handling capacity
- TU32H with 7,040 lb. (3,200 kg) material handling capacity

A hydraulic power pack can operate one, two or four hoists from a central location. The power packs are operated by either electric motors or gasoline engines. The speed of operation is controlled using a variable flow control valve.

MODEL	TU28H	TU32H
Nominal capacity material handling	3,520 lb. (1,600 kg)	7,040 lb. (3,200 kg)
Maximum speed forward/lifting*	6.5 fpm (2 m/min)	3.25 fpm (1 m/min)
Maximum speed reverse/lowering	8.7 fpm (2.7 m/min)	5.9 fpm (1.8 m/min)
Unit weight with ram	66 lb. (30 kg)	123 lb. (56 kg)
Hydraulic power pack with oil	95 lb. (43 kg)	95 lb. (43 kg)
Gasoline engine power pack	112 lb. (50 kg)	112 lb. (50 kg)
Tirfor wire rope**	7/16 in. (11.5 mm)	5/8 in. (16.3 mm)
Wire rope construction	5 x 26 XIPS galv.	5 x 31 XIPS galv.

*Speed for one hoist only

**Wire rope is sold separately



Gripwinch

Material handling wire rope hoists – X and T series

The performance standard for material handling hoists.

Tractel has more than 40 years of experience in manufacturing motorized wire rope hoists. The mechanism is engineered in such a way that the wire rope runs through the Gripwinch without being stored, allowing for unlimited wire rope length capability. All Gripwinch hoists are manufactured in Germany to ISO 9001 and ISO 14001 standards. They also meet CSA and UL requirements.

BENEFITS

- Extremely reliable: less maintenance, higher productivity and better efficiency
- Compact design: easy installation and incorporation in your specific application
- Lightweight: this maximizes the usable workload for better efficiency
- Stability: constant lifting torque and speed, independent from lifting height
- Flexibility: power supply in your required voltage, or air powered also available



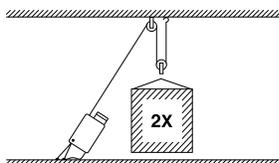
MODEL	CAPACITY	SPEED	MOTOR TYPE*	OUTPUT	RATED CURRENT	DIMENSIONS (L X W X H)	WEIGHT
X300	700 lb. (300 kg)	33 fpm (10 m/min)	T	0.45 kW	5.2 A	15.7 x 9.8 x 8.7 in. (40 x 25 x 22 cm)	55 lb. (24.9 kg)
X301	700 lb. (300 kg)	33 fpm (10 m/min)	S	0.55 kW	5.2 A	15.7 x 9.8 x 8.7 in. (40 x 25 x 22 cm)	55 lb. (24.9 kg)
XA300	700 lb. (300 kg)	17–30 fpm (6–9 m/min)	A	–	–	14.2 x 11.8 x 8.7 in. (36 x 30 x 22 cm)	44 lb. (20 kg)
X502	1,100 lb. (500 kg)	69 fpm (21 m/min)	T	1.8 kW	9.0 A	19.7 x 11.8 x 9.8 in. (50 x 30 x 25 cm)	85.8 lb. (39.8 kg)
X500	1,100 lb. (500 kg)	35 fpm (11 m/min)	T	0.9 kW	6.3 A	18.9 x 11.8 x 9.8 in. (48 x 30 x 25 cm)	85.8 lb. (39.8 kg)
X501	1,100 lb. (500 kg)	35 fpm (11 m/min)	S	1.1 kW	8.3 A	21.7 x 11.8 x 9.8 in. (55 x 30 x 25 cm)	105.8 lb. (48 kg)
XA500	1,100 lb. (500 kg)	30 fpm (9 m/min)	A	–	–	16.1 x 11.8 x 9.8 in. (41 x 30 x 25 cm)	77.2 lb. (35 kg)
X700	1,500 lb. (700 kg)	16 fpm (5 m/min)	T	0.75 kW	5 A	20.1 x 11.8 x 9.8 in. (51 x 30 x 25 cm)	97 lb. (44 kg)
XA700	1,500 lb. (700 kg)	17–30 fpm (6–9 m/min)	A	–	–	20.1 x 11.8 x 9.8 in. (51 x 30 x 25 cm)	86 lb. (39 kg)
X1020	2,200 lb. (1,000 kg)	35 fpm (11 m/min)	T	2.2 kW	18 A	26 x 14.2 x 12.6 in. (66 x 36 x 32 cm)	185.2 lb. (84 kg)
X2050	4,400 lb. (2,000 kg)	23 fpm (6 m/min)	T	2.2 kW	18 A	26 x 15.7 x 14.2 in. (66 x 40 x 36 cm)	187.4 lb. (85 kg)
X3050	6,600 lb. (3,000 kg)	23 fpm (6 m/min)	T	3.8 kW	19.5 A	26 x 15.7 x 14.2 in. (66 x 40 x 36 cm)	213.8 lb. (97 kg)

T-Series – Traction in both direction

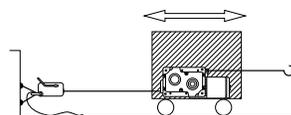
T1000	2,200 lb. (1,000 kg)	35 fpm (11 m/min)	T	2.2 kW	9.6 A	22.8 x 13 x 12.6 in. (58 x 33 x 32 cm)	160.9 lb. (73 kg)
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*S = Single phase, T = Three phase, A = Pneumatic

MULTIPLE USES



It is possible for lifting and pulling applications, to increase the capacity of the Gripwinch by using multiple sheave blocks.



The Gripwinch can move with the load.

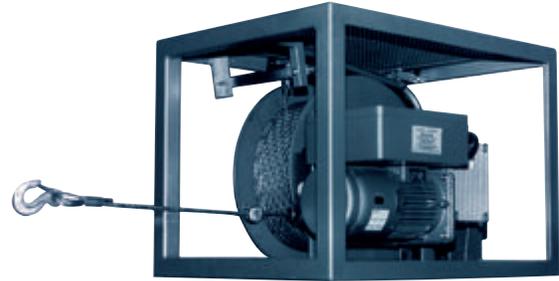
Gripwinch

Mobile wire rope hoists

The Gripwinch is a motorized traction hoist built for lifting and pulling in a wide variety of applications. For easier manipulation and storage, the Gripwinch is available in several models, with or without a wire rope reeler, mounted on a frame, electric or air operated.

FEATURES

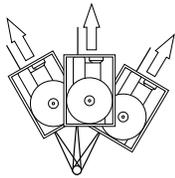
- Extremely compact for easy installation
- Works in any direction
- Single line capacity 700 to 2,200 lb. (300 to 1,000 kg)
- Power supply: 110, 220V/1ph, 220V/3ph, 480V, air, hydraulic
- Reelers available in standard sizes of 165 and 1,650 ft. (50 and 500 m)
- Operating speed up to 70 fpm (21 m/min)
- Control type: 10 ft. (3 m) hardwired pendant control, detachable control, direct control, or central control
- Meet CSA and UL requirements



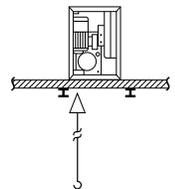
MODEL	CAPACITY	SPEED	MOTOR TYPE*	OUTPUT	RATED CURRENT	DIMENSIONS (L X W X H)	WEIGHT
MG300-50	700 lb.	33 fpm (10 m/min)	S	0.55 kW	5.2 A	25.2 x 16.9 x 18.9 in.	110.2 lb. (50 kg)
MG302-50	(300 kg)	66 fpm (21 m/min)	T	1.1 kW	5.2 A	(64 x 43 x 48 cm)	110.2 lb. (50 kg)
MG500-50		35 fpm (11 m/min)	S	1.1 kW	8.7 A		154.3 lb. (70 kg)
MG505-50	1,100 lb.	17/35 fpm (5/11 m/min)	Bi	0.55/1.5 kW	3.7/5.5 A	29.1 x 18.9 x 22 in.	159.8 lb. (72.5 kg)
MG506-50	(500 kg)	17/70 fpm (5/21 m/min)	Bi	0.55/1.8 kW	3.7/9 A	(74 x 48 x 56 cm)	159.8 lb. (72.5 kg)
MG503-50		35/70 fpm (11/21 m/min)	Bi	1.1/1.8 kW	5.5/10 A		159.8 lb. (72.5 kg)
MG700-50		35 fpm (11 m/min)	T	2.2 kW	9.4 A		159.8 lb. (72.5 kg)
MG705-50	1,500 lb.	17/35 fpm (5/11 m/min)	Bi	0.75/1.5 kW	5/7 A	29.1 x 18.9 x 22 in.	165.3 lb. (75 kg)
MG706-50	(700 kg)	17/70 fpm (5/21 m/min)	Bi	0.75/3 kW	5/15 A	(74 x 48 x 56 cm)	165.3 lb. (75 kg)
MG703-50		35/70 fpm (11/21 m/min)	Bi	1.5/3 kW	7/15 A		165.3 lb. (75 kg)
MG1020-50		35 fpm (11 m/min)	T	2.2 kW	9.4 A		229.3 lb. (104 kg)
MG1025-50	2,200 lb.	17/35 fpm (5/11 m/min)	Bi	1.1/2.2 kW	6.4/8 A	29.9 x 20 x 22 in.	254.6 lb. (115.5 kg)
MG1026-50	(1,000 kg)	17/70 fpm (5/21 m/min)	Bi	1.1/3.5 kW	7.8/20 A	(76 x 51 x 56 cm)	206.1 lb. (118 kg)
MG1023-50		35/70 fpm (11/21 m/min)	Bi	2.2/3.5 kW	10/20 A		254.6 lb. (115.5 kg)

Also available in 1,650 ft. (500 m) capacity. *S = Single phase, T = Three phase, Bi = Bi-directional

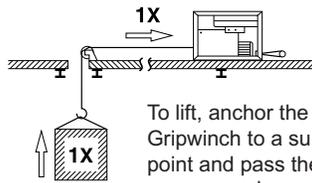
MULTIPLE USES



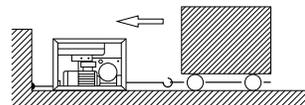
The mobile Gripwinch automatically turns in the direction of the pull. Furthermore, with the mobile Gripwinch, the capacity and speed remain constant at all times.



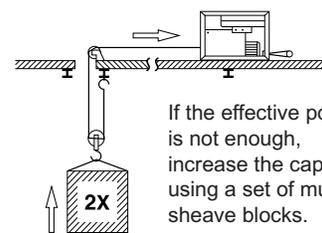
If the hole is not big enough for the rope hook to pass through, position the mobile Gripwinch and pass the wire rope through the hole and then into the Gripwinch.



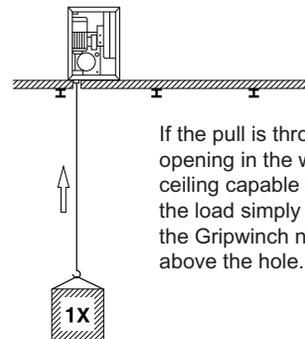
To lift, anchor the mobile Gripwinch to a suitable point and pass the wire rope around one or more return pulley.



To anchor the frame, simply attach the mobile Gripwinch to a suitable anchored point using a wire rope sling, chain or similar attachment.



If the effective power is not enough, increase the capacity using a set of multiple sheave blocks.



If the pull is through an opening in the wall or ceiling capable of taking the load simply locate the Gripwinch near or above the hole.

Tirak

L-series man-riding hoists

The Tirak L-series hoists have a compact and lightweight design, meeting the highest requirements on usable workload and space restrictions. Small and light, but still powerful, they can be used for loads up to 1,000 lb. The L-series hoists use a single-disk driver system and spring-loaded pressure rollers for gripping the wire rope. As no wire rope is stored they have unlimited length of lift.

Our Tirak hoists are also available in a pneumatic version. Ideally suited for all applications where electrical power supply is not available or possible.

FEATURES

- Power consumption reduced by 20%, hoist is less sensitive to low power supply
- Among the lightest hoists on the market, ergonomically designed for users
- The Tirak technology is known for having fewer parts resulting in lower maintenance cost
- Speed of 33 fpm (10 m/min) maintaining high productivity
- Low voltage indicator light on single phase models reducing service calls
- Longer wire rope usage, more than 3,000 cycles with Tractel wire rope
- Flanged motor for easier service
- Advanced technology
 - High strength aluminum for casings
 - High strength steel for gears
 - Special hardening for gear surfaces
 - Synthetic oil to reduce friction and provide wider temperature range of use
 - Radial bearings
 - One-roller pressure system
- Meet CSA and UL requirements

OPTION

- Hour meter for regular service maintenance



TIRAK L-SERIES ELECTRIC HOISTS

33 fpm (10 m/min) with Blocstop BSO overspeed device

MODEL	DESCRIPTION	RATED LOAD	AMPERAGE	WEIGHT
LE501PA1	5/16 in. (8.4 mm) 110 V*/1 phase with BSO 500 <i>*Note: 110 V hoist has a speed of 23 fpm (7 m/min)</i>	1,000 lb.	10.5 A	84 lb. (38.1 kg)
LE501P1	5/16 in. (8.4 mm) 220 V/1 phase with BSO 500	1,000 lb.	6.8 A	84 lb. (38.1 kg)
LE500P1	5/16 in. (8.4 mm) 220 V/3 phase with BSO 500	1,000 lb.	4.8 A	73 lb. (33.1 kg)
LE501P2	5/16 in. (8.4 mm) 220 V/1 phase with BS/BSO 500	1,000 lb.	6.8 A	89 lb. (40.4 kg)
LE500P2	5/16 in. (8.4 mm) 220 V/3 phase with BS/BSO 500	1,000 lb.	4.8 A	78 lb. (35.4 kg)

AIR (DIRECT CONTROL)

Up to 33 fpm (10 m/min) with Blocstop BSO overspeed device

MODEL	DESCRIPTION	RATED LOAD	WEIGHT
LA500P10	5/16 in. (8.4 mm) 85 PSI and 60 CFM with BSO 500	1,000 lb.	65 lb. (29.5 kg)
LA500P20	5/16 in. (8.4 mm) 85 PSI and 60 CFM with BS/BSO 500	1,000 lb.	70 lb. (31.8 kg)

Tirak

X and T-series man-riding hoists

The Tirak hoists of our X-series are the standard, high performance, lightweight models for all man-riding applications. The X-series cover a wide range of usable workload of up to 5,500 lb. The T-series has a usable workload of up to 2,000 lb.

The X-series uses a single-disk driver system and spring-loaded pressure rollers for gripping the wire rope on the pulley. The T-series uses a dual-disk driver system which allows it to pull in both directions, with full capacity.

Our Tirak hoists are also available in a pneumatic version, ideally suited for all applications where electrical power supply is not available or possible.

FEATURES

- Extremely durable
- 700 to 5,500 lb. lifting range
- Easily maintained
- Superior reliability
- 110 to 480 voltage range
- Pneumatic and electric hoist available
- Built-in safety features
- Special applications available
- Meet CSA and UL requirements

OPTIONS

- Pendant control
- Wireless remote available for material hoist only

THE INDUSTRY STANDARD!



TIRAK ELECTRIC HOISTS

MODEL	RATED LOAD	SPEED	VOLTAGE	TYPE	AMPERAGE	PHASE	MAXIFLEX WIRE ROPE			
							Ø	MIN. BREAKING STRENGTH	CONSTRUCTION	WEIGHT
XE301P	700 lb.	35 fpm (11 m/min)	110 V (220 V)	0.55 kW	10.5 A (5.2 A)	Single (Three)	5/16 in. (8.4 mm)	10,000 lb. (4,500 kg)	5x19, 4x26, 5x26, 6x19 with fiber core, performed, galvanized	82 lb. (37.2 kg)
XE500P+	1,000 lb.	35 fpm (11 m/min)	220 V	1.0 kW	6.3 A	Three	5/16 in. (8.4 mm)	10,000 lb. (4,500 kg)	5x19 or 5x26	106 lb. (48.1 kg)
XE501P+	1,000 lb.	35 fpm (11 m/min)	220 V	1.0 kW	8.3 A	Single	5/16 in. (8.4 mm)	10,000 lb. (4,500 kg)		128 lb. (58.1 kg)
XE721P	1,500 lb.	35 fpm (11 m/min)	220 V	1.5 kW	12 A	Single	3/8 in. (9.5 mm)	10,000 lb. (4,500 kg)	5x19, 4x26, 5x26, 6x19 with fiber core, performed, galvanized	123 lb. (55.8 kg)
XE720P	1,500 lb.	35 fpm (11 m/min)	220 V	1.5 kW	6 A	Three	3/8 in. (9.5 mm)	10,000 lb. (4,500 kg)		112 lb. (50.8 kg)
XE1030P	1,800 lb.	35 fpm (11 m/min)	220 V	2.2 kW	10 A	Three	10.2 mm	15,000 lb. (6,800 kg)		120 lb. (54.4 kg)
XE2050P	3,500 lb.	23 fpm (7 m/min)	220 V	2.4 kW	16 A	Three	5/16 in. (14.2 mm)	15,000 lb. (6,800 kg)	5x26, 6x19 IWRC galvanized	185 lb. (83.9 kg)

*Includes BSO secondary brake

¹ The Tirak XE701P must be adapted for use in Canada (ref. XE721P or XE720P) for a 3/8 in. (9.5 mm) wire rope.

² The Tirak XE1020P must be adapted for use in Canada (ref. XE1030P) for a 10 mm wire rope and will have a rated load of 1,800 lb. (815 kg).

³ The Tirak XE2050P and XE2553P used in Canada has a rated load of 3,500 lb. (1,590 kg)

Air and electric hoist have direct control, remote control available on requests for all hoist. Please inquire for more information.

Tirak

Air hoist for special applications

In some applications using compressed air is the best way to drive a Tirak. Wherever the installation does not allow the use of electrical power or where compressed air is easily available, the air-powered Tirak hoists are the best solution.

The working principle of the Tirak remains the same. Instead of a power cable, a compressor via an air hose is connected to the Tirak supplying the air at an appropriate pressure and volume. It is an easy and safe option.

Both versions of our Tirak hoists, electrically powered and air powered, are manufactured according to the same high quality standards and are certified for man riding applications.

FEATURES

- Extremely durable
- 700 to 5,300 lb. lifting range
- Easily maintained
- Superior reliability
- Built-in safety features
- Meet CSA and UL requirements



Integral FRL
(Filter, regulator and lubricator)
Air preparation unit sold separately



TIRAK AIR HOISTS

MODEL	RATED LOAD	SPEED	CONSUMPTION	WORKING PRESSURE	Ø	MAXIFLEX WIRE ROPE	
						MIN. BREAKING STRENGTH	CONSTRUCTION
XA500P	1,000 lb.	0–30 fpm (0–9 m/min)	53 cfm	85 PSI	5/16 in. (8.4 mm)	10,000 lb. (4,500 kg)	5x19, 4x26, 5x26, 6x19 with fiber core, performed, galvanized
LA500P	1,000 lb.	0–20 fpm (0–6 m/min)	60 cfm	85 PSI	5/16 in. (8.4 mm)	10,000 lb. (4,500 kg)	5x19 or 5x26
XA700P¹	1,500 lb.	0–30 fpm (0–9 m/min)	53 cfm	85 PSI	5/16 in. (8.4 mm)	10,000 lb. (4,500 kg)	5x19, 4x26, 5x26, 6x19 with fiber core, performed, galvanized
TA1020P²	2,000 lb.	0–30 fpm (0–9 m/min)	100 cfm	85 PSI	3/8 in. (9.5 mm)	15,000 lb. (6,800 kg)	5x19, 5x26, 4x26, 6x19 IWRC galvanized
XA1020P²	2,200 lb.	0–23 fpm (0–7 m/min)	100 cfm	85 PSI	3/8 in. (9.5 mm)	15,000 lb. (6,800 kg)	
XA2050P³	4,400 lb.	13 fpm (4 m/min)	160 cfm	85 PSI	3/16 in. (14.2 mm)	35,000 lb. (15,800 kg)	5x26, 6x26

¹ The Tirak XA700P must be adapted for use in Canada (ref. XA720P) for a 3/8 in. (9.5 mm) wire rope.

² The Tirak TA1020P and XA1020P must be adapted for use in Canada (ref. TA1030P and XA1030P) for a 10 mm wire rope and will have a rated load of 1,800 lb. (815 kg).

³ The Tirak XA2050 used in Canada has a rated load of 3,500 lb. (1,590 kg)

Air and electric hoists have direct control, remote control available by request for all hoists. Please inquire for more information.

Tirak

Radio remote hoist with driven reeler

The XE301P Tirak hoist gives the operator control of position and movement. No hand signals, no communication failure that can be hazardous to the worker.

- Rated load 700 lb. single parted
- Constant speed of 35 fpm (11 m/min)
- Power 110 V, 12 A, 0.55 kw
- FCC radio control 458 MHz
- Operating temperature -31°F to 104°F (-35°C to 40°C)
- Strength factor > 4 to 1 on hoist
- Reeler capacity 320 ft. x $\frac{5}{16}$ in. (100 m x 8.4 mm)
- Emergency stop button
- LED power on indicator light on radio remote
- Meet CSA and UL requirements

3 BRAKES

- Secondary overspeed brake protects against wire rope run-off
- Controlled descent brake for emergency lowering without power
- Primary electromagnetic brake

Hoist is suitable for a variety of applications, including use of pendent control. Ask for details about your application.



XE301P radio remote Tirak hoist

Tirak

Passive wire rope reeler

Designed for applications where wire rope needs to be maintained during operation.

The passive reeler mounting kit is available for collecting wire rope. Available in 131, 162 and 196 ft. (40, 50 and 60 m) based on $\frac{5}{16}$ in. (8.4 mm) rope size. The self-fed reeler is designed for Tirak powered hoists through which the wire rope passes (X-300, X-500, X-700 and T-1000 series). The use of smaller wire rope reelers offers a compact and practical solution for jobs needing wire rope in a confined space.

APPLICATIONS

- Various lifting jobs on building sites
- Pulling goods wagons or other transport equipment
- Material handling in theatres, entertainment or cinema studios
- Jobs on masts and antennas, etc.

**Available for various lengths and wire rope dimensions.
Driven reelers for longer lengths also available.**



Tirak hoist with passive reeler on a platform

Minifor

Portable electric hoists with unlimited lifting height

FEATURES

- Portable and powerful for unlimited lifting height
- A complete range of electric hoists for a wide range of applications
- Rated loads of 220, 660 and 1,100 lb. (100, 300 and 500 kg) which can be doubled with a sheave kit
- Unlimited height of lift
- Optional rope reeler for TR10 and TR30 models
- 6½ ft. (2 m) pendant control
- Direct lift or sheaving kit for increased capacity
- Single phase or three phase power
- TR10 and TR30 come with blue steel box
- Meet CSA and UL requirements
- Optional wireless remote control available

QUALITY AND POWER

- High power to weight ratio
- Body in aluminium alloy
- Unlimited length of lifting wire rope
- Wire rope, diameter of ¼ in. (6.5 mm)
- 115 V standard, 220 V available

SAFETY

- Upper and lower adjustable end limit stops
- Motor integrated brake



TR50 /
TR30S



TR30



Minifor
TR10/TR30 fitted
with sheave block kit
(optional)



Minifor fitted with
wire rope reeler
(optional)

MODEL	DIMENSIONS (L X W X D)	CAPACITY		SPEED		POWER SUPPLY			RATED CURRENT	OPTIONAL WIRE ROPE REELER		UNIT WEIGHT*
		DIRECT	SHEAVED	DIRECT	SHEAVED	SINGLE PHASE 115 V	SINGLE PHASE 220 V	THREE PHASE 220 V		66 FT. (20 M)	100 FT. (35 M)	
TR10	14 x 9 x 17 in. (35.6 x 22.9 x 43.2 cm)	220 lb. (100 kg)	440 lb. (200 kg)	50 fpm (15 m/min)	25 fpm (7.5 m/min)	■	■	–	9.3 A	■	■	46 lb. (21 kg)
TR30	14 x 9 x 17 in. (35.6 x 22.9 x 43.2 cm)	660 lb. (300 kg)	1,320 lb. (600 kg)	17 fpm (5 m/min)	8.5 fpm (2.5 m/min)	■	■	–	9.3 A	■	■	46 lb. (21 kg)
TR30S	19 x 9 x 17 in. (48.3 x 22.9 x 43.2 cm)	660 lb. (300 kg)	1,320 lb. (600 kg)	43 fpm (13 m/min)	21 fpm (6.5 m/min)	■	■	■	20 A	–	–	71 lb. (32 kg)
TR50	19 x 9 x 17 in. (48.3 x 22.9 x 43.2 cm)	1,100 lb. (500 kg)	2,200 lb. (1,000 kg)	23 fpm (7 m/min)	11.5 fpm (3.5 m/min)	■	■	■	10 A	–	–	71 lb. (32 kg)

*Without wire rope

Minifor

Portable electric hoists with synthetic rope

The synthetic Minifor TR125 SY has been specially developed for lifting loads during repair operations. With this product, loads can be lifted at high speed with a synthetic rope, without any risks to its operating environment.

BENEFITS

- High performance portable electric hoist
- Constant torque allowing the use of long synthetic ropes without any loss of pulling force
- Portable. Work can be performed horizontally, vertically or at an angle
- Synthetic rope reduces weight compared to chain and steel rope
- Synthetic rope avoids damage to surroundings
- Lifting speed of 15 m/min

FEATURES

- Lifting capacity: 250 lb. (125 kg)
- Aluminium alloy housing
- Adjustable upper and lower ends stop
- Electromagnetic brake
- Available with detachable pendant control
- Optional wireless remote
- Optional sheave block pulley kit to increase lifting capacity
- Available in 115 V (220 V on request)
- Meet CSA and UL requirements



MODEL	DIMENSIONS (L X W X D)	CAPACITY		SPEED		POWER SUPPLY		RATED CURRENT	UNIT WEIGHT*
		DIRECT	SHEAVED	DIRECT	SHEAVED	SINGLE PHASE 115 V	SINGLE PHASE 220 V		
TR125SY	14 x 9 x 17 in. (35.6 x 22.9 x 43.2 cm)	250 lb. (125 kg)	500 lb. (250 kg)	50 fpm (15 m/min)	25 fpm (7.5 m/min)	■	■	9.3 A	46 lb. (20 kg)

*Without synthetic rope

Blocstop

Safety devices for wire rope

The Blocstop is a fall-arrest secondary safety device which is fitted to the wire rope of a Tirfor or Tirak hoist. The Blocstop is particularly well suited to hold or restrain any loads during lifting and pulling applications.

THE BLOCSTOP MAY BE USED...

- Mounted on a secondary wire rope, the Blocstop holds the load safely should there be any defect in the primary suspension wire rope or failure of the lifting device
- Mounted on the suspension or tensioned wire rope, the Blocstop protects the load against failure of the primary lifting/tensioning device
- Mounted on warehouse overhead doors, to securely hold the door open and will also prevent the door from closing too fast when overspeed conditions are detected

AUTOMATIC BLOCSTOP BSO

The Blocstop is a fall-arrest secondary safety device which is fitted to an appropriate wire rope of a Tirak or Tirfor hoist. The overspeed Blocstop is a safety device and is used as a secondary brake, which is recommended for many material handling operations. The BSO model can be mounted either on the main suspension wire rope or on a separate safety wire rope.

SINGLE OR DOUBLE ROPE SUSPENSION AUTOMATIC WITH OVERSPEED BRAKING SYSTEM

	BSO 500 or BS/BSO 500*	BSO 1020 or BS/BSO 1020*	BSO 2050	BSO 3060
Capacity	1,500 lb. (680 kg)	2,200 lb. (1,000 kg)	4,400 lb. (2,000 kg)	6,600 lb. (3,000 kg)
Rope	$\frac{5}{16}$ in. (8.4 mm)	$\frac{3}{8}$ in. (9.5 mm)	$\frac{9}{16}$ in. (14 mm)	$\frac{5}{8}$ in. (16.3 mm)
Weight	10.4 lb. (4.7 kg)	13.2 lb. (6 kg)	30.8 lb. (14 kg)	30.8 lb. (14 kg)

*For double wire rope systems electrical cut-offs are available.
Rated loads shown for material handling only.

HAND-OPERATED BLOCSTOP BS

The hand-operated Blocstop BS is the perfect device to be used to hold or restrain any other loads during lifting and pulling applications.

SINGLE ROPE SUSPENSION – MANUAL

	BS 15.301	BS 20.301	BS 35.30
Capacity	1,500 lb. (680 kg)	3,000 lb. (1,360 kg)	6,000 lb. (2,720 kg)
Rope	$\frac{5}{16}$ in. (8.4 mm)	$\frac{7}{16}$ in. (11.5 mm)	$\frac{5}{8}$ in. (16.3 mm)
Weight	4.4 lb. (2 kg)	7.9 lb. (3.7 kg)	18.1 lb. (8.2 kg)

Safety factor 6:1 when operating under the rated capacity loads
BS15.301 – New York State B.S.A. approval 6563.



SEMI-AUTOMATIC BLOCSTOP BSA

The Blocstop BSA is semi automatic and has a dual rope suspension.

DOUBLE ROPE SUSPENSION – SEMI-AUTOMATIC

	BSA 15.301	BSA 20.301	BSA 35.30
Capacity	1,500 lb. (680 kg)	3,000 lb. (1,360 kg)	6,000 lb. (2,720 kg)
Rope	$\frac{5}{16}$ in. (8.4 mm)	$\frac{7}{16}$ in. (11.5 mm)	$\frac{5}{8}$ in. (16.3 mm)
Weight	8.8 lb. (4 kg)	13.2 lb. (6 kg)	23.1 lb. (10.5 kg)

Safety factor 6:1 when operating under the rated capacity loads
BS15.301 – New York State B.S.A. approval 6563.

Blocmat

Load arresters

The Blocmat load arrester has been designed to secure suspended loads. If the main suspension fails and the load starts to fall, the Blocmat will hold the load in suspension.

BLOCMAT BS TSD

The Blocmat TSD is a retractable load arrester. The length of the wire rope is adjusted automatically by a tensioning and retraction system. The load arrester Blocmat TSD has been designed to secure suspended loads. The 50 ft. (15 m) model is fitted with large handles for lifting and carrying.

MODEL	LENGTH	CAPACITY	WEIGHT
279479	30 ft. (9 m)	550 lb. (250 kg)	13.2 lb. (6 kg)
279489	50 ft. (15 m)	550 lb. (250 kg)	33.1 lb. (15 kg)

BLOCMAT S – SUSPENDED TYPE

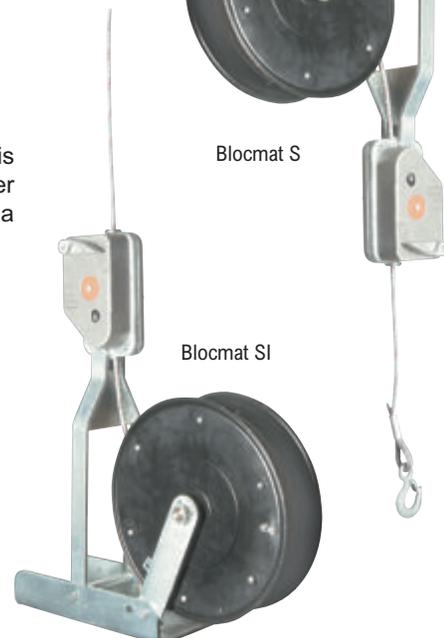
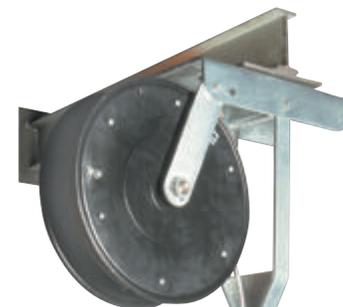
The Blocmat S is a suspended type of material load arrester. It is composed of an automatic fall-arrest device and a rope-reeling drum, both fixed on a rectangular fixing plate.

MODEL	LENGTH	WIRE ROPE	CAPACITY	WEIGHT
47329	50 ft. (15 m)	¼ in. (6.5 mm)	1,100 lb. (500 kg)	63.9 lb. (29 kg)
47349	80 ft. (25 m)	¼ in. (6.5 mm)	1,100 lb. (500 kg)	88.2 lb. (40 kg)
47359	32 ft. (10 m)	⅝ in. (8.4 mm)	1,700 lb. (800 kg)	77.2 lb. (35 kg)
47369	65 ft. (20 m)	⅝ in. (8.4 mm)	1,700 lb. (800 kg)	94.8 lb. (43 kg)
47379	25 ft. (8 m)	¾ in. (9.5 mm)	2,200 lb. (1,000 kg)	77.2 lb. (35 kg)
47389	40 ft. (12 m)	¾ in. (9.5 mm)	2,200 lb. (1,000 kg)	92.6 lb. (42 kg)
75399	80 ft. (25 m)	¾ in. (9.5 mm)	2,200 lb. (1,000 kg)	–

BLOCMAT SI – FLOOR-MOUNTED TYPE

The Blocmat SI has been designed to secure suspended loads. This range shall be fixed in a floor-mounted position and used with an upper return sheave. It is composed of an automatic fall-arrest device and a rope-reeling drum, both fixed on a rectangular fixing plate.

MODEL	LENGTH	WIRE ROPE	CAPACITY	WEIGHT
47269	50 ft. (15 m)	¼ in. (6.5 mm)	1,100 lb. (500 kg)	63.9 lb. (29 kg)
47279	80 ft. (25 m)	¼ in. (6.5 mm)	1,100 lb. (500 kg)	86.0 lb. (39 kg)
47289	50 ft. (15 m)	⅝ in. (8.4 mm)	1,700 lb. (800 kg)	79.4 lb. (36 kg)
47299	80 ft. (25 m)	⅝ in. (8.4 mm)	1,700 lb. (800 kg)	99.2 lb. (45 kg)
47309	32 ft. (10 m)	¾ in. (9.5 mm)	2,200 lb. (1,000 kg)	79.4 lb. (36 kg)
47319	80 ft. (25 m)	¾ in. (9.5 mm)	2,200 lb. (1,000 kg)	103.6 lb. (47 kg)



Maxiflex

Wire rope

Wire rope is an integral component of every hoist and winch supplied by Tractel (except our chain hoists, of course). Selecting the correct wire rope and following a routine maintenance and inspection program will ensure that your hoists operate efficiently for many years.

Using Maxiflex wire rope in all of our manual and powered hoists will ensure the highest level of performance for your equipment. Maxiflex wire rope is specifically developed and constructed for use in Tractel products. Proper selection will ensure the maximum possible wire rope service life. Please contact our engineering department for any questions or assistance in selecting the appropriate wire rope for your Tractel equipment. This is a requirement in situations where the load can spin freely or when reelers are used.



WIRE ROPE SELECTION GUIDE			
PRODUCT LINE SERIES	WIRE ROPE DIAMETER	APPROVED WIRE ROPE CONSTRUCTION	WIRE ROPE BREAKING STRENGTH
Pull-All (J3)	3/16 in. (4.72 mm)	7x7	3,000 lb. (1,360 kg)
Minifor/Super Pull-All (J5)	1/4 in. (6.5 mm)	5x19	6,000 lb. (2,720 kg)
Scafor 408C	5/16 in. (8.4 mm)	5x19* and 6x19	10,000 lb. (4,500 kg)
Tirfor T508D/TU17	5/16 in. (8.4 mm)	4x26, 5x19, 5x26 and 6x17	10,000 lb. (4,500 kg)
Tirfor T516D/TU28	7/16 in. (11.5 mm)	4x26 and 5x26	20,000 lb. (9,000 kg)
Tirfor T532D/TU32	5/8 in. (16.3 mm)	4x36	40,000 lb. (18,000 kg)
Hydraulic Tirfor TU28H	7/16 in. (11.5 mm)	5x26	20,000 lb. (9,000 kg)
Hydraulic Tirfor TU32H	5/8 in. (16.3 mm)	5x31	40,000 lb. (18,000 kg)
Tirak X300/X500/X700² and T1000²	5/16 in. (8.4 mm)	4x26, 5x19*, 5x26 and 6x17 ³	10,000 lb. (4,500 kg)
Tirak L500	5/16 in. (8.4 mm)	5x19* and 5x26	10,000 lb. (4,500 kg)
Tirak X1020² and T1020²	3/8 in. (9.5 mm)	5x19* and 5x26	15,000 lb. (6,800 kg)
Tirak X1030	10.2 mm	5x26	18,500 lb. (8,400 kg)
Tirak X2050/X3050	9/16 in. (14.3 mm)	5x26	35,000 lb. (15,900 kg)

*Best selection for most situations

¹ Minifor TR10 and TR30 previous models used 3/16 in. (4.72 mm).

² Call engineering for applications with reelers or when the load is able to spin.

³ 6x17 is classified as a 6x19 which may have 15-26 wires per strand.

Wire rope reelers

Wire ropes

CARRYING AND STORAGE REELS

MODEL	DESCRIPTION			WEIGHT
	Ø 5/16 in. (8.4 mm)	Ø 7/16 in. (11.5 mm)	Ø 5/8 in. (16 mm)	
889	82 ft. (25 m)	—	—	2 lbs (0.9 kg)
909	164 ft. (50 m)	82 ft. (25 m)	—	2.5 lb. (1.1 kg)
939	246 ft. (75 m)	164 ft. (50 m)	82 ft. (25 m)	4 lb. (1.8 kg)
899	328 ft. (100 m)	262 ft. (80 m)	197 ft. (60 m)	5 lb. (2.3 kg)

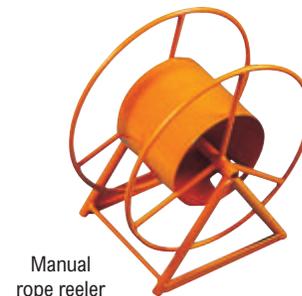
MANUAL ROPE REELER

MODEL	DESCRIPTION	WEIGHT
30158	From 65 to 400 ft. (20 to 120 m) capacity	20 lb. (9 kg)
878	From 145 to 820 ft. (45 to 250 m) capacity	20 lb. (9 kg)
868	From 225 to 1,245 ft. (70 to 380 m) capacity	20 lb. (9 kg)
858	From 325 to 1,770 ft. (100 to 540 m) capacity	20 lb. (9 kg)
30938	From 390 to 2,230 ft. (120 to 680 m) capacity	22 lb. (10 kg)
31788	From 490 to 2,785 ft. (150 to 850 m) capacity	24 lb. (11 kg)

Protect your wire rope investment
Tractel has a variety of wire rope storage devices to suit your requirements, from basic storage reels to self-fed and motorized reelers.



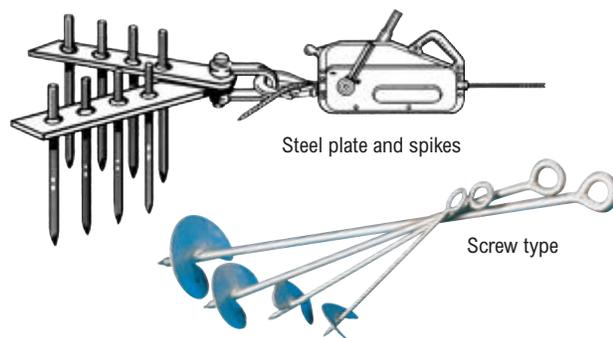
Carrying and storage reel



Manual rope reeler

Ground anchors

Used as an anchorage system for creating a fixed point in the ground for guying pylons and posts, attachment anchors and as a fixed point for pulling or lifting operations.



Steel plate and spikes

Screw type

STEEL PLATES AND SPIKES

MODEL	DESCRIPTION	WEIGHT
3T	2 plates 8 spikes, with shackle, painted	108 lb. (49 kg)
5T	3 plates 12 spikes, with shackle, painted	172 lb. (78 kg)

SCREW TYPE

MODEL	DESCRIPTION	WEIGHT
TAA	For Tirvit and jockey	2.6 lb. (1.2 kg)
TAB	For Tirfor T508 / TU17	6.6 lb. (3 kg)
TAC	For Tirfor T516 / TU28	15.4 lb. (7 kg)
TAD	For Tirfor T532 / TU32	24.3 lb. (11 kg)

Wire grippers



FROG WIRE ROPE GRIPPER

This wire rope gripper with a self-gripping jaw will hold a wire rope at any point along its length to hold a load or to take up the tension while fixing or adjusting the slack end.

- Lightweight aluminium body
- Complete with shackle for anchoring
- Spring operated jaw for automatic gripping
- Breech loading

MODEL	FROG G2	FROG G3	FROG G4
Range of wire rope	$\frac{3}{32}$ – $\frac{5}{16}$ in. (2–8.4 mm)	$\frac{5}{16}$ – $\frac{9}{16}$ in. (8.4–15 mm)	$\frac{9}{16}$ – $1\frac{1}{16}$ in. (14–18 mm)
Capacity	900 lb. (400 kg)	1,325 lb. (600 kg)	1,750 lb. (800 kg)
Breaking load	3,500 lb. (1,600 kg)	4,100 lb. (1,900 kg)	4,400 lb. (2,000 kg)
Weight	0.64 lb. (0.3 kg)	1.25 lb. (0.55 kg)	1.3 lb. (0.6 kg)

EASY-PULL

The Easy-Pull is a cable and wire rope tensioning device which is lightweight, easy to handle and compact. The Easy-Pull is simple to use yet strong. The self-gripping jaws hold the rope:

- For tensioning electric and telephone cables, conductors and long span lines
- For agriculture and forestry, tensioning/netting, stays and fruit support wires, pulling out stakes, uprooting bushes and stirrups, etc.

MODEL	F2-STD	F3-STD	F4-STD
Range of wire rope	$\frac{3}{32}$ – $\frac{5}{16}$ in. (2–8.4 mm)	$\frac{5}{16}$ – $\frac{9}{16}$ in. (8.4–15 mm)	$\frac{9}{16}$ – $1\frac{1}{16}$ in. (14–18 mm)
To and fro travel of lever	2.5 in. (65 mm)	3 in. (75 mm)	3.5 in. (90 mm)
Pulling capacity	900 lb. (400 kg)	1,325 lb. (600 kg)	1,750 lb. (800 kg)
Weight	8.8 lb. (4 kg)	11.5 lb. (5.2 kg)	13.7 lb. (6.2 kg)



CONI-KLAM WIRE ROPE CLAMP

This wire rope clamp can quickly lengthen wire ropes or slings. The wire rope is held by a pair of jaws, which are slightly serrated and which give a positive lock by a self-gripping wedge.

- Manufactured in forged steel
- Breech loading
- Immediate adjustment to the required position
- Does not damage the wire ropes
- High safety factor

MODEL	EC 10	EC 14	EC 21
Range of wire rope	$\frac{3}{16}$ – $\frac{3}{8}$ in. (5–10 mm)	$\frac{7}{16}$ – $\frac{9}{16}$ in. (10.5–14 mm)	$\frac{5}{8}$ – $1\frac{1}{16}$ in. (15–21 mm)
Capacity	2,200 lb. (1,000 kg)	4,400 lb. (2,000 kg)	6,600 lbs (3,000 kg)
Weight without shackle	2.6 lb. (1.2 kg)	5.7 lb. (2.6 kg)	11.9 lb. (5.4 kg)
Weight with shackle	3.5 lb. (1.6 kg)	8.2 lb. (3.7 kg)	16.5 lb. (7.5 kg)



Hooks

1. STANDARD WIRE ROPE HOOK

Used in Maxiflex wire rope assemblies, incorporates spring loaded hook latch.

2. SHIPYARD HOOK

1 and 3 t top and bottom hooks for use in Bravo lever hoist. Includes hook latch.

3. SWIVEL HOOK

General utility hook for wire rope assemblies includes hook latch.

4. SLIDING SLING CHOKER HOOK

Used in wire rope slings.

5. SAFETY HOOK

For use with manual chain hoists provided for positive close when under load.

6. SWIVEL HOOK

Swivel hooks for:

- Dynafor load indicators
- Tirfor hoist
- Includes hook latch



SHEAVE BLOCK

Lightweight and heavy duty this sheave block is used with Maxiflex wire rope to increase lifting or pulling capacity of any Tractel wire rope hoist, including the Tirfor and the Gripwinch. It is also designed to maximize wire rope service life. May be breach loaded.

MODEL	3329	31629
Capacity	6,400 lb. (3,200 kg)	12,800 lb. (6,400 kg)
Diameter	6 in. (150 mm)	8 in. (200 mm)
Wire rope	$\frac{5}{16}$ and $\frac{3}{8}$ in. (8.4 and 9.5 mm)	$\frac{7}{16}$ and $\frac{5}{8}$ in. (11.5 and 16.3 mm)
Unit weight	5.5 lb. (2.5 kg)	15 lb. (6.75 kg)



Bravo

Lever hoists

The Bravo lever hoist is ideal for industrial and building/civil engineering applications. This hoist is designed for pulling, lifting, positioning and adjusting loads in workshops and/or on building sites.

STRONG

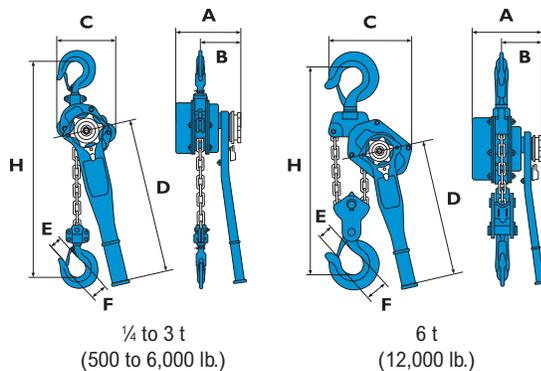
- The hoist and its components are made of high tensile alloy steel
- Excellent weight / capacity / size ratio

SAFE

- Operates in temperatures between -40 and 140°F (-40 and 60°C)
- Capacity of 500 to 12,000 lb. (¼ to 6 t)
- 360° swivel hook with overload opening indicators
- Removable hook with latch marked with capacity of the hoist
- Five sprocket load wheel with closed bearings
- Free wheel safety device activates braking mechanism when load applied in neutral position
- Meets or exceeds ASME B30.21C, *Manually Lever-Operated Hoist* code.

OPTIONS

- Load limiter (except on 500 lb. [¼ t])
- Shipyard hooks (for 3,000 and 6,000 lb. [1½ and 3 t] only)
- Safety hooks



MODEL	¼ t	½ t	¾ t	1½ t	3 t	6 t	
Capacity	500 lb. (250 kg)	1,000 lb. (500 kg)	1,500 lb. (750 kg)	3,000 lb. (1,500 kg)	6,000 lb. (3,000 kg)	12,000 lb. (6,000 kg)	
Standard lift	Lengths available: 5, 10, 15, 20, 30 and 40 ft. (1.5, 3, 4.5, 6, 9 and 12 m)						
Number of falls	1	1	1	1	1	2	
Effort on lever at capacity	57 lb. (26 kg)	79 lb. (36 kg)	44 lb. (20 kg)	46 lb. (21 kg)	73 lb. (33 kg)	75 lb. (34 kg)	
Load chain size	4 x 12 mm	5 x 15 mm	6 x 18 mm	7 x 21 mm	10 x 30 mm	10 x 30 mm	
DIMENSIONS	A	3.6 in. (91 mm)	4.3 in. (110 mm)	5.5 in. (139 mm)	6.9 in. (174 mm)	7.9 in. (200 mm)	7.9 in. (200 mm)
	B	2.8 in. (70 mm)	3.1 in. (80 mm)	3.3 in. (84 mm)	4.0 in. (108 mm)	4.5 in. (115 mm)	4.5 in. (115 mm)
	C	2.8 in. (71 mm)	4.8 in. (122 mm)	6 in. (153 mm)	6.3 in. (160 mm)	7.3 in. (185 mm)	9.1 in. (230 mm)
	D	6.2 in. (157 mm)	9 in. (288 mm)	11.3 in. (288 mm)	16.5 in. (418 mm)	16.5 in. (418 mm)	16.5 in. (418 mm)
	E	0.8 in. (21 mm)	0.9 in. (23 mm)	1 in. (26 mm)	1.2 in. (31 mm)	1.5 in. (39 mm)	1.8 in. (45 mm)
	F	1.1 in. (28 mm)	1.4 in. (35 mm)	1.5 in. (37 mm)	1.8 in. (45 mm)	2.2 in. (55 mm)	2.6 in. (65 mm)
H min.	9.2 in. (233 mm)	12 in. (305 mm)	11.9 in. (303 mm)	14.6 in. (370 mm)	19.7 in. (500 mm)	24.8 in. (630 mm)	
Unit weight with 10 ft. (3 m) lift	4 lb. (2 kg)	11 lb. (5 kg)	15 lb. (7 kg)	24 lb. (11 kg)	44 lb. (20 kg)	66 lb. (30 kg)	

Overload devices are available.

Tralift

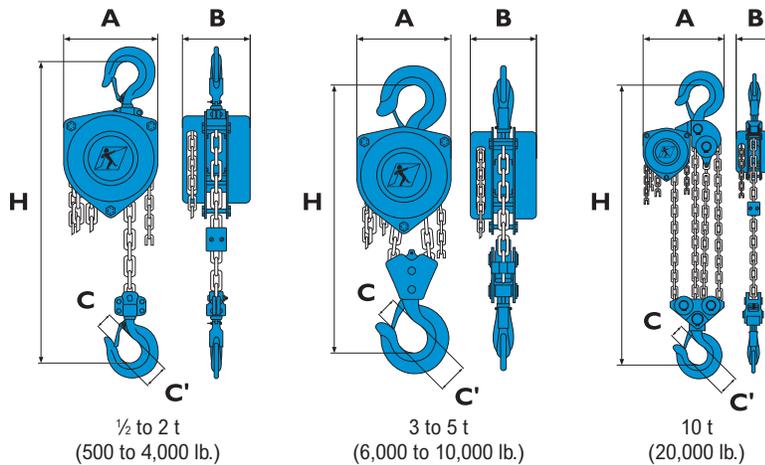
Manual chain hoists

FEATURES

- Operates in temperatures between -40 and 140°F (-40 and 60°C)
- Capacity of 500 to 40,000 lb. (¼ to 20 t)
- 360° swivel hook with overload opening indicators
- Automatic brake with double pawl system
- Tested to 150% of capacity
- Optional load limiter
- Alloy load hook enables user to see if hook is deformed by overload
- Meets or exceeds ASME B30.16, *Overhead Hoist (underhung)* code

OPTIONS

- Load limiter (except on 500 and 2000 lb. [¼ and 1 t])
- Safety hooks



MODEL	¼ t	½ t	1 t	1½ t	2 t	3 t	5 t	10 t	20 t	
Capacity	500 lb. (250 kg)	1,000 lb. (500 kg)	2,000 lb. (1,000 kg)	3,000 lb. (1,500 kg)	4,000 lb. (2,000 kg)	6,000 lb. (3,000 kg)	10,000 lb. (5,000 kg)	20,000 lb. (10,000 kg)	40,000 lb. (20,000 kg)	
Standard lift	Lengths available: 10, 15, 20, 30 and 40 ft.									
Number of falls	1	1	1	1	1	2	2	4	8	
Effort on lever at capacity	24 lb. (11 kg)	46 lb. (21 kg)	75 lb. (34 kg)	84 lb. (38 kg)	88 lb. (40 kg)	92 lb. (42 kg)	99 lb. (45 kg)	101 lb. (47 kg)	110 lb. (50 kg)	
Load chain size	4 x 12 mm	5 x 15 mm	6 x 18 mm	8 x 24 mm	8 x 24 mm	8 x 24 mm	10 x 30 mm	10 x 30 mm	10 x 30 mm	
Hand chain size	5 x 24 mm	5 x 24 mm	5 x 24 mm	5 x 24 mm	5 x 24 mm	5 x 24 mm	5 x 24 mm	5 x 24 mm	5 x 24 mm	
DIMENSIONS	A	3.9 in. (100 mm)	5.2 in. (132 mm)	6.1 in. (156 mm)	7.7 in. (196 mm)	6.1 in. (156 mm)	7.7 in. (196 mm)	9 in. (229 mm)	15.6 in. (395 mm)	25.3 in. (642 mm)
	B	4.5 in. (110 mm)	4.4 in. (112 mm)	5.3 in. (134 mm)	5.9 in. (150 mm)	5.3 in. (134 mm)	6.7 in. (171 mm)	6.7 in. (171 mm)	6.7 in. (171 mm)	7.9 in. (200 mm)
	C	0.7 in. (18 mm)	0.9 in. (23 mm)	1.1 in. (27 mm)	1.2 in. (31 mm)	1.4 in. (35 mm)	1.5 in. (38 mm)	1.8 in. (45 mm)	2.2 in. (57 mm)	3 in. (75 mm)
	H	9.1 in. (230 mm)	13.4 in. (340 mm)	15.4 in. (390 mm)	18.5 in. (470 mm)	20.9 in. (530 mm)	24.8 in. (630 mm)	28.7 in. (730 mm)	36.2 in. (920 mm)	41.3 in. (1,050 mm)
Unit weight with 10 ft. (3 m) lift	7.1 lb. (3.2 kg)	18.7 lb. (8.5 kg)	26.5 lb. (12 kg)	39.7 lb. (18 kg)	44.1 lb. (20 kg)	57.3 lb. (26 kg)	90.4 lb. (41 kg)	176.4 lb. (80 kg)	366 lb. (166 kg)	
Weight for each add. 5 ft. (1.5 m) of chain	—	5.5 lb. (2.5 kg)	6.3 lb. (2.8 kg)	8.3 lb. (3.8 kg)	9.2 lb. (4.2 kg)	13.7 lb. (6.2 kg)	19.3 lb. (8.8 kg)	35.6 lb. (16.2 kg)	71 lb. (32.3 kg)	

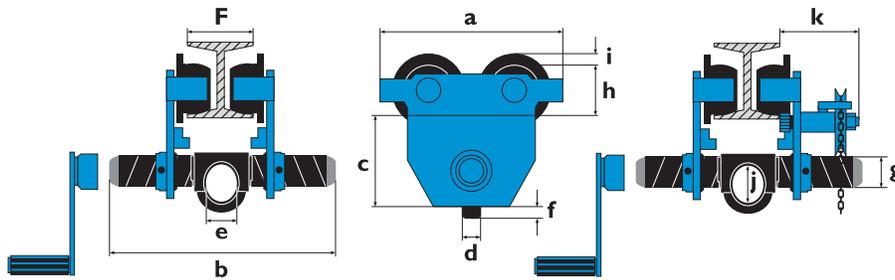
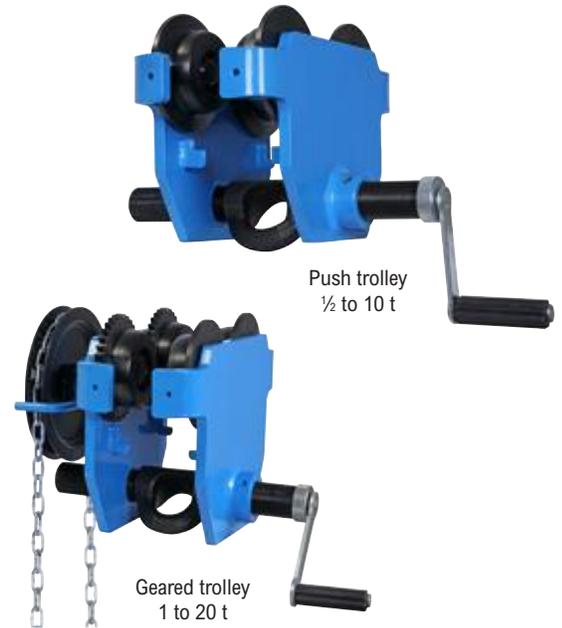
Overload devices are available.

Corso

Traveling trolleys

FEATURES

- Capacity from 1,000 to 40,000 lb. (½ to 20 t)
- Over-dimensioned flanges
- Wide-adjustment range
- Designed to minimize overhead loss
- Steel rollers mounted on bearings
- Double-threaded traverse bar with closed suspension eye (½ to 10 t push trolley and 1 to 20 t chain operated)
- Blocking of traverse bar, after adjustment by BTR screw
- Steel end stops shaped to serve as anti-derail bars
- Very low headroom
- Quick and easy assembly and adjustment with the removable handle (supplied as standard)
- Extended hanger bars available for wide flange—up to 11.8 in. (30 cm)



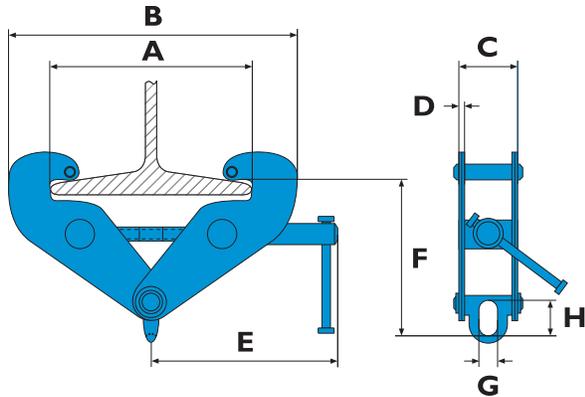
CAPACITY	- F - BEAM WIDTH		RADIUS OF CURVE ft. (m)	EFFORT ON CHAIN AT CAPACITY lb.	DIMENSIONS in. (mm)											WEIGHT lb. (kg)	
	(STD) in. (mm)	(SPECIAL) in. (mm)			a	b	c	d	e	f	g	ø h	i	j	k	PUSH	GEAR
½ t	2-8.7 (50-220)	8.7-11.8 (220-300)	3 (0.9)	-	8.9 (225)	12.8 (324)	3.5 (88)	0.6 (16)	1 (25)	0.6 (16)	1.1 (27)	2.1 (53)	0.4 (11)	1.2 (30)	-	18.7 (8.5)	-
1 t	2.3-8.7 (58-220)	8.7-11.8 (220-300)	3.3 (1)	12	9.9 (252)	13.2 (334)	4 (103)	0.7 (17)	1.2 (30)	0.7 (17)	1.2 (30)	2.4 (62)	0.6 (15)	1.4 (35)	3.9 (100)	22 (10)	42 (19)
2 t	3-8.7 (66-220)	8.7-11.8 (220-300)	3.9 (1.2)	22	11.8 (300)	13.5 (342)	5 (103)	0.8 (21)	1.6 (40)	0.7 (18)	1.5 (38)	3.2 (80)	0.7 (18)	1.8 (45)	4.7 (120)	40 (18)	50 (22.5)
3 t	2.9-8.7 (74-220)	8.7-11.8 (220-300)	4.2 (1.3)	16.5	14.2 (360)	14.1 (358)	7 (177)	0.8 (21)	1.9 (48)	0.7 (18)	1.8 (45)	3.8 (97)	0.6 (15)	2.2 (55)	5.3 (135)	71 (32)	83 (37.5)
5 t	3.5-8.7 (90-220)	8.7-11.8 (220-300)	4.6 (1.4)	26.5	15.8 (400)	14.7 (372)	7.6 (192)	1.2 (31)	2.5 (58)	0.8 (20)	2.1 (52)	4.3 (110)	0.8 (20)	2.6 (65)	5.7 (145)	107 (48.5)	121 (55)
10 t	5.6-12.6 (142-320)	-	8.2 (2.5)	-	18.5 (470)	16 (405)	12.8 (326)	1 (25)	3.1 (80)	-	-	5.9 (150)	0.59 (15)	-	6.7 (170)	220 (100)	220 (100)
20 t	6-12.6 (153-320)	-	16.4 (5)	-	39 (995)	16 (405)	12.8 (326)	1.4 (36)	4.3 (110)	-	-	5.9 (150)	0.59 (15)	-	6.7 (170)	-	463 (210)

Corso

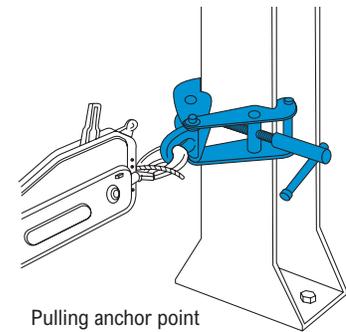
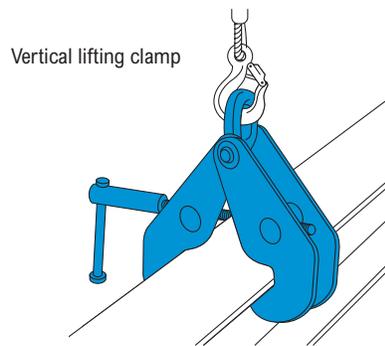
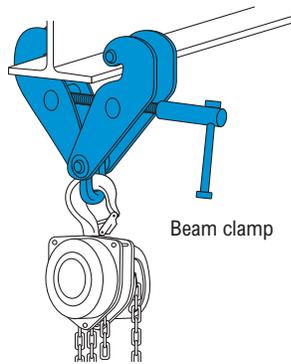
Beam clamps

CORSO BEAM CLAMPS FOR MANUAL AND ELECTRIC HOISTS, ANCHOR POINTS OR LIFTING CLAMPS

- Capacity from 1 to 10 t
- Range of five models
- Compact and sturdy construction
- Simple and fast adjustment on "I" beam



EXAMPLES OF APPLICATIONS



MODEL	CAPACITY	BEAM WIDTH in. (mm)	DIMENSIONS in. (mm)										WEIGHT lb. (kg)
			A MAX.	B MIN.	B MAX.	C	D	E MIN.	F MIN.	F MAX.	G	H	
LT 1B	1 t	3-9 (75-230)	10.6 (270)	7.1 (180)	15 (380)	3 (76)	0.2 (4)	8.3 (210)	4.7 (120)	6.9 (175)	1.2 (30)	1.8 (45)	10.6 (4.8)
LT 2B	2 t	3-9 (75-230)	10.6 (270)	7.2 (182)	15 (380)	3.3 (84)	0.2 (6)	8.3 (210)	5.1 (130)	7 (178)	1.2 (30)	1.6 (40)	12.3 (5.6)
LT 3B	3 t	3.1-13 (80-330)	14.2 (360)	9.3 (235)	19.3 (490)	4.5 (115)	0.3 (8)	10.8 (275)	6.9 (175)	9.8 (250)	1.8 (45)	2.4 (60)	24 (11)
LT 5B	5 t	3.1-13 (80-330)	13.9 (354)	10 (253)	19.3 (490)	5.4 (138)	0.4 (10)	9.6 (245)	5.5 (140)	8.7 (220)	1.8 (45)	2.4 (60)	27.1 (12.3)
LT 10B	10 t	3.1-12.6 (80-320)	12.6 (320)	10 (255)	22.8 (580)	6.3 (160)	0.5 (12)	10.8 (275)	9.8 (250)	11.8 (300)	2.4 (60)	3.5 (90)	46.3 (21)

Pakrol

Skates and trolleys skates

The Pakrol heavy equipment dollies range has been designed to handle and move heavy and rigid loads manually on a flat floor.

BENEFITS

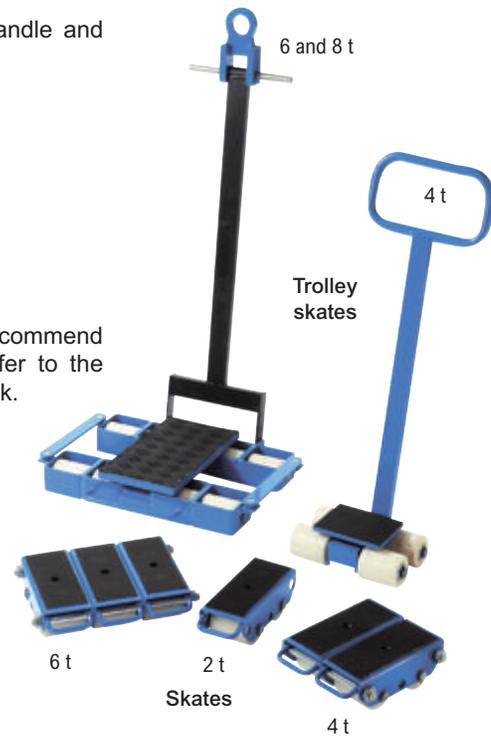
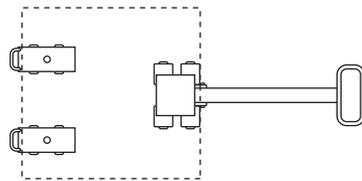
- Rugged frame
- Minimum maintenance
- Nylon or polyurethane wheels with ball bearing
- Handle for transport
- Trolley skate load plate with thrust bearings

DESCRIPTION

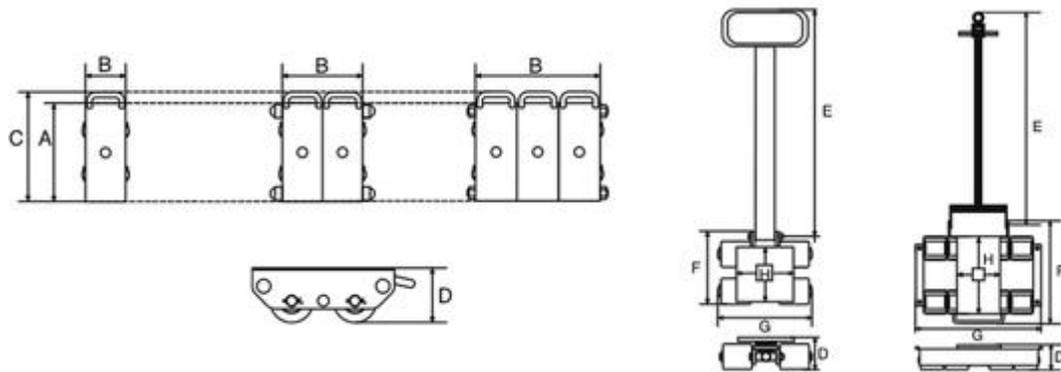
To offer the best stability of the load and make its guiding easier, we recommend to share the load surface on two skates and one trolley skate (refer to the undermentioned sketch) for use with top rack jack and Hydrofor toe jack.

CONFIGURATIONS

TOTAL LOAD	TROLLEY SKATE	SKATE
8 t	4 t	+ 2 x 2 t
12 t	4 t	+ 2 x 4 t
14 t	6 t	+ 2 x 4 t
18 t	6 t	+ 2 x 6 t
20 t	8 t	+ 2 x 6 t



MODEL	SKATE 2 t	SKATE 4 t	SKATE 6 t	TROLLEY SKATE 4 t	TROLLEY SKATE 6 AND 8 t
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Operating temperature range

14 to 86°F (-10 to 30°C)

DIMENSIONS	A	10.6 in. (270 mm)	10.6 in. (270 mm)	10.6 in. (270 mm)	–	–
	B	4.2 in. (106 mm)	9.1 in. (232 mm)	13.7 in. (348 mm)	–	–
	C	12.1 in. (308 mm)	12.1 in. (308 mm)	12.1 in. (308 mm)	–	–
	D	4.3 in. (110 mm)	4.3 in. (110 mm)			
	E	–	–	–	37 in. (940 mm)	47.2 in. (1,200 mm)
	F	–	–	–	9 in. (230 mm)	20.9 in. (530 mm)
	G	–	–	–	11.7 in. (297 mm)	25.2 in. (640 mm)
	H	–	–	–	5.7 x 7.1 in. (145 x 180 mm)	15.7 x 8.7 in. (400 x 220 mm)
Weight	11 lb. (5 kg)	24 lb. (24 kg)	55 lb. (25 kg)	31 lb. (14 kg)	110 lb. (50 kg)	

Top

Rack jacks

The Top rack jack is operated by a crank handle. Lifting is controlled by a crank operating through a ratchet wheel with a double retaining catch, giving the jack additional safety. Lowering is by a locked ratchet, holding the load by friction discs.

BENEFITS

- Heavy-duty construction
- Can operate in limited space
- Full capacity can be applied to head or toe
- The gear wheels, the pinions and the rack are made of heat treated steel
- The two-wheel ratchet mechanism located in the crank continuously supports the load
- The folding handle of the crank reduces the overall dimension of the jack during transport

MODEL	CAPACITY ON HEAD AND TOE	LIFT	EFFORT ON HANDLE	WEIGHT
BT 1.5	1.5 t	11.8 in. (300 mm)	66 lb. (30 kg)	39.7 lb. (18 kg)
BT 3	3 t	14 in. (355 mm)	77 lb. (35 kg)	44.1 lb. (20 kg)
BT 5	5 t	13.6 in. (345 mm)	88 lb. (40 kg)	61.7 lb. (28 kg)
BT 10	10 t	15.3 in. (390 mm)	123 lb. (56 kg)	101.4 lb. (46 kg)



Hydrofor

Hydraulic jack

The Hydrofor jack is a manually operated single block hydraulic ram with a protecting lifting toe. Operating the lever will lift the load when the release button is closed. By smoothly turning this button counterclockwise the load will be controlled downward. The same load can be handled either by the toe or by the jack head.

BENEFITS

- Versatile operation for various applications, even horizontally
- Full lifting capacity on toe or head for efficient high and low lifts
- Pressure limit device prevents overload for safe operation
- Screw release valve for easy and controlled lowering
- 360° swivel for ease of positioning
- High quality hydraulics for heavy duty operation
- Robust construction with a single block steel body



MODEL	TRAVEL OF RAM	TRAVEL OF TOE	TRAVEL OF HEAD	EFFORT ON LEVER	WEIGHT
5 t	8.1 in. (205 mm)	1–9.1 in. (25–230 mm)	14.5–22.6 in. (368–573 mm)	85.4 lb. (380 N)	40 lb. (18 kg)
10 t	9.1 in. (230 mm)	1.2–10.2 in. (30–260 mm)	16.5–25.6 in. (420–650 mm)	89.9 lb. (400 N)	84 lb. (38 kg)
25 t	8.5 in. (215 mm)	2.3–10.7 in. (58–273 mm)	19.9–28.3 in. (505–720 mm)	89.9 lb. (400 N)	235 lb. (107 kg)

Pioneer

Manual pallet truck

FEATURES

- The steering wheels and fork rollers have a polyurethane tread giving a good load capacity and requiring minimum effort to move
- The hydraulic pump control lever has three positions (lift, neutral and lower) and is well protected inside the rounded handle of the steering column which automatically returns to vertical when released
- Mechanical stop to protect the pump from overloading
- The complete frame is protected by a double coating of acrylic paint applied after sand blast treatment

BENEFITS

- Polyurethane steering wheel and rollers for long life and load support
- Three position pump control lever (lift, neutral, lower)
- Pump has over load protection by means of mechanical overtravel limit
- Grease fitting on axles
- Auto return of drag bar handle
- Auto return of control lever to load holding position



MODEL	CAPACITY	MINIMUM HEIGHT OF LIFT	MAXIMUM HEIGHT OF LIFT	FORK LENGTH	OVERALL WIDTH	STEERING WHEELS DIAMETER	FORK ROLLERS DIAMETER	WEIGHT
Pioneer	5,500 lb. (2,500 kg)	2 $\frac{7}{8}$ in. (73 mm)	7 $\frac{3}{4}$ in. (197 mm)	48 in. (1,220 mm)	27 in. (685 mm)	7 in. (178 mm)	2 $\frac{1}{2}$ in. (64 mm)	186 lb. (85 kg)
Pioneer XL	3,300 lb. (1,500 kg)	2 $\frac{7}{8}$ in. (73 mm)	7 $\frac{3}{4}$ in. (197 mm)	96 in. (2,438 mm)	27 in. (685 mm)	7 in. (178 mm)	3 $\frac{1}{2}$ in. (89 mm)	325 lb. (148 kg)

Topal

Lifting clamps

TOPAL KT – PLATE CLAMP WITH RING

Clamp for lifting in all positions and handling of unit loads of steel (plates, sections, welded-plated assemblies, structural steel...) designed for lifting and tilting, vertical to horizontal. These clamps are fitted with a safety spring mechanism ensuring permanent contact of the cam against the piece to be lifted, even when it is laid down. Reliable design, load fully secured and easy to use.

- Vertical or horizontal lifting
- Safety spring mechanism

MODEL	CAPACITY	OPENING	WEIGHT
KT05 0-15	1,100 lb. (500 kg)	0– $\frac{9}{16}$ in. (0–15 mm)	4.4 lb. (2 kg)
KT1 0-20	2,200 lb. (1,000 kg)	0– $\frac{3}{4}$ in. (0–20 mm)	9.9 lb. (4.5 kg)



TOPAL KS – MULTIPOSITION PLATE CLAMPS

A clamp range combining simplicity and flexibility, designed for lifting and revolving of plates, profiles, fabricated assemblies and steel frames during daily use.

- Lifting and revolving load with one clamp
- Clamping is secured by a stainless steel spring mechanism
- The chain sling gives easy manipulation and positioning of the load
- Flexible clamping range fully usable without presetting
- Large oval suspension lifting ring
- Lift from horizontal to vertical and back (90°), or lift from horizontal through vertical (180°)
- 'Bites' only on one side of work
- For steel plates up to 300 HB (Brinell hardness)

MODEL	CAPACITY	OPENING	WEIGHT
KS075 0-15	1,650 lb. (750 kg)	0– $\frac{9}{16}$ in. (0–15 mm)	3.5 lb. (1.6 kg)
KS1 0-20	2,200 lb. (1,000 kg)	0– $\frac{3}{4}$ in. (0–20 mm)	7.7 lb. (3.5 kg)
KS2 0-25	4,400 lb. (2,000 kg)	0–1 in. (0–25 mm)	13.9 lb. (6.3 kg)
KS3 0-30	6,600 lb. (3,000 kg)	0–1 $\frac{1}{8}$ in. (0–30 mm)	26.6 lb. (12.1 kg)



Topal

Lifting clamps

TOPAL NK – MULTIPOSITION SELF-LOCKING CLAMP

The NK clamp has an automatic locking mechanism when the plate is correctly positioned at the back of the clamp's jaw.

- A clamp specifically for arduous working conditions
- Well adapted for heavy and abrasive loads
- Lever and clamping jaw protected from impact and wear
- Built with high strength materials
- The locking lever does not stick out so clamp may be used on the bare ground
- Permanently attached chain sling with a large oval suspension ring
- Lifting and revolving load with one clamp
- For steel plates up to 330 HB (Brinell hardness)

MODEL	CAPACITY	OPENING	WEIGHT
NK1 0-20	3,300 lb. (1,500 kg)	0– $\frac{3}{4}$ in. (0–20 mm)	8.8 lb. (4 kg)
NK1 20-40	3,300 lb. (1,500 kg)	$\frac{7}{8}$ –1 $\frac{1}{2}$ in. (20–40 mm)	13.2 lb. (6 kg)
NK1 40-60	3,300 lb. (1,500 kg)	1 $\frac{1}{8}$ –2 $\frac{5}{16}$ in. (40–60 mm)	13.2 lb. (6 kg)
NK2 0-30	6,600 lb. (3,000 kg)	0–1 $\frac{1}{8}$ in. (0–30 mm)	28.6 lb. (13 kg)
NK2 30-60	6,600 lb. (3,000 kg)	1 $\frac{1}{8}$ –2 $\frac{5}{16}$ in. (30–60 mm)	33.0 lb. (15 kg)
NK2 60-90	6,600 lb. (3,000 kg)	2 $\frac{3}{8}$ –3 $\frac{1}{2}$ in. (60–90 mm)	37.4 lb. (17 kg)
NK3 0-40	9,900 lb. (4,500 kg)	0–1 $\frac{1}{2}$ in. (0–40 mm)	55.0 lb. (25 kg)
NK3 40-80	9,900 lb. (4,500 kg)	1 $\frac{1}{8}$ –3 in. (40–80 mm)	57.2 lb. (26 kg)
NK3 80-120	9,900 lb. (4,500 kg)	3 $\frac{3}{8}$ –4 $\frac{5}{8}$ in. (80–120 mm)	59.4 lb. (27 kg)
NK5 0-50	16,500 lb. (7,500 kg)	0–2 in. (0–50 mm)	92.6 lb. (42 kg)
NK5 50-100	16,500 lb. (7,500 kg)	2–4 in. (50–100 mm)	110.0 lb. (50 kg)
NK5 100-150	16,500 lb. (7,500 kg)	4–5 $\frac{5}{8}$ in. (100–150 mm)	132.0 lb. (60 kg)



Topal

Lifting clamps

TOPAL NX/NXR – NON-MARRING MULTIPOSITION CLAMP

Self-locking plate clamps for very hard or sensitive loads, the NX is designed for lifting and revolving without marring of smooth or polished pieces such as stainless steel plates, aluminium, pre-lacquered plates, wood, laminated sheets, marble, concrete, glass, plastic or any other fragile surface.

- A clamp for all situations, with no risk of damaging load
- For any rigid load up to 3,300 lb. (1,500 kg) and 5½ in. (140 mm) in thickness
- Permanently attached chain sling with a large oval suspension ring
- Non-marring Polyurethane coated jaws
- Automatic clamping (manual clamping recommended for fragile materials)

MODEL	CAPACITY	OPENING	WEIGHT
NX05 0-20	1,100 lb. (500 kg)	0 – 1 ³ / ₁₆ in. (0 – 20 mm)	9.9 lb. (4.5 kg)
NX1.5 0-30	3,300 lb. (1,500 kg)	0 – 1½ in. (0 – 30 mm)	24 lb. (11 kg)
With adjustable clamp settings			
NXR05 0-100	1,100 lb. (500 kg)	0 – 3 ¹⁵ / ₁₆ in. (0 – 100 mm)	13.2 lb. (6 kg)
NXR05 20-120	1,100 lb. (500 kg)	1 ³ / ₁₆ – 4¼ in. (20 – 120 mm)	12.8 lb. (5.8 kg)
NXR05 40-140	1,100 lb. (500 kg)	1 ⁹ / ₁₆ – 5½ in. (40 – 140 mm)	13.2 lb. (6 kg)



Topal

Pipe hook

TOPAL F – PIPE HOOK

Heavy duty hooks used in pairs for lifting horizontal pipes or tubes made of various materials.

- Easy to use
- Large range of capacities up to 33,000 lb. (15,000 kg)
- Grade 80 or better chain slings are not included
- Standard model or with PVC protection available

MODEL	CAPACITY*	CHAIN Ø	MAX. OPENING	WEIGHT*
F2 0-60	4,400 lb. (2,000 kg)	5/16 in. (8.4 mm)	2½ in. (60 mm)	8.8 lb. (4 kg)
F5 0-75	11,000 lb. (5,000 kg)	½ in. (13 mm)	3 in. (75 mm)	24.2 lb. (11 kg)
F7.5 0-100	16,500 lb. (7,500 kg)	5/8 in. (16 mm)	4 in. (100 mm)	33.1 lb. (15 kg)
F10 0-100	22,000 lb. (10,000 kg)	5/8 in. (16 mm)	4 in. (100 mm)	52.8 lb. (24 kg)
F15 0-100	33,000 lb. (15,000 kg)	7/8 in. (20 mm)	4 in. (100 mm)	88 lb. (40 kg)

*When used as a pair.



Topal

Lifting clamps

TOPAL TLH – HORIZONTAL PLATE CLAMP

The TLH is a horizontal lifting clamp that automatically adjusts to the load thickness by a pivoting actuator that secures every load by the lifting action of the clamp.

- Designed to be used in multiples of 2, 3 or 4 clamps according to load, sizing and shape
- Loads up to 5 $\frac{1}{8}$ in. (150 mm) in thickness, including stacked plates
- Grade 80 or higher chain slings are not included

MODEL	CAPACITY*	OPENING	WEIGHT*
TLH1 0-60	2,200 lb. (1,000 kg)	0-2 $\frac{3}{8}$ in. (0-60 mm)	13.2 lb. (6 kg)
TLH1 0-120	2,200 lb. (1,000 kg)	0-4 $\frac{3}{8}$ in. (0-120 mm)	22 lb. (10 kg)
TLH2 0-60	4,400 lb. (2,000 kg)	0-2 $\frac{3}{8}$ in. (0-60 mm)	22 lb. (10 kg)
TLH2 0-120	4,400 lb. (2,000 kg)	0-4 $\frac{3}{8}$ in. (0-120 mm)	35.3 lb. (16 kg)
TLH3 0-60	6,600 lb. (3,000 kg)	0-2 $\frac{3}{8}$ in. (0-60 mm)	26.5 lb. (12 kg)
TLH3 0-150	6,600 lb. (3,000 kg)	0-5 $\frac{1}{8}$ in. (0-150 mm)	58.4 lb. (26.5 kg)
TLH4 0-60	8,800 lb. (4,000 kg)	0-2 $\frac{3}{8}$ in. (0-60 mm)	35.2 lb. (16 kg)
TLH4 0-150	8,800 lb. (4,000 kg)	0-5 $\frac{1}{8}$ in. (0-150 mm)	75 lb. (34 kg)
TLH5 0-60	11,000 lb. (5,000 kg)	0-2 $\frac{3}{8}$ in. (0-60 mm)	44.0 lb. (20 kg)
TLH5 0-150	11,000 lb. (5,000 kg)	0-5 $\frac{1}{8}$ in. (0-150 mm)	92.6 lb. (42 kg)
TLH10 0-60	22,000 lb. (10,000 kg)	0-2 $\frac{3}{8}$ in. (0-60 mm)	70 lb. (32 kg)
TLH10 0-150	22,000 lb. (10,000 kg)	0-5 $\frac{1}{8}$ in. (0-150 mm)	136 lb. (62 kg)

*When used as a pair.



TOPAL VDL – CLAMP FOR LIFTING STEEL DRUMS WITH RIM

The VDL clamp is composed of a two-leg sling fitted with an oval suspension ring and two clamps which are equipped with a rim-pinching system.

- A unique clamp to lift and handle all sized steel drum (with rim)
- Clamp the drum in a horizontal or vertical position
- Capacity up to 2,200 lb. (1,000 kg)

MODEL	CAPACITY	DRUM Ø (MIN./MAX)	WEIGHT
VDL-1	2,200 lb. (1,000 kg)	6-3 $\frac{1}{2}$ in. (150-950 mm)	7.7 lb. (3.5 kg)



Topal

Lifting blocks

TOTAL EP – BLOCKS FOR MAN-RIDING APPLICATIONS

The EP can be used for both material lifting and man-riding with the same maximum capacity.

- Finger protection system
- Limit stop
- The particular geometry of the limit stop, developed by Tractel, allows a simple and quick insertion of the wire rope without tools.
- The lightened flanges and the polyamide sheave make it light and easy to install.
- The EP pulleys are compatible with our Tirfor and Tirak winch ranges for both material and man-riding applications.
- These pulleys are mainly designed for temporary cable lifting or pulling applications, when quick installation and/or removal of the pulley is necessary.
- They can be fixed to a mobile or fixed anchorage point having the required capacity.
- Meets ANSI, OSHA standards

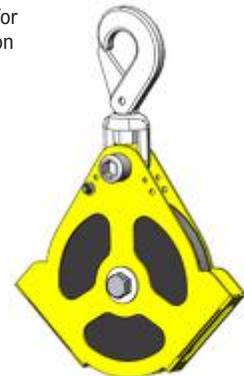
MODEL	CAPACITY	SHEAVE Ø	WIRE ROPE Ø	WEIGHT
EPA1.6-8/9	3,520 lb. (1,600 kg)	6 $\frac{5}{8}$ –7 $\frac{3}{4}$ in. (171–198 mm)	$\frac{5}{16}$ – $1\frac{1}{32}$ in. (8–9 mm)	5.7 lb. (2.6 kg)
EPA2.4-10/12	5,280 lb. (2,400 kg)	7 $\frac{7}{8}$ –8 $\frac{1}{8}$ in. (196–228.5 mm)	$\frac{3}{8}$ – $\frac{7}{16}$ in. (10–11.5 mm)	10.9 lb. (4.9 kg)
EPA4.8-14/16	10,560 lb. (4,800 kg)	10 $\frac{7}{8}$ –12 $\frac{5}{8}$ in. (277.5–323.5 mm)	$\frac{1}{2}$ – $\frac{5}{8}$ in. (14–16.3 mm)	25.8 lb. (11.7 kg)
EPC1.6-8-9	3,520 lb. (1,600 kg)	6 $\frac{5}{8}$ –7 $\frac{3}{4}$ in. (171–198 mm)	$\frac{5}{16}$ – $1\frac{1}{32}$ in. (8–9 mm)	7.5 lb. (3.4 kg)
EPC2.4-10/12	5,280 lb. (2,400 kg)	7 $\frac{7}{8}$ –8 $\frac{1}{8}$ in. (196–228.5 mm)	$\frac{3}{8}$ – $\frac{7}{16}$ in. (10–11.5 mm)	13.9 lb. (6.3 kg)
EPC4.8-14/16	10,560 lb. (4,800 kg)	10 $\frac{7}{8}$ –12 $\frac{5}{8}$ in. (277.5–323.5 mm)	$\frac{1}{2}$ – $\frac{5}{8}$ in. (14–16.3 mm)	31.5 lb. (14.3 kg)
EPE1.6-8/9	3,520 lb. (1,600 kg)	6 $\frac{5}{8}$ –7 $\frac{3}{4}$ in. (171–198 mm)	$\frac{5}{16}$ – $1\frac{1}{32}$ in. (8–9 mm)	7.5 lb. (3.4 kg)
EPE2.4-10/12	5,280 lb. (2,400 kg)	7 $\frac{7}{8}$ –8 $\frac{1}{8}$ in. (196–228.5 mm)	$\frac{3}{8}$ – $\frac{7}{16}$ in. (10–11.5 mm)	13.9 lb. (6.3 kg)
EPE4.8-14/16	10,560 lb. (4,800 kg)	10 $\frac{7}{8}$ –12 $\frac{5}{8}$ in. (277.5–323.5 mm)	$\frac{1}{2}$ – $\frac{5}{8}$ in. (14–16.3 mm)	31.5 lb. (14.3 kg)
EPF1.6-8/9	3,520 lb. (1,600 kg)	6 $\frac{5}{8}$ –7 $\frac{3}{4}$ in. (171–198 mm)	$\frac{5}{16}$ – $1\frac{1}{32}$ in. (8–9 mm)	7.1 lb. (3.2 kg)
EPF2.4-10/12	5,280 lb. (2,400 kg)	7 $\frac{7}{8}$ –8 $\frac{1}{8}$ in. (196–228.5 mm)	$\frac{3}{8}$ – $\frac{7}{16}$ in. (10–11.5 mm)	12.8 lb. (5.8 kg)
EPF4.8-14/16	10,560 lb. (4,800 kg)	10 $\frac{7}{8}$ –12 $\frac{5}{8}$ in. (277.5–323.5 mm)	$\frac{1}{2}$ – $\frac{5}{8}$ in. (14–16.3 mm)	30 lb. (13.6 kg)
EPL1.6-8/9	3,520 lb. (1,600 kg)	6 $\frac{5}{8}$ –7 $\frac{3}{4}$ in. (171–198 mm)	$\frac{5}{16}$ – $1\frac{1}{32}$ in. (8–9 mm)	7.1 lb. (3.2 kg)
EPL2.4-10/12	5,280 lb. (2,400 kg)	7 $\frac{7}{8}$ –8 $\frac{1}{8}$ in. (196–228.5 mm)	$\frac{3}{8}$ – $\frac{7}{16}$ in. (10–11.5 mm)	13 lb. (5.9 kg)
EPL4.8-14/16	10,560 lb. (4,800 kg)	10 $\frac{7}{8}$ –12 $\frac{5}{8}$ in. (277.5–323.5 mm)	$\frac{1}{2}$ – $\frac{5}{8}$ in. (14–16.3 mm)	30 lb. (13.6 kg)

ACCESSORIES FOR TOTAL EP

MODEL	DESCRIPTION	WEIGHT
EP-MCP	Option remote installation	–
EPBFC	Option limit detection stop	–



EPA model with an axis for reduced space installation



EPC model with a swivel hook



EPE model with a fixed hook with safety latch



EPF model with a swivel hook with safety latch



EPL model with a fixed hook with safety latch

Pal-Turn

Load turners

The Pal-Turn load turner line is designed to rotate heavy and/or bulky loads while maintaining a safe working environment.

The Pal-Turn tube is controlled by a central gear-driven motor which rotates a heavy duty carrying bar with two pulleys at each end that rotate the load safely.

The Pal-Turn mono pulley is designed to be used wherever two lifting points are needed and larger loads needs to be rotated in synchronization.

BENEFITS

- No load sliding or dropping risk
- No marking or damage to the load
- Productivity savings in time and people required
- Efficient: one machine for several operations
- Requires little maintenance

USES

- Quality control
- Machining and assembling
- Final finishing
- Material transport
- Equipment maintenance

APPLICATIONS

- Foundries
- Factories
- Civil engineering and construction
- Shipyards and docks
- Packing facilities
- Service and maintenance

The Pal-Turn load turner line is custom-made for individual applications. Please contact Tractel's customer service for more information.



Pal-Turn tube



Pal-Turn mono pulley

	1 lifting point	Multiple lifting points
	PAL-TURN TUBE	PAL-TURN MONO PULLEY
Capacity	0.5, 1, 2, 5, 10, 20 t	2, 5, 10, 20 t
Load length	40 to 590 in. (1 to 15 m) depending on rigidity of load	Depends on the number of mono pulleys, means of lifting and rigidity of load
Standard	<ul style="list-style-type: none"> ■ Remote control with cable ■ Single-speed traction system ■ Lifting speed 98 fpm (30 m/min) 	
Options	<ul style="list-style-type: none"> ■ Chain pulleys for high-temperature loads (>176°F [80°C]) ■ Independent battery-operated model ■ Radio remote with or without infrared validation ■ Dual-speed traction system ■ Frequency dimmer ■ Additional lifting points, retractable lower hook ■ Chains or webbing straps: open or endless, adjusted to the load, with PU protection on one or both sides. ■ Protection of IP 55 or more <p>Options for Pal-Turn tube ONLY</p> <ul style="list-style-type: none"> ■ Stationary or adjustable pulley distance ■ Load tilting signal (light and/or sound) ■ Storage and handling rack 	

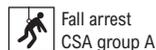
HEIGHT SAFETY

HEIGHT SAFETY EQUIPMENT	p. 38
RESCUE DEVICES	p. 64
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HORIZONTAL LIFELINE SYSTEMS	p. 76
ANCHORAGE AND SAFETY LADDER SYSTEMS	p. 83
COLLECTIVE PROTECTION	p. 86

Harnesses

At a glance

SERIES	MODEL	DORSAL D-RING	SIDE POS. D-RING	STERNAL D-RING	FRONTAL D-RING(S)	SHOULDER D-RING	PASS THROUGH LEGS	TONGUE AND BUCKLE LEGS	QUICK-CONNECT LEGS	SHOULDER/TRACX PAD(S)	LEG PADS	BELT	ELASTICITY (ELASPAC)	APPLICATIONS	PAGE
PROFESSIONAL SERIES															
Tower TracX	FTD13_	■	■	■	-	-	-	■	-	■	-	■	-	ALP	42
Tower TracX	FTD13_/SAD	■	■	■	-	-	-	■	-	■	-	■	-	ALP	42
Wind TracX	AU7139/XT	■	■	■	-	-	-	-	■	■	-	-	-	ALP	43
Elastrac	FMT95_	■	■	-	-	-	-	-	■	■	■	■	■	AP	44
Tracforce	ACK04	■	■	-	-	-	■	-	-	-	-	-	-	AP	45
Rescue	FUY119_	■	■	■	■	-	-	-	■	■	■	■	-	ADLP	46
COMFORT SERIES															
TracX	AD732_/X	■	-	-	-	-	■	-	-	■	-	-	-	A	47
TracX	AU732_/X	■	-	-	-	-	-	-	■	■	-	-	-	A	47
TracX	AD742_/X	■	■	-	-	-	-	■	-	■	-	-	-	AP	47
TracX	AU7132_/X	■	■	■	-	-	-	-	■	■	-	-	-	ALP	47
TracX	EBD95_/X	■	■	-	-	-	-	■	-	■	-	■	-	AP	47
PERFORMANCE SERIES															
Versafit	AC732	■	-	-	-	-	■	-	-	-	-	-	-	A	48
Versafit	AD732	■	-	-	-	-	-	■	-	-	-	-	-	A	48
Versafit	AC742	■	■	-	-	-	■	-	-	-	-	-	-	AP	48
Versafit	AD742	■	■	-	-	-	-	■	-	-	-	-	-	AP	48
Versafit	AD714	■	-	■	-	■	-	■	-	-	-	-	-	ADE	48
Versafit	EBD95_	■	■	-	-	-	-	■	-	■	-	■	-	AP	48
COMPLIANCE SERIES															
Phoenix T5	AC032	■	-	-	-	-	■	-	-	-	-	-	-	A	49
Phoenix T5	AD032	■	-	-	-	-	-	■	-	-	-	-	-	A	49



Fall arrest
CSA group A



Suspension/Descent
CSA group D



Retrieval
CSA group E



Ladder climbing
CSA group L



Positioning
CSA Group P

How to choose a harness

SELECT THE CONNECTION POINTS ADAPTED TO YOUR USE (D-RINGS)



Adjustable dorsal D-ring
For fall arrest and restraint.



Shoulder D-ring
For rescue/retrieval operations.



Side-positioning D-ring
For work positioning applications.



Frontal attachment D-ring
For suspension and ladder climbing applications.



Sternal D-ring
For ladder climbing.

SELECT THE COMFORT LEVEL ADAPTED TO YOUR TYPE OF USE (ADJUSTMENT POINTS)



3-point adjustment

- Legs (x2)
- Chest (x1)



5-point adjustment

- Torso (x2)
- Legs (x2)
- Chest (x1)



7-point adjustment

- Torso (x2)
- Subpelvic strap (x2)
- Legs (x2)
- Chest (x1)

SELECT THE LEG ADJUSTMENT TYPE



Tongue and buckle
Easy belt-type adjustment and will not loosen during wear. Proper adjustment needs to be made each time worker uses harness.



Pass through
Quick and easy connection and release with pass-thru type buckle.



Quick-connect
Always-ready adjustment for repetitive use. User simply needs to make a first-time adjustment.

SELECT ADDITIONAL COMFORT OPTIONS



Elaspac
Replaces conventional stretch webbing with a controlled mechanical pack that limits the harness stretch.



TracX pad
Adds support and distributes the loads evenly to the shoulders to reduce worker fatigue.



Leg pads
Breathable lining and increases comfort for day-long use.

Donning the vest style harness



1 Unfasten leg and chest straps, hold harness by the dorsal D-ring and inspect before use.



2 Put harness on like a jacket with dorsal D-ring between shoulder blades.



3 Connect leg straps and adjust.



4 Connect chest strap and adjust so it is positioned across the chest.



5 Adjust shoulder straps and sub-pelvic strap so it is under the pelvis.



6 The harness should be snug but not overly tight.



7 Secure all loose ends of the webbing using the elastic keepers. The harness must allow movements and positions without significant constraints of the body.



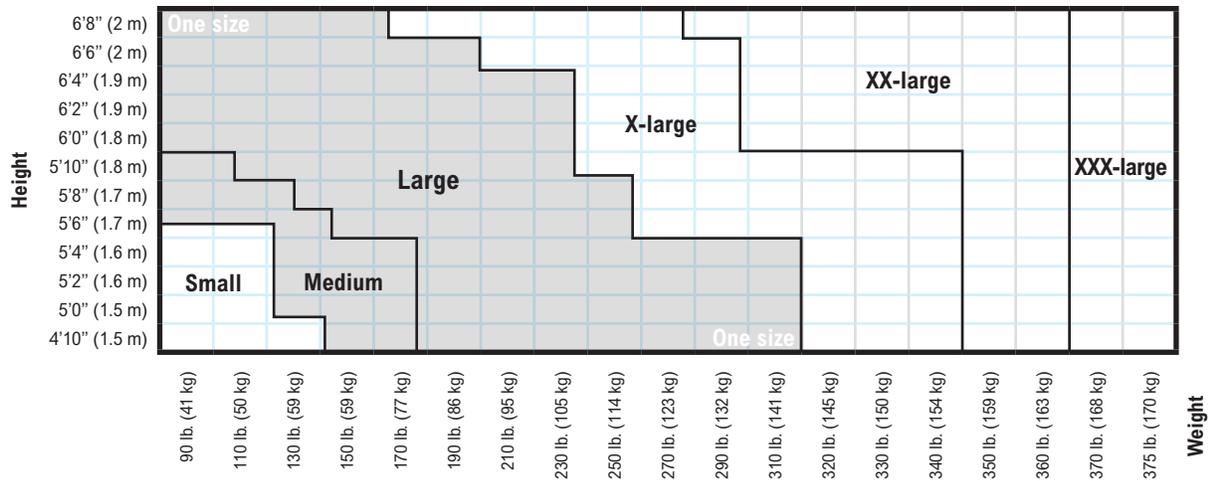
User must read, understand and follow manufacturer's instruction before use. Failure to observe warning may cause falls which may result in serious injury or death. Images are for illustrative purposes only. Options and types of buckles may differ depending on model.

Harnesses

At a glance

SIZES

All harnesses are available in different sizes. Modify part number by adding (or by replacing the letter L) at the end of the part number either the letter(s) S for small, M for medium, XL for X-large or XXL for XX-large.



MODULAR CAPABILITY

Most Tractel harnesses can accommodate your favorite belts.

BELT SIZES

SMALL	MEDIUM	LARGE	X-LARGE	XX-LARGE
31–39 in. (78–100 cm)	35–43 in. (88–110 cm)	38–46 in. (98–120 cm)	44–52 in. (108–130 cm)	46–55 in. (118–140 cm)

All belts are available in different sizes. Modify part number by replacing letter L at the end of the part number by either the letter(s) S for small, M for medium, XL for X-large or XXL for XX-large.

WAIST BELTS ALONE ARE PROHIBITED FOR FALL ARREST.

A HARNESS CAN HAVE A WAIST BELT.

CSA/ANSI CLASSIFICATIONS



Fall arrest
Group A



Suspension/Descent
Group D



Retrieval
Group E



Ladder climbing
Group L



Positioning
Group P

Tower TracX harness

PROFESSIONAL SERIES

The Tower TracX harness from the TracX family has all the same performance characteristics with the addition of design features specific to tower, mast, and aerial climbing industries. This product is intended for technicians and professionals who spend the majority of their working time climbing up and down vertical structures.

FTD13L



- Tongue and buckle legs (A)
- TracX pad: Provides extra comfort and minimizes weight on shoulders. Keeps you dry and comfortable with breathable lining. (B)
- Ultra comfort waist padded back support belt (C)
- Side-positioning D-rings: For work-positioning applications. (D)
- Sternal D-ring for ladder climbing (E)
- Fixed chest strap with quick-connect buckle (F)
- Label cover: Protects labels containing important product information. (G)
- Removable tool belt accommodates pouches (H)
- Belt loop to accommodate any Tractel removable belt or your favorite tool belt up to 4 in. (10 cm) wide. (I)
- Spring-loaded adjuster buckle: Adjusts and stays in place. Prevents webbing creeping. (J)
- Tool rings (K)
- Lanyard clip: To keep the lanyard arm out of the way when not in use, minimizing risk of tripping. Conveniently located on both chest strap keepers. (L)
- Sub-pelvic strap (M)
- Visual fall indicator on back (N)
- Saddle buckles (O)
- Accessory hook (P)
- Adjustable dorsal D-ring (Q)
- Tractel's exclusive dual keeper system:
 - Elastic keeper: Allows excess webbing to be folded and tucked into the keeper to prevent from getting tangled. (R)
 - Rubber slider: Prevents from creeping and losing adjustment. (S)
- Sizes: small, medium, large, X-large and XX-large



FTD13L/SAD

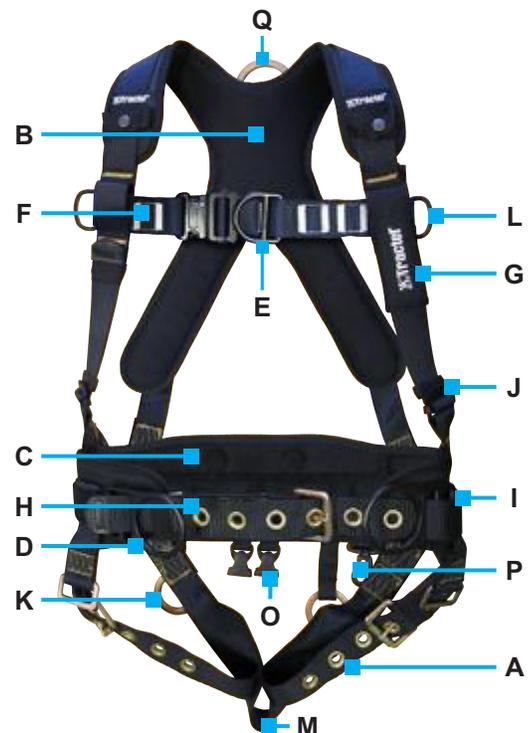
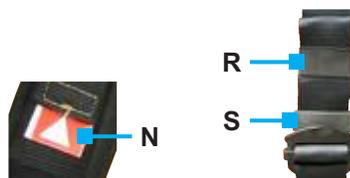
FTD13L/SAD



- FTD13L with Pro-Seat saddle

XSAD1

- Pro-Seat saddle for harness
- Wrap around comfort pad
- Internal aluminium stay
- Adjustable height for correct fit
- Extended positioning D-ring



Wind TracX harness

PROFESSIONAL SERIES

The Wind TracX harness from the tracx comfort series has all the same performance characteristics with the addition of design features specific to wind energy, tower and mast climbing. This product is intended for technicians and professionals who spend the majority of their working time climbing up and down wind turbines and vertical structures.

AU7139/XT



- Aluminium quick-connect legs and chest buckles (A)
- TracX pad: Provides extra comfort and minimizes weight on shoulders. Keeps you dry and comfortable with breathable lining. (B)
- Leg pads (C)
- Side-positioning D-rings: For work-positioning applications. (D)
- Sternal D-ring for ladder climbing (E)
- Fixed chest strap with quick-connect buckle (F)
- Label cover: Protects labels containing important product information. (G)
- Lanyard clip: To keep the lanyard arm out of the way when not in use, minimizing risk of tripping. Conveniently located on both chest strap keepers. (H)
- Glove retainer clip (I)
- Visual fall indicator on back (J)
- Adjustable dorsal D-ring (K)
- Tractel's exclusive dual keeper system:
 - Elastic keeper: Allows excess webbing to be folded and tucked into the keeper to prevent from getting tangled. (L)
 - Rubber slider: Prevents from creeping and losing adjustment. (M)
- Sizes: one size fits most and X-large.



Height safety

Harnesses

Elastrac harness

PROFESSIONAL SERIES

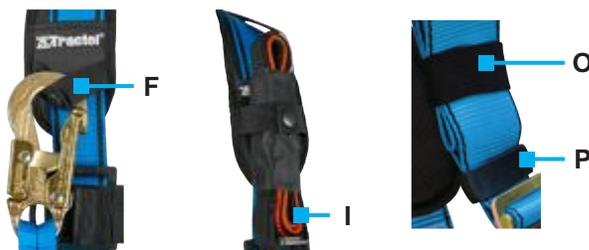
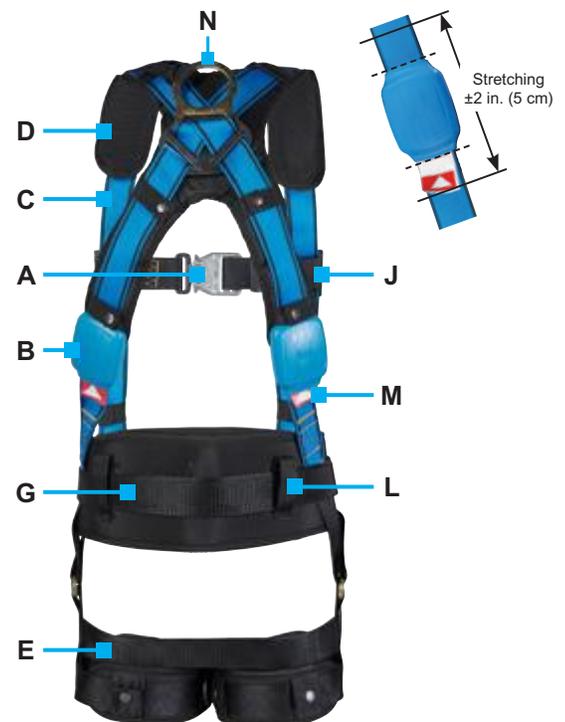
Flexibility, mobility, durability

The Elastrac line of harnesses, combines flexibility, mobility and durability into the industries most comfortable all-purpose harness. The key to the Elastrac's superior fit and comfort is in the dual Elaspac design. The first of its kind, the Elaspac controls excessive stretch of similar harness styles, which can lead to increased fall distances, by limiting the allowable stretch to a maximum of two inches, yet giving the user the mobility and flexibility to move and stretch while working, reducing worker fatigue of a long work day. The addition of Tractel's X-style TracX shoulder and back pad provides extra comfort and minimizes weight on the shoulders providing a combination of stretch and comfort unsurpassed in the industry.

FMT95L



- Quick-connect buckles (A)
- Dual Elaspac: Replaces conventional stretch webbing with a controlled mechanical pack that limits the harness stretch to a maximum of 2 in. (5 cm) allowing a worker full mobility and freedom of movement while reducing excessive fall distances. (B)
- Non-stretch webbing giving extensive durability to harness. (C)
- TracX pad: Provides extra comfort and minimizes weight on shoulders. Keeps you dry and comfortable with breathable lining. (D)
- Independent leg/seat support for improved mobility (E)
- Dual lanyard keepers: Snap release design to keep the lanyard arm out of the way when not in use and minimizing risk of tripping. (F)
- Construction style waist pad with removable tool belt (G)
- Label cover: Protects labels containing important product information. (H)
- Suspension loop: To support worker weight while waiting for rescue. (I)
- Chest strap keeper: To keep the chest strap in place. Designed with additional friction preventing chest strap from sliding. (J)
- Side-positioning D-rings: For work-positioning applications. (K)
- Belt loop to accommodate any Tractel removable belt or your favorite tool belt up to 4 in. (10 cm) wide. (L)
- Dual impact / inspection indicators (M)
- Adjustable dorsal D-ring (N)
- Tractel's exclusive dual keeper system:
 - Elastic keeper: Allows excess webbing to be folded and tucked into the keeper to prevent from getting tangled. (O)
 - Rubber slider: Prevents from creeping and losing adjustment. (P)
- Sizes: small, medium, large, X-large and XX-large



Tracforce harness

PROFESSIONAL SERIES

The heat resistant choice for welders

The Tracforce harness is designed for use by industrial and commercial welders who work at heights. It offers an exceptionally long life under working conditions that would normally destroy a polyester or nylon equivalent in just weeks. Constructed from Kevlar and Technora fibers, the Tracforce harness has an exceptional high heat resistant property that repels welding spatter. With extremely high abrasion resistance and the ability to withstand flame and heat, the Tracforce harness will far outlast polyester or nylon resulting in an economic benefit.

ACK04



- Pass-through legs (A)
- 10,000 lbs. (44.5 kN) tensile fire retardant webbing (B)
- Impact reduction fold
- Adjustable dorsal D-ring (C)
- Adjustable chest strap (D)
- Side-positioning D-rings: For work-positioning applications. (E)
- Sewn sub-pelvic strap (F)
- Belt loop to accommodate any Tractel removable belt or your favorite tool belt up to 4 in. (10 cm) wide. (G)
- Label cover: Protects labels containing important product information. (H)
- Visual fall indicator on back (I)
- Tractel's exclusive dual keeper system:
 - Elastic keeper: Allows excess webbing to be folded and tucked into the keeper to prevent from getting tangled. (J)
 - Rubber slider: Prevents from creeping and losing adjustment. (K)
- Sizes: one size fits most and X-large.



Rescue harness

PROFESSIONAL SERIES

Superior fit for all day comfort and quick intervention

The Rescue harness combines safety, versatility and comfort. The special Y-shape design includes a simple attachment point making an easy and quick donning. The strap configuration allows better fastening to the body and gives the worker extra mobility when bending.

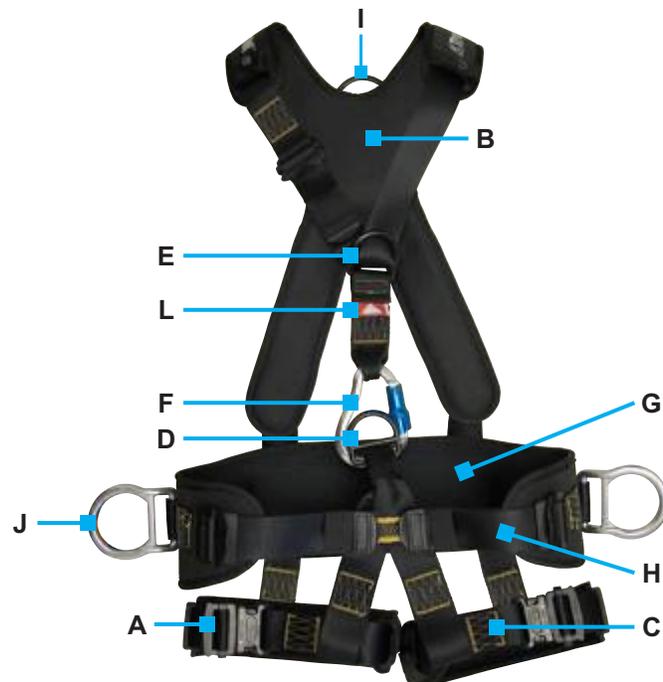
The many frontal attachment points allow the harness to be used in various applications. It also features a unique independent leg strap design which allows complete freedom of movement and flexibility while climbing, walking and bending without the unwanted tugging and pulling between the thighs. The Tracx back pad brings extra comfort on shoulders and back, and also contributes in keeping the harness' shape for quick donning.

Along its many different features, the Rescue harness offers day-long comfort without neglecting safety. This harness will feel like a comfortable piece of clothing in any position your hard working day may bring you.

FUY119L



- Y-style design for quicker donning and keeping shoulder straps in place
- Quick-connect leg buckles adjustment (A)
- TracX pad: Provides extra comfort and minimizes weight on shoulders. Keeps you dry and comfortable with breathable lining. (B)
- Independent leg/seat: Leg strap design moves independently allowing complete freedom of movement and flexibility (C)
- Waist D-ring for rescue attachment and controlled descent (D)
- Sternal D-ring to keep work-position centered (E)
- Triple-locking aluminium carabiner (F):
 - Improves accessibility
 - Facilitates connection options
 - Will not interfere in confined spaces when not in use
 - Ideal for certain positioning needs
- Waist lumbar back support (G)
- Removable tool belt (H)
- Adjustable dorsal D-ring (I)
- Large and bent aluminium side D-rings. (J)
- Leg pads (K)
- Fall indicator tabs (L)
- Inspection tag
- Sizes: medium, large, X-large and XX-large.



TracX harness

COMFORT SERIES

The TracX harness is one of Tractel's most comfortable harness. The TracX pad provides extra comfort and minimizes weight on shoulders. The breathable lining keeps you dry and comfortable. Its adjustable leg, shoulder, chest and sub-pelvic straps can be adjusted to a perfect fit for maximum comfort. Its snap release lanyard keeper design keeps the lanyard arm out of the way when not in use and minimizes the risk of tripping.

FEATURES

- TracX pad: Provides extra comfort and minimizes weight on shoulders. Keeps you dry and comfortable with breathable lining.
- Adjustable sub-pelvic strap
- Adjustable dorsal D-ring

AD732/X



- Tongue and buckle legs
- Sizes: one size and X-large

AU732/X



- Quick-connect buckles
- Sizes: one size and X-large

AD742/X



- Tongue and buckle legs
- Side-positioning D-rings: For work-positioning applications.
- Sizes: one size and X-large

AU7132/X



- Quick-connect buckles
- Side-positioning D-rings: For work-positioning applications.
- Sternal D-ring to keep work-position centered
- Fixed chest strap
- Sizes: one size and X-large

EBD95L/X



- Tongue and buckle legs
- Padded back support belt with side-positioning D-rings
- Removable tool belt accommodates pouches
- Sizes: medium, large and X-large



AU732/X



AU732/X



AD742/X



AU7132/X



EBD95L/X

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Versafit harness

PERFORMANCE SERIES

The Versafit harness is Tractel's most versatile harness. With its adjustable leg, shoulder, chest and sub-pelvic straps it can be adjusted to a perfect fit for maximum comfort.

FEATURES

- Adjustable sub-pelvic strap
- Seven-point adjustment
- Adjustable back D-ring
- Adjustable chest strap
- Lanyard retaining clips on both shoulder straps
- Fall indicators / inspection tag / serial number
- Accommodates tool belt up to 4 in. (102 mm) wide
- Adjustable dorsal D-ring
- Ideal for use with Tracvest

AC732



- Pass-through legs
- Adjustable chest strap
- Sizes: S, one size, XL and XXL

AD732



- Tongue and buckle legs
- Adjustable chest strap
- Sizes: S, one size, XL and XXL

AC742



- Pass-through legs
- Side positioning D-rings
- Adjustable chest strap
- Sizes: S, one size, XL and XXL

AD742



- Tongue and buckle legs
- Side positioning D-rings
- Adjustable chest strap
- Sizes: S, one size, XL and XXL

AD714



- Tongue and buckle legs
- Retrieval D-rings
- Sternal D-ring
- Fixed chest strap
- Sizes: S, one size, XL and XXL

EBD95



- Tongue and buckle legs
- Removable belt
- Fall arrest applications
- Side positioning D-rings
- Adjustable chest strap
- Sizes: M, L and XL



Phoenix T5 harness

COMPLIANCE SERIES

The Phoenix T5 harness is specially designed to be light in weight and fully adjustable. It is recommended for your compliance, restraint and fall arrest applications.

FEATURES

- Five-point adjustment
- Adjustable chest strap
- Sewn sub-pelvic strap
- Inspection tag / serial number
- Accommodates tool belt up to 4 in. (102 mm) wide
- Adjustable dorsal D-ring

AC032



- Pass-through legs
- Size: One size fits most

AD032



- Tongue and buckle legs
- Size: One size fits most



Height safety

Harnesses

Accessories

For harnesses

SADDLE FOR HARNESS

XSAD1

- Wrap around comfort pad
- Internal aluminium stay
- Adjustable height for correct fit
- Extended positioning D-ring



XSAD1

TRACVEST

XVEST02

- Lightweight outer mesh
- Breathable inner liner snaps apart to accommodate harness
- Reflective striping front and back
- Side storage pockets
- Lanyard retaining clip
- D-ring extender keeper
- Washable
- Sizes: one-size and X-large



XVEST02

SHOULDER PADS

XSPADW

- Fits any harness
- Easy to install and remove
- Washable



XSPADW



XLPAD2W

LEG PADS

XLPAD2W

- Fits any harness
- Easy to install and remove
- Washable

SUSPENSION LOOP

K6FL6A

- For post-fall suspension



K6FL6A



XTL

TOOL LANYARD

XTL

- 2 to 3.3 ft. (61 to 100 cm)
- Maximum tool weight: 10 lb. (4.5 kg)

BAGS

XB1116

- Lightweight storage bag
- 11 x 16 in. (28 x 40 cm)



XB1116

XB0820

- Carrying bag with handles
- 8 x 20 in. (20 x 50 cm)



XB0820

XB2111

- Carrying bag with handles
- 11 x 11 x 21 in. (28 x 28 x 53 cm)



XB2111

How to choose a lanyard

LENGTH

Different lengths available, the standard is 6 ft. (1.8 m).
Selecting the proper length minimizes the free fall distance.
(Consult your Competent Person)

ARMS

Single-arm lanyards are mostly used for common applications.
Two-arm lanyards are used when 100% tie-off is required.

MATERIAL



Webbing

Could be used in different environments, make sure to recognize the possible exposed working hazards. Consult your competent person.



Kevlar

Best heat-resistant material for flammable environments.

SHOCK ABSORBER



Tracpac

Pack design, deploys and dissipates the energy by extending the deceleration distance.



Stretchfor

Composed of a specially woven core material and a structural tubular sheath webbing. The core material is constructed to stretch when dynamically loaded. With the addition of an internal elastic retainer, the lanyard length stretches and reduces tripping hazards.

SELF-LOCKING SNAP HOOKS



3/4 in. (20 mm) steel hook

Forged steel, standard hook for most applications.



2 1/4 in. (57 mm) steel hook

Forged steel, hook used mostly for scaffolding and rebar work.



2 1/2 in. (64 mm) aluminum hook

Polished aluminium, lighter for day-long comfort.

RINGS



Rescue ring

Used to relieve tension from victim's lanyard for quicker rescue.



Tie-back ring

Designed to wrap lanyard around suitable anchor structure back to the lanyard (ex. beam).

Shock-absorbing lanyards

All lanyards listed below are 6 ft. (1.8 m) and have a ¾ in. (20 mm) self-locking snap hook at shock pack end.

TRACPAC HIGH-ABRASION SHOCK-ABSORBING LANYARDS

- Available lengths: 3, 4 or 6 ft. (0.9, 1.2 or 1.8 m) only, except tie-back models
- Capacity: – “L” model from 132–310 lb. (60–140 kg)
– “S” model from 196–420 lb. (89–190 kg)

C106Z/L and C106Z/S

- One arm
- With ¾ in. (20 mm) self-locking snap hook

C106H/L and C106H/S

- One arm
- With 2¼ in. (57 mm) self-locking snap hook

C196ZZ/L and C196ZZ/S

- One arm
- Adjustable with tie-back
- With ¾ in. (20 mm) self-locking snap hook

C126C/L and C126C/S

- Two arms
- With ⅝ in. (16 mm) autolocking carabiners

C126H/L and C126H/S

- Two arms
- With 2¼ in. (57 mm) self-locking snap hook

PHOENIX SHOCK-ABSORBING LANYARDS

- Available lengths: 2, 3, 4, 5 or 6 ft. (0.6, 0.9, 1.2, 1.5 or 1.8 m)
- Capacity: – “L” model from 132–310 lb. (60–140 kg)
– “S” model from 196–420 lb. (89–190 kg)

C006K/L and C006K/S

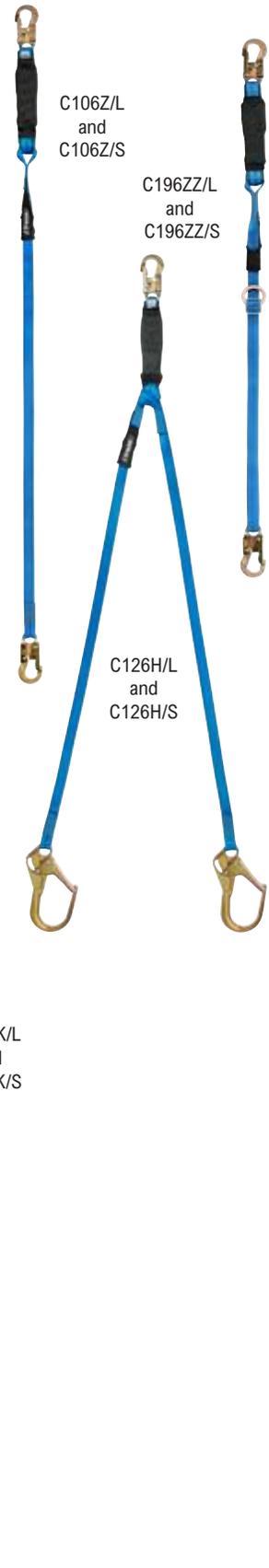
- One arm
- With ¾ in. (20 mm) self-locking snap hook

C006H/L and C006H/S

- One arm
- With 2¼ in. (57 mm) self-locking snap hook

C026H/L and C026H/S

- Two arms
- With 2¼ in. (57 mm) self-locking snap hook



Shock-absorbing lanyards

All lanyards listed below are 6 ft. (1.8 m) and have a ¾ in. (20 mm) self-locking snap hook at shock pack end.

TRACPAC SHOCK ABSORBERS

- Available length: 18 in. (46 cm) only
- Capacity: – “/L” model from 132–310 lb. (60–140 kg)
– “/S” model from 196–420 lb. (89–190 kg)

C002RZ/L and C002RZ/S

- Two arms
- D-ring
- With ¾ in. (20 mm) self-locking snap hook



C002RZ/L
and
C002RZ/S

TRACFORCE SHOCK-ABSORBING LANYARDS

- Fire retardant Kevlar material
- Available length: 6 ft. (1.8 m) only
- Capacity: – “/L” model from 132–310 lb. (60–140 kg)
– “/S” model from 196–420 lb. (89–190 kg)

C0K6Z/L and C0K6Z/S

- One arm
- With ¾ in. (20 mm) self-locking snap hook

C0K26H/L and C0K26H/S

- Two arms
- With 2¼ in. (57 mm) self-locking snap hook



C0K6Z/L
and
C0K6Z/S

STRETCHFOR SHOCK-ABSORBING LANYARDS

- Reduces tripping hazards
- Available length: stretchable from 4½ to 6 ft. (1.4 to 1.8 m) only
- Capacity: – “/L” model from 110–220 lb. (50–100 kg)
– “/S” model from 198–352 lb. (90–160 kg)

C506Z/L and C506Z/S

- One arm
- With ¾ in. (20 mm) self-locking snap hook

C506H/L and C506H/S

- One arm
- With 2¼ in. (57 mm) self-locking snap hook

C526H/L and C526H/S

- Two arms
- With 2¼ in. (57 mm) self-locking snap hook



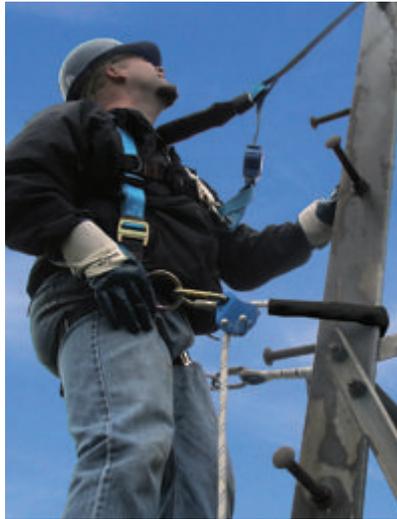
C506Z/L
and
C506Z/S



C526H/L
and
C526H/S

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Work-positioning assemblies



ADJUSTFOR WORK-POSITIONING ROPE LANYARD

CSP06C1

- 6 ft. x ½ in. (1.8 m x 12.5 mm) rope lanyard with rope adjuster
- Friction bend rope adjuster
- Lightweight made of aluminium and steel components
- Abrasion resistant sheath
- Security sewn-end termination



REBAR CHAIN ASSEMBLY

V61WH

- 2¼ in. (57 mm) with swivel link hook
- Swivel assembly
- All self-locking hooks
- Overall length: 27 in. (68.6 cm)



Connectors for lanyards

All lanyards that meet ANSI A10.32-2012 and Z359.12-2009 come standard with a ¾ in. (20 mm) forged steel self-locking snap hook (#43601 – Z) at each end. Choose your connector in the list below by changing the last letter of the lanyard product code by the one in brackets. All hooks and carabiners comply with the 3,600 lb. (16 kN) gate strength requirement.

PM11Z (C1)

- Alloy steel
- ⅝ in. (16 mm) opening
- Breaking strength: 5,000 lb. (22.2 kN)
- Gate strength: 3,600 lb. (16 kN)



P263Z (T)

- Alloy steel
- 2 in. (50 mm) opening
- Breaking strength: 9,000 lb. (40 kN)
- Gate strength: 3,600 lb. (16 kN)
- Captive eye pin included



P2854Z/3

- Anodized aluminium
- 1⅝ in. (24 mm) opening
- Triple-locking
- Breaking strength: 5,620 lb. (25 kN)
- Gate strength: 3,600 lb. (16 kN)



P2868Z (C6)

- Anodized aluminium
- 2 in. (51 mm) opening
- Breaking strength: 5,620 lb. (25 kN)
- Gate strength: 3,600 lb. (16 kN)
- Captive eye pin included



P247Z (T1)

- Alloy steel
- 1⅞ in. (27 mm) opening
- Breaking strength: 6,700 lb. (30 kN)
- Gate strength: 3,600 lb. (16 kN)
- Captive eye pin included



P259Z (TT)

- Alloy steel
- 2 in. (51 mm) opening
- Breaking strength: 7,200 lb. (32 kN)
- Gate strength: 3,600 lb. (16 kN)
- Captive eye pin included



Fall protection kit

BASIC FALL PROTECTION KIT

KIT-B01K/L and KIT-B01K/S



- Phoenix T5 harness
- 6 ft. (1.8 m) shock-absorbing lanyard (C006K/L or C006K/S)
- Storage bag (XB1116)
- Capacity: – “L” kit from 132–310 lb. (60–140 kg)
– “S” kit from 196–420 lb. (89–190 kg)



Quik-Mount

Roofing system

QUIK-MOUNT KITS

- Phoenix T5 harness
- Rope grab with 30 in. (0.76 m) shock-absorbing lanyard
- One reusable roof anchor with screws
- Pail

N0925K/E4

- Stopfor B rope grab
- 25 ft. (7.6 m) Superline lifeline (GS25NK)

N0950K/E4

- Stopfor B rope grab
- 50 ft. (15 m) Superline lifeline (GS50NK)

N0925K/Y

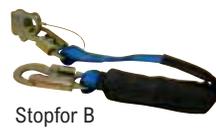
- Stopfor Y rope grab
- 25 ft. (7.6 m) Compliance lifeline

N0950K/Y

- Stopfor Y rope grab
- 50 ft. (15 m) Compliance lifeline



Quik-Mount roofer's kit with one of the following Stopfor and lifeline.



Stopfor B



Stopfor Y



Superline lifeline



Compliance lifeline

ROOFING ANCHORS

N105B

- Reusable peak roofing anchor
- Set of five anchors
- Screws included

N104B

- Permanent flat roofing anchor
- Set of five anchors
- Screws included

428103S

- Heavy-duty hinged D-ring roof anchor
- Screws included



N105B



N104B



428103S

MANUAL ROPE ADJUSTER

D5U03K

- With sewn 3 ft. (0.9 m) shock-absorbing lanyard



D5U03K

Roof anchors

SCREW-DOWN ROOF ANCHOR

The screw-down roof anchor has a 360° swiveling basket to hold up to 50 ft. (15 m) of retractable device. This convenient setup keeps the self-retracting device off the roof and rotating freely for greater ease of movement. Lightweight and portable, this anchor provides a quick solution to your fall protection needs. For wood roofs.

N620

- Anchor only

N620/3 *(shown)*

- With 30 ft. (9 m) Blocfor AES Leading Edge self-retracting device

N620/5

- With 50 ft. (15 m) Blocfor Leading Edge self-retracting device



ADJUSTABLE/SWIVEL RIDGE ANCHOR

Mount this anchor at the peak of the roof, use up to a 50 ft. (15 m) self-retracting device in the 360° swiveling basket and work both sides of the roof without having to move the anchor. This anchor is the ultimate in flexibility, and with its durable powder coated steel finish, it will provide years of trouble free service. For wood roofs.

N630

- Anchor only

N630/3 *(shown)*

- With 30 ft. (9 m) Blocfor AES Leading Edge self-retracting device

N630/5

- With 50 ft. (15 m) Blocfor Leading Edge self-retracting device



FLAT METAL ROOF ANCHOR

The flat metal roof anchor provides continuous protection and 360° freedom of movement on Type B and Type R roof decking as well as flat metal roofs. It's lightweight and the screw-down installation allows for a quick and easy installation. For metal roofs.

N640

- Anchor only

N640/3 *(shown)*

- With 30 ft. (9 m) Blocfor AES Leading Edge self-retracting device

N640/5

- With 50 ft. (15 m) Blocfor Leading Edge self-retracting device



STANDING SEAM ROOF ANCHOR

The standing seam roof clamp provides continuous protection and freedom of movement on flat or sloped seamed roofs. Provides a 360° swivel mount with a retractable device. Adjustable for metal roof seams 24, 30, 32 and 36 in. (60, 75, 80 and 90 cm). For metal roofs.

N650

- Anchor only

N650/3 *(shown)*

- With 30 ft. (9 m) Blocfor AES Leading Edge self-retracting device

N650/5

- With 50 ft. (15 m) Blocfor Leading Edge self-retracting device



Hard anchorage connectors

BEAM CLAMP

V5009

- Fits I-beam from 3 to 9¼ in. (76 to 235 mm)
- Screw-down adjustment

BEAM TROLLEY

V5019

- Fits I-beam from 2⁵/₁₆ to 8¹¹/₁₆ in. (59 to 220 mm)
- Simple screw-down adjustment
- Locking nut

BEAMSLIDE

Sliding beam anchor.

V5002

- Fits I-beam from 4 to 14 in. (100 to 355 mm)
- Autolocking positioning knob
- Steel rollers allow for smooth travel.

ANCHORAGE D-RINGS

V3731 (shown)

- ½ in. (13 mm) hole
- Includes nut and bolt

V4232

- Clearance hole for ½ in. (13 mm) bolt
- Does not include hardware

V4238

- Clearance hole for ⅝ in. (16 mm) bolt
- Does not include hardware

FIRST MAN REMOTE HOOK

Ideal for specialized high reach anchor placement.

V148C

- Fiberglass pole
- With carabiner
- Extends from 4 to 8 ft. (1.2 to 2.4 m)

V1820

- Complete first man remote hook (V3106117)
- Fiberglass pole that extends from 8 to 20 ft. (2.4 to 6 m) with adapter for hook assembly (V1106697)



Soft anchorage connectors

ANCHOR SLINGS

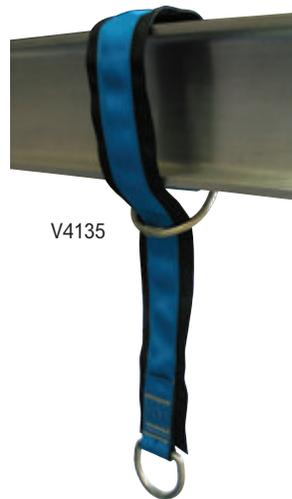
- Pass-through D-ring
- Rated 5,000 lb. (22.2 kN)
- Made of polyester webbing
- Heavy duty back pad

V4135 (shown)

- 3 ft. (0.9 m) length

V4165

- 6 ft. (1.8 m) length



V4135



V4165

SLING CHOKER

V4115

- 15 in. (0.4 m) length
- Rated 5,000 lb. (22.2 kN)
- Made of polyester webbing

CONCRETE ANCHOR STRAPS

- Rated 5,000 lb. (22.2 kN)
- For rebar steel
- Protective sleeve
- One loop and one D-ring
- Orange

V8234/O

- 4 ft. (1.2 m)

V8236/O

- 6 ft. (1.8 m)



V8236/O

WIRE ROPE SLINGS

V4174/R

- 4 ft. x ¼ in. (1.2 m x 6.5 mm)
- Vinyl covered

V4176/R

- 6 ft. x ¼ in. (1.8 m x 6.5 mm)
- Vinyl covered

V4178/R

- 8 ft. x ¼ in. (2.4 m x 6.5 mm)
- Vinyl covered

V41906Z

- 6 ft. x ¼ in. (1.8 m x 6.5 mm)
- Vinyl covered
- O-rings

V41906O

- 6 ft. x ¼ in. (1.8 m x 6.5 mm)
- Vinyl covered
- ¾ in. (20 mm) self-locking snap hook and O-ring



V41906O

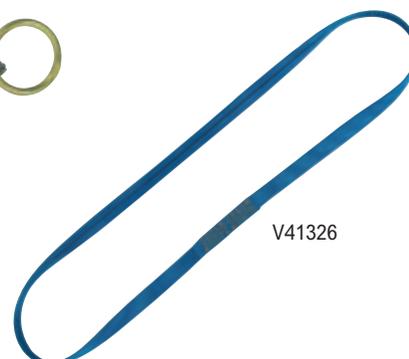


V4176/R

ENDLESS SLINGS

V41326

- 6 ft. (1.8 m) endless sling



V41326

Rope grabs

STOPFOR B TRAILING ROPE GRAB

The Stopfor B is a lightweight hands-free grab. The unique design provides a roll over cam brake technology which applies breaking pressure to the lifeline in the event of a fall yet allows unprecedented mobility when travelling, extending rope life.

- Lightweight
- Anti-reversability provided by gravity pin
- Anti-panic function with roll-over cam brake
- $\frac{5}{8}$ in. (16 mm) three-strand rope diameter
- 30 in. (76 cm) shock-absorbing lanyard retained by a wire rope

D5B02K/1 *(shown)*

- Stopfor B

D5BP02K/1

- Stopfor B with park feature



STOPFOR Y TRAILING ROPE GRAB

The Stopfor Y trailing rope grab is specially designed to be incorporated in a fall arrest or travel restraint system where worker mobility and fall protection is required. Its design offers impeccable auto travel in both ascent and descent mode. Because the device functions without a locking jaw, little damage to the lifeline is caused when dynamically loaded.

The shock-absorbing lanyard is composed of a $1\frac{3}{4}$ in. (45 mm) lightweight continuous web. The shock absorber is covered with a tubular polyester sleeve.

D5Y02K/1

- $\frac{5}{8}$ in. (16 mm) three-strand rope diameter
- Rope grab is constructed of steel with a zinc-dichromate finish
- A unique gravity roller which prevents upside down installation of the rope grab on the lifeline
- Can be easily attached or removed at any point on the lifeline
- $1\frac{5}{16}$ in. (33 mm) diameter hole allows for a variety of hook sizes
- Capacity is 100–310 lb. (45–140 kg), one person, including clothing and tools



Lifelines

BULK KERNMANTLE LIFELINES

G70716

- 7/16 in. (11 mm) diameter
- Breaking strength: 8,000 lb. (35.6 kN)

G7012

- 1/2 in. (13 mm) diameter
- Breaking strength: 10,000 lb. (44.4 kN)



COMPLIANCE LIFELINES

- 5/8 in. (16 mm) diameter
- Breaking strength: 5,600 lb. (24.9 kN)

GPY—/YZ*

- 3/4 in. (20 mm) snap hook

GPY—/YH*

- 2 1/4 in. (57 mm) snap hook



* Replace “—” in part number with desired length in feet.
Standard lengths: 25, 50, 100, 200, 300 and 400 ft.

SUPERLINE LIFELINES

- 5/8 in. (16 mm) diameter
- Breaking strength: 11,500 lb. (51.2 kN)

G8058

- Bulk – Reels of 1,200 ft. (365 m)

GS—N*

- Nylon thimble only

GS—NK*

- 3/4 in. (20 mm) snap hook

GS—NH*

- 2 1/4 in. (57 mm) snap hook

* Replace “—” in part number with desired length in feet.
Standard lengths: 25, 50, 100, 200, 300 and 400 ft.



EDGE ROPE PROTECTOR SLEEVE

Prevents synthetic lifelines from being worn or damaged when contact with sharp edges and/or abrasive surfaces cannot be avoided.

XEDGPRO

- Heavy-duty vinyl coated polyester
- Velcro opening
- 22 13/16 x 9 7/8 in. (580 x 250 mm)
- Rope lanyard to facilitate installation and position



Web self-retracting lanyards

TRACBLOC WEB SELF-RETRACTING DEVICES

The TracBloc self-retracting devices are made of a shock absorber and a self-retracting device. They are designed to be used as a connecting device in a personal fall arrest system. The TracBloc self-retracting devices connect the user's harness to the anchorage point. Typical applications are: warehouse use, order-picker, manufacturing, scaffolding, construction, elevated platforms and general maintenance, repairs and operations.

The TracBloc self-retracting device allow freedom of movement in elevated areas, and eliminates tripping hazards and dangerous falls normally associated with fixed length devices. In case of a slip or a fall, an internal locking system immediately activates to arrest the fall.

TRACBLOC

- One arm
- 7.7 ft. (2.3 m)

TRACBLOC2

- Two arms
- 8 ft. (2.4 m)



RETRAC WEB SELF-RETRACTING DEVICE

The ReTrac self-retracting lanyard is designed to be used as a connecting device in a personal fall arrest system. The self-retracting lanyard connects the user's harness to the anchorage point.

The self-retracting lanyard allows freedom of movement in elevated areas, and eliminates tripping hazards and dangerous falls normally associated with rope lanyards. In case of a slip or a fall, an internal braking system immediately activates to arrest the fall. The self-retracting lanyard contains 11 ft. (3.3 m) of polyester webbing wound on a spring-loaded drum.

RY11W

- 11 ft. (3.3 m)
- 3/4 in. (20 mm) self-locking snap hook



Blocfor

Self-retracting devices

BENEFITS

- Patented system
- Integrated energy absorber
- Lower cost of ownership
- Leading edge capability
- Automatically eliminates rope slack

FEATURES

- Fiberglass filled casing for added durability
- Impact-indicating snap hook
- Rubber recoil bumper
- Corrosion-resistant components
- Isolated drum provides contaminate-free brake components

BLOCFOR B20 WEB SELF-RETRACTING DEVICE

RT20WC8-SA

- 20 ft. (6 m)
- Polyamide 6/ABS

BLOCFOR AES SELF-RETRACTING DEVICE WITH GALVANIZED STEEL WIRE ROPE

RA20G

- 20 ft. (6 m)
- Polyamide 6/ABS

RA30G

- 30 ft. (9 m)
- Polyamide 6/ABS

BLOCFOR AES LEADING EDGE SELF-RETRACTING DEVICE WITH GALVANIZED STEEL WIRE ROPE

RA30G/LE

- 30 ft. (9 m)
- Polyamide 6/ABS

BLOCFOR AES SELF-RETRACTING DEVICE WITH STAINLESS STEEL WIRE ROPE

RA20S

- 20 ft. (6 m)
- Polyamide 6/ABS

RA30S

- 30 ft. (9 m)
- Polyamide 6/ABS



Blocfor B20



Blocfor AES



Blocfor AES
Leading Edge

Blocfor

Self-retracting devices

FEATURES

- Sleek and durable housings
- Integrated carrying handles on some models
- Lightweight
- Easy to handle
- Synchronized twin inertia-braking pawls
- Constant triggering speed regardless of position
- Isolated spring and braking mechanism made of anti-corrosive and anti-sparking materials
- Impact-indicating snap hook
- Rubber recoil bumper
- Tamper proof connector assembly including carabiner
- Leading edge capability on certain models

BLOCFOR SELF-RETRACTING DEVICE WITH GALVANIZED STEEL WIRE ROPE

RT50G

- 50 ft. (15 m)
- Polyamide 6/ABS

RT100G

- 100 ft. (30 m)
- Cast aluminium

BLOCFOR LEADING EDGE SELF-RETRACTING DEVICE WITH GALVANIZED STEEL WIRE ROPE

RT50G/LE

- 50 ft. (15 m)
- Polyamide 6/ABS

BLOCFOR SELF-RETRACTING DEVICE WITH STAINLESS STEEL WIRE ROPE

RT50S

- 50 ft. (15 m)
- Polyamide 6/ABS

RT100S

- 100 ft. (30 m)
- Cast aluminium

OPTIONAL UPPER SWIVEL ATTACHMENT

- Add "/SW" to the end of the product code



Optional swivel



RT50G
or RT50S



RT100G
or RT100S



RT50G/LE

Derope

Emergency escape/controlled descent devices



FEATURES

- Easy to use, minimum training required
- Enables the evacuation of one or two persons from an elevated position to a lower level or the ground
- Automatically controls rate of descent
- Constant descent speed of 235 fpm (72 m/min) for one person and of 295 fpm (90 m/min) for two
- Up to 1,300 ft. (400 m) of descent for one person and up to 650 ft. (200 m) of descent for two
- Multi-person rescue capability
- Snap hooks located at each end of the rope allow for multiple evacuations
- Operation can be carried out down a cableway or tagline positioned at an angle between 30° and 60°
- Available with hand crank winch for limited lifting
- Dual descent pig tails
- Integrated jamming cleat that gives the user more control during a rescue
- External cooling fins ensure that the unit is quickly ready for consecutive descents
- Utilizes 3/8 in. (9 mm) Kernmantle rope
- Meets ANSI Z359.4-07 and CSA Z259.2.3, type 1E

DEROPE T DESCENT DEVICE SYSTEMS

Standard Derope allows a back and forth evacuation upwards as well as downwards.

- Derope T descent device unit
- 6 ft. (1.8 m) vinyl covered wire rope sling (V4173)
- 3/4 in. (20 mm) carbon steel autolocking carabiner (PM11Z)
- J-knife
- Rescue/rope bag (XB23144 or XB26168)

KT7200/TK

- 200 ft. (60 m) system

KT7300/TK

- 300 ft. (91 m) system

KT7400/TK

- 400 ft. (121 m) system

KT7500/TK

- 500 ft. (152 m) system

KT7600/TK

- 600 ft. (182 m) system

DEROPE UP A DESCENT DEVICE SYSTEMS

Incorporates a hand wheel winch mounted on to the base unit which allows the Derope descent device to be used as a lifting device. With a lift ratio of roughly 2:1, the winch is capable of lifting a victim in order to release it from its fall protection sub-system.

- Derope Up A descent device unit
- 6 ft. (1.8 m) vinyl covered wire rope sling (V4173)
- 3/4 in. (20 mm) carbon steel autolocking carabiner (PM11Z)
- J-knife
- Rescue/rope bag (XB23144 or XB26168)

KT7200/AK

- 200 ft. (60 m) system

KT7300/AK

- 300 ft. (91 m) system

KT7400/AK

- 400 ft. (121 m) system



Derope

Emergency escape/controlled descent devices

DEROPE UP E DESCENT DEVICE SYSTEMS

- Derope Up E descent device with mounted ladder adapter
- Adjustable lanyard including two $\frac{5}{8}$ in. (16 mm) PM11Z carabiners – D58U98
- Edge roller – K072586K
- Rescue bag – XB26168

KT7300/WK

- 300 ft. (91 m) system

KT7330/WK

- 330 ft. (100 m) system

DEROPE UP E DESCENT DEVICE SYSTEMS

Equipped with a wheel winch and a ladder bracket that can be secured on ladder rungs for more stability during rescue operations.

- Derope Up E descent device with mounted ladder adapter
- Mounted ladder adapter
- Adjustable lanyard including two $\frac{5}{8}$ in. (16 mm) PM11Z carabiners (D58U98)
- Edge roller (K072586K)
- T-bar (K5TBAR/K)
- Two 6 ft. (1.8 m) endless slings (V41326)
- Rescue bag (XB26168)

KT7300/WKE

- 300 ft. (91 m) system

KT7330/WKE

- 330 ft. (100 m) system

TRIPOD DEROPE UP R DESCENT DEVICE SYSTEMS

Equipped with a wheel winch and a tripod bracket that can be secured on a tripod leg to perform rescue operations in confined space environments.

KT7050/R

- 50 ft. (15 m) system

KT7100/R

- 100 ft. (30 m) system

ACCESSORY

V41326

- 6 ft. (1.8 m) endless sling

To calculate rope length required

- Evacuation: descent height x 1
- Controlled rescue: descent height x 2



Derope Up E



Derope Up R

Control descent device

D4 DESCENDER

Controlled-descent device with safety descent lever containing dual brake mechanism for accidental release or panic grab.

K6013572

- Standard: EN 340, class A (exceeds CSA Z259.2.3-99 and ANSI Z359.3-06)
- Rope diameter: $\frac{7}{16}$ in. (11 mm) Kernmantle rope
- Hinged side plate to facilitate rigging
- Aluminium alloy sheaves
- Stainless steel side plates

D4 DESCENDER KITS

- D4 descender (K6013572)
- Rope assembly
- 6 ft. (1 m) endless sling (V41326)
- Carabiner (PM11Z)
- Carrying bag

KIT-D430

- 30 ft. (9 m)

KIT-D450

- 50 ft. (15 m)

KIT-D475

- 75 ft. (23 m)

KIT-D4100

- 100 ft. (30 m)



Ascent/descent systems

ASCENT/DESCENT SYSTEMS

Designed for controlled descent, work access and rescue for general industry, maintenance and confined space applications.

- Manually operated, raising and lowering
- Requires 10 lb. (4.5 kg) of force to hold a 220 lb. (100 kg) load
- 4:1 mechanical advantage
- Anti-reversing lock, activates in descent mode
- Positioning ascender
- $\frac{7}{16}$ in. (11 mm) diameter Kernmantle rope
- Optional $\frac{1}{2}$ in. (13 mm) diameter Kernmantle rope available
- Travel/storage bag

K50S25

- 25 ft. (7.6 m) system

K50S50

- 50 ft. (15 m) system

K50S75

- 75 ft. (23 m) system

K50S100

- 100 ft. (30 m) system



LEFT AND RIGHT HAND ASCENDERS

For rope ascension or specialty rigging applications used within rope access and rescue practices.

- Standard: EN 567 (*Mountaineering equipment*)
- Rope diameter: $\frac{3}{8}$ to $\frac{1}{2}$ in. (9 to 12 mm)
- Aluminium alloy
- Breaking strength: 3,375 lb. (15 kN)

K3020492

- Right ascender handle

K3020502

- Left ascender handle



Accessories

For rescue and control descent

BAGS

XB23144

- Medium size for up to 300 ft. (91 m) of rope

XB26168

- Large size for more than 300 ft. (91 m) of rope



XB26168

XB23144

EDGE ROLLER

Edge protection for use on industrial structures.

K072586K

- Aluminum alloy



K072586K

VICTIM TRANSFER PULLEY

K9TRPS

- Two carabiners
- 4:1 mechanical advantage
- Storage bag

XB2410

- Storage bag for victim transfer pulley



K9TRPS

XB2410

SUSPENSION LOOP

K6FL6A

- For post-fall suspension



K6FL6A

Accessories

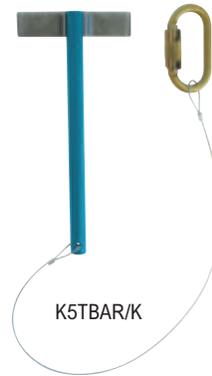
For rescue and control descent

T-BAR HANDLE

To lift lanyard during rescue.

K5TBAR/K

- With attached carabiner (PM11Z)



DAISY CHAIN

Use with rope ascending devices, industrial rope access techniques or vertical rescue applications.

K8DC01

- 68½ in. (1.75 m) long



HARD-SHELL CASE

XC101289-NF

- Heavy-duty carrying case
- Properly stores unit



HARD-SHELL CASE LIFTING STRAP

KSTRAP (not shown)

- Designed to support rescue case
- Maximum capacity of 200 lb. (90 kg)

BRACKET FOR TRIPOD DEROPE UP R DESCENT DEVICE SYSTEMS

Secures Derope on a tripod's leg to perform rescue operations in confined space environments.

7987428 (not shown)

VINYL COVERED WIRE ROPE SLING

V4173

- 6 ft. x ¼ in. (1.8 m x 6.5 mm)



Davitrac

Temporary anchor point for confined space entry, retrieval and fall protection

The Davitrac is a complete solution for safe vertical rope access or material lifting in a confined space situation. During work involving a risk of falling, it offers protection and total mobility for up to two users simultaneously.

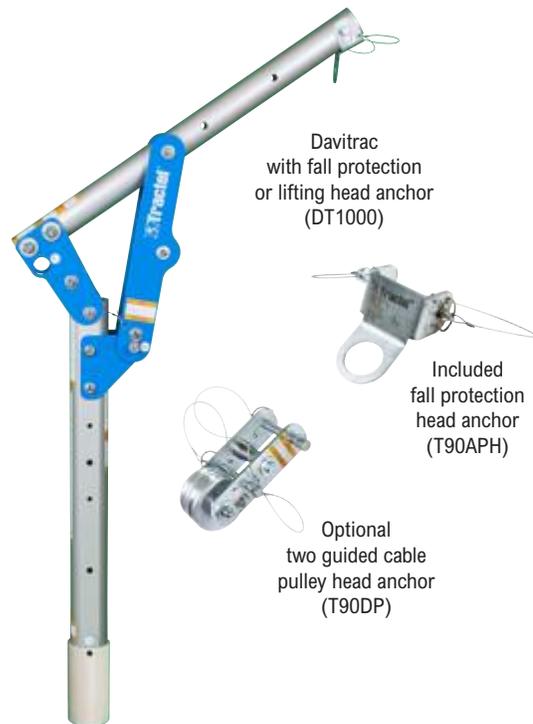
It is very light, foldable and its size makes it easy to transport in small construction vehicles, and it is easy to handle. It can be fitted with equipment that enables it to meet various standards. It can be configured according to the work to be carried out: a Blocfor bi-directional retrieval device, a rescue or lifting work winch or a Scafor.

APPLICATIONS

- Rescue
- Confined spaces
- Rope works
- Manholes
- Pits
- Sewerod access
- Pipes
- Oil and gas
- Civil engineering
- Industry
- Wind and solar installation

FEATURES

- Can secure up to two 330 lb. (150 kg) users
- Supplied with two heads which can be mounted on the boom:
 - 1 PPE anchor head 330 lb. (150 kg).
 - 1 lifting anchor head 1,100 lb. (500 kg) for use with hoists
- Weighs 57 lb. (26 kg)
- Made in aluminium
- Foldable
- Adjustable anchor head from 5.5 to 6.3 ft. (1.68 to 1.92 m) (max height above the head) with a offset on the arm from 15¾ to 27⅝ in. (400 to 700 mm) adjustable every 6 in. (15 cm).
- Can be fixed to the structure by four types of permanent adapters or combined with a temporary self-stabilising adapter:
 1. The wall mounted adapter allows the anchor adapter to be installed on the upper access points of a wall (T90DAVI-WMA).
 2. The clearance mural adapter has an offset of 11½ in. (291 mm) and allows the anchor to rotate freely when installed on a wall (T90DAVI-CMA).
 3. The mounted floor adapter is installed directly on any flat surface (T90DAVI-MFA).
 4. The flush floor adapter is fixed in a concrete slab by drilling a 5¾ in. (145 mm) hole (T90DAVI-FFA).
 5. The portable H self-stabilising adapter provides increased mobility for the device and can be installed on any flat surface (T90DAVI-PHB).



Davitrac+

Temporary anchor point for confined space entry, retrieval and fall protection

The Davitrac+ is a complete solution for safe vertical rope access or material lifting in a confined space situation. During work involving a risk of falling, it offers protection and total mobility for up to three users simultaneously.

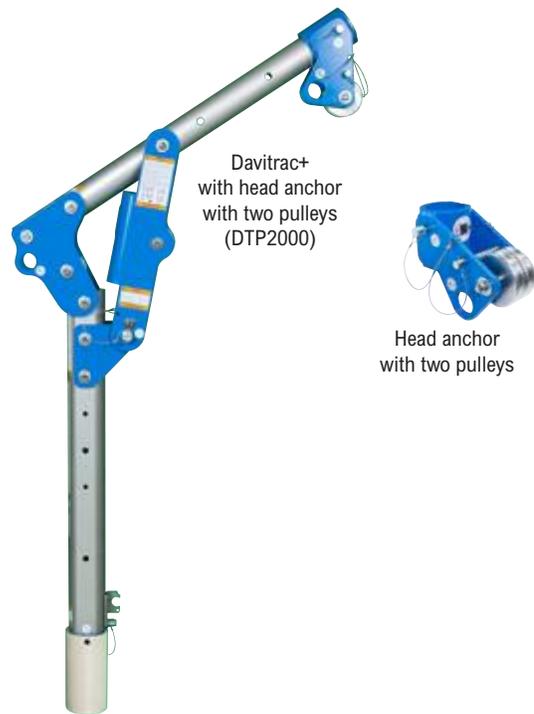
It is very light, foldable and its size makes it easy to transport in small construction vehicles, and it is easy to handle. It can be fitted with equipment that enables it to meet various standards. It can be configured according to the work to be carried out: a Blocfor bi-directional retrieval device, a rescue or lifting work winch or a Scafor.

APPLICATIONS

- Rescue
- Confined spaces
- Rope works
- Manholes
- Pits
- Sewerod access
- Pipes
- Oil and gas
- Civil engineering
- Industry
- Wind and solar installation

FEATURES

- Can secure up to three 330 lb. (150 kg) users
- Supplied with a multi-purposes head for both fall protection and lifting which is mounted on the boom.
- Weighs 73 lb. (33 kg)
- Made in aluminium
- Foldable
- Adjustable anchor head from 5.5 to 6.3 ft. (1.68 to 1.92 m) (max height above the head) with a offset on the arm from 15¾ to 27¾ in. (400 to 700 mm) adjustable every 6 in. (15 cm).
- Can be fixed to the structure by four types of permanent adapters or combined with a temporary self-stabilising adapter:
 1. The wall mounted adapter allows the anchor adapter to be installed on the upper access points of a wall (T90DAVI-WMA).
 2. The clearance mural adapter has an offset of 11½ in. (291 mm) and allows the anchor to rotate freely when installed on a wall (T90DAVI-CMA).
 3. The mounted floor adapter is installed directly on any flat surface (T90DAVI-MFA).
 4. The flush floor adapter is fixed in a concrete slab by drilling a 5¾ in. (145 mm) hole (T90DAVI-FFA).
 5. The portable H self-stabilising adapter provides increased mobility for the device and can be installed on any flat surface (T90DAVI-PHB).



Davitrac+ with head anchor with two pulleys (DTP2000)

Head anchor with two pulleys



Davitrac+ (DTP2000) folded with portable H self-stabilizing adapter (T90DAVI-PHB)



1. Wall mounted adapter (T90DAVI-WMA)



2. Clearance mural adapter (T90DAVI-CMA)



3. Mounted floor adapter (T90DAVI-MFA)



4. Flush floor adapter (T90DAVI-FFA)



5. Portable H self-stabilizing adapter (T90DAVI-PHB)

Davimast

PPE anchor point or modular load lifting system

The Davimast anchor point can be used to secure up to two operators weighing 310 lb. (140 kg), or to lift a 500 lb. (225 kg) material load.

It is modular and its size makes it easy to transport in small construction vehicles and to handle.

The Davimast mast is made of aluminium with a PA 6 socket. It is equipped with a pin and safety pin connected to the mast by a steel cable.

The Davimast anchor point is designed for operators accessing confined spaces, such as silos, sewers or terraces to create a high anchor point.

The Davimast mast is an interface between the Davimast bases and Davimast brackets. It cannot be used alone.

There are three types of Davimast brackets:

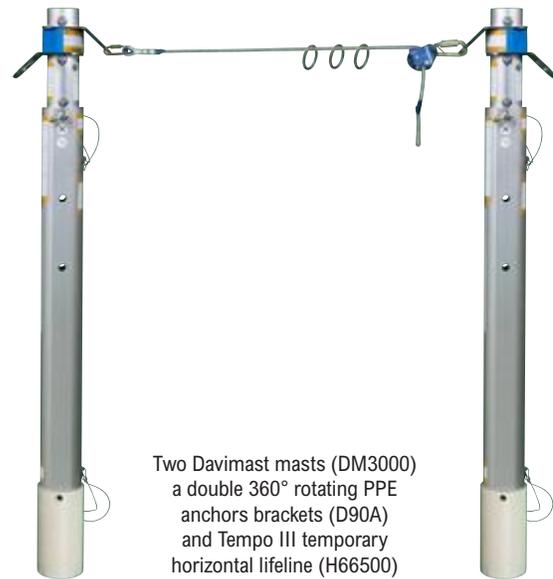
- the double PPE anchors bracket;
- the Blocfor bi-directional retrieval device;
- the work winch bracket.

APPLICATIONS

- Rescue
- Confined spaces
- Rope works
- Manholes
- Pits

FEATURES

- Made in aluminium
- Can be fixed to the structure by four types of permanent adapters or combined with a temporary self-stabilising adapter:
 1. The wall mounted adapter allows the anchor adapter to be installed on the upper access points of a wall (T90DAVI-WMA).
 2. The clearance mural adapter has an offset of 11½ in. (291 mm) and allows the anchor to rotate freely when installed on a wall (T90DAVI-CMA).
 3. The mounted floor adapter is installed directly on any flat surface (T90DAVI-MFA).
 4. The flush floor adapter is fixed in a concrete slab by drilling a 5¾ in. (145 mm) hole (T90DAVI-FFA).
 5. The portable H self-stabilising adapter provides increased mobility for the device and can be installed on any flat surface (T90DAVI-PHB).



Two Davimast masts (DM3000) a double 360° rotating PPE anchors brackets (D90A) and Tempo III temporary horizontal lifeline (H66500)



Davimast mast (DM3000) with a work winch bracket (M4032PB080KDM)

Davimast mast (DM3000) with a Blocfor bi-directional retrieval device bracket (T1T50GKDM)



1. Wall mounted adapter (T90DAVI-WMA)



2. Clearance mural adapter (T90DAVI-CMA)



3. Mounted floor adapter (T90DAVI-MFA)



4. Flush floor adapter (T90DAVI-FFA)



5. Portable H self-stabilizing adapter (T90DAVI-PHB)

Confined space systems

Accessing confined spaces involves a number of life-threatening hazards. These may include the possibility of a fall or the occurrence of being overcome by fumes or gases. Tractel's confined-space access and rescue systems are designed to provide a safe means of accessing a confined space area. In an emergency, confined-space systems allow the rescuers to retrieve the injured or unconscious workers without exposing themselves to similar potential hazards.

Height safety

Tripod systems



MODEL	DESCRIPTION	TRIPOD		BI-DIRECTIONAL RETRIEVAL		WINCH		RETRACTABLE DEVICE	
		T3S7	T1T50G	T1T100G	T2S50G	T2S100G	RT50G	RT100G	
T51F50G	Confined space system One – 50 ft. (15 m)	■	■	–	–	–	–	–	–
T51F100G	Confined space system One – 100 ft. (30 m)	■	–	■	–	–	–	–	–
T52F50G	Confined space system Two – 50 ft. (15 m)	■	■	–	■	–	–	–	–
T52F100G	Confined space system Two – 100 ft. (30 m)	■	–	■	–	■	–	–	–
T53F50G	Confined space system Three – 50 ft. (15 m)	■	–	–	■	–	■	–	–
T53F100G	Confined space system Three – 100 ft. (30 m)	■	–	–	–	■	–	–	■

All the above systems include required head pulleys, mounting brackets and carrying bags.

Tripods

STANDARD TRIPODS

- Telescopic aluminium tripod
- Minimum breaking strength: 5,000 lb. (22.2 kN)
- Two forged steel anchor eyes
- Includes leg-mounting bracket (T90B5)

T3F7 *(shown)*

- 7 ft. (2.1 m) tripod

T3F9

- 9 ft. (2.7 m) tripod



CARRYING BAG FOR TRIPOD

XB15105

- For up to 10 ft. (3 m) tripod
- 105 x 15 x 15 in. (267 x 38 x 38 cm)



XB15105

Blocfor

Bi-directional retrieval devices

While the retracting capability of the unit provides freedom of movement and fall protection, the device can be easily converted to a recovery device to rescue an injured or unconscious worker.

T1T50G

- Galvanized steel wire rope
- 50 ft. (15 m)
- Polyamide 6/ABS

T1T100G

- Galvanized steel wire rope
- 100 ft. (30 m)
- Cast aluminium

T1T50S

- Stainless steel wire rope
- 50 ft. (15 m)
- Polyamide 6/ABS

T1T100S

- Stainless steel wire rope
- 100 ft. (30 m)
- Cast aluminium



T1T50G

Accessories and equipment

For confined space systems

TRIPOD DEROPE UP R DESCENT DEVICE SYSTEMS

Equipped with a wheel winch and a tripod bracket that can be secured on a tripod leg to perform rescue operations in confined space environments.

KT7050/R

- 50 ft. (15 m) system

KT7100/R

- 100 ft. (30 m) system



Derope Up R

SPREADER BAR

T9YL2Z

- Web 2 ft. (0.6 m)



T9YL2Z

WORK WINCHES

- Galvanized steel wire rope lengths of 50, 100 or 200 ft. (15, 30 or 60 m)
- Tripod mounting bracket included

T2S50G

- 50 ft. (15 m) work winch

T2S100G

- 100 ft. (30 m) work winch

T2S200G

- 200 ft. (60 m) work winch

Work winch must be used with a backup fall-arrest system.



T2S100G

LEG-MOUNTING BRACKETS

T90B4

- For Blocfor retrieval device

T90B5

- Tripod leg-mounting bracket included with tripod



T90B4



T90B5

STEEL HEAD PULLEY

- Easy to install
- Pulley with sealed ball bearing
- Pulley supplied with carabiner

K3040102

- Steel head pulley

PM11Z

- 3/4 in. (20 mm) alloy steel carabiner



K3040102

Pulleys

S PULLEY (FIXED SIDE PLATES)

Technical rigging applications for light to medium loads and personnel. Ideal use within arboricultural climbing systems or guided descent evacuation.

K3040162

- Single sheave: 1 $\frac{1}{16}$ in. (27 mm)
- Breaking strength: 4,500 lb. (20 kN) direct
- Dimension: 3 $\frac{3}{16}$ x 2 $\frac{1}{8}$ in. (81 x 55 mm)
- Rope diameter: $\frac{3}{8}$ to $\frac{1}{2}$ in. (9 to 13 mm)
- Aluminium alloy
- Standard: EN 12278 (*Mountaineering equipment*)



M PULLEY (ROTATING SIDE PLATES)

Technical rigging applications for light to medium loads and personnel.

K3040102

- Single sheave: 2 $\frac{5}{16}$ in. (59 mm)
- Rotating side plates (inline positioning)
- Breaking strength: 6,300 lb. (28 kN) direct
- Dimension: 4 $\frac{11}{16}$ x 3 $\frac{3}{16}$ in. (119 x 82 mm)
- Rope diameter: $\frac{5}{16}$ to $\frac{5}{8}$ in. (8.4 to 16 mm)
- Aluminium alloy
- Standard: EN 12278 (*Mountaineering equipment*)



DOUBLE PULLEY (ROTATING SIDE PLATES)

Technical short hoist pulley systems for medium loads and personnel.

K3040112

- Rotating side plates (inline positioning)
- Breaking strength: 5,400 lb. (24 kN) direct
- Dimension: 5 $\frac{5}{8}$ x 3 $\frac{3}{16}$ in. (144 x 82 mm)
- Rope diameter: $\frac{5}{16}$ to $\frac{5}{8}$ in. (8.4 to 16 mm)
- Aluminium alloy
- Standard: EN 12278 (*Mountaineering equipment*)



Tempo III

Temporary horizontal kernmantle lifeline

The Tempo III temporary horizontal lifeline was designed to be used by a maximum of three persons. It provides a simple and lightweight solution to temporary horizontal fall-arrest applications. It can be adjusted from 3 to 60 ft. (1 to 18 m).

BENEFITS

- Kernmantle rope of ½ in. (12.5 mm) which can be adjusted from 3 to 60 ft. (1 to 18 m) between two anchorage points
- Allows safe access to horizontal locations
- Compact, light and easy to carry with storage bag

FEATURES

- Tempo III rope adjuster with integral carabiner
- 60 ft. (18 m) of ½ in. (12.5 mm) Kernmantle rope
- Two 6 ft. (1.8 m) endless slings (V41326)
- One carabiner (PM11Z)
- Three travel O-rings (47700)
- Storage bag (XB0820)

H66500

- Tempo III rope adjuster with integral carabiner



Stanchion

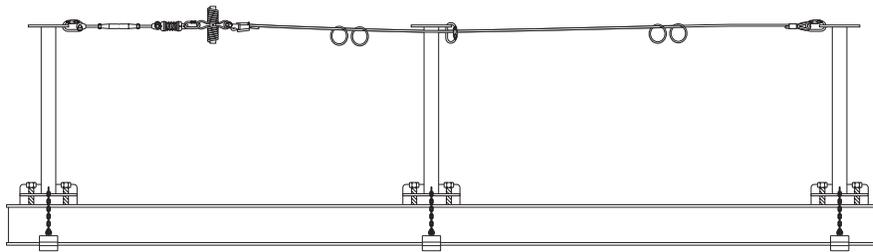
Temporary post

FEATURES

- Lightweight and portable
- Installs quickly
- Can be used on perimeter of building
- Two-person tie off, up to 60 ft. (18.3 m)
- Mounts at a 19° angle from the base, out of the way of workers walking steel
- Attaches to beam with top mounted bolts and safety chain
- No drilling or welding
- No web straps to deteriorate
- No ratchets to break or threaded rods to lose
- No tie-back cables or loose pieces
- Can be used as intermediate or end stanchion

H8100

- Single stanchion



TRAVSPRING TEMPORARY KITS FOR STANCHION POSTS *(shown)*

System for up to two users

- Connectors (PM11Z)
- Turnbuckle tensioner
- Tension indicator
- INRS energy absorber
- Wedge socket
- O-rings
- Wire rope

HK-SPG2-60

- 60 ft. (18 m) system

HK-SPG2-100

- 100 ft. (30 m) system

HK-SPG2-150

- 150 ft. (45 m) system

HK-SPG2-200

- 200 ft. (60 m) system

HK-SPG2-250

- 250 ft. (75 m) system

HK-SPG2-300

- 300 ft. (90 m) system

See components' details on page 81.

TRAVSMART KITS FOR STANCHION POSTS

System for up to two users

- Cable assembly
- INRS energy absorbers
- Tension indicator
- Turnbuckle

HK-SMG2-100

- 100 ft. (30 m) system

HK-SMG2-150

- 150 ft. (45 m) system

HK-SMG2-200

- 200 ft. (60 m) system

HK-SMG2-250

- 250 ft. (75 m) system

HK-SMG2-300

- 300 ft. (90 m) system

See components' details on page 78.

* Travsmart traveler and carabiner available separately.

The number of stanchion posts varies according to length of the system and must be purchased separately.

Travsmart

Permanent single-cable horizontal lifeline system

The Travsmart is a single-line system that provides a smooth continuous travel along the entire length of the lifeline. It allows the traveler to move freely over the intermediate anchors, minimizing wear and eliminating user assistance. The user's hands remain free to accomplish whatever task is required. Every user must wear shock absorbing lanyard with maximum arrest force of 900 lb. (4 kN).

The Travsmart is a permanent horizontal lifeline system that is easy to install and can allow up to three users for multiple span and two users for single span systems. It is a hands free system that does not require special tools to install. The system comes with a visual tension indicator and an in-line energy absorber.

Travsmart shall be designed by a qualified person, professional engineer, as part of a complete personal fall arrest system. It can then be installed by any user.

BENEFITS

- Permanently installed
- The system length is unlimited and can go around corners
- Maximum spacing between anchor points is 50 ft. (15 m)
- Up to three users on one system
- Easy to install with common tools

FEATURES

- The Travsmart traveler ensures smooth hands free travel over anchors and around corners
- The system can be secured to walls, overhead, under an inclined surface, on ground and on posts
- Comes with a tension indicator and tensioner
- Lightweight components
- Can be used for fall arrest or fall restraint

APPLICATIONS

- Building maintenance (rooftops without guardrails or parapets)
- Aircraft hangers (overhead systems to service the top of the fuselage and wings)
- Bridges and viaducts
- Oil and gas installations
- Distribution facilities
- Overhead cranes
- Industrial plants

TRAVSMART KITS FOR UP TO TWO USERS

- Stainless steel cable assembly
- INRS energy absorbers
- Tension indicator
- Turnbuckle
- Two end anchors

JK-SMSEA3-60

- 60 ft. (18 m)



TRAVSMART KITS FOR UP TO THREE USERS

- Stainless steel cable assembly
- Two INRS energy absorbers
- Tension indicator
- Turnbuckle
- Two end anchors

JK-SMSEA3-100

- 100 ft. (30 m)
- 1 intermediate anchor

JK-SMSEA3-150

- 150 ft. (45 m)
- 2 intermediate anchors

JK-SMSEA3-200

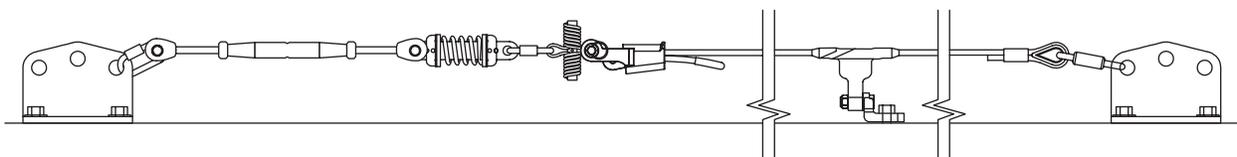
- 200 ft. (60 m)
- 3 intermediate anchors

JK-SMSEA3-250

- 250 ft. (75 m)
- 4 intermediate anchors

JK-SMSEA3-300

- 300 ft. (90 m)
- 5 intermediate anchors



Travsmart

Permanent single-cable horizontal lifeline system



END ANCHOR

J30193897

- Stainless steel
- 6.7 x 5 x 2.2 in. (170 x 126 x 55 mm)



TURNBUCKLE

J3640742

- Stainless steel



TENSION INDICATOR

J3666858

- Stainless steel



INRS ENERGY ABSORBER

J3666688

- Supplied with quick link
- Stainless steel



STANDARD INTERMEDIATE ANCHOR

J30193847

- For installation on ground, on wall and on post
- Cupro aluminium and stainless steel



UNDER-CEILING INTERMEDIATE ANCHOR

J30193857

- For installation underside
- Cupro aluminium and stainless steel



END ANCHOR FOR POSTS

J3666698

- Stainless steel
- 4 in. (100 mm) long
- Two holes for 1/2 in. (12 mm) fasteners



WEDGE SOCKET

J30193837

- Cupro aluminium and stainless steel



STANDARD CORNER KIT

J30193867

- For installation on ground, on wall and on post
- Cupro aluminium and stainless steel



OVERHEAD CORNER KIT

J30193877

- For installation underside
- Cupro aluminium and stainless steel



CORNER PLATE

J30193887

- Stainless steel
- 11 in. (280 mm) long
- Three holes for 1/2 in. (12 mm) fasteners



TRAVELER

J30251349

- Opening-type mobile anchor point which slides on the Travsmart lifeline cable.



www.tractel.com

Travflex 2

Permanent single-cable HLL system for light rooftop structures



The Travflex 2 has been specially designed for sheet metal or concrete roofs. It is a hands-free system that does not require special tools for installation. The system comes with a visual tension indicator and an in-line INRS energy absorber. It provides a smooth travel and allows the traveler to move freely over the intermediate anchors, minimizing wear and eliminating user assistance. The user's hands remain free to accomplish whatever task is required.

BENEFITS

- Installation on rooftops and walls
- Roof steel panels do not distort after stopping a fall
- Traveler passes over intermediate and corner anchors with no manual manipulation
- User can work on either side of lifeline
- Eliminates risk of wire-cable clips loosening and slipping
- End and corner anchors have additional anchor points

FEATURES

- Controlled linear force with specially designed anchor brackets and plates
- Two INRS energy absorbers
- Uses watertight, silicone rivets with neoprene seals
- Hands-free design with better ergonomics
- Wedge socket cable adjustment system
- Copper-aluminium anchors prevent fusing of the wire rope and allow the rope to slide through anchors effectively
- No need to dismantle the entire lifeline in the event of a fall, individual components can be replaced.
- Up to 50 ft. (15 m) spans between brackets

APPLICATIONS

- Building maintenance (rooftops without guardrails or parapets)
- Oil and gas installations
- Distribution facilities
- Industrial plants
- Rooftops or enclosures in concrete or metal panels
- Flat or sloped surfaces up to 15° inclination (only straight-line installation is available for wall-mount applications.)

END ANCHOR

J30100378

- Galvanized steel

J30100388

- Stainless steel



INRS ENERGY ABSORBER

J3666688

- Supplied with quick link
- Stainless steel



CORNER KITS

J30100408

- Galvanized steel

J30100418

- Stainless steel

J30100618

- For concrete
- Stainless steel



TURNBUCKLE

J3640742

- Stainless steel



INTERMEDIATE SUPPORT

J30100398

- One every 50 ft. (15 m) apart
- Aluminum-bronze (anchor) and stainless steel (hardware)



CABLE

J37009000

- 5/16 in. (8.4 mm) diameter
- Galvanized steel

J37009000S

- 5/16 in. (8.4 mm) diameter
- Stainless steel



TENSION INDICATOR

J3666858

- Stainless steel



WEDGE SOCKET

J30193837

- Cupro aluminum and stainless steel



UNIVERSAL PLATE

J30207788

- Galvanized steel

J30206888

- Stainless steel

J30206878

- For curve
- Galvanized steel



Travspring

Horizontal lifeline system



The Travspring horizontal lifeline provides an economical solution for your fall protection needs. All components can be installed using common tools and the system can be used both in a temporary environment or can be installed permanently. The Travspring is a proximity system meaning that the user must manipulate the lanyard to traverse through anchor points.

Travspring shall be designed by a qualified person, professional engineer, as part of a complete personal fall arrest system. It can then be installed by any user.

FEATURES

- Up to three users for multiple span and two users for single span systems.
- Intermediate anchors every 50 ft. (15 m)
- Easy to install, no special tools required
- Visible in-line tension indicator
- Single line wire rope available in stainless steel (optional galvanized wire rope)
- Unlimited system length
- Meets all OSHA, ANSI and CSA standards

APPLICATIONS

- Roof tops without guard rails or high parapets
- Bridges and viaducts
- Overhead cranes
- Construction sites without parapets

TRAVSPRING KITS

- Connectors (PM11Z)
- Turnbuckle tensioner
- Tension indicator
- Two INRS energy absorbers
- Wedge socket
- O-rings
- Wire rope

JK-SPSEA3-100

- 100 ft. (30 m)
- 1 intermediate anchor

JK-SPSEA3-150

- 150 ft. (45 m)
- 2 intermediate anchors

JK-SPSEA3-200

- 200 ft. (60 m)
- 3 intermediate anchors

JK-SPSEA3-250

- 250 ft. (75 m)
- 4 intermediate anchors

JK-SPSEA3-300

- 300 ft. (90 m)
- 5 intermediate anchors

The number of stanchion posts varies according to length of the system and must be purchased separately.

END ANCHOR

J3666848

- Stainless steel



TENSION INDICATOR

J3666858

- Stainless steel



INRS ENERGY ABSORBER

J3666688

- Supplied with quick link
- Stainless steel



TURNBUCKLE

J3640742

- Stainless steel



INTERMEDIATE SUPPORT

J3666868

- One every 50 ft. (15 m) apart
- Stainless steel



WEDGE SOCKET

J30193837

- Cupro aluminium and stainless steel



CORNER KIT

J3666878

- Includes two turning point anchors and a guide tube
- Stainless steel



PULLEY FOR CORNERS

J368948

- Direct the cable from 0° to 160°
- Stainless steel and copper-aluminium/aluminium



CABLE

J37009000

- 5/16 in. (8.4 mm) diameter
- Galvanized steel

J37009000S

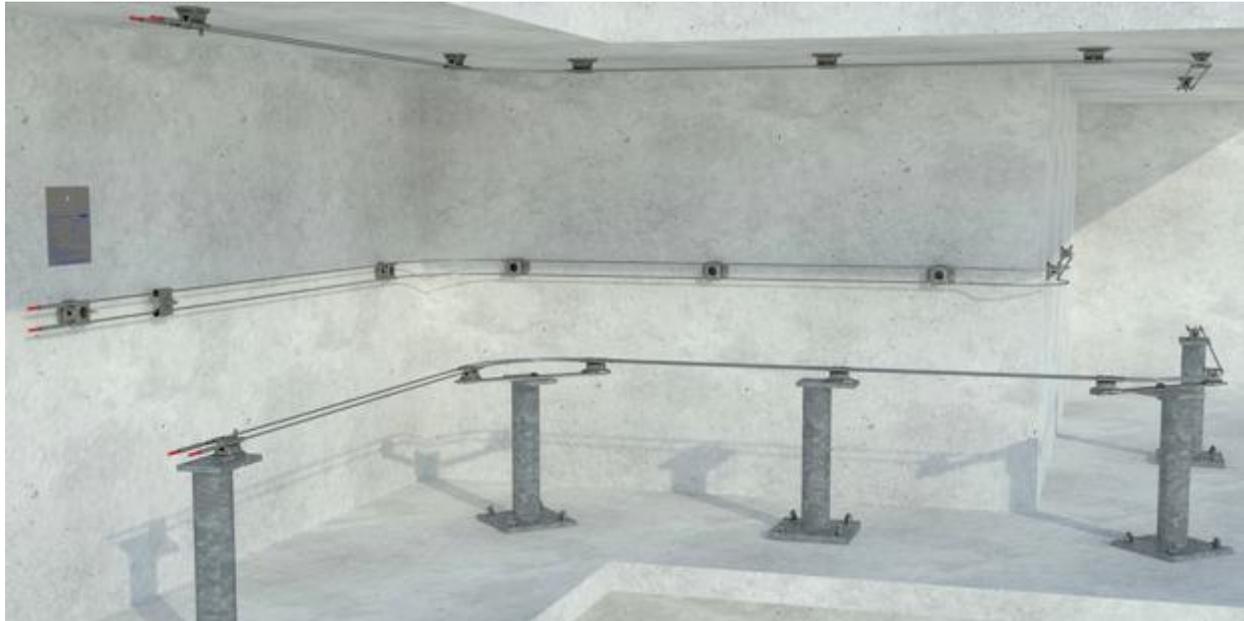
- 5/16 in. (8.4 mm) diameter
- Stainless steel



www.tractel.com

Travsafe

Permanent horizontal lifeline system



The Travsafe horizontal lifeline system provides a permanent engineered solution for fall protection needs. These permanent systems are designed and installed by Tractel certified representatives and have custom designed solutions to meet the site-specific requirements. Travsafe is a hands-free system that allows up to three users (maximum, if conditions allow) simultaneously. The system can be designed to allow unhindered travel for unlimited distances with out the need to disconnect and reconnect at the intermediate anchors. Every user must wear shock absorbing lanyard with maximum arrest force of 900 lb. (4 kN).

The Travsafe twin wire rope horizontal lifeline system provides smoother travel compared to single line systems. The twin wire ropes allow the traveller to sit true and move freely over the intermediate anchors, minimizing wear and eliminating user assistance. The user's hands remain free to accomplish whatever task is required.

FEATURES

- Up to three users
- The twin lines ensure smooth hands-free travel over anchors and around corners
- When a fall occurs, the traveller's jaws close tightly around the wires
- The Travsafe system contains relatively few components when compared to other systems
- The system can be supplied with stainless steel anchors and stainless steel or galvanized wire rope
- The system can be secured to walls, floors or ceilings
- The system has a large tolerance for curves
- Anchors can be offset and travel remains smooth
- When properly designed and installed, the system meets all OSHA, ANSI and CSA requirements

APPLICATIONS

- Roof tops without guardrails or high parapets
- Aircraft hangers to allow airplane service
- Bridges and viaducts
- Overhead cranes
- Catwalks without sides
- Arena rafters

STAINLESS STEEL ANCHORS



End anchor



Intermediate anchor

TRAVELLERS

The travellers have minimal moving parts and are made out of stainless steel. They move effortlessly over the anchors and around corners. The regular traveller fits onto the system at the end anchors. The removable traveller can be installed at any point along the system. The rollsafe traveller is used in overhead applications.



Regular



Removable



rollsafe

Dynaplug HF 44

Structural anchoring strength measuring tool

The Dynaplug is an electronic sensor used for static rupture resistance test of structural anchors and anchoring devices. Used in the testing of anchor points of safety lifelines.

FEATURES

- Accuracy: <1% of nominal capacity
- Operating temperature from -4 to 140°F (-20 to 60°C)
- Power supply: three 1.5 V "AA" batteries
- Delivered with a set of casings compatible with the most current anchors (Ø10, Ø12, Ø14 and Ø16 mm) and a cover adapted to the Tractel anchors points. Other casings on request.
- Automatic sequence of 15 seconds test to 1,000 lb. (500 kg)
- Automatic sequence of 3 minutes test to 2,000 lb. (1,000 kg)

HF 44/2 MODEL

190038

- Capacity: 5,000 lb. (2,500 kg)
- Weight: 11.5 lb. (5.2 kg)

HF 44/3 MODEL

190048

- Capacity: 10,000 lb. (5,000 kg)
- Weight: 25.4 lb. (11.5 kg)



Dynaline HF 45

Lifeline tension dynamometer

The Dynaline HF 45/1/LPT is an electronic apparatus designed to indicate tension on lifeline cables.

FEATURES

- Accuracy: $\pm 2\%$ of nominal capacity
- Capacity range from 100 to 1,200 lb. (50 to 600 kg)
- Wire rope diameter: $\frac{5}{16}$ – $\frac{1}{2}$ in. (8.4–12 mm)
- Minimum display 100 lb.(50 kg)
- Increment: 2 lb.(1 kg)
- Operating temperature from 23°F to 122°F (-5°C to 50°C)
- Power supply: three 1.5 V "AA" batteries, up to 200 hours
- Protection: IP 65 (NEMA 4)

HF 45/1/LPT MODEL

187998

- Weight: 4.9 lb. (2.2 kg)



Tie-back anchors



U-BAR ROOF-MOUNTED ANCHOR

The standard U-bar safety tie-back anchors are the economical solution for securing safety lifelines or equipment lines for fall protection and suspended work.



WALL-MOUNTED ANCHOR

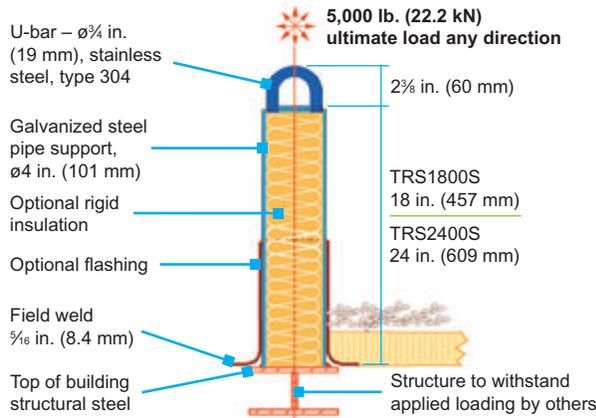
When tie-backs are required on roofs where waterproofing or flashing is not an option, Tractel's wall-mounted U-bar tie-back anchors provide a simple, inexpensive solution.



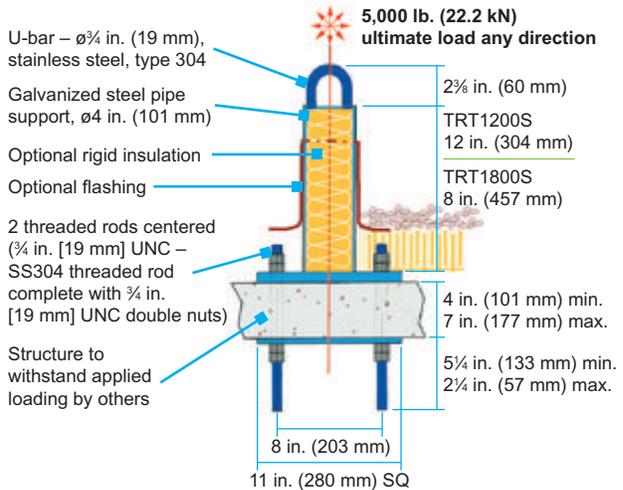
FLUSH-MOUNTED ROOF ANCHOR

An ideal solution when no protrusions on the roof are permissible.

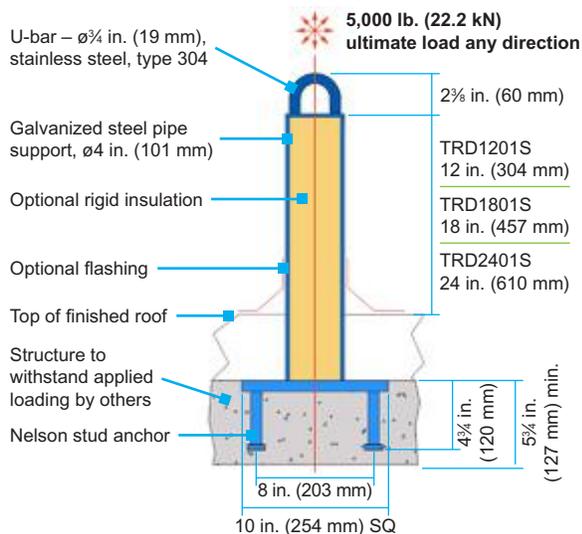
TRS1800S AND TRS2400S MODELS



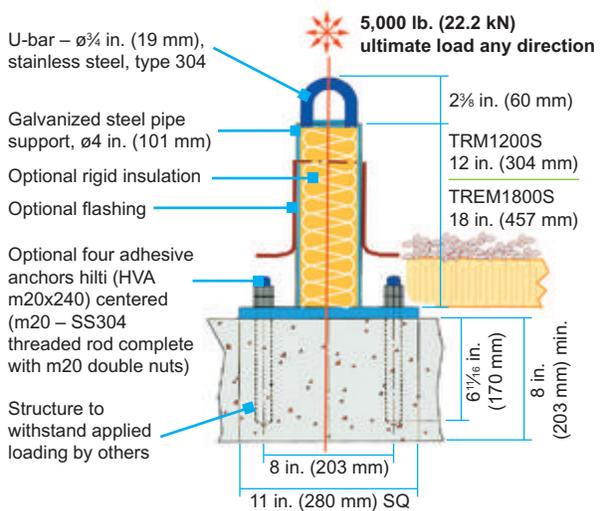
TRT1200S AND TRT1800S MODELS



TRD1201S, TRD1801S AND TRD2401S MODELS



TRM1200S AND TRM1800S MODELS



Tie-backs form a system that must be engineered and designed. Different models available. Please contact us for more information.

Stopcable

Ladder safety systems

The Stopcable ladder safety system is a wire rope type permanent fall protection system for climbing fixed ladders or vertical structures.

The system consists of galvanized top and bottom brackets, galvanized steel cable, a turnbuckle and a stainless steel fall arrester (sold separately). Brackets are designed for ladder rungs but can be easily adapted to most structures. A $\frac{3}{8}$ in. (9.5 mm) steel cable is tensioned and contained approximately every 25 ft. (7.5 m) by cable guides which are designed to minimize cable vibration and slack.

A stainless steel fall arrester with internal spring-loaded cam can be attached or removed from the cable at any point. It is secured with a compatible carabiner, supplied with the fall arrester, to the frontal attachment point on any approved ladder climbing harness.

The user is free to climb and descend with full use of the hands. In the event of a fall, the fall arrester will quickly lock on the cable and arrest the fall. Free fall distance is minimized by a close coupled assembly. An uninjured worker can quickly recover and climb down the structure to safety with complete protection.

FEATURES

- Adjustable on most permanent ladders
- No special tools required for installation
- Includes:
 - $\frac{3}{8}$ in. (9.5 mm) wire rope
 - Wire rope adjuster
 - Upper and lower brackets

STOPCABLE WITH GALVANIZED STEEL WIRE ROPE*

L1T820/1

- 20 ft. (6 m)

L1T8600/1

- 600 ft. (180 m)

STOPCABLE WITH STAINLESS STEEL WIRE ROPE*

L1T820S/1

- 20 ft. (6 m)

L1T8600S/1

- 600 ft. (180 m)

DETACHABLE TRAVELER FOR STOPCABLE LADDER SAFETY SYSTEMS

Sold separately from the ladder safety systems.

LT38E

- $\frac{3}{8}$ in. (9.5 mm) wire rope diameter
- Attached energy absorber



* Other lengths available from 20 to 600 ft. (6 to 180 m) in multiples of 10 ft. (3 m).
Note: System does not include ladder.



Mobile fall restraint anchor point

The Mobile Fall Restraint Anchor Point is a freestanding safety solution specifically designed to provide worker safety at heights on flat roofs. The non-penetrating design features a swivel and pivoting attachment ring and a durable, corrosion-resistant safety yellow powder coat for high visibility. This simple-to-assemble anchor installs easily with no tools and no drilling required, keeping your work surfaces uncompromised while maintaining a safe environment for your employees.

- Non-penetrating mobile safety solution for fall restraint
- Prevents worker from reaching fall hazard
- Swivel and pivoting attachment ring, 360° swivel and 180 pivot
- Durable and corrosion resistant safety yellow powder coat for high visibility
- Works on the following “dry” flat roofs: EPDM, TPO, PVC, Fibertite, asphalt, and concrete
- Maximum roof slope 4°
- Rated for one worker up to 310 lb. (140 kg) with equipment
- No tools required for assembly. Tractel recommends EZ-Mover for bases and center plate
- Meets ANSI and OSHA requirements



SafetyRail 2000

rooftop fall protection guardrail

The SafetyRail 2000 is a non-penetrating, passive fall protection system for workplace safety in rooftop or ground level applications. Used as a portable or permanent solution, the SafetyRail 2000's unique design eliminates the cost and danger of potential trip hazards created by intermediate counterweights used in other guardrail systems.

- Portable or permanent
- Easy installation
- Custom engineering for special requirements
- OSHA compliant

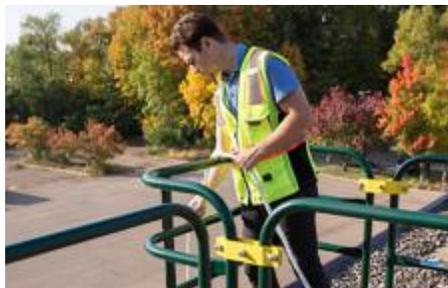


SafetyRail 2000 ParaRail

parapet safety extension guardrail

The ParaRail provides fall protection that still allows access to a leading edge of a flat roof or parapet. This portable, economical solution can be placed in infinite positions, making it perfect for a variety of tasks, including security camera, antenna, light maintenance, drain cleaning, and the hoisting of tools and materials. The ParaRail is made of durable steel and cast iron, and with no drilling required it can be a temporary or permanent solution that protects your employees no matter what the job entails.

- Portable or permanent
- Easy installation
- Durable 1½ in. (25 mm) steel rails
- Sturdy 108 lb (49 kg) cast iron bases
- OSHA compliant



SafetyRail 2000 Fiberglass

The SafetyRail 2000 Fiberglass is a patent-pending design. Ideal for workplace safety and fall protection when telecommunications equipment is present and can't have RF interference by metal rail systems. Made from a durable, polyester, fire-retardant, UV inhibited and a UV coated material. This non-penetrating, RF-transparent guardrail can be used as a portable or permanent fall protection system.

- Portable or permanent
- Custom engineering
- Easy installation
- Rails positioned in infinite directions
- OSHA compliant



SafetyRail 2000 StealthRail

Collapsible and portable safety rail

The StealthRail is a collapsible, portable, non-penetrating safety rail system that provides clean site lines. This effective access control solution preserves the architectural integrity of your building while offering OSHA-compliant passive fall protection around the perimeter.

- Folds out of sight when not in use
- Easy installation rails positioned in infinite directions
- OSHA compliant



Architectural rooftop guardrail

Rooftop fall protection guardrail

The Architectural Series combines our non-penetrating guardrail system with an architectural appeal. Featuring a visually pleasing sightline, this series can enhance the overall appearance of your building while maintaining an OSHA-compliant fall protection barrier around your roof edge. Ideal for new building construction, adding to existing buildings, or as an addition to existing guardrails.

- Portable or permanent
- Easy installation
- Custom engineering for special requirements
- OSHA compliant



Standing seam metal roof guardrail

Safety guardrail system

The Standing Seam Metal Roof Guardrail is designed specifically for use with standing seam metal roofs. The durable galvanized base plate is designed to fit various types of standing seam roofs, providing optimal protection to your employees when it comes to roof edges and ladder openings. This system is also easily incorporated with Tractel's SafetyRail 2000, the Architectural Series guardrail, and the PermaLine warning line system for complete OSHA-compliant worker protection you can trust.

- Protects workers
- Easy installation
- Fits various standing seam roofs
- Fastens easily
- OSHA compliant



Permaline

Rooftop warning line system

The PermaLine is a permanent, OSHA-compliant warning line system that remains intact until you want to move it. The powder-coated metal flags are adhered to a vinyl-coated aircraft cable, allowing the flags to pivot and reduce wind resistance. The cost-effective design won't tear or wear out, eliminating the need for replacement, and since no drilling is required, the integrity of your roof remains undamaged. Protect your employees with this highly visible warning barrier.

- Non-penetrating system
- Permanent system
- Exceeds OSHA requirements



SafetyRail 2000 base transports

EZ MOVER

The EZ Mover is designed for use with counterweight bases. Attaching to the lifting hook at the center of the base, the EZ Mover allows one person to easily raise, transport and position the base to the desired location.

- Puncture-free tires
- Light weight steel square tubing



SAFETY RAIL CART

The Safety Rail Cart was designed to make transporting the SafetyRail 2000 portable guardrail system safer and easier. It can conveniently store up to 120 linear feet (36.5 m) of railings (100 ft. [30 m] usable) for an easy move from point A to point B on your work site.

- Easy to move
- Stores up to 120 linear feet (36.5 m) of railings



Ladder Defender

Ladder safety roof guardrails

The Ladder Defender features a unique, non-penetrating design and ensures safe and easy passage to and from your rooftop. Made with proprietary connector brackets that can attach to three different ladder frame styles, Ladder Defender always installs quickly and is highly effective.

- Easy installation
- Non-penetrating design
- Custom colours
- GuardDog self-closing gate available
- OSHA compliant



Skylight Defender

Skylight protection system

The Skylight Defender is specifically designed to protect against injuries and deaths around skylight openings. The non-penetrating design is available in customizable sizes and features a unique compression attachment system. It installs in minutes and since there is no drilling required, you'll keep your surfaces uncompromised while maintaining a safe work environment for your employees.

- No drilling
- Easy installation
- Customizable sizes
- Constructed of ¼ in. (6.4 mm) diameter 4 x 4 in. (101.6 x 101.6 mm) galvanized
- Exceeds OSHA requirements



Hatch Defender

Fall protection safety guardrails

The Hatch Defender is a non-penetrating fall protection solution designed specifically for rooftop hatches. Featuring a unique compression attachment system, the Hatch Defender installs easily in minutes without any drilling required and can be dismantled just as easily for rooftop repairs.

- No drilling
- Easy assembly
- Fits nonstandard hatch sizes
- Safe ingress and egress
- OSHA compliant



GuardDog

Self-closing industrial safety gates

The GuardDog is a tough, durable self-closing gate that's easy to install. Featuring two stainless steel torsion springs, the unique design allows it to open in any direction. The GuardDog comes fully assembled and with all the necessary hardware, and the universal mount is designed to fit any hand post angle and direction. Dimensioned to match the top and mid-rail heights of an OSHA-compliant guardrail, the GuardDog is the ideal protection for ladder ways, mezzanines, pedestrian traffic, and machine guarding.

- Fully assembled
- Easy installation
- Fits round pipe or square tubing
- OSHA compliant



Flatbed Trailer Safety Rail

The Flatbed Trailer Safety Rail is a passive fall protection system for reducing fall risks on elevated flatbed trailers. The durable design is easy-to-install and protects workers, drivers and other staff from potentially dangerous falls during the loading and unloading process.

FEATURES

- Easy installation
- Vertical access ladder and adjustable safety gate included with each kit
- Custom engineering for special requirements
- OSHA-compliant



Access ladder and adjustable safety gate



A-series safety gate

The original self-closing safety gate

The A-Series Safety Gates is available in carbon steel, as well as aluminium and stainless steel for special applications/environments. Finishes include galvanized and environmentally friendly safety yellow powder-coated.

FEATURES

- Easy to install
- Stainless steel spring
- Positive stop
- Variety of finishes
- Fits on all handrails
- Mounts left or right
- 12 in. (30 cm) vertical coverage
- Clamp on mount
- Available in lengths from 17–18.5 in. to 37–39.5 in. (43.2–47 cm to 94–100.3 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat
 - 6061-T6 aluminium
 - 316L stainless steel



XL-series safety gate

Extended coverage self-closing safety gate

The XL-Series Safety Gates is available in carbon steel, as well as aluminium and stainless steel for special applications/environments. Finishes include galvanized and environmentally-friendly safety yellow powder coat.

FEATURES

- Easy to install
- Stainless steel spring
- Positive stop
- Variety of finishes
- Fits on all handrails
- Mounts left or right
- 22 in. (55 cm) vertical coverage
- Clamp on mount
- Optional sign kit and safety labels
- Available in lengths from 17–18.5 in. to 37–39.5 in. (43.2–47 cm to 94–100.3 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat
 - 6061-T6 aluminium
 - 316L stainless steel



Custom safety gates for wider openings or unusual handrail configurations also available.

R-series safety gate

Standard bolt-on safety gate

The R-Series Safety Gates is available in carbon steel. Finishes include galvanized and environmentally friendly safety yellow powder coat. Aluminium and stainless steel available.

FEATURES

- Easy to install
- Stainless steel spring
- Positive stop
- Variety of finishes
- The alternative to plastic gates
- 12 in. (30 cm) vertical coverage
- Mounts left or right
- Bolt-on mount
- Optional mounting receiver stop plate
- Available in lengths from 17–18.5 in. to 37–39.5 in. (43.2–47 cm to 94–100.3 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat



RX-series safety gate

Standard bolt-on safety gate

The RX-Series Standard Bolt-On Safety Gate is an effective and easy-to-install solution for stairway gates and access control gates. Featuring a highly durable, stainless steel spring, the RX-Series has greater height and extra bars to ensure near-continuous protection from leading edge falls.

FEATURES

- Installs in minutes
- Durable stainless steel spring
- Fits on all handrails
- Competitively priced
- OSHA compliant
- Available in lengths from 48.3–54.6 cm to 86.4–92.7 cm (19–21.5 in. to 34–36.5 in.)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat
 - A36 carbon Steel with safety yellow enamel



Custom safety gates for wider openings or unusual handrail configurations also available.

Z-series safety gate

Safety gate for new constructions

The Z-Series Safety Gates is available in carbon steel. Finishes include galvanized and environmentally friendly safety yellow powder coat. Aluminium and stainless steel available.

FEATURES

- Easy to install
- Stainless steel spring
- Positive stop
- Variety of finishes
- Fits on all handrails
- Mounts left or right
- 22 in. (55 cm) vertical coverage
- Bolt-on mount
- Optional stop plate
- Optional mounting regular plate
- Available in lengths from 19–21.5 in. to 37–39.5 in. (48.3–54.6 cm to 94–100.3 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat



ZT-series safety gate

Safety gate for new constructions

The ZT-Series Safety Gate features our full coverage safety gates, which provide 40 in. (1 m) of coverage, from the top rail to the floor. Designed specifically for industrial and commercial settings, the ZT-Series has greater height, extra bars, and a durable, custom-made stainless steel spring that automatically closes the gate after each passage to ensure near-continuous protection.

FEATURES

- Installs in minutes
- Fits on all handrails
- Durable stainless steel spring
- Positive stop
- Exceeds OSHA requirements to ensure safety
- Available in lengths from 22–24.5 in. to 37–39.5 in. (55.9–62.2 cm (94–100.3 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat
 - A36 carbon Steel with safety yellow enamel



Custom safety gates for wider openings or unusual handrail configurations also available.

G-series safety gate

Universal hinge mount safety gate

The G-Series Safety Gates is available in carbon steel and stainless steel for special applications/environments. Finishes include galvanized and environmentally friendly safety yellow powder coat. Requires a striking post to close.

FEATURES

- Easy to Install
- Stainless steel springs
- Fits various railing sizes and shapes
- 6 in. (15 cm) lateral adjustment
- Mounts left or right
- Available in lengths from 18–24 in. to 42–48 in. (45.7–61 cm to 106.7–121.9 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat
 - 316L stainless steel



MZ-series safety gate

Mezzanine-pivot safety gate

The MZ-Series Mezzanine-Pivot Safety Gate protects employees in elevated mezzanine loading areas. Its counterbalanced gates ensure that one gate is always between your employees and the edge of the platform.

The MZ-Series Mezzanine-Pivot Safety Gate is available in single or double pallet widths, breaks down for shipping efficiency and assembles easily with basic tools.

FEATURES

- Easy to Install
- Available to fit two openings:
 - 64 in. (162.6 cm)
 - 113 in. (287 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat
- Meets or exceeds OSHA requirements



Custom safety gates for wider openings or unusual handrail configurations also available.

CH-series safety gate

Mezzanine clear height safety gate

The CH-Series Mezzanine Clear Height Safety Gate protects employees in elevated mezzanine loading areas with no height restrictions to accommodate tall loads. Its counterbalanced gates ensure that one gate is always between your employees and the leading edge, allowing you to load and unload material while keeping your employees safe.

FEATURES

- Easy to Install
- Fits opening of 64 in. (162.6 cm)
- Maximum open height: 86.77 in. (220.4 cm)
- A36 carbon steel with safety yellow powder coat
- Meets or exceeds OSHA requirements



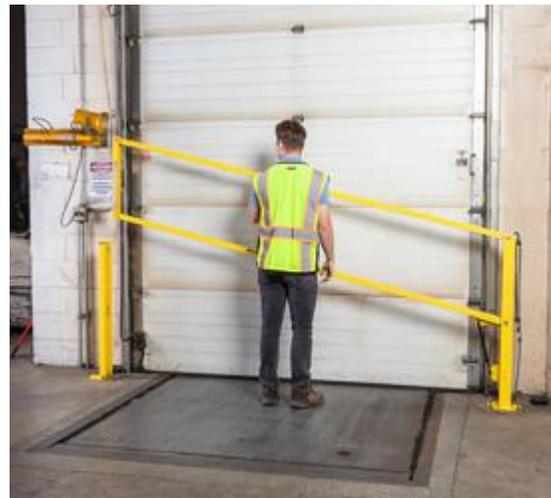
DG-series safety gate

Dock gate

The DG-Series Dock Gate provides protection against falls from loading docks. Custom gas struts make the vertical gate easy to open, and tapered guides on the receiver post make for easy alignment when closing.

FEATURES

- Available to fit two openings:
 - 8 ft. (2.4 m) with a maximum open height of 12 ft. 8½ in. (3.88 m)
 - 10 ft. (3 m) with a maximum open height of 14 ft. 8½ in. (4.48 m)
- A36 carbon steel with safety yellow powder coat
- Also available in stainless steel by special order
- Meets or exceeds OSHA requirements



Custom safety gates for wider openings or unusual handrail configurations also available.

VG-series safety gate

Vertical lift gate

The VG-Series Vertical Lift Safety Gate provides protection in areas that do not have adequate swing clearance. Applications include staircase, ladder, and platform openings.

FEATURES

- The ideal solution for confined spaces.
- Available to fit two openings:
 - 4 ft. (1.2 m) with a maximum open height of 5 ft. 11¼ in. (1.81 m)
 - 6 ft. (1.8 m) with a maximum open height of 7 ft. 11¼ in. (2.42 m)
- A36 carbon steel with safety yellow powder coat
- Meets or exceeds OSHA requirements



DVG-series safety gate

Dual vertical lift gate

The DVG-Series Dual Vertical Lift Gate provides wide coverage against falls while maintaining a height clearance. Gas struts make for easy operation and the gate is perfect for loading docks, mezzanines, or any large coverage areas. Locking feature provides safety from any push or pull resistance while exceeding 200 lb. (90 kg) of protection.

FEATURES

- Easy to install using basic tools
- Takes up minimal space
- Available to fit three openings:
 - 8 ft. (2.4 m) with a maximum open height of 8 ft. 4 in. (2.54 m)
 - 10 ft. (3 m) with a maximum open height of 9 ft. 4 in. (2.84 m)
 - 12 ft. (3.7 m) with a maximum open height of 10 ft. 4 in. (3.15 m)
- A36 carbon steel with safety yellow powder coat
- Meets or exceeds OSHA requirements



Custom safety gates for wider openings or unusual handrail configurations also available.

Toeboard kit

Optional clamp-on extension for XL, RX and Z-series gates

The Toeboard Kit provides continued handrail/toeboard protection across the ladderway opening and is available in carbon steel. Finishes include galvanized and environmentally friendly safety yellow powder coat.

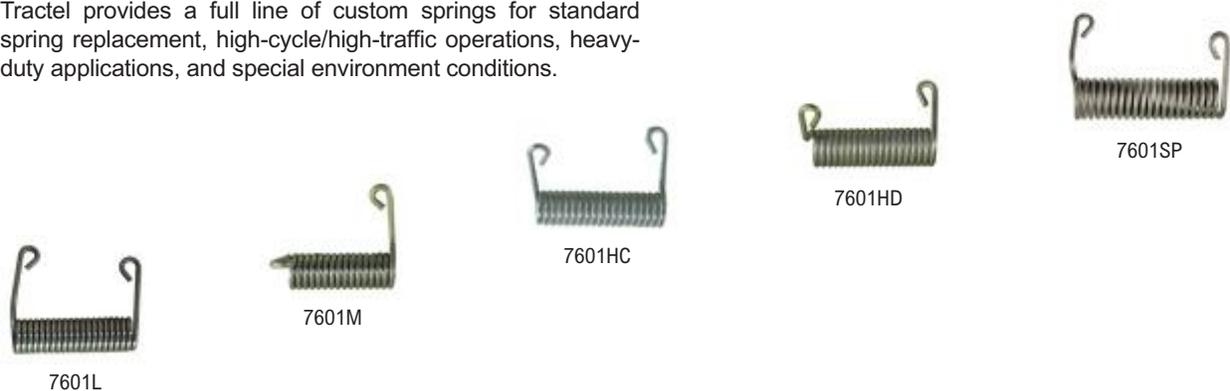
FEATURES

- Easy to install
- Variety of finishes
- Available to fit two openings:
 - 21–24 in. (53.3–61 cm)
 - 27–30 in. (68.6–76.2 cm)
- Available in:
 - A36 carbon steel, galvanized
 - A36 carbon steel with safety yellow powder coat
 - A36 carbon Steel with safety yellow enamel



Custom springs

Tractel provides a full line of custom springs for standard spring replacement, high-cycle/high-traffic operations, heavy-duty applications, and special environment conditions.

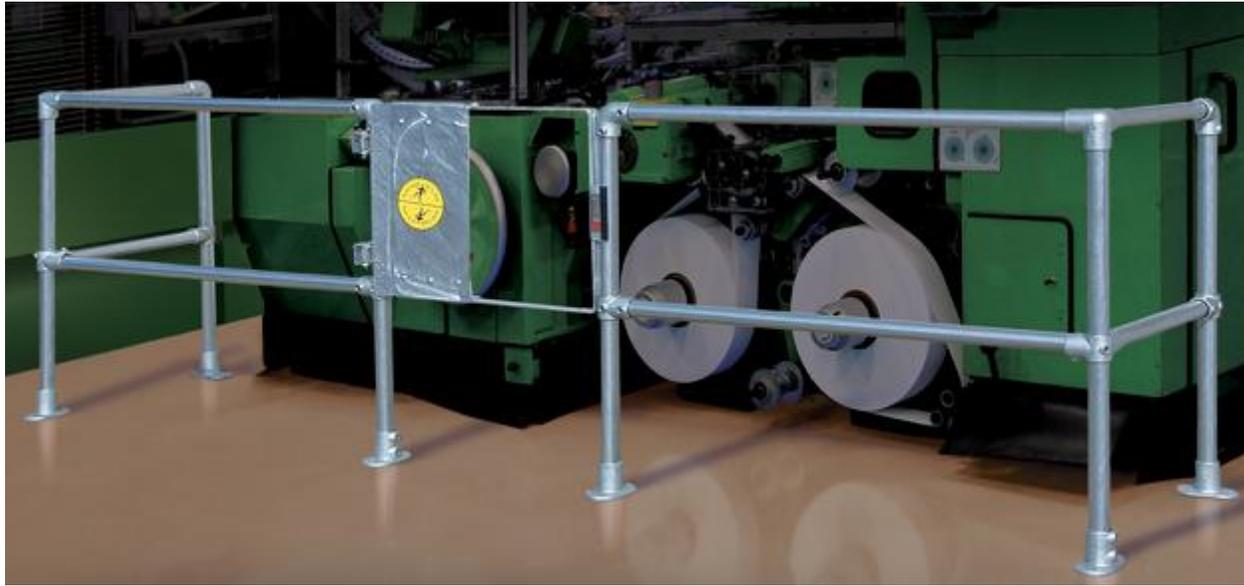


Custom safety gates for wider openings or unusual handrail configurations also available.

www.tractel.com

FabRail series

Guardrail



Height safety

Guardrails

TRACTEL LETS YOU BUILD THE PERFECT OSHA-COMPLIANT GUARDRAIL

The FabRail safety rail system is a component, highly versatile and effective safety solution engineered to install quickly and easily in virtually any kind of environment. Constructed of long-lasting 1½ in. (38 mm) (1.90 OD) Flo-Coat, FabRail is built to serve your needs. With nothing more than a hex key needed to install, FabRail enables you to create a permanent, durable OSHA-compliant barrier in no time.

FEATURES

- Ships with fittings pre-assembled to uprights for quick and easy installation
- 100% customizable with no welding
- Modular solution allows for countless configurations
- Installs with supplied hex key and anchor bolts
- 42 in. (107 cm) toprail and 21 in. (53.3 cm) midrail heights are OSHA compliant
- Constructed of durable Flo-Coat tubing
- Easily accommodates a variety of Tractel safety gates

OPTIONS

- 1½ in. (31.8 mm) (1.66 OD) tubing
- Various powder-coated colours available

APPLICATIONS

- Balconies and mezzanines
- Machine guarding
- Truck bays
- Crowd control
- Elevated docks / pits
- Stairway landings

AVAILABLE IN SYSTEMS AND CUSTOMIZABLE KITS

FabRail's modular kits make it easy to create the OSHA-compliant safety rail system for any application.

14 FT. (4.3 M) STRAIGHT



Contains

- 2 end posts
- 1 mid-rail post
- 3 base fittings – 4 pc
1½ in. (38 mm) at 7 ft. (2.1 m)

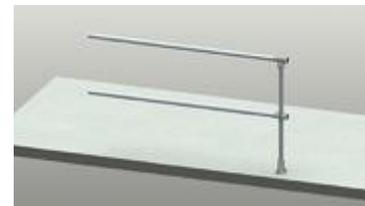
7 X 7 FT. (2.1 X 2.2 M) CORNER



Contains

- 2 end posts
- 1 corner post
- 3 base fittings – 4 pc
1½ in. (38 mm) at 7 ft. (2.1 m)

EXTENSIONS



Contains

- 1 mid-post – 2 pc
1½ in. (38 mm) at 7 ft. (2.1 m)

FabRail series

Guardrail

Tractel offers a variety of modular, durable iron fittings for FabRail systems to suit your specific needs. Fittings are not sold separately: they are only available with the purchase of a FabRail system.

*Fittings are not available in powder-coated.
Additional fittings available upon application requirements.*



Series 1047
90° elbow



Series 1048
Short tee



Series 1049
Long tee



Series 1050
Railing base flange



Series 1051
3-way blind corner



Series 1052
3-way open corner



Series 1053
Short cross



Series 1054
Straight sleeve



Series 1058
Base flange



Series 1060
Wall flange



Series 1061
Rail bracket



Series 1062
Side outlet tee



Series 1063
4-way / center pipe



Series 1064
Short tee swivel



Series 1078
Cross over



Series 1079
Clamp on tee



Series 1080
Single swivel kit



Series 1081
Base swivel kit



Series 1082
Double swivel kit



Series 1084
Spare screws



Series 1085
End cap



Series 1089
Inline swivel kit

PLEASE CONTACT US FOR ADDITIONAL INFORMATION OR ASSISTANCE

www.tractel.com

Engineered solutions

- Initial site assessment
- Engineering
- Certified system installation
- End user training
- Inspection/ Recertification

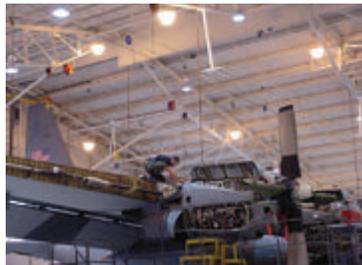
OVERHEAD BRIDGE CRANES AND EXPOSED WALKWAYS



BUILDING ROOF TOPS



TRUCKS, BUSES AND AIRCRAFT HANGARS



RAILCARS AND ARENAS



MEASURE AND CONTROL

INDUSTRIAL DYNAMOMETERS	p. 102
OTHER MEASURING DEVICES	p. 108
EFFORT MEASUREMENT AND MONITORING	p. 110
TRACTEL SERVICES	p. 115

Dynafor

Dynamometer selection guide

Measure and control of forces and loads in Industry

Solution for multiple applications. Adjustment certificate. Optional ISO 376.

MODEL	CAPACITY	PRECISION	REMOTE DISPLAY	PROTECTION RATING	FUNCTIONALITIES
 Handifor	20 / 50 / 100 / 200 kg	0.5%	No	IP 40	<ul style="list-style-type: none"> Units: kg / lb. Tare Peak load Automatic stop
 Dynafor Industrial	1 / 3.2 / 6.3 / 12.5 / 20 t	0.3%	No	IP 64	<ul style="list-style-type: none"> Units: kg / daN / lb. Tare Peak load Automatic zeroing Automatic stop
 Dynafor Pro	1 / 3.2 / 6.5 / 15 / 25 / 50 / 100 / 250 t	0.2%	Required	IP 64 IP 67 optional	<ul style="list-style-type: none"> Units: kg / t / daN / kN / lb. / US ton Tare Peak load Automatic zeroing Automatic stop
 Dynafor Expert	0.5 / 1 / 2 / 3.2 / 5 / 6.3 / 10 t	0.1%	Required	IP 64 IP 67 optional	<ul style="list-style-type: none"> Units: kg / t / daN / kN / lb. / US ton Tare Peak load Automatic zeroing Automatic stop

ADVANCED SPECIFIC FUNCTIONALITIES

FUNCTIONALITY	ADDITIONAL EQUIPMENT
Backlight screen	–
Locking of setting menu	–
Multiple and settable alarms	–
Associations of multiple sensors/displays	–
Threshold (5) and dynamic effect management Overload + Cable slack + Summation	DMU WL (Wireless Dynasafe Monitoring Unit)
Data acquisition on PC (1-8 sensors)	Dynafor connection software
IT integration (1-32 sensors)	Communication protocol

Handifor

Mini weighers

The lightweight, compact and ergonomic Handifor is built for measuring small forces or loads. Specially designed for difficult load checking conditions, the Handifor will measure the weight of your packages, dispatch bags, courier, materials in laboratories and many other materials that need weighing.

FEATURES

- Accuracy: $\pm 0.5\%$ of capacity
- Temperature range: from 14°F to 122°F (-10°C to 50°C)
- Units of measure: lb., kg and daN
- $\frac{1}{16}$ in. (14.2 mm) LCD digits
- Power supply: two 1.5 V “AAA” batteries
- Supplied with a snap shackle and a “S” hook
- Operating life of 100 hours
- Protection IP 40

PART #	CAPACITY	ACCURACY	MINIMUM DISPLAY	INCREMENT	MAXIMUM DISPLAY	WEIGHT
199919	40 lb. (20 kg)	± 0.2 lb. (± 0.1 kg)	0.2 lb. (0.1 kg)	0.2 lb. (0.1 kg)	55 lb. (25 kg)	1.1 lb. (0.5 kg)
199929	100 lb. (50 kg)	± 0.6 lb. (± 0.3 kg)	0.4 lb. (0.2 kg)	0.4 lb. (0.2 kg)	143 lb. (65 kg)	1.1 lb. (0.5 kg)
199939	200 lb. (100 kg)	± 1.1 lb. (± 0.5 kg)	0.4 lb. (0.2 kg)	0.4 lb. (0.2 kg)	286 lb. (130 kg)	1.3 lb. (0.6 kg)
199949	400 lb. (200 kg)	± 2.2 lb. (± 1.0 kg)	1 lb. (0.5 kg)	1.1 lb. (0.5 kg)	572 lb. (260 kg)	4.2 lb. (1.9 kg)



Dynafor Industrial

Load indicators

The Dynafor Industrial, designed and manufactured by Tractel, is a versatile and robust digital dynamometer, used in various weighing and force measurement applications.

Compatible with standard bow shackles, the Dynafor Industrial ensures a perfect implementation in your applications.

APPLICATIONS

- Overhead weighing
- Force measurement testing
- Towing applications
- Safety and lifting applications

FUNCTIONS

The Dynafor Industrial is a complete autonomous digital dynamometer with integrated functions:

- On/Off
- Tare
- Peak hold
- Units change: kg, daN, lb.
- Automatic zeroing
- Automatic stop without load or variation (20 min).
Removal of automatic stop available as option

FEATURES

- Minimum load: 10% of maximum capacity
- Safety coefficient: Minimum 4
- Precision: 0.3% at 70°F (21°C) full scale
- Maximum display: 110% of maximum capacity
- Digits height: $\frac{45}{64}$ in. (18 mm)
- Autonomy: 250 hours
- IP Protection: IP 64
- Sensor material: Aluminium
- Batteries: 2 x AAA

OPTIONS

- Plastic carrying case for Dynafor Industrial (116195)
- Time-off suppression (281097)



MODEL	PART #	MAXIMUM CAPACITY	PRECISION*	RESOLUTION	MAXIMUM DISPLAY	WEIGHT
Industrial 1 t	260889	2,000 lb. (1 t)	6.2 lb. (3 kg)	2 lb. (1 kg)	2,200 lb. (1.1 t)	1.7 lb. (0.75 kg)
Industrial 3.2 t	260899	6,400 lb. (3.2 t)	21.2 lb. (9.6 kg)	4 lb. (2 kg)	7,000 lb. (3.5 t)	2.1 lb. (0.93 kg)
Industrial 6.3 t	260909	12,600 lb. (6.3 t)	41.7 lb. (18.9 kg)	10 lb. (5 kg)	13,900 lb. (6.9 t)	3.2 lb. (1.44 kg)
Industrial 12.5 t	260919	25,000 lb. (12.5 t)	82.7 lb. (37.5 kg)	20 lb. (10 kg)	27,500 lb. (13.8 t)	7.1 lb. (3.22 kg)
Industrial 20 t	260929	40,000 lb. (20 t)	132.3 lb. (60 kg)	40 lb. (20 kg)	44,000 lb. (22 t)	11.2 lb. (5.1 kg)

* 0.3% at 70°F (21°C) full scale

Dynafor Pro

Load indicators

The Dynafor Pro, designed and manufactured by Tractel, is a versatile and robust wireless digital dynamometer, used in various weighing and force measurement applications.

APPLICATIONS

- Overhead weighing
- Force measurement and water bag load testing
- Towing applications
- Safety and lifting applications
- Heavylift projects
- Research and development projects
- Load monitoring on lifting equipments

ACCESSORIES

The Dynafor Pro offers a large array of wireless accessories and software:

- Dynafor HHD for a remote display with extended functionalities (see page 114)
- Wireless Dynafor AL63 for a high visibility display (see page 114)
- Loader software to unload data saved into the HHD
- Monitoring software, in use with HHD for real-time monitoring
- Dynafor app available on any iOS and Android device
- Dynafor DMU for threshold management
- Standard bow shackle and swivel hooks

FEATURES

- Minimum load: 10% of maximum capacity
- Safety coefficient: Minimum 4
- Precision: 0.2% at 70°F (21°C) full scale
- Maximum display: 110% of maximum capacity
- Autonomy: From 300 to 1,000 hours depending on usage
- Bluetooth technology used by the free smartphone app: BLE 4.0 range up to 100 pi (30 m) in open field
- RF technology used by the optional Dynafor HHD display: 2.4 GHz proprietary, range up to 1,300 ft. (400 m) in open field
- IP Protection: IP 64 (IP 67 in option)
- Sensor material: Aluminium (1 t to 15 t models) or HR aluminium (25 t to 250 t models)
- Batteries: 2 x AA

OPTION

- IP 67 option



The Dynafor Pro is sold without remote. It may be used with the free smartphone app, but the optional Dynafor HHD remote is also available (see page 114).

MODEL	PART #	MAXIMUM CAPACITY	PRECISION*	RESOLUTION	MAXIMUM DISPLAY	WEIGHT
Pro 1 t	293369	2,000 lb. (1 t)	6 lb. (2 kg)	0.4 lb. (0.2 kg)	2,200 lb. (1.1 t)	1.5 lb. (0.7 kg)
Pro 3.2 t	293379	6,400 lb. (3.2 t)	12.8 lb. (6.4 kg)	1 lb. (0.5 kg)	7,000 lb. (3.5 t)	1.9 lb. (0.86 kg)
Pro 6.5 t	293389	13,000 lb. (6.5 t)	26 lb. (13 kg)	2 lb. (1 kg)	14,300 lb. (7.5 t)	3.5 lb. (1.6 kg)
Pro 15 t	293399	30,000 lb. (15 t)	60 lb. (30 kg)	10 lb. (5 kg)	33,000 lb. (16.5 t)	8.1 lb. (3.66 kg)
Pro 25 t	293409	50,000 lb. (25 t)	100 lb. (50 kg)	20 lb. (10 kg)	55,000 lb. (27.5 t)	11.8 lb. (5.33 kg)
Pro 50 t	293419	100,000 lb. (50 t)	200 lb. (100 kg)	40 lb. (20 kg)	110,000 lb. (55 t)	25.2 lb. (11.45 kg)
Pro 100 t	293429	200,000 lb. (100 t)	400 lb. (200 kg)	100 lb. (50 kg)	220,000 lb. (110 t)	60.6 lb. (27.48 kg)
Pro 250 t	293439	500,000 lb. (250 t)	750 lb. (375 kg)	200 lb. (100 kg)	550,000 lb. (275 t)	216 lb. (97.98 kg)

* 0.2% at 70°F (21°C) full scale

Dynafor Expert

Load indicators

The Dynafor Expert, designed and manufactured by Tractel, is a wireless digital dynamometer, used in high precision applications. With its unique design, it allows to reach extreme precision.

APPLICATIONS

- Overhead weighing
- Force measurement testing
- Towing applications
- Safety and lifting applications
- Load balancing
- Research and development projects
- Load monitoring on lifting equipments

ACCESSORIES

The Dynafor Expert offers a large array of wireless accessories and softwares:

- Dynafor HHD for a remote display with extended functionalities (see page 114)
- Wireless Dynafor AL63 for a high visibility display (see page 114)
- Loader software to unload data saved into the Dynafor HHD
- Monitoring software, in use with Dynafor HHD for real-time monitoring
- Free Dynafor application available on any iOS and Android device
- Dynafor DMU for threshold management
- Standard bow and clevis shackles

FEATURES

- Minimum load: 10% of maximum capacity
- Safety coefficient: Minimum 4
- Precision: 0.1% at 70°F (21°C) full scale (IP 67 = 0.2%)
- Maximum display: 110% of maximum capacity
- Autonomy: From 300 to 1,000 hours depending on usage
- Bluetooth technology used by the free smartphone app: BLE 4.0 range up to 100 pi (30 m) in open field
- RF technology used by the optional Dynafor HHD display: 2.4 GHz proprietary, range up to 1,300 ft. (400 m) in open field
- IP Protection: IP 64 (IP 67 in option)
- Sensor material: Steel
- Sensor body material: Aluminium (0.5 t to 6.3 t models) or steel (10 t model)
- Batteries: 3 x AA

OPTION

- IP 67 option



The Dynafor Expert is sold without remote. It may be used with the free smartphone app, but the optional Dynafor HHD remote is also available (see page 114).

MODEL	PART #	MAXIMUM CAPACITY	PRECISION*	RESOLUTION	MAXIMUM DISPLAY	WEIGHT
Expert 0.5 t	293299	1,000 lb. (0.5 t)	1 lb. (0.5 kg)	0.2 lb. (0.1 kg)	1,100 lb. (0.55 t)	5.1 lb. (2.3 kg)
Expert 1 t	293309	2,000 lb. (1 t)	2 lb. (1 kg)	0.4 lb. (0.2 kg)	2,200 lb. (1.1 t)	5.1 lb. (2.3 kg)
Expert 2 t	293319	4,000 lb. (2 t)	4 lb. (2 kg)	1 lb. (0.5 kg)	4,400 lb. (2.2 t)	5.1 lb. (2.3 kg)
Expert 3.2 t	293329	6,400 lb. (3.2 t)	6.4 lb. (3.2 kg)	1 lb. (0.5 kg)	7,000 lb. (3.5 t)	5.1 lb. (2.3 kg)
Expert 5 t	293339	10,000 lb. (5 t)	10 lb. (5 kg)	2 lb. (1 kg)	11,000 lb. (5.5 t)	7.4 lb. (3.35 kg)
Expert 6.3 t	293349	12,600 lb. (6.3 t)	12.6 lb. (6.3 kg)	2 lb. (1 kg)	13,800 lb. (6.9 t)	7.4 lb. (3.35 kg)
Expert 10 t	293359	20,000 lb. (10 t)	20 lb. (10 kg)	4 lb. (2 kg)	22,000 lb. (11 t)	14.2 lb. (6.45 kg)

* 0.1% at 70°F (21°C) full scale (IP 67 = 0.2%)

Dynafor accessories

Shackles and hooks



MODEL	CAPACITY	BOW SHACKLE	SWIVEL HOOK	CLEVIS SHACKLE	CLEVIS HOOK
 Industrial	2,000 / 6,400 lb. (1 / 3.2 kg)	47916	40977	–	–
	12,600 lb. (6.3 kg)	47926	105567	–	–
	13,000 lb. (12.5 kg)	47936	113227	–	–
	40,000 lb. (20 kg)	47946	105587	–	–
 Pro	2,000 / 6,400 lb. (1 / 3.2 kg)	47916	40977	–	–
	13,000 lb. (6.5 kg)	47926	105567	–	–
	30,000 lb. (15 kg)	112427	113227	–	–
	50,000 lb. (25 kg)	47946	51207	–	–
	100,000 lb. (50 kg)	47956	51447	–	–
	200,000 lb. (100 kg)	38166	–	–	–
 Expert	1,000 / 2,000 / 4,000 / 6,400 lb. (0.5 / 1 / 2 / 3.2 kg)	47916	–	111407	111437
	10,000 / 12,600 lb. (5 / 6.3 kg)	47926	–	111417	111447
	20,000 lb. (10 kg)	47936	–	112207	112217

Measure and control

Load indicators

Dynarope HF 36

Tensiometer

The Dynarope is designed for measuring forces in pretensioned wire ropes (guys, aerials, pylons and masts, supports, catenaries and all textiles ropes or wire ropes) that cannot be dismantled and for which tension must be known or confirmed. The Dynarope fits directly onto the tensioned wire rope and is simply held in position by turning a handle. This device is comprised of a load cell with strain gauges and a display driven by a microprocessor. Display of the force measured by the load cell takes into account parameters you enter such as the diameter, composition and structure of the rope.

NUMERIC DISPLAY

Digital technology allows the Dynarope to contain an extremely large database of rope types and sizes. When in “special” operation, the user may create his own database as a function of specific parameters.

QUICK FITTING AND REMOVAL OPERATIONS

For repetitive measuring operations, a simple mechanical lever replaces the threaded handle.

FEATURES

- Accuracy: <1% of nominal capacity
- Capacity range from 400 to 40,000 lb. (200 to 20,000 kg)
- Large range of wire rope sizes from $\frac{3}{16}$ to $1\frac{3}{4}$ in. (5 to 44 mm)
- Operating temperature from -4 to 140°F (-20 to 60°C)
- Power supply: three 1.5 V “AA” batteries, up to 200 hours
- Displays mass or force
- Protection: IP 65 (NEMA 4)
- Autonomy: 200 h

INCLUDES

- A Dynarope tensiometer
- A HF 87/T/LPT digital remote display with three “AA” 1,5 V batteries
- A LEMO connection cable with four poles
- A rugged carrying box
- A CE certificate and calibration certificate
- A user manual



MODEL	CAPACITY	WIRE ROPE Ø	MINIMUM DISPLAY	INCREMENT	WEIGHT
HF 36/1/LPT	400–10,000 lb. (200–5,000 kg)	$\frac{3}{16}$ – $\frac{1}{2}$ in. (5–13 mm)	400 lb. (200 kg)	10 lb. (5 kg)	5.3 lb. (2.4 kg)
HF 36/2/LPT	800–40,000 lb. (400–20,000 kg)	$\frac{3}{8}$ – $1\frac{1}{8}$ in. (9–28 mm)	400 lb. (200 kg)	50 lb. (25 kg)	11.5 lb. (5.2 kg)
HF 36/3/LPT	1,125–90,000 lb. (510–40,000 kg)	$\frac{3}{4}$ – $1\frac{1}{2}$ in. (20–44 mm)	400 lb. (200 kg)	100 lb. (50 kg)	37 lb. (16.8 kg)



Dynarope HF 37

Small capacity tensiometer

The Dynarope HF 37 digital is designed for rope tension measurement, with fast and easy installation directly on the rope (steel, textile).

TECHNICAL SPECIFICATIONS

- Accuracy: <1% of nominal capacity
- Capacity range from 200 to 6,000 lb. (100 to 3,000 kg)
- Range of wire rope sizes from $\frac{3}{16}$ to $\frac{1}{16}$ in. (5 to 18 mm)
- Operating temperature from -4 to 140°F (-20 to 60°C)
- Power supply: three 1.5 V "AA" batteries, up to 125 hours
- Displays mass or force
- Protection: IP 65 (NEMA 4)

MODEL	CAPACITY	WIRE ROPE Ø	MINIMUM DISPLAY	INCREMENT	WEIGHT
HF 37/1/LPT	200–3,000 lb. (100–1,500 kg)	$\frac{3}{16}$ – $\frac{1}{2}$ in. (5–13 mm)	110 lb. (50 kg)	2 lb. (1 kg)	4.9 lb. (2.2 kg)
HF 37/2/LPT	400–6,000 lb. (200–3,000 kg)	$\frac{5}{16}$ – $\frac{1}{16}$ in. (8.4–18 mm)	110 lb. (50 kg)	5 lb. (2 kg)	4.9 lb. (2.2 kg)



Dynasafe Mecha

Affordable, quick and reliable mechanical load limiters

The Dynasafe Mecha 3.2, 7 and 12 are robust and affordable mechanical load limiters, installed on a wire rope and designed to manage one or two safety trip points on elevating equipment. It is the simplest and most robust safety equipment for crane and lifting load limitation.

Our Dynasafe Mecha offers one or two independent trip point adjustments.

QUALITY

- Made of anodised aluminium
- IP 67 (Dynasafe Mecha 3.2), IP 55 (Dynasafe Mecha 7 and 12)
- Temperature range from -22°F to 175°F (-30°C to 80°C)
- Trip point power: 4 A at 230 VAC
- Repeatability: 1%
- With 6.5 ft. (2 m) cable gland output
- Mechanically adjustable by user
- Automatic reset if wire rope unloaded

APPLICABLE STANDARDS

- Complies with ANSI/ASME HST-4M overload limiting devices

RELIABILITY

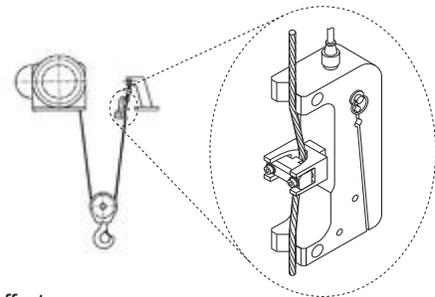
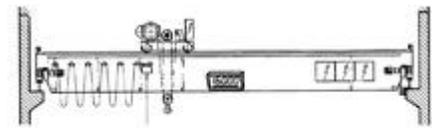
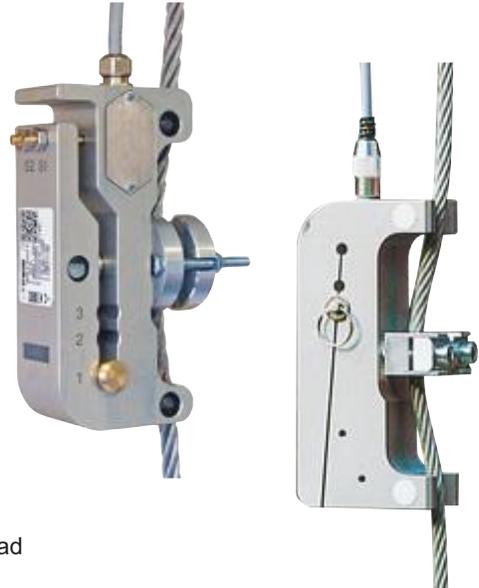
- Simple and economical solution for load limitation
- Easy installation on the lifting cable
- Mechanical sensor to detect one or two trip points
- During lifting: limitation of the load and slack rope
- During sideways movement: limitation of the speed according to the load
- During pulling: on a hoist, limitation of the effort
- Capacities: from 400 to 24,000 lb. (200 kg to 12 t) on direct fall
- For $\frac{3}{16}$ to $1\frac{1}{2}$ in. (5 to 34 mm) diameter wire rope

APPLICATIONS

- Overhead travelling crane limitation
- Hoist limitation
- Elevator
- Safety and lifting applications

FEATURES

- Repeatability: 1% of full scale
- Installation: Directly on the dead end wire rope
- Trip points: 2
- Contacts: For each threshold, one normally open, one normally closed
- Trip point power: 230 VAC
- Trip point amperage: 4 A
- Connections: 7 cores electrical cable with cable gland
- Tare adjustment: By fine thread screws
- Hysteresis: Between 100 and 600 lb. (50 and 300 kg) depending on the effort.
- Material: Anodised aluminium



MODEL	PART #	WIRE ROPE DIAMETER	CAPACITY ON FALL	WEIGHT
Mecha 3.2	293599	$\frac{3}{16}$ – $\frac{5}{8}$ in. (5–16 mm)	400–6,400 lb. (200–3,200 kg)	5.3 lb. (2.4 kg)
Mecha 7	198959	$\frac{1}{16}$ – $1\frac{1}{2}$ in. (17–26 mm)	1,000–14,000 lb. (500–7,000 kg)	11.5 lb. (5.2 kg)
Mecha 12	38668	1– $1\frac{1}{2}$ in. (27–34 mm)	2,000–24,000 lb. (1,000–12,000 kg)	14.3 lb. (6.5 kg)

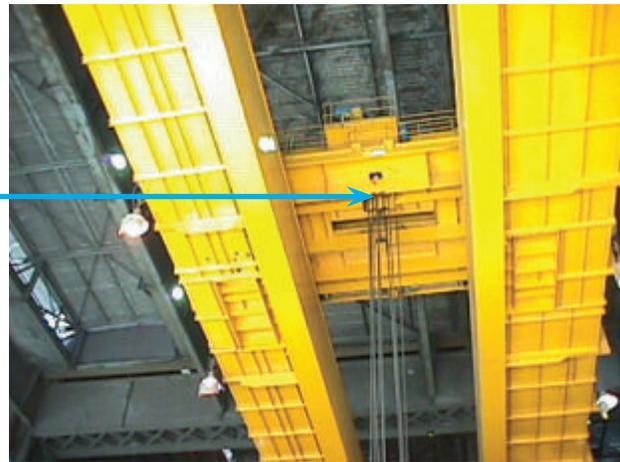
Dynasafe HF 05

Tension load limiting cell | In-line mechanical load cell

The Dynasafe HF 05 mechanical load cell has been designed to provide a trip point in lifting systems, which have a dead-end wire rope. The trip point load limiter generates an “all or nothing” type signal in the event that a programmable target value is exceeded. Available with two thresholds.

FEATURES

- Repeatability: $\pm 1\%$
- Capacity range from 1,000 to 24,000 lb. (500 to 12,000 kg)
- Operating temperature from -22 to 176°F (-30 to 80°C)
- Protection: IP 54 (NEMA 3)
- Includes 6 ft. (2 m) connection lead
- Switching power up to 220 VAC/4 A
- Simple adjustment procedure and easy to install
- Mounts directly to wedge socket at dead end



MODEL	CAPACITY	MODEL A WITH 2-TRIP POINT	MODEL B WITH 1-TRIP POINT AND HF 85 MONITOR	WEIGHT
HF 05/1	1,000 lb. (500 kg)	■	■	0.5 lb. (0.23 kg)
HF 05/2	2,500 lb. (1,250 kg)	■	■	0.5 lb. (0.23 kg)
HF 05/3	4,000 lb. (2,000 kg)	■	■	1 lb. (0.45 kg)
HF 05/4	6,400 lb. (3,200 kg)	■	■	2 lb. (0.9 kg)
HF 05/5	10,000 lb. (5,000 kg)	■	■	1.5 lb. (0.7 kg)
HF 05/6	16,000 lb. (8,000 kg)	■	■	1.5 lb. (0.7 kg)

Dynasafe HF 35

Electronic load limiter

The Dynasafe HF 35 is an electronic load cell that is designed for measuring the effort applied in lifting systems that have a dead end wire rope. This load cell is recommended for its simplicity and quick fitting capability.

FEATURES

- Accuracy: $\pm 3\%$ of nominal charge
- Maximum load capacities from 40 to 40,000 lb. (20 to 20,000 kg)
- Operating temperature from -22 to 176°F (-30 to 80°C)
- Mounts directly on the dead end of the wire rope
- Fast installation
- Monitor required (HF 80)

CABLE Ø	CAPACITY	OUTPUT SIGNAL			
		MV/V	FREQUENCY	0–10 V	4–20 MA
$\frac{3}{16}$ – $1\frac{3}{4}$ in. (5–45 mm)	40–40,000 lb. (20–20,000 kg)	■	■	■	■



Dynasafe HF 10

Electronic load limiting cell

The Dynasafe HF 10 has been designed for measuring effort applied in lifting systems which have a dead end wire rope. It is recommended for installations where a high degree of accuracy is required. Another advantage is its small size as very little headroom is lost. To be used in conjunction with HF 80 monitors or HF 87 displays.

Size the HF 10 by simply matching the capacity. To do so, choose a model with a capacity higher than the crane capacity divided by the number of falls.

FEATURES

- Accuracy: $\pm 0.3\%$ of nominal charge
- Maximum load capacities from 40 to 40,000 lb. (20 to 20,000 kg)
- Operating temperature from -22 to 176°F (-30 to 80°C)
- Protection: IP 65 (NEMA 4)
- Mounts directly to the wedge socket at the dead end
- Easy wire rope replacement (no recalibration necessary)
- Suitable for weight display
- Monitor required (HF 80) and/or display AL63

CABLE Ø	CAPACITY	OUTPUT SIGNAL			
		MV/V	FREQUENCY	0–10 V	4–20 MA
–	40–40,000 lb. (20–20,000 kg)	■	■	■	■

NOTE: Scale accuracy is dependent upon the number of falls present.



Dynasafe HF 50

Dynometric axle

Load pin based on the strain gauges technology and used in particular to limit and display loads. To be used in conjunction with HF 80 monitors or HF 87 displays. The load pin will be designed according to the customer's specifications.

Since the HF 50 axles are made on a custom basis, each one is quoted individually from the factory.



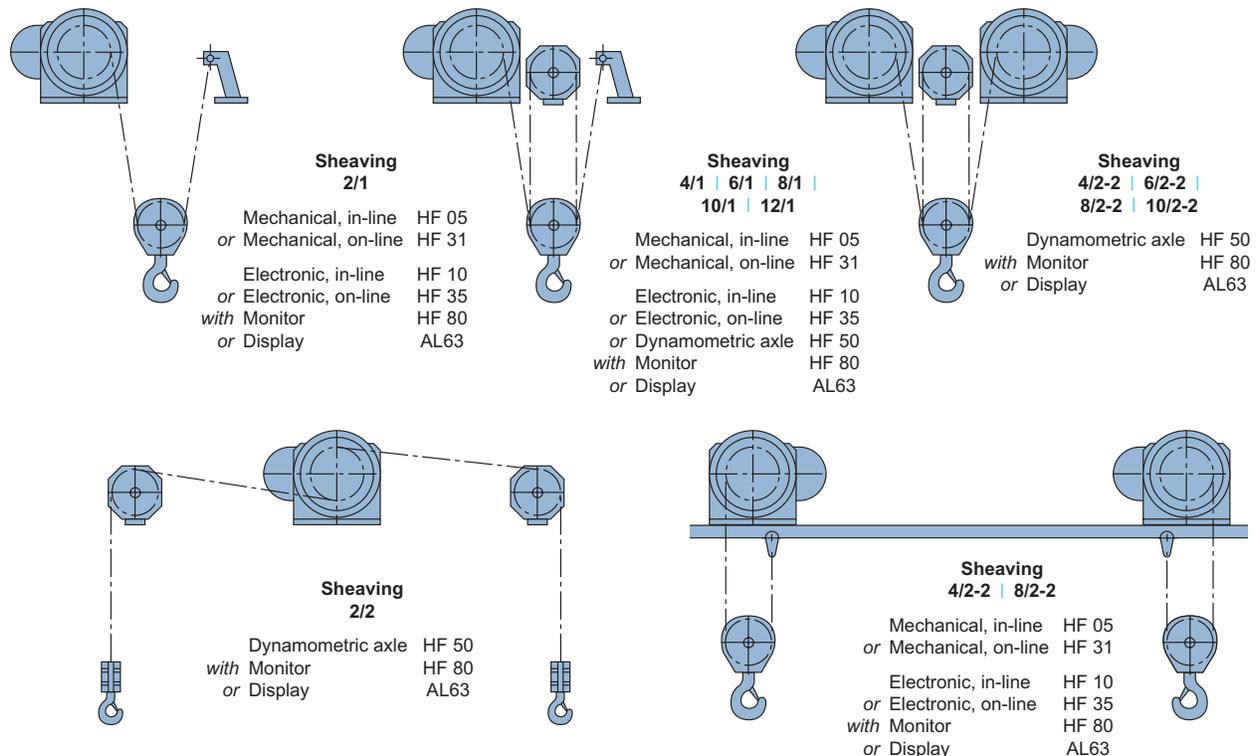
FEATURES

- Accuracy: $\pm 0.5\%$
- Operating temperature from -4 to 176°F (-20 to 80°C)
- Protection: IP 65 (NEMA 4)
- Custom-made to replace the pin of either the upper block (most accurate) or idle sheave (least expensive)
- Ideal for accurate weight display
- No headroom loss
- The only solution available when there is no dead end
- Monitor required (HF 80) and/or display AL63

CABLE Ø	CAPACITY	OUTPUT SIGNAL			
		MV/V	FREQUENCY	0-10 V	4-20 MA
$\frac{3}{4}$ - $1\frac{13}{16}$ in. (19-300 mm)	Custom made by project	■	■	■	■

Dynasafe solutions

Load cells for typical sheaving systems of overhead cranes



Dynafor and Dynasafe

Monitors, displays and connectors

DYNAFOR HHD MONITOR

The Dynafor HHD, designed and manufactured by Tractel, is an universal and ergonomic wireless handheld display, used in combination with our Tractel products.

293449

- Complete and versatile handheld display
- Up to four sensors can be simultaneously connected
- Colour LED display
- Wireless range up to 1,300 ft. (400 m)



DYNAFOR AL63 MONITOR

The Dynafor AL63 is a robust wireless or wired giant display, used in applications where visibility is a requirement. Connected to one or several Dynafor Pro or Expert, Transmitter RS, Transmitter WL, it displays the sum of the sensors.

- Wireless or wired
- Visibility up to 150 ft. (45 m)
- Up to four sensors can be simultaneously connected
- Wireless range up to 655 ft. (200 m)



DYNASOFT SOFTWARE

May be used in combination with the Dynafor Pro and Expert. Offers extra functionalities not available with the Dynafor HHD display.

DYNAFOR LLXT SIGNAL CONDITIONER

Converts existing cell to a RS 485 output cell.

- Available accessories:
 - Dynafor LLXt wireless module
 - Dynafor LLXt RS 485 module
 - Adjustment software



DYNASAFE HF 80 MONITOR

Used for frequency output cells.

HF 80/1

- Standard monitor with adjustable trip point
- Three levels of adjustable thresholds
- Two relays outputs: 220 V AC 10 A
- Dynamic effect filtering



DYNASAFE HF 84 FREQUENCY CONVERTER

HF 84/1

- Converts existing cell to a frequency output cell
- Adjustable gain and zero
- For 1 load cell



MECHANICAL LOAD LIMITING ACCESSORIES

HF 90/1

- Electronic alarm

HF 90/2

- Flashing light



Tractel services

Tractel at your service, we offer Dynafor calibration services and have a full service department for repairs and maintenance of all the equipment we sell.

LOAD CELL CALIBRATION & REPAIRS!

At Tractel our Dynafor lab will calibrate your full range of product.

- Quick turn around
- Calibration certificate provided
- Capacity up to 250 t

HOW IMPORTANT IS CALIBRATION?

ISO certified companies need to calibrate tools and instrument yearly. Tractel recommends this yearly calibration to avoid lapse in use.

NOTE: Our testing equipment is traceable to ISO 376 Standards.



Measure and control

SERVICE AND REPAIRS

Factory trained technicians for all your service and repair requirements, keeps your equipment running right, resulting in many benefits:

- **Lengthens equipment life** – properly maintained equipment simply lasts longer.
- **Enhanced operator efficiency** – ensures that the equipment operates at peak performance levels.
- **Prevents costly downtime** – anticipating and preventing future problems before they occur helps avoid downtime.
- **Check for proper operation** – Ensure machine and its components are operating correctly.

PARTS

- Large inventory of parts for quick delivery.
- Reliable factory authorized replacement parts to maintain your equipment to factory standards.



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