

**CONDUCTOR HANDLING PRODUCTS**

**TRANSMISSION**

**DISTRIBUTION**



**UNDERGROUND**

**ACCESSORIES**

**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE**

**OUR PEOPLE CARE ...  
OUR EQUIPMENT IS THE PROOF**

## **Pulling For You Since 1947**

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Timberland Equipment specializes in the design and manufacture of winches, hoists, sheaves, derricks and tension stringing equipment for the world's most challenging infrastructure and capital equipment projects. Timberland products and Timberland people today are delivering the answers that customers need in the industry's widest range of applications for conductor stringing, mining, construction, marine and offshore operations.

## **We know you have a lot on the line**

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Timberland Equipment appreciates that, with any important new project you undertake, you immediately face a significant element of risk on many fronts. We are here to help you to minimize the risks and maximize the rewards for all your stakeholders.

We understand how the products and services we provide will have a direct impact on the day-to-day performance of your operations, the long-term productivity of your team, safety of your people on the job site, timely delivery of your commitments and the bottom line financial success of your business.

We are ready to help.

Our customers know us as strong partners who are fully responsive to their unique mission and goals. Timberland's international reputation is built on more than our capabilities as engineers and manufacturers. It's a result of the trust we have earned. We are the people you can rely on to keep our promises, so you can move forward with confidence.

## **We have experience...**

Timberland Equipment has supported more than 8500 projects worldwide in over 50 countries.



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# The System

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**T**imberland Equipment specializes in the design and development of stringing equipment and methods. We recognize that methods design impacts your ability to deliver on schedule. Every day that a power line is not operating is lost revenue for you and your client.

We have developed methods that can help you with projects that range from single conductor distribution stringing to 8 bundle 1000 kV stringing methods. We also recognize the increasing demand for OPGW stringing and have developed specialized re-conductoring equipment for stringing OPGW using the old earthwire as the pulling rope. This is unique and exclusive to Timberland Equipment.

Our designs integrate the use of canted bullwheel systems that further enhance our designs. This feature eliminates the rolling and torsional stresses induced into the conductor with typical half groove offset bullwheel systems.

“Rugged and Reliable”... These are words that we hear from our clients regularly. Our designs have been subjected to years of field service and remain reliable in the field. In some cases, we have equipment in the field still operating after more than 40 years of service.

## We are Flexible

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Our international experience has taught us that every contractor has unique preferences and needs. At Timberland, we continue to offer custom designs to meet the specific needs of our clients. We have the experience and capability to custom engineer a solution to meet your specific needs.

When reviewing our catalogue, you will encounter a variety of equipment with greater depth than our competitors. This is a result of our global experience and our ability to “flex” our designs to meet the customer’s needs.

If you do not see your exact solution, ask us to help design one that fits your needs.

## Our Service ...

Timberland Equipment has supported more than 8500 projects worldwide in over 50 countries. To support these projects, we maintain a library of service manuals and active design drawings that allow us to find replacement components for equipment that has been in the field for more than 30 years.

If some components have become obsolete, we will help you find an updated solution to get your equipment back up and running as fast as possible. We are committed to using only global brands in order to help you find components in a local market rather than be dependent on a single source point. This helps us respond quicker and find local parts and service in your area.

We have field service representatives that are available to help you with preventative maintenance programs and repair. Call us Toll Free 1-800-387-1892.

# **SECTION 1**

# **PULLERS**

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## **TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

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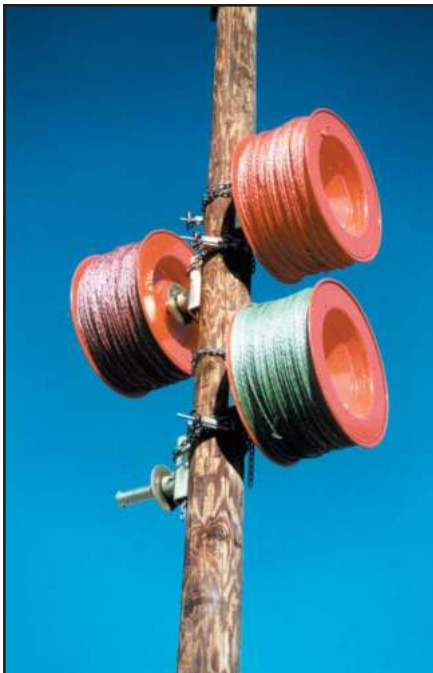
At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

## POLEBOSS™ SYSTEM

### POLEBOSS PULLER UNIT

Performance: 450 kg (1000 lbs) linepull @ 120 m/min (400 ft/min) based on hydraulic supply of 15 gpm @ 2000 psi  
 Precise metering spring to neutral control valve  
 Linepull limiting tension control valve  
 Hydraulic pressure gauge  
 Anti-rotation clutch  
 2 ratchet type web binder straps  
 Manual rope levelwind  
 Hydraulic quick disconnects

Weight:	98 kg (215 lbs)
Weight (with reels):	154kg (340lbs)
Length:	686mm (27")
Width:	457mm (18")
Height:	1016mm (40")



### PAYOUT SPINDLE

- Galvanized steel frame construction
- Hot stick adjustable disc brake
- 140 kg. (300 lbs.) maximum breaking force
- Ratchet type web binder strap
- Payout spindle weight 16 kg (35 lbs.)

### ROPE AND REEL

- Reel capacity: 915 m (3000 ft.) of 10mm (3/8") rope
- Reel weight: 54 kg (119 lbs) without rope

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**PICK-UP BOSS™**

PICK-UP BOSS PULLER UNIT

Performance: 450 kg (1000 lbs) @ 120 m/min (450 fpm) line pull based on hydraulic supply of 53 l/min (15 gpm) @ 13.8 MPa (2000 psi.)  
 Precise metering spring to neutral control valve  
 Linepull limiting tension control valve  
 Hydraulic pressure gauge  
 Anti-rotation clutch  
 Manual rope levelwind  
 Integral self-contained hydraulic power pack  
 Reliable 18 hp Honda gasoline engine  
 Designed to be mounted in a 1/2 ton or larger pick-up truck or flatbed

Length: 2184mm (86")  
 Width: 762mm (30")  
 Height: (1067mm) 42"  
 Weight: Approx 358 kg (790 lbs)



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**POLEBOSS™ PARTNERS**

RCH4.5 72x44 Hydraulic Tensioner / Reel Carrier



Line surge and galloping are eliminated by this unique hydraulic tensioning reel carrier. The system is self contained and provides smooth accurate control of the conductor tension. Ideal for use where fine control of the conductor is required or where shock loads must be avoided during fiber optic cable or special installation. An excellent tensioner for use with a Timberland Poleboss™.

Q6000 & Q8000 Quadtrailer



The Q-6000 and Q-8000 quadtrailers are the most universal trailers available for the electrical utility market. These multi-use trailers transport cargo or cable reels and are available with a variety of options. They are an ideal tensioner for the Poleboss System™.

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**HYDRAULIC POWER UNIT**



This 31.4 kW (18 hp) hydraulic power pack unit is designed to work in conjunction with the poleboss unit or Quadtrailer.

**SPECIFICATIONS**

Hydraulic power unit

Engine: Honda 13.4 kW (18 hp)

Pump displacement: 12 GPM @ 1800 psi

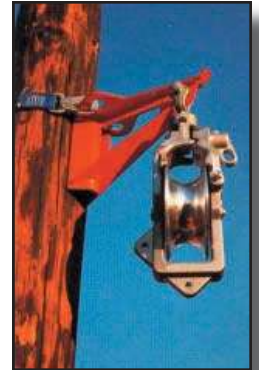
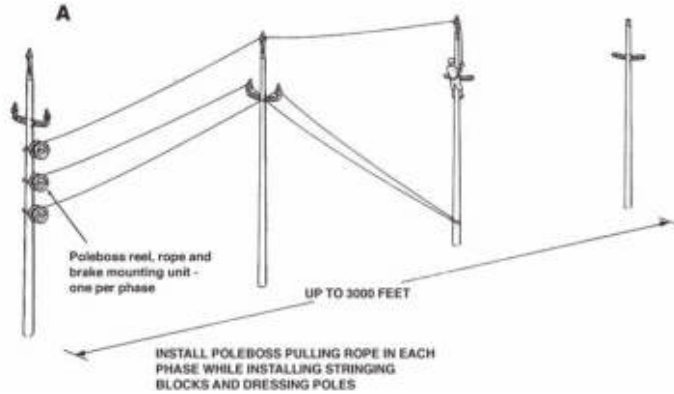
External adjustable relief valve  
Inline return line hydraulic filter  
0-2000 psi pressure gauge  
28 liters (7.5 gallon) marine steel fuel tank  
Friction controlled throttle  
12 VDC battery  
Self-contained within frame mount  
Accessible oil drain for maintenance

Part Number: 551385

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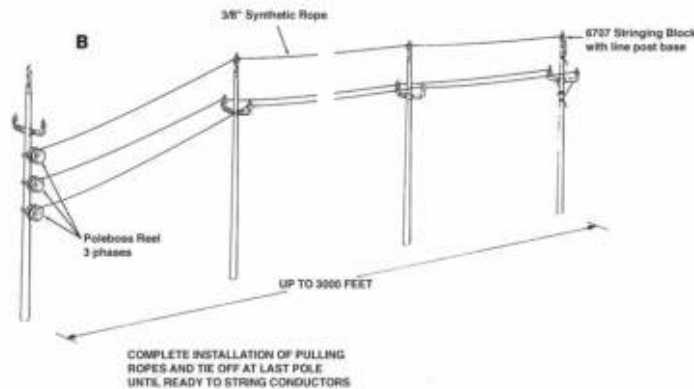
**POLEBOSS™ SYSTEM**



Pole davit with ratchet binder strap and 6707 stringing block.



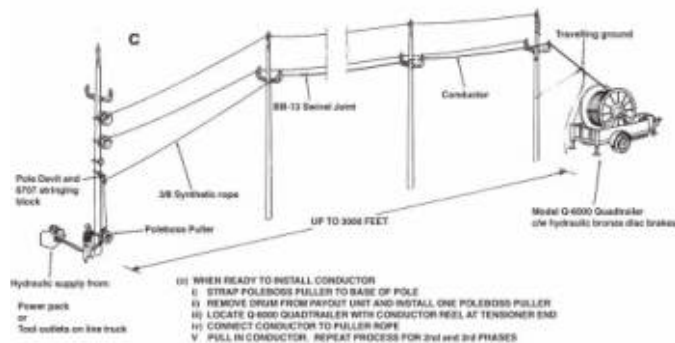
The Poleboss™



Poleboss™ available with dollies to ease transport



18 horsepower hydraulic power pack for use with Poleboss™ puller or Quadtrailer.



Hydraulic tensioning reel stand, skid based or trailer mounting

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**FIBRE OPTICS PULLER**

**SPECIFICATIONS**

Maximum continuous torque	350 daN-m (31,000 in.lbs)
Maximum continuous linepull*	590 daN (1,300 lbs)
Average linespeed	4.8 km/h (3 mph)
Drum diameter	1016 mm (40")
Drum width	826 mm (32.5")
Drum capacity, synthetic rope	4720 m of 9.5 mm (15,000 ft of 3/8")
Engine (gasoline)	13 kW (18 hp)
Weight	2268 kg (5,000 lbs)
Length (approx)	4216 mm (166")
Width (approx)	2260 mm (89")
Height (approx)	1980 mm (78")

\* linepull rated at full drum

**STANDARD EQUIPMENT**

Fully hydraulic drive system  
 Infinitely variable speed and linepull control  
 Automatic overpull protection system  
 Single axle trailer mounted with electric trailer brakes and highway lighting package  
 One front and two rear jacks  
 Free wheeling disconnect  
 Bronze disc overspin brake  
 Operator's seat and protective screen

**OPTIONS**

Hydraulic front jack  
 Diesel engine  
 Chart recorder system

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## DRUM PULLER



The DP10-4H is a compact and portable hydraulically powered 4 drum puller. Designed as a light distribution puller, it can also serve as a pilot line winder. The pulling unit can be removed from the trailer and pole mounted with power supplied by the integral power-pack or from a line truck. Power is transmitted to the drums through a common drive train. A diamond leadscrew levelwind accommodating one reel at a time, provides an even wrap during the pull. Individual overspin brakes can be controlled manually or with a hot stick.

### PERFORMANCE

(based on 57 liters/min @ 13.8 Mpa / 5 gpm @ 2000 psi)

#### Rated linepull

Empty drum	734 daN (1650 lbs)
Full drum	389 daN (875 lbs)

#### Max linepull (@ 20 Mpa (3,000 psi) intermittent)

Empty drum	888 daN (2,000 lbs)
Full drum	444 daN (1,000 lbs)

#### Line speed

Empty drum	0-82 m/min (0-270 fpm)
Full drum	0-164 m/min (0-540 fpm)

#### Average linespeed

120 m/min (396 fpm)

#### Reel Capacity

8 mm (5/16") rope	2,591 m (8,500 ft)
10 mm (3/8") rope	1,829 m (6,000 ft)
11 mm (7/16") rope	1,371 m (4,500 ft)
12mm (1/2") rope	1,066 m (3,500 ft)

### STANDARD FEATURES

- Single axle trailer with 2,358 kg (5,200 lb) axle
- 13 kW (18 hp) air cooled engine
- 22 liter (6 gallon) fuel tank
- 44 liter (12 gallon) hydraulic tank
- Diamond leadscrew levelwind
- Free wheeling drums with disc overspin brakes
- Fine control manual calipers on overspin brakes
- Individual drum clutches
- Anti-rotation device on drive system

### UNIT DIMENSIONS (approx)

Length	3429 mm (135")
Width	2337 mm (92")
Height	1880 mm (74")
Weight (wo rope)	1451 kg (3,200 lbs)

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**DRUM PULLER**

This four drum puller with four separate pulling drums and ropes is ideal for distribution conductor installation jobs where light linepulls are required. It can also be used as a pilot line winder.

**STANDARD FEATURES**

Proven hydraulic pulling system with mechanical clutch for each drum  
22 kW (30 hp) air cooled engine  
Infinitely variable linespeed and linepull control  
Anti-rotation clutch to prevent accidental payout of rope during pulling  
Four pulling drums each with capacity for 6,000 ft. of 3/8" diameter synthetic rope  
Free-wheeling drum disconnect for high speed rope payout  
Bronze payout disc brakes on each drum  
Automatic diamond leadscrew levelwind for even spooling of rope on the drum  
Central operator's position for maximum safety and visibility with engraved console panel  
Tandem axle trailer for maximum stability with leaf spring suspension  
93" x 63" cargo area

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### DRUM PULLER

#### PERFORMANCE (One drum operating at a time):

Continuous Torque Rating	16,800 in.-lbs. (190 daN-m)
Intermittent Torque Rating	18,000 in.-lbs. (203 daN-m)
Continuous Linepull Rating	1,400 lbs. with 6,000 ft. of 3/8" rope on drum (635 kg with 1829 m of 10 mm rope on drum)
Speed	0.5 m.p.h. (8.0 km/hr) with Infinite Speed Control

#### DRUM DIMENSIONS:

Drum Outside Diameter	24 in. (610 mm)
Drum Width	32 1/2 in. (826 mm)
Drum Core Diameter	12 3/4 in. (324 mm)
Drum Rope Capacity (Synthetic Rope)	6,000 ft. of 3/8 in. dia. (1829 m of 10 mm)

#### DRIVE SYSTEM:

Engine	30 H.P. Air-Cooled (22 kW)
Hydraulic Drive	Closed Loop Hydrostatic
Anti-Rotation Drive Clutch	Each Drum, Individual Controls

#### TRAILER:

Axles	Tandem with Leaf Spring Suspension
GAWR	10,400 lbs. (4718 kg)
GVWR	11,600 lbs. (5262 kg)
Trailer Brakes	12 x 2 Electric on Each Wheel
Tires	(4) 8.75 x 16.5LT - 10 ply Rating
Tow Hitch	3 in. (76 mm) Pintle Eye with 4 Height Adjustments
Front Jack (1) and Rear Jacks (2)	Manual Screw Type with Drop-Leg
Trailer Lighting	4 Light System
Cargo Area	93 in. (2362 mm) long x 63 in. (1600 mm) wide

#### UNIT DIMENSIONS:

Length	15 ft. 3 in. (4.7 m)
Width	7 ft. 7 in. (2.3 m)
Height	5 ft. 10 in. (1.8 m)
Weight	5,500 lbs. (2495 kg)

#### GENERAL FEATURES:

- 12 Gallon (45.4 L) Fuel Reservoir with Level Gauge
- 18 Gallon (68.1 L) Hydraulic Reservoir with Level Gauge and Temperature Gauge
- Operator's Protective Screen
- Elevated Operator's Position for Full View of Pulling Operation
- Individual Drum Clutch Controls and Bronze Disc Brakes for Payout of Rope
- Steel Lockable Battery Box
- Unit Sandblasted, Primed and Painted with 2 Coats of Orange Acrylic Enamel

#### OPERATOR CONTROLS:

- Direction Control Lever with Infinite Speed Adjustment and Anti-Payout Stop
- Adjustable Pull / Tension Control with Limit if Preset Tension is Reached
- Hydraulic System Pressure Gauge
- Keyed Engine Ignition
- Engine Throttle Control
- Engine Choke Control
- Permanently Engraved Operator's Control Panel

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### TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**FOUR DRUM PULLER**


The DP20-4H is a versatile, hydraulically powered four drum puller designed for medium distribution stringing. It can be used as a pilot line winder for heavier distribution. Power is transmitted from the engine to the reels through a common hydraulic drive train. A diamond leadscrew levelwind accommodating one reel at a time, aids in the even wrap during pulling. Each reel is equipped with a mechanical clutch to allow selective reel rotation and a mechanical brake to retard overspin. The maximum desired linepull can be preset prior to pulling so that the reel drive will stall if a restriction to the line occurs avoiding damage to the conductor, towers and hardware.

The central operator's console allows the operator to completely control the pulling operation with optimum visibility of the pulling rope. Operator controls include linepull, linespeed, holding brake and engine controls.

**SPECIFICATIONS**

Maximum continuous linepull	907 daN (2,000 lbs)
Maximum linespeed	4.8 km/h (3 mph)
Reel diameter	787 mm (31")
Reel width	826 mm (32 1/2")
Reel core diameter	324 mm (12 3/4")
Reel capacity, synthetic rope	1829 m of 12 mm (6,000 ft. of 1/2")
Engine	22 kW (30 hp)
Axle	3175 kg (7,000 lbs)
Weight (approx)	2630 kg (5800 lbs)
Length (approx)	4266 mm (168")
Width (approx)	2438 mm (96")
Height (approx)	930 mm (76")

**STANDARD EQUIPMENT**

- Fully hydraulic drive system
- Infinitely variable speed and linepull control
- Automatic overpull protection system
- Spring applied, hydraulic release drive brake
- Single axle trailer mounted with electric trailer brakes and highway lighting package
- One front and two rear jacks
- Automatic diamond screw levelwind
- Free wheeling disconnect from each drum
- Bronze disc overspin brake on each drum
- Operator's seat and protective screen

**OPTIONS**

- Water cooled diesel
- Hydraulic front jack & rear jacks
- Lockable console cover

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**FOUR DRUM PULLERS**

This four drum puller with four separate pulling drums and ropes allow for the simultaneous or individual pulling in of three conductors and an earthwire

**STANDARD FEATURES**

Proven hydraulic pulling system with mechanical clutch for each drum  
Water-cooled engine  
Infinitely variable linespeed and linepull control  
Spring applied / hydraulic pressure released holding brake  
Four heavy duty pulling drums, each with capacity of 2,743 m of 16 mm (9,000 ft. of 5/8) synthetic rope  
Free-wheeling drum disconnect for high speed rope payout  
Bronze overspin brake on each drum  
Two hydraulic levelwinds controlled from operator's console  
Central operator's position for maximum safety and visibility with engraved console panel  
Single axle trailer with leaf spring suspension

**OPTIONS**

Four hydraulic levelwinds (one for each drum)  
Tandem axles in lieu of single axle  
Hydraulic actuated brake calipers for bronze overspin brake on each drum  
Automatic leadscrew levelwinds  
Diesel engine

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**FOUR DRUM PULLERS**

Model	DP30-4H	DP40-4H
<b>Performance:</b> Continuous torque rating Intermittent torque rating Continuous linepull rating Infinitely variable speed	(single drum) 790 daN-m (70,000 in.lbs) 847 daN-m (75,000 in.lbs) 1,360 kg (3,000 lbs) full drum 0-6.4 km/h (0-4 mph) full drum	(single drum) 1040 daN-m (92,000 in.lbs) 1130 daN-m (100,000 in.lbs) 1,1814 kg (4,000 lbs) full drum 0-7.3 km/h (0-4.5 mph) full drum
<b>Drum Capacity:</b> Drum outside diameter Drum width Drum core diameter Drum rope capacity Synthetic rope	1219 mm (48 ") 736 mm (29 ") 324 mm (12 3/4") 4114 m of 13mm dia (13,500 ft of 1/2" dia)	1219 mm (48 ") 736 mm (29 ") 324 mm (12 3/4") 2742 m of 16mm dia (9,000 ft of 5/8" dia)
<b>Drive System:</b> Engine Hydraulic drive Drive train brake Drum engagement Free wheeling disconnect Bronze overspin brakes	31 kW (42 hp) water cooled Closed loop hydrostatic Spring applied / hydraulic released Mechanical clutch on each drum Standard on each drum 508 mm (20") dia on each drum	48 kW (65 hp) water cooled Closed loop hydrostatic Spring applied / hydraulic released Mechanical clutch on each drum Standard on each drum 508 mm (20") dia on each drum
<b>Unit Dimensions:</b> Length Width Height Weight (including rope)	5.64 m (18.5 ft) 2.44 m (8 ft.) 2.59 m (8.5 ft.) 5896 kg (13,000 lbs)	5.64 m (18.5 ft) 2.44 m (8 ft.) 2.59 m (8.5 ft.) 5896 kg (13,000 lbs)
<b>Trailer:</b> Axles Trailer brakes Tires GAWR GVWR Tow hitch Front jack Rear jacks Trailer lighting Fenders	5443 kg (12,000 lbs) single axle with leaf spring Electric (2) 10:00R20-16 ply rating 5443 kg (12,000 lbs) 6124 kg (13,500 lbs) 76 mm (3") pintle eye with 4 height adjustments Drop leg Two drop leg, manual screw jack (optional hydraulic) DOT light system w 7 wire connector Diamond plate with mudflaps	
<b>General Features:</b> 68 liter (18 gallon) fuel reservoir with level gauge 114 liters (30 gallons) hydraulic reservoir with level and temperature gauges Operator's protective screen and seat Elevated operator's position for maximum safety and visibility Steel lockable battery box Two hydraulic boom type levelwinds Unit sandblasted, primed and painted with 2 coats of acrylic enamel	<b>Operator's Controls:</b> Direction control lever with infinite speed adjustment and anti-payout stop Adjustable pull/tension control with bypass if preset tension is reached Holding brake apply / release control Hydraulic system pressure gauge Engine controls: keyed ignition, throttle control, choke control Levelwind speed and direction control (not included with optional leadscrew levelwind systems) Permanently engraved operator's control panel	

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**ELECTRIC PULLER****DP-40E ELECTRIC PULLER**

- **Extremely quiet in operation**
- **Zero carbon emissions**

**T**he TIMBERLAND Model DP-40E is a heavy duty drum electric puller designed for light transmission and distribution line stringing. The reel drive incorporates a "NEW" electrical drive that allows the operator to infinitely vary the line speed and line pull for safe, positive control during the pulling operation. The maximum desired line pull can be preset prior to pulling so that the reel drive will stall if a restriction to the line occurs avoiding damage to the conductor, towers and hardware. The central operator's console allows the operator to completely control the pulling operation with optimum visibility of the pulling rope. Operator controls include line pull, line speed, holding brake and level wind.

Continuous Torque Rating 67,300 in-lbs.  
Continuous Line pull Rating 4,000 lbs.  
(with 6,000 ft. of 5/8" rope on the drum)  
0-2.5 mph line speed with infinite control

**STANDARD FEATURES**

- Electric pulling system (Patent Pending)
- Reel capacity up to 60" diameter, 54" wide and 6,000 lbs.
- Tandem axle with leaf spring suspension.
- Infinitely variable line speed and line pull control.
- Free wheeling disconnect for high speed rope pull out..
- Central operator's position for maximum safety and visibility
- Operator's seat with horizontal and vertical adjustments.
- Quick change reel shaft with straight vertical lift.
- Engraved operator's console.

**OPTIONAL EQUIPMENT**

- Bronze over-spin pay-out brake (mechanical)
- Electric overhead level-wind.
- Combination overhead/underground level-wind.
- Mechanical drop-leg rear jacks.
- 4440 Heavy duty pulling drum.
- 4852 Heavy duty pulling drum.
- Underground pulling drum.
- BR6030 breakaway reel.

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**DRUM PULLER**

**SPECIFICATIONS**
**Model DP-60**

Max continuous torque 2033 daNm (180,000 in.lbs.)  
 Max linespeed 6.4 km/h (4 mph)  
 Linepull\* 2720 daN (6000 lbs)

**Model DP-70**

Max continuous torque 2370 daNm (210,000 in.lbs.)  
 Max linespeed 5.5 km/h (3.4 mph)  
 Line pull\* 3174 daN (7000 lbs)

**Model DP-60 / DP-70**

Maximum reel dimensions 1.8 m x 1.3 m (72" x 52")  
 Reel shaft diameter 89 mm (3 1/2")  
 Engine (diesel) 97 kW (130 hp)  
 Weight (wo reel/rope) 4150 kg (9150 lbs)  
 Length 5.64 m (222")  
 Width 2.44 m (96")

\* Linepull is shown at 762 mm (30") radius

**STANDARD EQUIPMENT**

Fully hydraulic drive system  
 Infinitely variable speed and linepull control  
 Automatic overpull protection system  
 Water cooled diesel engine  
 Spring applied, hydraulic release drive brake  
 Tandem axle trailer with highway lighting  
 Single front and two rear jacks  
 Hydraulic levelwind  
 Reel shaft free wheeling disconnect 406 mm (16") diameter bronze disc reel brake  
 Quick change reel shaft system

**OPTIONS**

Model 6052 (1524 mm x 1320 mm) reel  
 Model 7252 (1829 mm x 1320 mm) reel  
 Air/hydraulic trailer brakes

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**THREE DRUM PULLER**

**SPECIFICATIONS**

Continuous torque rating	
Low speed	1762 daN-m (156,000 in-lbs.)
High speed	881 daN-m (78,000 in-lbs.)
Intermittent torque rating	
Low speed	1864 daN-m (165,000 in-lbs)
High speed	932 daN-m (82,500 in-lbs)

**REEL CAPACITY**

Reel diameter	1117 mm (44")
Reel width (between the flanges)	1397 mm (55")
Reel core diameter	508 mm (20")
Reel shaft diameter	89mm (3 1/2")

Reels are easily removable for legal highway transport

**STANDARD EQUIPMENT**

- Fully hydrostatic drive
- 151 liter (40 gal) hydraulic reservoir
- Infinitely variable speed and linepull controls
- Spring applied, hydraulic released safety brake
- Overpull protective circuit
- Engine 119 kW (160 hp)
- Fuel tank 189 liters (50 gal)
- 12V electric start
- Heavy duty 12V battery
- Lockable steel battery box
- Center mounted operator's control station for optimum visibility
- Operator protective screen
- Hydraulic operated levelwinds
- Freewheel disconnect and 914 mm (36") bronze overspin brake

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**DRUM PULLER**


The DP100 is a heavy duty drum puller designed for transmission line stringing in the 3500-4500 daN (8,000-10,000 lb) range. Powered by a 123 kW (165 hp) diesel engine with twin hydrostatic transmissions, the unit provides continuous, infinitely variable speed, torque and directional control within the performance parameters.

Each transmission is equipped with two speeds to provide greater flexibility of the pulling operation by allowing increased speed or increased line pull. The drive incorporates a spring applied / hydraulically released safety brake which applies automatically in the event of an engine shutdown or can be applied by the operator from the control console.

Centrally located controls with protective operator's enclosure allow one operator to set up the unit and complete the pulling operation. The operator's controls are designed to automatically limit linepull to a presettable maximum value to prevent damage to the conductor, towers, stringing blocks and the line hardware.

The machine also incorporates a freewheel disconnect and 914 mm (36") bronze overspin brake to allow the pulling rope to be installed at high speeds and under controlled tensions. The rear mounted engine greatly reduces noise at the operator's position.

**SPECIFICATIONS**

Max continuous linepull	4448 daN (10,000 lbs)
Max intermittent linepull	5338 daN (12,000 lbs)
Linespeed	0-8 kmh (0-5 mph) variable
Engine	123 kW (165 hp)
Drum capacity	3657 m of 22 mm (12,000' of 7/8") rope

**STANDARD EQUIPMENT**

- Fully hydrostatic drive
- Infinitely variable speed and linepull controls
- Two speed ranges for optimum performance
- Spring applied, hydraulic released safety brake
- Overpull protective circuit
- Enclosed operator's control station
- Hydraulic operated levelwind
- Freewheel disconnect and 914 mm (36") bronze overspin brake
- Front and rear jacks
- Pintle eye trailer with tandem axles

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**DRUM PULLER**


The DP200 is a heavy duty drum puller designed for transmission line stringing in the 3500-4500 daN (8,000-10,000 lb) range. Powered by a 134 kW (180 hp) diesel engine with twin hydrostatic transmissions, the unit provides continuous, infinitely variable speed, torque and directional control within the performance parameters.

Each transmission is equipped with two speeds to provide greater flexibility of the pulling operation by allowing increased speed or increased line pull. The drive incorporates a spring applied / hydraulically released safety brake which applies automatically in the event of an engine shutdown or can be applied by the operator from the control console.

Centrally located controls with protective operator's enclosure allow one operator to set up the unit and complete the pulling operation. The operator's controls are designed to automatically limit linepull to a presettable maximum value to prevent damage to the conductor, towers, stringing blocks and the line hardware.

The machine also incorporates a freewheel disconnect and 914 mm (36") bronze overspin brake to allow the pulling rope to be installed at high speeds and under controlled tensions. The rear mounted engine greatly reduces noise at the operator's position.

**SPECIFICATIONS**

Max continuous linepull	8896 daN (20,000 lbs) @ 3.7 km/h (2.3 mph)
Max intermittent linepull	4626 daN @ 6.4 km/h (4 mph) 9786 daN (22,000 lbs)
Linespeed	0-6.4 kmh (0-4 mph) variable
Engine	134 kW (180 hp)
Drum capacity	5181 m of 16 mm (17,000' of 5/8") wire rope

**STANDARD EQUIPMENT**

- Fully hydrostatic drive
- Infinitely variable speed and linepull controls
- Three speed ranges for optimum performance
- Spring applied, hydraulic released safety brake
- Overpull protective circuit
- Enclosed operator's control station
- Automatic diamond screw levelwind
- Freewheel disconnect and 914 mm (36") bronze overspin brake
- Front and rear jacks
- Pintle eye fifth wheel trailer with tandem axles and air brakes

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## DRUM PULLER



### SPECIFICATIONS

#### Performance

Continuous linepull	14,679 daN (33,000 lbs) @ 2.1-2.5 mph
	13,345 daN (30,000 lbs) @ 2.7-3.0 mph
	11,120 daN (25,000 lbs) @ 3.2-3.9 mph
	8,896 daN (20,000 lbs) @ 4.0-4.8 mph

#### Drum Capacity

Outside diameter	1879 mm (74")
Width between flanges	1505 mm (59 1/4")
Core diameter	508 mm (20")
Capacity	9,144 m (30,000 ft) of 19 mm (3/4") dia. wire rope

Engine (diesel)	343 kW (460 hp)
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#### Truck (generic specifications)

Axles	29,483 kg (65,000 lbs) capacity rear tandem with leaf suspension
	9,072 kg (20,000 lbs) front driving axle with leaf spring suspension
Brakes	Air
Tires	(12) 12:00R24 18 ply rating
GVWR	38,555 kg (85,000 lbs)
Driver's cab	heated & air conditioned
Winches	front and rear 30,000 lb capacity
Stabilizers	two rear hydraulic with locking valves
Towing package	rear towing package with electric trailer brakes

#### Unit Dimensions

Length (approx)	9,017 mm (29'7")
Width (approx)	2,629 mm (8'7.5")
Height (approx)	3,810 mm (12'6")
Weight (approx)	38,555 kg w 7,620 m of 19 mm swaged wire rope
	85,000 lbs w 25,000 ft of 3/4 swaged rope installed

### STANDARD EQUIPMENT

Proven hydrostatic pulling system with infinitely variable linespeed and linepull control  
 343 kW (460 hp) diesel engine driving both the truck and drum puller  
 14,679 daN (33,000 lbs) continuous linepull at full drum  
 Heavy duty drum with capacity for up to 9144 m (30,000 ft) of 19mm (3/4") swaged steel wire rope  
 Spring-applied hydraulically released holding brake  
 13,345 daN (30,000 lb) capacity front and rear two speed winches  
 Air conditioned and heated operator's cab for maximum safety and visibility  
 Permanently engraved console control panel  
 Two heavy duty rear hydraulic stabilizers with lock valves  
 Automatic diamond leadscrew levelwind system for even spooling of rope onto drum  
 Auxiliary hydraulic system for remote mounted reel winder  
 6x6 wheel drive truck  
 85,000 GVWR  
 10 speed transmission  
 2 x 50 gallon fuel reservoirs with level gauge  
 150 gallon hydraulic reservoir with level and temperature gauge  
 Hydraulic fan driven oil cooler with thermostat for positive heat dissipation  
 Hydraulic controls for remote reel winder

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## DRUM PULLER



### SPECIFICATIONS

#### Performance

Continuous linepull	14,679 daN (33,000 lbs) @ 2.1-2.5 mph
	13,345 daN (30,000 lbs) @ 2.7-3.0 mph
	11,120 daN (25,000 lbs) @ 3.2-3.9 mph
	8,896 daN (20,000 lbs) @ 4.0-4.8 mph

#### Drum Capacity

Outside diameter	1879 mm (74")
Width between flanges	1505 mm (59 1/4")
Core diameter	508 mm (20")
Capacity	9,144 m (30,000 ft) of 19 mm (3/4") dia. wire rope

Engine (diesel)	279 kW (375 hp)
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### OPERATOR'S CONTROLS

Direction control lever with infinite speed adjustment  
 Adjustable pull/tension control with bypass if preset linepull is reached  
 Speed range selector low/medium/high  
 Holding brake apply/release control  
 Hydraulic system pressure gauge  
 Engine throttle control  
 Remote reel stand direction and linepull control  
 Permanently engraved control panel

### STANDARD EQUIPMENT

Proven hydrostatic pulling system with infinitely variable linespeed and linepull control  
 Spring-applied hydraulically released holding brake  
 Automatic diamond leadscrew levelwind system for even spooling of rope onto drum  
 Auxiliary hydraulic system for remote mounted reel winder  
 150 gallon hydraulic reservoir with level and temperature gauge  
 Hydraulic fan driven oil cooler with thermostat for positive heat dissipation  
 Hydraulic controls for remote reel winder



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**DRUM PULLER**



SPECIFICATIONS

<b>Performance</b>	
Continuous linepull	13,345 daN (30,000 lbs) @ 3.0 mph 22,240 daN (50,000 lbs) @ 2.1mph
<b>Drum Capacity</b>	
	9,574 m of 16 mm (32,000 ft of 5/8") rope 6,705 m of 19 mm (22,000 ft of 3/4") rope 4,878 m of 22 mm (16,000 ft of 7/8") rope
<b>Engine (diesel)</b>	320 kW (430 hp)

OPERATOR'S CONTROLS

- Direction control lever with infinite speed adjustment
- Adjustable pull/tension control with bypass if preset linepull is reached
- Speed range selector low/medium/high
- Holding brake apply/release control
- Hydraulic system pressure gauge
- Engine throttle control
- Remote reel stand direction and linepull control
- Permanently engraved control panel

STANDARD EQUIPMENT

- Proven hydrostatic pulling system with infinitely variable linespeed and linepull control
- Spring-applied hydraulically released holding brake
- Automatic diamond leadscrew levelwind system for even spooling of rope onto drum
- Auxiliary hydraulic system for remote mounted reel winder
- 150 gallon hydraulic reservoir with level and temperature gauge
- Hydraulic fan driven oil cooler with thermostat for positive heat dissipation
- Hydraulic controls for remote reel winder

OPTIONS

- Trailer mounting - fifth wheel, tandem axle including air brakes, breakaway connections with fenders and mudflaps
- High regulation lighting
- Hydraulic operated levelwind boom
- Heavy duty collapsible cab, complete with shatter resistant plexiglass, protective wire screen with heater

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**BULLWHEEL PULLER**

**SPECIFICATIONS**

Maximum linepull	4000 daN (8990 lbs)
Maximum linespeed	5 km/h (3.1 mph)
Bullwheel diameter	406 mm (16")
Maximum rope diameter	16 mm (5/8")
Power (Diesel)	48 kW (65 hp)
Weight (approx)	1678 kg (3700 lbs)
Length (approx)	2590 mm (102")
Width (approx)	1828 mm (72")
Height (approx)	1524 mm (60")

**STANDARD EQUIPMENT**

Fully hydraulic drive system  
 Infinitely variable speed and linepull control  
 Direct drive bullwheels with totally enclosed oil bath, gearbox  
 Automatic overpull protection system  
 Diesel power unit  
 Spring applied, hydraulic released brakes  
 Single axle trailer  
 Hydraulic oil cooler  
 Console cover  
 Integral self-loading reel winder for reel sizes up to 1400 mm (55") diameter x 600 mm (24") wide x 2000 kg (4400 lbs), includes automatic diamond leadscrew levelwind

**OPTIONS**

Auxiliary hydraulic circuit for separate reel winder  
 Tower fairlead  
 Highway lighting



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## V-GROOVE PULLER



This puller is ideal for re-conductoring projects where the old conductor or earthwire is utilized to directly pull in the new conductor or OPGW.

### SPECIFICATIONS

Maximum line pull	4000 daN (8990 lbs)
Maximum line speed	5 km/h (3.1 mph)
Bull wheel diameter	1375 mm (54")
Power (Diesel)	44.5 kW (60 hp)
Weight (approx.)	2265 kg (4995 lbs)
Length (approx.)	3581 mm (141")
Width (approx.)	1524 mm (60")
Height (approx.)	2211 mm (87 1/16")

### EXCLUSIVE FEATURE

Canted Bull wheel design

- Use old earthwire or conductor as pulling rope
- reduce bending stress on old conductor
- V-groove will pass conductor joints
- Linings are replaceable

### STANDARD FEATURES

Fully hydraulic drive, direct drive system  
 Infinitely variable speed control  
 Automatic overpull protection system  
 Oil cooled diesel power unit  
 Spring applied, hydraulic release brakes  
 Auxiliary hydraulic circuit to operate separate reel winder  
 Hydraulic oil cooler  
 Single axle trailer on high flotation tires  
 3 roller tail fairlead  
 Console cover

### OPTIONS

Highway lighting  
 Tower fairlead

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**BULLWHEEL PULLER**

**SPECIFICATIONS**
**Model P80-1H/1DD**

Maximum line pull	8,000 daN (17,990 lbs)
Maximum line speed	5 km/hr (3.1 mph)
Bull wheel diameter	457 mm (18")
Maximum rope diameter	18 mm (11/16")
Power (Diesel)	82 kW (110 hp)
Weight (approx)	2360 kg (5200 lbs)
Length (approx)	3100 mm (122")
Width (approx)	2210 mm (87")
Height (approx)	2140 mm (84")

**Model P100-1H/1DD**

Maximum line pull	10,000 daN (22,500 lbs)
Maximum line speed	5 km/hr (3.1 mph)
Bull wheel diameter	508 mm (20")
Maximum rope diameter	22 mm (7/8")
Power (Diesel)	97 kW (130 hp)
Weight (approx)	2500 kg (5500 lbs)
Length (approx)	3300 mm (130")
Width (approx)	2235 mm (88")
Height (approx)	2140 mm (84")

**STANDARD FEATURES**

Fully hydraulic drive system  
 Direct Drive Bullwheels, no chains or gears  
 Infinitely variable speed and linepull control  
 Automatic overpull protection system  
 Water cooled diesel power unit  
 Spring applied, hydraulic released brakes  
 Single axle trailer  
 Auxiliary hydraulic circuit for separate reelwinder

**OPTIONS**

Highway package  
 Integral self loading reelwinder for reel sizes up to 1400 mm (55") diameter, 600 mm (24") wide, 2000 kg (4400 lbs.)  
 Console cover

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## BULLWHEEL PULLER



The P180-1H/1DD bullwheel puller is a compact unit designed to work in the roughest remote job sites.

The unit offers constant line pull and line speed with built in overload protection and potentially unlimited pulling lengths.

The operator is positioned in a safe position remote from the bullwheels with a clear view of the pulling operation.

### PERFORMANCE FEATURES

Maximum Line pull	18,000 daN (39,690 lbs.)
Maximum Line speed	5 km/hr (3.1 mph)

### PULLER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	610 mm (24")
Maximum rope diameter	24 mm (1.0")

### ENGINE SPECIFICATIONS

Water cooled diesel engine	194 kW (260 hp)
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### MECHANICAL DRIVE SPECIFICATIONS

Full hydraulic drive  
 Infinite variable speed and line pull and tensioning control  
 Automatic over-pull protection system with line pull gauge  
 Auxillary hydraulic circuit to power and control separate hydraulic wheel winder

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives and integrated reelwinder (if equipped) apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approximate)	6,000 kg (13,230 lbs)
Length with IRW (Approximate)	6096 mm (240")
Width (Approximate)	2235 mm (88")
Height with IRW (Approximate)	2819 mm (111")

### OPTIONS

Integral self loading reelwinder for reel sizes up to 1400 mm (55") diameter, 600 mm (24") wide, 2000 kg (4400 lbs.)  
 Air ride axle suspension  
 Air over hydraulic brakes for axle  
 Tail clamp for easy reel changes  
 Extra reelshaft for reelwinder  
 Console cover  
 Highway lighting

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## BULLWHEEL PULLER



### PERFORMANCE FEATURES

Maximum Linepull	1 x 21000 daN (46,242 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	762 mm (30")
Maximum rope diameter	30mm (1.2")
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Water cooled diesel engine	194.0 kW (260 hp)
12V electric system	

### MECHANICAL DRIVE SPECIFICATIONS

Bull wheels driven by fully enclosed planetary gearbox drive  
 Infinite variable speed, line pull control  
 Automatic over-pull protection system with line pull gauge  
 Heavy duty hydraulic oil cooler  
 Replaceable hydraulic oil filters complete with visual dirt alarms

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown

Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approx)	6,805 kg (14,990 lbs)
Length (Approx)	4800 mm (189")
Width (Approx)	2235 mm (88")
Height (Approx)	2870 mm (113")

### OPTIONS

Side mount operator's seat  
 Air-ride axle suspension  
 Highway lighting  
 air actuated trailer brakes

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL PULLER



The P220-1H/1DD bullwheel puller is a compact unit designed to work in the roughest remote job sites. The powerful hydraulic system powers totally enclosed planetary drives protected from dirt and weather.

The unit offers constant line pull and line speed with built in overload protection and potentially unlimited pulling lengths.

The operator is positioned in a safe position remote from the bullwheels with a clear view of the pulling operation. The frame design includes a single point lift for lifting with a crane.

### PERFORMANCE FEATURES

Maximum Line pull	22,000 daN (49,500 lbs.)
Maximum Line speed	8 km/hr (5 mph)

### PULLER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	914 mm (36")
11 machined grooves per bull wheel set	53 mm (2.4")
Maximum rope diameter	38 mm (1.5")

### ENGINE SPECIFICATIONS

Water cooled Caterpillar diesel engine	328 kW (440 hp)
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### MECHANICAL DRIVE SPECIFICATIONS

Full hydraulic drive  
 Direct drive bull wheels, no chains or gears  
 Infinite variable speed and line pull and tensioning control  
 Automatic over-pull protection system with line pull gauge  
 Auxillary hydraulic circuit to power and control separate hydraulic reel winder

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives and integrated reelwinder (if equipped) apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approximate)	12,200 kg (26,900 lbs)
Length (Approximate)	7060 mm (278")
Width (Approximate)	2441 mm (87")
Height (Approximate)	2680 mm (134")

### OPTIONS

Integral self loading reelwinder for reel sizes up to 1900 mm (75") diameter, 560 mm (22") wide, 4000 kg (8800 lbs.)  
 Air brakes for axle  
 Air ride axle suspension  
 Tail clamp for easy reel changes  
 Sound attenuation package  
 Vandal protection package  
 Highway lighting

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## BULLWHEEL PULLER



The P250-1H/1DD is a direct drive bullwheel puller designed for pulling large diameter rope for conductor stringing.

The direct drive bullwheel design eliminates the use of chains or gears in the design. The hydraulic system has infinitely variable linespeed and linepull control with automatic overpull protection.

The unit is mounted on a single axle trailer with large high flotation tires suitable for towing in rough terrain environments.

### PERFORMANCE FEATURES

Maximum Linepull	1 x 25000 daN (55,100 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	914 mm (36")
Maximum rope diameter	36mm (1 7/16")
5 grooves per bull wheel set	

### ENGINE SPECIFICATIONS

Water cooled diesel engine	261.0 kW (350 hp)
12V electric system	

### MECHANICAL DRIVE SPECIFICATIONS

Bull wheels driven by fully enclosed planetary gearbox drive  
 Infinite variable speed, line pull control  
 Automatic over-pull protection system with line pull gauge  
 Heavy duty hydraulic oil cooler  
 Replaceable hydraulic oil filters complete with visual dirt alarms

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approx)	9638 kg (21,250 lbs)
Length (Approx)	5182 mm (204")
Width (Approx)	2210 mm (87")
Height (Approx)	2743 mm (108")

### OPTIONS

Integral mounted reel winder suitable for reel sizes up to 1400mm (55") diameter x 600mm (24") wide x 2000kg (4400lbs)  
 Side mount operator's seat  
 Bullwheel rope guards  
 Air-ride axle suspension  
 Highway lighting  
 air actuated trailer brakes

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## HYDRAULIC BULLWHEEL PULLER



The P280-1H/1DD bullwheel puller is a compact unit designed to work in the roughest remote job sites. The powerful hydraulic system powers totally enclosed planetary drives protected from dirt and weather.

The unit offers constant line pull and line speed with built in overload protection and potentially unlimited pulling lengths.

The operator is positioned in a safe position remote from the bullwheels with a clear view of the pulling operation. The frame design includes a single point lift for lifting with a crane.

### PERFORMANCE FEATURES

Maximum Line pull	28,000 daN (62,950 lbs.)
Maximum Line speed	5 km/hr (3.1 mph)

### PULLER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	914 mm (36")
11 machined grooves per bull wheel set	53 mm (2.4")
Maximum rope diameter	38 mm (1.5")

### ENGINE SPECIFICATIONS

Water cooled Caterpillar diesel engine	328 kW (440 hp)
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### MECHANICAL DRIVE SPECIFICATIONS

Full hydraulic drive  
 Direct drive bull wheels, no chains or gears  
 Infinite variable speed and line pull and tensioning control  
 Automatic over-pull protection system with line pull gauge  
 Auxillary hydraulic circuit to power and control separate hydraulic reel winder

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives and integrated reelwinder (if equipped) apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approximate)	12,200 kg (26,900 lbs)
Length (Approximate)	6553 mm (258")
Width (Approximate)	2210 mm (87")
Height (Approximate)	3403 mm (134")

### OPTIONS

Integral self loading reelwinder for reel sizes up to 1900 mm (75") diameter, 560 mm (22") wide, 4000 kg (8800 lbs.)  
 Air brakes for axle  
 Air ride axle suspension  
 Tail clamp for easy reel changes  
 Sound attenuation package  
 Vandal protection package  
 Highway lighting

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## **SECTION 2**

# **REEL WINDERS**

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### **TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**INTEGRAL REEL WINDERS**



OPTIONAL INTEGRAL REEL WINDER

**Model IRW-14**

Self-loading of reels up to 1400 mm (55") diameter x 560 mm (22") wide x 2000 kg (4410 lbs.)

**Model IRW-19**

Self-loading of reels up to 1900 mm (75") diameter x 560 mm (22") wide x 4000 kg (8818 lbs.)

GENERAL FEATURES

The reelwinder automatically synchronizes its speed with the bullwheels  
Hydraulic cylinders lift for reelwinder incorporates counterbalance valve for smooth and safe operation  
Drive line brake in reelwinder drive prevents rope from slipping through the bullwheels when the puller engine is not running  
Diamond leadscrew levelwind, automatic reversing type keeps rope evenly spooled on drum

EXCLUSIVE FEATURE

Timberland's quick change reelshaft system is the fastest and easiest method of changing reels available

OPTION

Quick disconnects can be provided to allow synchronization of a remote reelwinder, hydraulic drive

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**REEL WINDERS**



SPECIFICATIONS

Model RW50-1212SL

Length (Approx)	2030mm (80")
Width (Approx)	1730mm (70")
Height (Approx)	1220mm (48")
Weight (Less reel)	363 kg (800 lbs)

Reel Capacity

Maximum width	1220mm (48")
Maximum diameter	1220mm (48")
Maximum reel weight	4,990kg (11,000lbs)

PERFORMANCE

227kg @ 7.2 km/h (500lbs @ 4.5 mph)

STANDARD EQUIPMENT

Lightweight easily disassembled components for portability  
Hydraulic drive motor is pin mounted allowing transfer from one rope Let-off stand to another converting to a rope winder  
Built-in screw type jacks for self-loading of rope reels  
Manual caliper disc brake

OPTIONS

Automatic leadscrew levelwind system for rope winder function  
Steel pulling rope reels

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**REEL WINDERS**


MODEL	RW-12-72x44	RW-15-90x52	RW-20-96x52
<u>REEL CAPACITY</u>			
Maximum reel diameter	1830mm (72")	2286mm (90")	2438mm (96")
Maximum reel width	1120mm (44")	1320mm (52")	1320mm (52")
Maximum reel weight	5443 kg (12,000lbs)	6804kg (15,000lbs)	9072kg (20,000lbs)
<u>GENERAL SPECIFICATIONS</u>			
Reel shaft diameter	66mm (2 5/8")	89mm (3 1/2")	89mm (3 1/2")
<u>PERFORMANCE (LINE PULL OR TENSION) AT SPECIFIED REEL DIAMETER</u>			
762mm (30") diameter	594 daN @ 7.2 km/h (1300 lbs @ 4.5 mph)		
1220mm (48") diameter	364 daN @ 11.2 km/h (800 lbs @ 7.3 mph)		
1828mm (72") diameter	227 daN @ 18.7 km/h (500 lbs @ 11.7 mph)		

**GENERAL FEATURES**

Fully hydraulic drive with fixed displacement hydraulic motor and planetary gear reducer drive (hydraulic power from bullwheel puller or other source)  
Spring applied / hydraulic pressure released drive line brake, rated for 150% of load. Applies automatically in the event of loss of hydraulic power  
Quick change reel shaft removal system

**OPTIONS**

Freewheel clutch pin for payout of rope  
Manual reel shaft brake caliper with bronze disc brake for controlled payout of rope  
Hydraulic brake caliper (in lieu of manual caliper)  
Air brake caliper  
Hydraulic boom type levelwind  
Self-powered diamond leadscrew levelwind

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## REEL WINDERS



MODEL	TRW-12-72x44	TRW-15-90x52	TRW-20-96x52
<u>REEL CAPACITY</u>			
Maximum reel diameter	1830mm (72")	2286mm (90")	2438mm (96")
Maximum reel width	1120mm (44")	1320mm (52")	1320mm (52")
Maximum reel weight	5443 kg (12,000lbs)	6804kg (15,000lbs)	9072kg (20,000lbs)
<u>GENERAL SPECIFICATIONS</u>			
Reel shaft diameter	66mm (2 5/8")	89mm (3 1/2")	89mm (3 1/2")
<u>PERFORMANCE (LINE PULL OR TENSION) AT SPECIFIED REEL DIAMETER</u>			
762mm (30") diameter	594 daN @ 7.2 km/h (1300 lbs @ 4.5 mph)		
1220mm (48") diameter	364 daN @ 11.2 km/h (800 lbs @ 7.3 mph)		
1828mm (72") diameter	227 daN @ 18.7 km/h (500 lbs @ 11.7 mph)		

### GENERAL FEATURES

Fully hydraulic drive with fixed displacement hydraulic motor and planetary gear reducer drive (hydraulic power from bull wheel puller or auxiliary hydraulic power pack)  
 Spring applied / hydraulic   
 Quick change reel shaft removal system  
 Tandem axle trailer mount


### OPTIONS

Freewheel clutch pin for payout of rope  
 Manual reel shaft brake caliper with bronze disc brake for controlled payout of rope  
 Hydraulic brake caliper (in lieu of manual caliper)  
 Air brake caliper

Hydraulic boom level-wind  
 Self-powered diamond lead-screw level-wind  
 Electric, hydraulic or air trailer brakes  
 Highway lighting

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**SECTION 3**  
**PULLER-TENSIONERS**

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Timberland Equipment Limited  
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At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

**DRUM PULLER-TENSIONER**



**DPT-30B PULLER-TENSIONER LEADS THE MARKET WITH THE MOST INNOVATIVE DESIGN  
AND FEATURES IN THE INDUSTRY**

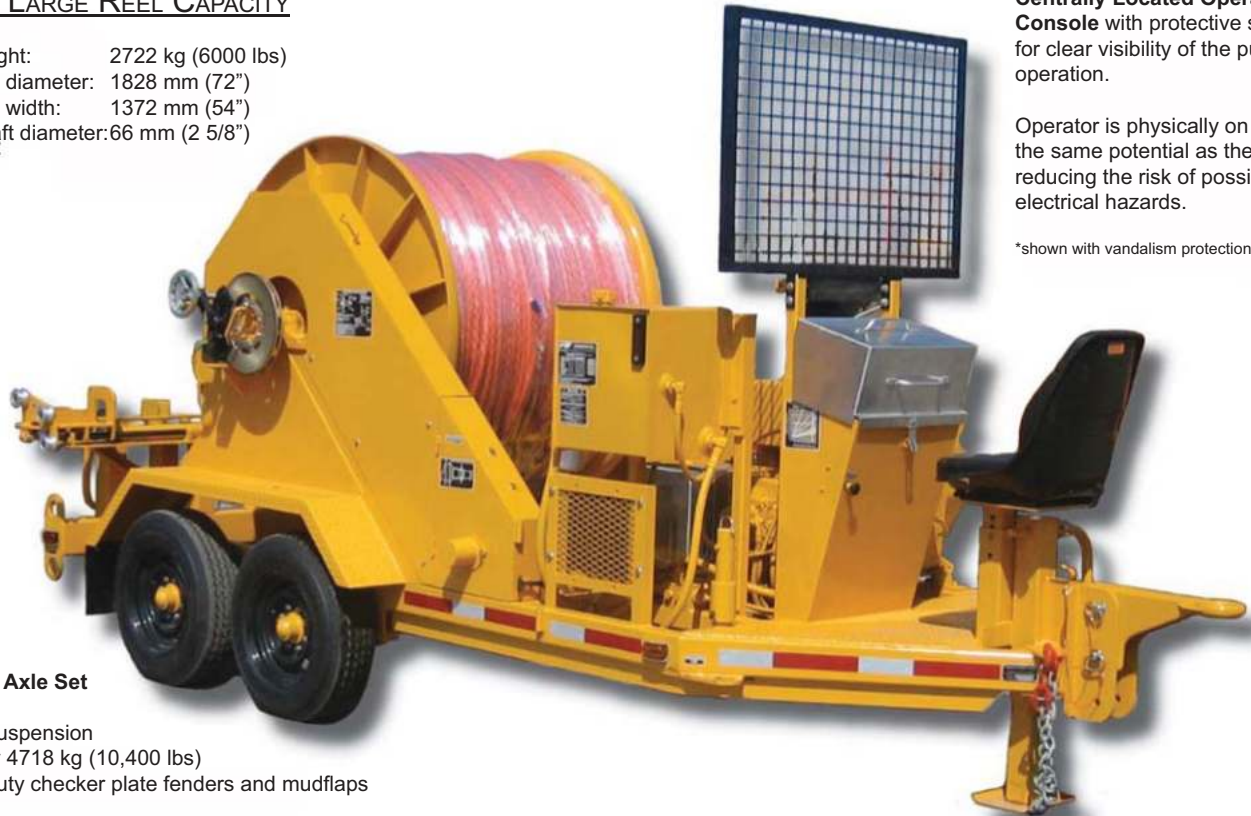
**OUR PEOPLE CARE ...  
OUR EQUIPMENT IS THE PROOF**

**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**DRUM PULLER-TENSIONER**

EXTRA LARGE REEL CAPACITY

Max weight: 2722 kg (6000 lbs)  
 Max reel diameter: 1828 mm (72")  
 Max reel width: 1372 mm (54")  
 Reel shaft diameter: 66 mm (2 5/8")



**Centrally Located Operator's Console** with protective screen for clear visibility of the pulling operation.

Operator is physically on and in the same potential as the machine reducing the risk of possible electrical hazards.

\*shown with vandalism protection cover

**Tandem Axle Set**

Spring suspension  
 Capacity 4718 kg (10,400 lbs)  
 Heavy duty checker plate fenders and mudflaps



**20 kW (27 hp) water cooled diesel engine** with 12V electronic ignition. Hydraulic oil cooler for positive cooling during hot weather operation and extended hydraulic component life.

\* Shown with Hatz Quiet Pak



**Permanently engraved control panel** with user-friendly controls. Infinitely variable speed, pull and tension controls.



**Bronze Overspin Brake**  
 406 mm (16") diameter manual controlled for light tension applications. (ie tensioning bullrope)

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**DRUM PULLER-TENSIONER**

**Hydraulically controlled levelwind**

**High speed levelwind for Polemaster™ system**

**Adjustable, 4 position pintle hitch** with safety chains and electrical breakaway switch to engage trailer brakes in case of hitch disengagement.

**GENERAL FEATURES**

Fuel Tank: 45 liters (12 gallons) with level gauge  
 Hydraulic reservoir: 68 liters (18 gallons) with level and temp gauge

Hydraulic oil cooler for positive heat dissipation in tensioning mode  
 Operator's protective screen  
 Elevated operator's position for full view of pulling operation  
 Freewheeling drive with easy pin disconnect for payout of pulling rope  
 Steel, locable battery box  
 Quick change reel shaft removal system  
 Unit sandblasted, primed and painted with two coats of urethane enamel

**PERFORMANCE**

Continuous torque rating: 588 daNm (52,000 in-lbs)  
 Intermittent torque rating: 678 daNm (60,000 in-lbs)  
 Continuous linepull rating:

1,565 kg with 1,829m of 16 mm rope  
 (3,450 lbs with 6,000 ft of 5/8" rope)

Speed: 0-4 km/h (0-2.5 mph) with infinite speed control

Engine: 20 kW (27 hp) air cooled diesel  
 (optional Hatz Quiet Pak - sound attenuated)

Hydraulic drive: closed loop hydrostatic  
 Drive train brake: spring applied, hydraulic released

**OPERATOR'S CONTROLS**

Direction control with infinite speed adjustment and anti-payout stop  
 Adjustable pull/tension control with limit if preset tension is reached  
 Holding brake apply/release control  
 Hydraulic system pressure gauge  
 Keyed engine ignition  
 Engine throttle control  
 Engine choke control  
 Levelwind speed and direction controls (optional)  
 Permanently engraved operator's panel

**TRAILER**

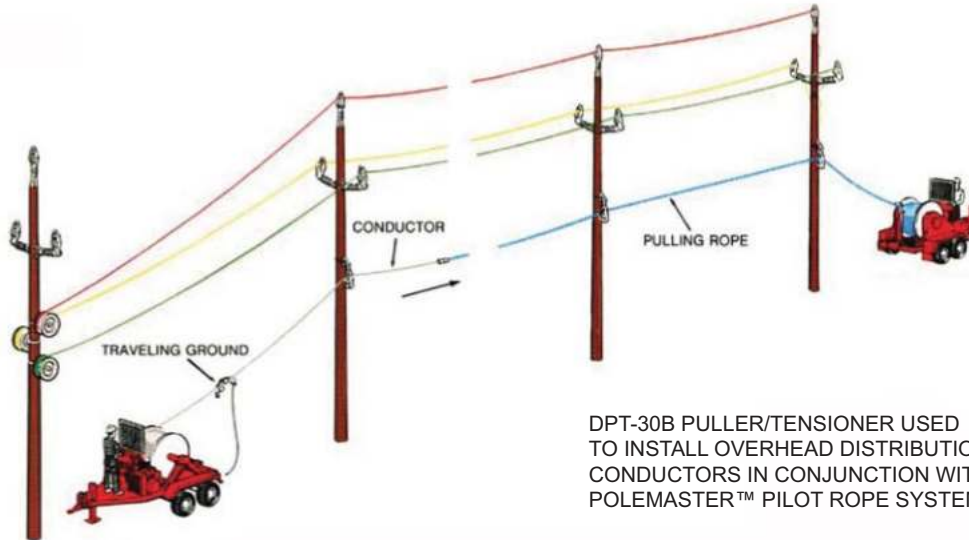
Axles: tandem with leaf spring suspension  
 Trailer brakes: 12 x 2 electric on each wheel  
 Tires: (4) 8.75 x 16.5LT 10 ply rating  
 GAWR: 4,718 kg (10,400 lbs)  
 GVWR: 5,262 kg (11,600 lbs)  
 Tow Hitch: 76 mm (3 in) pintle eye system with 4 height adjustments  
 Front Jack: Manual screw with drop leg adjustment (optional hydraulic)  
 Rear Jacks: (QTY 2) as above (optional hydraulic)  
 Trailer lighting: 4 light system highway lighting

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

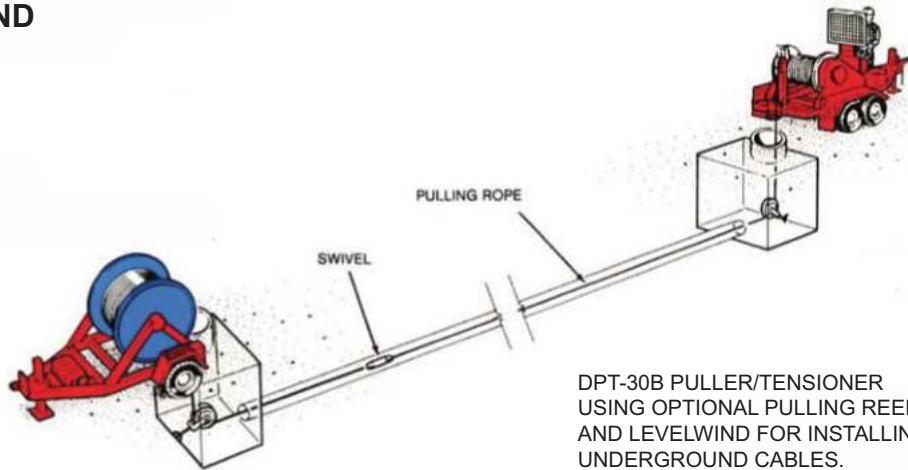
**DRUM PULLER-TENSIONER**

**OVERHEAD**



DPT-30B PULLER/TENSIONER USED TO INSTALL OVERHEAD DISTRIBUTION CONDUCTORS IN CONJUNCTION WITH POLEMASTER™ PILOT ROPE SYSTEM.

**UNDERGROUND**



DPT-30B PULLER/TENSIONER USING OPTIONAL PULLING REEL AND LEVELWIND FOR INSTALLING UNDERGROUND CABLES.

**OPTIONS**

- Operator's seat with vertical and horizontal adjustment
- Overspin payout brake with 406 mm (16") bronze disc with manual caliper for controlled payout of pulling rope
- Steel pulling and breakaway reels
- Highspeed polemaster™ drive with levelwind
- Hydraulic overhead levelwind
- Sound attenuated engine
- Hydraulic combination overhead/underground system
- Underground pulling reel
- Hydraulic jacks
- Vandalism package
- Protective cover (for machine or reels only)
- Tow hitch receiver to allow tandem trailer towing

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## PULLER-TENSIONER



The DPT-40B is a proven hydrostatic pulling and tensioning system with hydraulic oil cooler and water cooled diesel engine. The DPT-40B is mounted on a dual axle trailer with leaf spring suspension with a reel capacity of 1828 mm (72") diameter, 1422 mm (56") wide and 2722 kg (6,000 lbs.).

This unit provides infinitely variable line speed and line pull control with a free wheeling disconnect for high speed rope payout.

The operator is positioned centrally behind a safety screen for maximum safety and visibility. This unit is equipped with a spring applied, hydraulic pressure release holding brake for protection in the event of engine or hydraulic failure.

### PERFORMANCE FEATURES

Continuous torque rating	790 daNm (70,000 in.lbs)
Intermittent torque rating	904 daNm (80,000 in.lbs)
Continuous linepull rating	1973 kg with 1829 m of 16mm rope on drum (4,350 lbs. with 6,000 ft. of 5/8" rope on drum)
Speed	6.4 km/h (4 mph) with infinite speed control

### REEL CAPACITY

Maximum reel diameter	1828 mm (72")
Maximum reel width	1422 mm (56")
Maximum reel weight	2722 kg (6,000 lbs.)
Shaft diameter	66 mm (2 5/8")

### DRIVE SYSTEM

Water cooled brand name diesel engine	48 kW (42 hp)
Hydraulic drive - closed loop hydrostatic	
Drive train brake spring applied / hydraulic pressure released	

### TRAILER SPECIFICATIONS

Axles	tandem with leaf spring suspension
Trailer Brakes	12 x 2 electric on each wheel
Tires	(4) 8.75 x 16.5 LT - 10 ply rating
GAWR	4718 kg (10,400 lbs)
GVWR	5262 kg (11,600 lbs)
Tow hitch	76 mm (3") pintle eye with 4 height adj.
Front jack	manual screw jack with drop leg
Trailer lighting	4 light system

### GENERAL FEATURES

- 45.4 L (12 gallon) fuel reservoir with level gauge
- 68.1 L (18 gallon) hydraulic reservoir w level & temp gauge
- Hydraulic cooler for positive heat dissipation
- Drive freewheeling disconnect for payout of pulling rope
- Quick change reel shaft removal
- Steel lockable battery box

### PHYSICAL DIMENSIONS

Weight (Approximate)	1814 kg (4,000 lbs)
Length (Approximate)	4400 mm (174")
Width (Approximate)	2300 mm (91")
Height (Approximate)	1800 mm (70")

### OPTIONS

- High speed polemaster™ pilot rope drive
- High speed polemaster™ levelwind
- Hydraulic overhead levelwind
- Bronze overspin payout brake
- Operator's seat
- Combination overhead / underground levelwind
- Underground pulling drum
- 4440 heavy duty pulling drum
- BR6030 breakaway reel
- Mechanical drop-leg rear jacks
- Hydraulic front jack
- Gasoline engine

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**BULLWHEEL MODULE**



STANDARD FEATURES

Easily adapts to existing DPT series puller-tensioners  
760 mm (30") nominal diameter bullwheels  
Bolt-on replaceable lining segments  
Module is equipped with three roller tail line fairleads

PERFORMANCE:

(assuming a suitable reelwinder or stand is providing sufficient tail tension)

DPT30B 1,360 kg @ 3.5 km/h (3,000 lbs @ 2.2 mph)  
DPT40B 2,114 kg @ 4.3 km/h (4,650 lbs @ 2.7 mph)  
DPT40 2,721 kg @ 3.5 km/h (6,000 lbs @ 2.2 mph)

Option:

Rear towing package - allows a second trailer to be towed behind the unit

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**PULLER-TENSIONER**

**SPECIFICATION**

Maximum line pull	2268 daN (5000 lbs)
Maximum line speed	4.0 km/h (2.5 mph)
Bull wheel diameter	914mm (36")
Bull wheel grooves	4 @ 32mm (4 x 1.25")
Engine power	45 kW (60 hp)
Maximum reel weight	2730 kg (6000 lbs)
Maximum reel diameter	1828 mm (72")
Maximum reel width	1120 mm (44")
Weight (approx)	2950 kg (6500 lbs)
Length (approx)	5790 mm (228")
Width (approx)	2235 mm (88")
Height (approx)	2438 mm (96")

**STANDARD FEATURES**

Infinitely variable speed control  
 Infinitely variable linepull control  
 Spring applied / hydraulic released brake  
 Adjustable overpull protection  
 Water cooled diesel engine  
 Replaceable urethane bullwheel lining segments  
 Integral reelwinder with hydraulic bronze disc brake for tensioning  
 Hydraulic boom type levelwind  
 Tandem axle trailer mounted  
 Electric actuated trailer brakes  
 One front and two rear manual jacks

**OPTIONS**

Highway package  
 Hydraulic jacks  
 Lockable console cover

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**PULLER-TENSIONER**


The SPT40-1H/SL is a trailer mounted, self-loading puller-tensioner suitable for new construction and reconductoring construction. This unit is capable of pulling or tensioning single conductor.

**SPECIFICATIONS**

Maximum continuous linepull / tension	4000 daN (8,992 lbs)
Maximum linespeed	8 km/h (5 mph)
Bullwheel diameter	1500 mm (60")
Maximum rope diameter	42 mm (1 5/8")
Power (Diesel)	149 kW (200 hp)

**SELF-LOADING REEL CARRIER**

Maximum reel diameter	2438 mm (96")
Maximum reel width	1371 mm (54")
Maximum reel weight (transport)	4989 kg (11,000 lbs)
Maximum reel weight (lifting)	7257 kg (16,000 lbs)

**PHYSICAL DIMENSIONS**

Weight (approx)	9072 kg (20,000 lbs)
Length (approx)	9408 mm (371")
Width (approx)	2515 mm (99")
Height (approx)	3993 mm (158")

REF: 8004608

**STANDARD EQUIPMENT**

Fully hydraulic drive system  
 Infinitely variable speed and linepull control  
 Automatic overpull protection system  
 Direct drive bullwheels - fully enclosed gearboxes, no chains are exposed gears  
 Spring applied, hydraulic released brakes  
 replaceable nylon linings  
 Operator seat with protective cage  
 Tandem axle trailer with leaf spring suspension (13,600 kg / 30,000 lbs)  
 Air brakes with ABS  
 Hydraulic stabilizing jacks  
 Hydraulic oil cooler  
 lockable console cover

**SAFETY FEATURES**

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown

**OPTIONS**

PLC to provide linepull, speed and distance recording  
 Auxiliary hydraulic circuit (700 bar) to operate conductor press  
 Custom truck mounted version  
 Sound abatement engine enclosure

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**PULLER-TENSIONER**


The BWPT45-1H/SL is a trailer mounted, self-loading puller-tensioner suitable for new construction and reconductoring construction. This unit is capable of pulling or tensioning single conductor.

**SPECIFICATIONS**

Maximum intermittent linepull / tension	4890 daN (11,000 lbs)
Maximum continuous linepull / tension	4448 daN (10,000 lbs)
Maximum linespeed	6.4 km/h (4 mph)
Bullwheel diameter	1320 mm (52")
Maximum rope diameter	42 mm (1 5/8")
Power (Diesel)	126 kW (170 hp)

**SELF-LOADING REEL CARRIER**

Maximum reel diameter	2438 mm (96")
Maximum reel width	1371 mm (54")
Maximum reel weight (transport)	4989 kg (11,000 lbs)
Maximum reel weight (lifting)	7257 kg (16,000 lbs)

**PHYSICAL DIMENSIONS**

Weight (approx)	5900 kg (13,000 lbs)
Length (approx)	9042 mm (356")
Width (approx)	2515 mm (99")
Height (approx)	3582 mm (141")

**STANDARD EQUIPMENT**

Fully hydraulic drive system  
 Infinitely variable speed and linepull control  
 Automatic overpull protection system  
 Spring applied, hydraulic released brakes  
 replaceable nylon linings  
 Hydraulic levelwind  
 Operator seat with protective cage  
 Tandem axle trailer with leaf spring suspension (13,600 kg / 30,000 lbs)  
 Air brakes with ABS  
 Hydraulic stabilizing jacks  
 Hydraulic oil cooler  
 lockable console cover

**SAFETY FEATURES**

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown

**OPTIONS**

PLC to provide linepull, speed and distance recording  
 Auxiliary hydraulic circuit (700 bar) to operate conductor press  
 Custom truck mounted version  
 Sound abatement engine enclosure

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## V-GROOVE PULLER-TENSIONER



### DESCRIPTION

This compact traction unit performs equally well as a puller or a tensioner and is ideal for reconducting applications. The self-loading, powered reel winder is an integral part of the machine and allows reels of conductor or pulling rope to be loaded and unloaded without a crane on the location. The unit can be used to pull out old conductor, wind it on a scrap reel, unload it and tension out the new conductor all with one machine.

Whether it's stringing new conductor, reconducting existing circuits and groundwire or wrecking out old conductors these combination units are ideal. The V-groove bullwheel permits easy handling of splicing sleeves and a wide range of conductor or rope diameters.

Conductor or pulling line is imbedded in the elastomer lined V-groove of the bullwheel. Timberland's unique hydraulic system allows the operator to preset the maximum pulling tension and provides infinite linespeed and linepull control.

The machine design incorporates a pivoting bullwheel arrangement which automatically aligns the bullwheel with the point on the reel from which the conductor is being payed off. During the pulling mode the operator controls the bullwheel movement to levelwind the pulled cable onto the storage reel.

### STANDARD EQUIPMENT

- Infinitely variable speed and linepull control with overpull protection
- Spring applied, hydraulic released holding brakes
- Self-loading rear mounted reel winder
- Oscillating bullwheel for minimal fleet angle on conductor or rope
- Centrally located console for optimum visibility
- Tandem axle trailer mounted with air brakes
- Hydraulic front and rear jacks
- Elastomer bullwheel segments

### SPECIFICATIONS

Max continuous linepull	2268 kg (5000 lbs) @ 6.4 k/hr (4 mph)
Max intermittent linepull	2721 kg (6000 lbs)
Linespeed	0-6.4 k/hr (0-4 mph)
Engine (diesel)	74 kW (100 hp)
Bullwheel diameter	1371 mm (54")
Bottom of groove diameter	1219 mm (48")
Max reel size	2438 mm x 1422 mm (96" x 56")
Max reel weight (highway)	4989 kg (11,000 lbs)
Max reel weight (jobsite)	7257 kg (16,000 lbs)
Unit weight w/o reel	4309 kg (9500 lbs)
Tow eye weight w/o reel	907 kg (2,000 lbs)

### UNIT DIMENSIONS

Length (approx)	7950 mm (313")
Width (approx)	2445 mm (96.25")
Height (approx)	3353 mm (132")

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## V-GROOVE PULLER-TENSIONER



### DESCRIPTION

This compact traction unit performs equally well as a puller or a tensioner and is ideal for reconducting applications. The self-loading, powered reel winder is an integral part of the machine and allows reels of conductor or pulling rope to be loaded and unloaded without a crane on the location. The unit can be used to pull out old conductor, wind it on a scrap reel, unload it and tension out the new conductor all with one machine.

Whether it's stringing new conductor, reconducting existing circuits and groundwire or wrecking out old conductors these combination units are ideal. The V-groove bullwheel permits easy handling of splicing sleeves and a wide range of conductor or rope diameters.

Conductor or pulling line is imbedded in the elastomer lined V-groove of the bullwheel. Timberland's unique hydraulic system allows the operator to preset the maximum pulling tension and provides infinite linespeed and linepull control.

The machine design incorporates a pivoting bullwheel arrangement which automatically aligns the bullwheel with the point on the reel from which the conductor is being payed off. During the pulling mode the operator controls the bullwheel movement to levelwind the pulled cable onto the storage reel.

### STANDARD EQUIPMENT

- Infinitely variable speed and linepull control with overpull protection
- Spring applied, hydraulic released holding brakes
- Self-loading rear mounted reel winder
- Oscillating bullwheel for minimal fleet angle on conductor or rope
- Centrally located console for optimum visibility
- Tandem axle trailer mounted with air brakes
- Hydraulic front and rear jacks
- Elastomer bullwheel segments

### SPECIFICATIONS

Maximum continuous linepull	4536 kg (10,000 lbs) @ 6.4 k/hr (4mph)
Maximum Intermittent linepull	4893 kg (11,000 lbs)
Linespeed	(0-6.4 k/hr) 0-4 mph
Engine (Diesel)	123 Kw (165 HP)
Bullwheel diameter	1828 mm (72 ")
Bottom of groove diameter	1664 mm (65.5")
Maximum reel size	2438 mm x 1422 mm (96" X 56")
Maximum reel weight (highway)	4893 kg (11,000 lbs)
Maximum reel weight (jobsite)	7257 kg (16,000 lbs)
Unit Weight w/o reel (approx)	4762 kg (10,500 lbs)

### UNIT DIMENSIONS

Length (approx)	8026 mm (316")
Width (approx)	2540 mm (100")
Height (approx)	3276 mm (129")

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## PULLER-TENSIONER



The PT25-1H/1DD is suitable for pulling or tensioning single conductor with infinitely variable pulling/tensioning control of the conductor.

The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor/OPGW. This design also allows for a more compact machine.

The large bullwheel design are fitted with replaceable synthetic lining segments. The PT25-1H/1DD provides powered hydraulics for easy reeving of conductor and pullback capability.

This unit is mounted on a single axle trailer with manual parking brake.

### PERFORMANCE FEATURES

Maximum Pull/Tension 1 x 2,500 daN (5,500 lbs.)  
Maximum Linespeed 5 km/hr (3.1 mph)

### PULLER/TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter 1500 mm (60")  
Exclusive canted axis bull wheel design  
Open side design for ease of conductor loading  
Wear resistant nylon bull wheel segments  
5 grooves per bull wheel set  
Maximum conductor diameter 43 mm (1.7")

### ENGINE SPECIFICATIONS

Water cooled diesel engine 48 kW (65 hp)

### MECHANICAL DRIVE SPECIFICATIONS

Direct drive, fully enclosed planetary gearbox drive  
Infinite variable speed, line pull and tensioning control  
Automatic over-pull protection system with line pull gauge

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel  
drives apply automatically in the event of hydraulic circuit  
pressure loss or engine shutdown  
Overpull protection to set maximum line pull  
Manual parking brake

### PHYSICAL DIMENSIONS

Weight (Approximate) 2154 kg (4,750 lbs)  
Length (Approximate) 3861 mm (152")  
Width (Approximate) 1800 mm (71")  
Height (Approximate) 2337 mm (92")

### OPTIONS

Electronic PLC control  
Auxiliary hydraulic circuit for reel winder  
Digital line speed and distance counter  
Highway trailer package  
Lockable console cover

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## PULLER-TENSIONER



The PT40-1H/1DD is suitable for pulling or tensioning single conductor with infinitely variable tensioning control of the conductor.

The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor/OPGW. This design also allows for a more compact machine.

The large bullwheel design are fitted with replaceable synthetic lining segments. The PT40-1H/1DD provides powered hydraulics for easy reeving of conductor.

This unit is mounted on a single axle trailer with manual parking brake.

### PERFORMANCE FEATURES

Maximum linepull / tension	1 x 4,000 daN (8,818 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### PULLER/TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1200 mm (48")
Exclusive canted axis bull wheel design	
Open side design for ease of conductor loading	
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Air cooled diesel engine	63 kW (85 hp)
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### MECHANICAL DRIVE SPECIFICATIONS

Direct drive, fully enclosed planetary gearbox drive  
 Infinite variable speed, line pull and tensioning control  
 Automatic over-pull protection system with line pull gauge  
 Hydraulic bias control for low tension OPGW stringing applications

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull  
 Manual parking brake

### PHYSICAL DIMENSIONS

Weight (Approximate)	2154 kg (4,750 lbs)
Length (Approximate)	3861 mm (152")
Width (Approximate)	1800 mm (71")
Height (Approximate)	2413 mm (95")

### OPTIONS

Electronic PLC control  
 Auxiliary hydraulic circuit for reel winder  
 Digital linespeed and distance counter  
 Highway trailer package  
 Lockable console cover

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## PULLER-TENSIONER



The PT90-2H/2DD is a direct drive puller-tensioner capable of pulling or tensioning 1 or 2 conductors with independent controls.

The bull wheels may be coupled for increase pull or tension control.

The PT90-2H/2DD is specially equipped with a heavy duty hydraulic cooler to ensure proper operating temperature of the hydraulic system.

The trailer is equipped with high flotation tires to ease transport over rough terrain or sandy and swamp conditions.

### PERFORMANCE FEATURES

Max Pull/Tension	1 x 9,000 daN (20,232 lbs) 2 x 4,500 daN (10,116 lbs)
Max Pull/ Tension speed	5 km/hr (3.1mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel root diameter	1500mm (60")
Wear resistant nylon bullwheel segments	
5 grooves per bullwheel set	50mm (2.0")
Maximum conductor diameter	42mm (1.6")
Exclusive Canted bullwheel design eliminates torsional stress on conductor during stringing operation	

### ENGINE SPECIFICATIONS

Water cooled diesel engine	97kW (130 hp)
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### HYDRAULIC DRIVE SPECIFICATIONS

Fully hydraulic drive with two independent circuits  
 Infinitely variable speed control  
 Dual speed gearboxes for low tension OPGW stringing  
 Independent bullwheel control with master control  
 Lockable bullwheels suitable for pulling 1 x 9,000 daN (20,232 lbs)  
 Auxiliary hydraulic circuits to operate two independent hydraulic reel stands/winders.

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown. Operator can preset maximum linepull or tension.

### PHYSICAL DIMENSIONS

Weight (approximate)	5896kg (12,998 lbs)
Length (approximate)	3962mm (156")
Width (approximate)	2312mm (91")
Height (approximate)	2337mm (92")

### OPTIONS

Fully electronic IQAN MDL controlled operator panel  
 Radio remote control  
 Dual integral reel winders  
 Engine sound abatement  
 Tower fairleads  
 Digital distance readout  
 Highway lighting

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## PULLER-TENSIONER



The PT160-4H/4 is capable of pulling or tensioning 1-2-3-4 conductors. This design integrates 4 hydraulic controls to operate four independently controlled bullwheels offering the capability of tensioning 4 conductors.

The bull wheels may be coupled for increased pull or tension control of two conductors.

The PT160-4H/4 is specially equipped with a heavy duty hydraulic cooler to ensure proper operating temperature of the hydraulic system. The engine and pumps include a sound abatement enclosure.

The skid mounted model includes a hydraulic rear mounted plow stabilizer. This model is also available in an integral trailer design.

### PERFORMANCE FEATURES

Max Pull / Tension	4 x 4,000 daN (8,992 lbs) 2 x 8,000 daN (17,984 lbs)
Max Line Speed	5 km/h (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1500 mm (60")
Wear resistant, replaceable, nylon bull wheel segments	
5 grooves per bull wheel set	50 mm (2.0")
Maximum conductor diameter	42mm (1.7")

### ENGINE SPECIFICATIONS

Water cooled diesel engine	194 kW (260 hp)
Optional: sound abatement	

### HYDRAULIC DRIVE SPECIFICATIONS

Full hydraulic drives, 4 circuits  
 Infinite variable line speed and tensioning control  
 4 independent speed control joysticks  
 4 independent tension controls and 1 master tension control for 4 conductors  
 4 large diameter tension gauges  
 4 Auxillary hydraulic circuits to power and control separate hydraulic reel letoff stands

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown

### PHYSICAL DIMENSIONS


Length - module only (approximate)	4712 mm (186")
Length - with engine (approximate)	5995 mm (236")
Width (approximate)	2165 mm (86")
Height (approximate - plow stabilizer included)	3292 mm (130")

### OPTIONS

PLC to provide linepull, speed and distance recording  
 Auxiliary hydraulic circuit (700 bar) to operate conductor press  
 Auxiliary hydraulic circuit to operate 4 reel stands with pullback capability

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**SECTION 4**  
**TENSIONERS**

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

Timberland Equipment Limited  
[www.timberland.on.ca](http://www.timberland.on.ca)

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At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

## TENSIONER MODULES



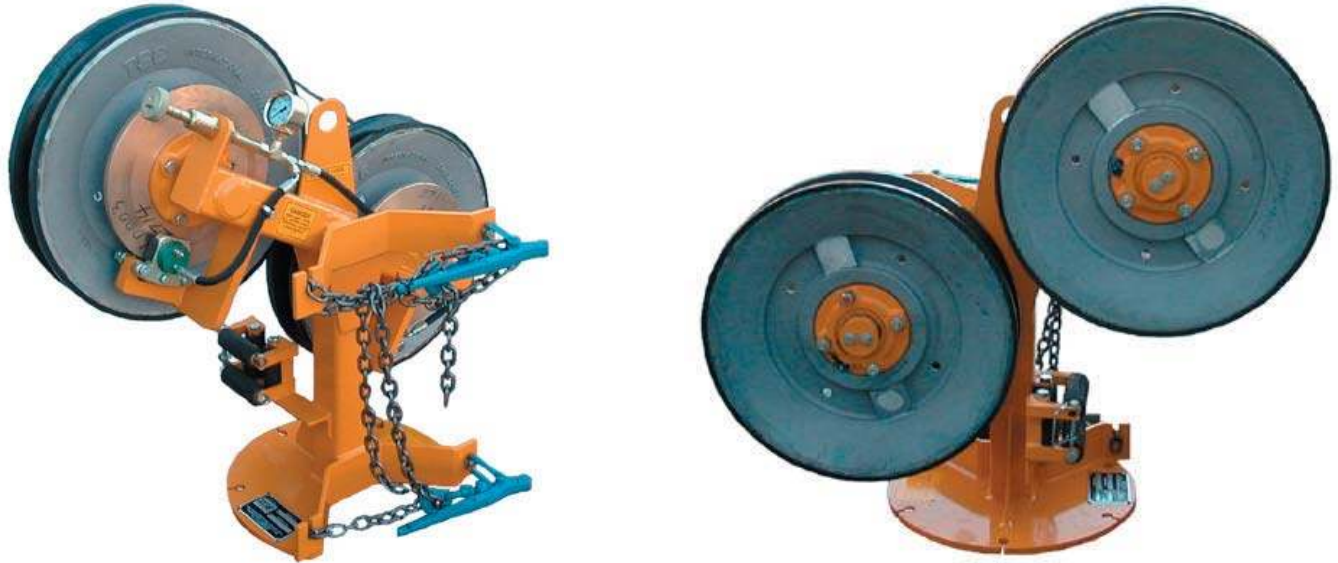
### FEATURES:

- Easily adapted to truck or trailer mounting
- Fine pressure control for tensioning brake(s)
- Open side construction for ease in threading conductor
- Input fairleads with urethane rollers are standard

	Model 3502	Model 3504
Tensioner Type	Single Bullwheel “V” Groove	Double Bullwheel Multi-Groove
Rated Tension	3000 lbs @ 4 mph / 1360 kg @ 6.4 km/h	3000 lbs @ 4 mph / 1360 kg @ 6.4 km/h
Bullwheel size	36” / 914 mm diameter	36” / 914 mm diameter
Linings	Single Groove / Replaceable Urethane	4 Groove / Replaceable Urethane
Max Conductor Diameter	1.75” / 44 mm	1.25” / 31.75 mm
Tensioning Brake(s)	36” / 914 mm diameter Bronze Disc	2 x 24” / 610 mm diameter Bronze Disc
Module Length	48” / 1219 mm	50” / 1270 mm
Module Width	34” / 864 mm	45” / 1143 mm
Module Height	52” / 1321 mm	58” / 1473 mm
Weight	500 lbs. / 227 kg	900 lbs. / 408 kg

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**TENSIONER MODULES**


The 3505 tensioner module is designed to provide higher conductor stringing tension than possible from braked reel stands. It can pole mounted, truck or trailer base plate mounted and is to be used in conjunction with a suitable conductor reel let off stand.

The dual 20" (508 mm) single "V" groove bullwheels are lined with moulded neoprene. The groove will accommodate conductors up to 40 Penguin. Tension brakes on each bullwheel are 10" (254 mm) diameter discs with fine control hydraulic calipers. Adjustment of tension is by means of a simple hand control.

**SPECIFICATIONS & PERFORMANCE**

Continuous Rated Tension	1000 lbs (454 kg) @ 3 mph (4.83 km/h)
Intermittent Rated Tension	1500 lbs (680 kg)
Weight	250 lbs (113 kg)
Length	40" (1010 mm)
Width	16" (410 mm)
Height	36" (910 mm)
Input Fairlead	Standard
Mounting Chain & Tighteners	Standard

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**HYDRAULIC TENSIONER**


Line Surge and Galloping are eliminated by this unique hydraulic tensioning reel carrier. The system is self contained and provides smooth accurate control of the conductor tension. Ideal for use where fine control of the conductor is required or where shock loads must be avoided during fibre optic cable or special installation. An excellent Tensioner for use with a Timberland Poleboss™.

**SPECIFICATIONS**

Reel shaft diameter	66 mm (2 5/8")
Maximum reel diameter	1830 mm (72")
Maximum reel width	1117 mm (44")
Maximum reel weight	2040 kg (4500 lbs)
Maximum torque	229 daN-m (20,000 in-lbs)
Length (approximate)	3150 mm (124")
Width (approximate)	2032 mm (80")
Height (approximate)	1625 mm (64")
Weight (approximate)	907 kg (2000 lbs)

**STANDARD EQUIPMENT**

Spring applied / hydraulic released drive line brake  
 Single axle with electric brakes  
 Highway lighting  
 7 kW (9 H.P.) gasoline engine for pullback capability

**OPTIONS**

Skid mount reel stand



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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**BULLWHEEL TENSIONER**



**SPECIFICATIONS**

**T50/42 BW**

Continuous rated tension	2268 daN (5000 lbs)
Linespeed	0-6 km/h (0-4 mph)
Bullwheel diameter	1066 mm (42")
Max conductor diameter	35 mm (1.39")

**T50/48 BW**

Continuous rated tension	2268 daN (5000 lbs)
Linespeed	0-6 km/h (0-4 mph)
Bullwheel diameter	1220 mm (48")
Max conductor diameter	35 mm (1.39")
GVWR	4830 kg (10,650 lbs)

**STANDARD EQUIPMENT**

- Smooth tensioning of conductors
- Hydraulic disc brakes, equal retarding to bullwheels
- Replaceable synthetic lining segments
- Tail fairlead with 3 rubber lined rollers
- Tandem axle with leaf spring suspension
- One front and two rear manual jacks
- Adjustable pintle hitch tow eye, safety chains
- Highway lighting

**OPTIONS**

- Increased capacity of 3175 daN (7000 lbs) continuous tension
- Two bullwheel modules for two bundle
- Tilted bullwheels for T2 conductor
- 4 groove lining segments for 47 mm (1.875") diameter

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**TENSIONER / REEL CARRIER**

**SPECIFICATIONS**

Maximum continuous tension	1360 daN (3000 lbs)
Maximum linespeed	6.4 km/h (4.0 mph)
Bullwheel diameter	914 mm (36")
Bullwheel grooves	4 @ 32 mm (1.25")
Maximum reel weight	3175 kg (7000 lbs)
Maximum reel diameter	1828 mm (72")
Maximum reel width	1320 mm (52")
Length (approx)	4200 mm (198")
Width (approx)	1900 mm (90")
Height (approx)	2000 mm (94")
Weight (approx)	1635 kg (3600 lbs)

**STANDARD EQUIPMENT**

- Smooth control of conductors
- Hydraulic bronze disc brakes with equal retarding to each bullwheel
- Open reeve bullwheels for easy conductor installation and removal
- Replaceable urethane bullwheel lining segments
- Tail fairlead with 3 rubber lined rollers
- Tandem axle with leaf spring suspension
- Quick change reel shaft with straight vertical lift
- 406 mm (16") bronze disc reel brake with manual caliper
- Electric actuated trailer brakes
- One front and two rear manual jacks

**OPTIONS**

- Manual reel shaft rewinder
- Hydraulic reel shaft rewind

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**TENSIONER / REEL CARRIER**



**SPECIFICATIONS**

Maximum tension	1360 daN (3000 lbs)
Maximum linespeed	4.0 km/h (2.5 mph)
Bullwheel diameter	914 mm (36")
Bullwheel grooves	4 @ 32mm (1.25")
Engine power	5 kW (6.5 hp)
Maximum reel weight	2730 kg (6000 lbs)
Maximum reel diameter	1828 mm (72")
Maximum reel width	1120 mm (44")
Weight (approx)	2722 kg (6000 lbs)
Length (approx)	5790 mm (228")
Width (approx)	2235 mm (88")
Height (approx)	2438 mm (96")

**STANDARD EQUIPMENT**

- Infinitely variable speed control
- Infinitely variable tension control
- Spring applied / hydraulic released brake
- Air cooled diesel engine
- Replaceable urethane bullwheel lining segments
- Integral reel carrier with 406 mm (16") hydraulic bronze disc brake for tensioning
- Quick change 67 mm ( 2 5/8") diameter reel shaft
- Tandem axle trailer mounted
- Electric actuated trailer brakes
- One front and two rear manual jacks

**OPTIONS**

- Highway package
- Hydraulic jacks
- Lockable console cover
- 13.4 kW (18 hp) diesel engine for pullback includes hydraulic drive on reel carrier (shown above)

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**MULTI-GROOVE HYDRAULIC TENSIONER / REEL CARRIER****“NO ENGINE REQUIRED”****PRODUCT DESCRIPTION**

The Timberland T30H/36 DD BWRC hydraulic tensioner/reel carrier is designed for conductor stringing, re-conductoring and groundwire installation at infinitely adjustable tensions from 300lbs to 3000lbs. Each component of this hydraulic tensioner/reel carrier has been designed to withstand rough field service throughout years of stringing operations.

The frame is a heavy duty weldment of thick-walled structural steel, which maintains the critical alignment of the bullwheels. The open sided bullwheel frame design facilitates the threading of line. The bullwheel is hydraulically controlled providing smooth infinite adjustment and eliminating conductor surge. A pressure gauge and performance chart, mounted on a control panel are provided to indicate the tension in the conductor.

A three roller fairlead with rubber lined rollers mounted on roller bearings is located to insure the conductor is guided from the reel shaft to the bullwheel groove. The reel shaft is Timberland's quick reel change design. The reel shaft is mounted on replaceable full circle bronze sleeve bearings with grease fittings.

**STANDARD FEATURES**

- Continuous performance of 1,334 daN (3000 lbs) tension at 4 mph
- 2 x multi-groove (4) bullwheel direct drive through gear reducer and hydraulic motor
- Bolt on replaceable urethane lining segments
- 3 roller fairlead
- Pressure gauge and performance chart
- Open reeved for easy installation and removal of conductor
- Tongue and rear stabilizer jacks
- Tandem axle with leaf spring suspension
- Pintle hitch adjustable to four height positions
- 2 5/8" reel shaft with double drive arm and lifting loop
- Quick change reel shaft design

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**TENSIONER / REEL CARRIER**


Model T30H/36 VGRC hydraulic tensioner



Model T30/36 VGRC

**SPECIFICATIONS**

Maximum tension	1360 daN (3000 lbs)
Maximum linespeed	4.8 km/h (3 mph)
Bullwheel diameter	915 mm (36")
Power gas engine	22 kW (30 hp)
Maximum reel diameter	1830 mm (72")
Maximum reel width	1140 mm (45")
Maximum reel weight	2722 kg (6000 lbs)

Full hydraulic tensioning  
 Open reeved bullwheel  
 Spring applied / hydraulic released brake  
 High speed pilot rope drive with brake

**STANDARD FEATURES**

Urethane bullwheel replaceable lining segments  
 Vertical lift quick change reel shaft  
 406 mm (16") bronze brake on reel shaft  
 Tail line fairlead  
 Tandem axles with electric brakes

**SPECIFICATIONS**

Maximum tension	1360 daN (3000 lbs)
Maximum linespeed	6.4 km/h (4 mph)
Bullwheel diameter	915 mm (36")
Power gas engine	22 kW (30 hp)
Maximum reel diameter	1830 mm (72")
Maximum reel width	1140 mm (45")
Maximum reel weight	3175 kg (7000 lbs)

Bronze disc bullwheel brake with hydraulic actuator

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**V-GROOVE TENSIONER**

**“No Engine  
Required”**

**PRODUCT DESCRIPTION**

The Timberland T30H/36 DD VGRC V-groove hydraulic tensioner/reel carrier is designed for conductor stringing, re-conductoring and groundwire installation at infinitely adjustable tensions from 300lbs to 3000lbs. Each component of this hydraulic tensioner/reel carrier has been designed to withstand rough field service throughout years of stringing operations. The open sided bullwheel frame design facilitates the threading of line. The bullwheel is hydraulically controlled providing smooth infinite adjustment and eliminating conductor surge. A pressure gauge and performance chart, mounted on a control panel are provided to indicate the tension in the conductor.

A three roller fairlead with rubber lined rollers mounted on roller bearings is located to insure the conductor is guided from the reel shaft to the bullwheel groove. The reel shaft is Timberland's quick reel change design. The reel shaft is mounted on replaceable full circle bronze sleeve bearings with grease fittings.

**STANDARD FEATURES**

Continuous performance of 3000 lbs tension at 4 mph  
Single "V" groove bullwheel direct drive through gear reducer and hydraulic motor  
Bolt on replaceable urethane lining segments  
3 roller fairlead  
Pressure gauge and performance chart  
Open reeved for easy installation and removal of conductor  
Tongue and rear stabilizer jacks  
Tandem axle with leaf spring suspension  
Pintle hitch adjustable to four height positions  
2 5/8" reel shaft with double drive arm and lifting loop  
Quick change reel shaft design

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**V-GROOVE HYDRAULIC TENSIONER / REEL CARRIER**

**PRODUCT DESCRIPTION**

The Timberland T30H/36 VGRC V-groove hydraulic tensioner/reel carrier is designed for conductor stringing, re-conductoring and groundwire installation at infinitely adjustable tensions from 300lbs to 3000lbs.

Each component of this hydraulic tensioner/reel carrier has been designed to withstand rough field service throughout years of stringing operations. The open sided bullwheel frame design facilitates the threading of line. The bullwheel is hydraulically controlled providing smooth infinite adjustment and eliminating conductor surge. A pressure gauge and performance chart, mounted on a control panel are provided to indicate the tension in the conductor.

A three roller fairlead with rubber lined rollers mounted on roller bearings is located to insure the conductor is guided from the reel shaft to the bullwheel groove.

The reel shaft is Timberland's quick reel change design and includes a manually operated 406 mm (16") bronze disc brake. The reel shaft is mounted on replaceable full circle bronze sleeve bearings with grease fittings.

**STANDARD FEATURES**

Continuous performance of 3000 lbs tension at 4 mph  
 Single "V" groove bullwheel 36" diameter with 1.75" groove width  
 Bolt on replaceable urethane lining segments  
 3 roller fairlead  
 Pressure gauge and performance chart  
 Open reeved for easy installation and removal of conductor  
 Tongue and rear stabilizer jacks  
 Tandem axle with leaf spring suspension  
 Pintle hitch adjustable to four height positions  
 2 5/8" reel shaft with double drive arm and lifting loop  
 16" ventilated bronze disc reel shaft brake  
 High speed pilot rope rewind with infinite speed control  
 Quick change reel shaft design

Engine

13 kW (18 hp)

**OPTIONAL EQUIPMENT**

Hydraulically operated reel shaft overspin brake  
 Manual reel shaft rewind  
 Hydraulic reel shaft rewind  
 Polemaster levelwind

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**BULLWHEEL TENSIONER / REEL CARRIER**

**DESCRIPTION**

The Timberland Model T50/52 BWRC bullwheel tensioner / reel carrier is designed to install single conductor or fiber optic ground wire on transmission lines.

Elastomer lined bullwheels with 38 mm (1 1/2") grooves can handle conductors up to 1272 MCM and provide protection to delicate fiber cables. The bullwheels are canted for groove alignment to eliminate any torsional stress imposed on the cable. The lining segments are bolted on for easy replacement in case they are worn or damaged.

Each bullwheel has a 914 mm (36") diameter bronze disc brake and hydraulic actuated caliper to apply tension to the conductor. Precise control of the tension is achieved by the operator with an actuator incorporating an anti-surge accumulator.

The operator can monitor tension and make precise adjustments using the pressure gauge and tension chart. By using hydraulic braking from a single control, the tension is evenly distributed between the two bullwheels.

Timberland's exclusive quick change reel shaft system allows easy reel changes without any tools being required. The 406 mm (16") bronze disc brake on the reel shaft provides tail tension to the bullwheels.

A three roller fairlead with urethane lined rollers ensures that the conductor is guided from the reel stand or carrier into the first groove of the bullwheel.

**SPECIFICATIONS**

Max continuous tension	2,224 daN (5,000 lbs) @ 6.4 kph (4 mph)
Bullwheel diameter	1320 mm (52")
Groove diameter	38 mm (1.5")
Number of grooves	5
Max reel diameter	2438 mm (96")
Max reel width	1371 mm (54")
Max reel width with hydraulic rewind	1320 mm (52")
Max reel weight	5,669 kg (12,500 lbs)
Reel shaft diameter	66 mm (2 5/8")

**STANDARD EQUIPMENT**

Precise hydraulic control with anti-surge accumulator  
 Canted bullwheels to eliminate torsional stress on conductor  
 914 mm (36") bronze disc brakes  
 Central operator's panel with tension chart  
 Quick change reel shaft system  
 406 mm (16") diameter bronze disc brake on reel stand  
 3 roller tail fairlead  
 Tandem axle trailer with electric brakes  
 Front and rear drop-leg jacks  
 Anchor lugs

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**BULLWHEEL TENSIONER / REEL CARRIER**

**No Engine Required**
DESCRIPTION

The Timberland Model T50/52 DD BWRC bullwheel tensioner / reel carrier is designed to install single conductor or fiber optic ground wire on transmission lines.

Tension is infinitely adjustable from 133 daN - 2224 daN (300-5000 lbs) line tension.

Elastomer lined bullwheels with 38 mm (1 1/2") grooves can handle conductors up to 1272 MCM and provide protection to delicate fiber cables. The bullwheels are canted for groove alignment to eliminate any torsional stress imposed on the cable. The lining segments are bolted on for easy replacement in case they are worn or damaged.

The operator can monitor tension and make precise adjustments using the pressure gauge and tension chart. By using hydraulic braking from a single control, the tension is evenly distributed between the two bullwheels.

Timberland's exclusive quick change reel shaft system allows easy reel changes without any tools being required. The 406 mm (16") bronze disc brake on the reel shaft provides tail tension to the bullwheels.

A three roller fairlead with urethane lined rollers ensures that the conductor is guided from the reel stand or carrier into the first groove of the bullwheel.

SPECIFICATIONS

Max continuous tension	2,224 daN (5,000 lbs) @ 6.4 kph (4 mph)
Bullwheel diameter	1320 mm (52")
Groove diameter	38 mm (1.5")
Number of grooves per bullwheel	5
Max reel diameter	2438 mm (96")
Max reel width	1371 mm (54")
Max reel width with hydraulic rewind	1320 mm (52")
Max reel weight	5,669 kg (12,500 lbs)
Reel shaft diameter	66 mm (2 5/8")

STANDARD EQUIPMENT

Precise hydraulic control  
 Canted bullwheels to eliminate torsional stress on conductor  
 Central operator's panel with tension chart  
 Quick change reel shaft system  
 406 mm (16") diameter bronze disc brake on reel stand  
 3 roller tail fairlead  
 Tandem axle trailer with electric brakes  
 Front and rear drop-leg jacks  
 Anchor lugs

OPTIONS

Hydraulic reel stand brake

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## HYDRAULIC BULLWHEEL TENSIONER



The T25-1H/1DD is suitable for tensioning single conductor with infinitely variable tensioning control of the conductor.

The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor/OPGW. This design also allows for a more compact machine.

The large bullwheel design are fitted with replaceable synthetic lining segments. The T25-1H/1DD provides powered hydraulics for easy reeving of conductor and pullback capability.

This unit is mounted on a single axle trailer.

### PERFORMANCE FEATURES

Maximum continuous tension 1 x 2,500 daN (5,500 lbs.)  
Maximum Linespeed 5 km/hr (3.1 mph)

### PULLER/TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter 1500 mm (60")  
Exclusive canted axis bull wheel design  
Open side design for ease of conductor loading  
Wear resistant nylon bull wheel segments  
5 grooves per bull wheel set  
Maximum conductor diameter 43 mm (1.7")

### ENGINE SPECIFICATIONS

Air cooled diesel engine 22 kW (29.7 hp)

### MECHANICAL DRIVE SPECIFICATIONS

Direct drive, fully enclosed planetary gearbox drive  
Infinite variable speed, line pull and tensioning control  
Automatic over-pull protection system with line pull gauge

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approximate) 2005 kg (4,420 lbs)  
Length (Approximate) 3861 mm (152")  
Width (Approximate) 1626 mm (64")  
Height (Approximate) 2337 mm (92")

### OPTIONS

Auxiliary hydraulic circuit for reel winder  
Distance counter  
Highway trailer package  
Lockable console cover

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16-6330-064

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER

The following electronic monitoring system can be added to Timberland Equipment Pullers, Tensioners and Underground Pullers.



Digital display of: linepull, speed, distance and operator adjustable pre-set maximum linepull.

Optional chart recorder provides permanent copy readout for each pull.

SAMPLE PRINT OUT				
Time (s)	Pull (lbs)	Peak (lbs)	Speed (ft/min)	Dist. (ft.)
03	0	0	0	1255
08	13	55	0	1255
13	41	42	0	1255
18	27	56	0	1255
23	433	1379	0	1253
28	111	427	0	1253
33	1266	1286	52	1250
38	1589	1627	93	1245
43	1442	1835	96	1237
48	1340	1660	97	1229
53	1321	1579	96	1221
58	1392	1569	97	1213

\* also available in metric

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## HYDRAULIC BULLWHEEL TENSIONER



The T40-1H/1DD is suitable for tensioning single conductor with infinitely variable tensioning control of the conductor.

The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor/OPGW. This design also allows for a more compact machine.

The large bullwheel design are fitted with replaceable synthetic lining segments. The T40-1H/1DD provides powered hydraulics for easy reeving of conductor and pullback capability to 2,000 daN.

This unit is mounted on a single axle trailer.

### PERFORMANCE FEATURES

Maximum intermittent tension	1 x 4,000 daN (8,818 lbs.)
Maximum continuous tension	1 x 3,500 daN (7,716 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### PULLER/TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1200 mm (48")
Exclusive canted axis bull wheel design	
Open side design for ease of conductor loading	
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Air cooled diesel engine	22 kW (29.7 hp)
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### MECHANICAL DRIVE SPECIFICATIONS

Direct drive, fully enclosed planetary gearbox drive  
 Infinite variable speed, line pull and tensioning control  
 Automatic over-pull protection system with line pull gauge

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approximate)	2135 kg (4,700 lbs)
Length (Approximate)	3810 mm (150")
Width (Approximate)	1524 mm (60")
Height (Approximate)	2413 mm (95")

### OPTIONS

Auxiliary hydraulic circuit for reel winder  
 Distance counter  
 Highway trailer package  
 Lockable console cover

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T60-1H/2DD is suitable for tensioning one or two conductors with infinitely variable tensioning control of the conductor.

The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor/OPGW. This design also allows for a more compact machine.

The large bullwheel design are fitted with replaceable synthetic lining segments. The T60-1H/1DD provides powered hydraulics for easy reeving of conductor and pullback capability.

This unit is mounted on a single axle trailer with manual parking brake.

### PERFORMANCE FEATURES

Maximum tension	1 x 6,000 daN (13,488 lbs.) 2 x 3,000 daN (6,744 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### PULLER/TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1200 mm (48")
Exclusive canted axis bull wheel design	
Open side design for ease of conductor loading	
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Diesel engine	22 kW (29.7 hp)
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### MECHANICAL DRIVE SPECIFICATIONS

Direct drive, fully enclosed planetary gearbox drive  
Infinite variable speed, line pull and tensioning control  
Automatic over-pull protection system with line pull gauge

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
Overpull protection to set maximum line pull

### DIMENSIONS

Weight (approx)	2600 kg (5750 lbs)
Length (approx)	3500 mm (138")
Width (approx)	1625 mm (64")
Height (approx)	2292 mm (90")

### OPTIONS

Larger diesel engine for full pullback capability  
Auxiliary hydraulic circuits for reel winder  
Replaceable nylon lining segments  
Distance counter  
Lockable console cover  
Highway lighting

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16-6340-210

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T75-1H/2DD is capable of tensioning 1 or 2 conductors with infinite variable tensioning control.

The bull wheels are exclusively open-sided canted bull wheel design that prevents potentially damaging birdcaging or torquing of the conductor. This design also allows for a more compact machine.

The hydraulic circuit includes a low-tension mode for stringing OPGW and earthwire.

The trailer is equipped with high flotation tires suitable for pulling the unit through sand or swamp land conditions. The frame is fitted with a single point lift to allow lifting with a crane.

### PERFORMANCE FEATURES

Maximum Pull/Tension	1 x 7500 daN (16,500 lbs.) 2 x 3750 daN (8250 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1500 mm (60")
Exclusive canted axis bull wheel design	
Open side design for ease of conductor loading	
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Air cooled brand name diesel engine	5.0 kW (6.8 hp)
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### MECHANICAL DRIVE SPECIFICATIONS

Fully enclosed planetary gearbox drive  
Infinite variable speed, line pull and tensioning control  
Automatic over-pull protection system with line pull gauge  
Low tension circuit for OPGW and earthwire stringing

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approx)	3,850 kg (8,500 lbs)
Length (Approx)	3670 mm (144")
Width (Approx)	2050 mm (81")
Height (Approx)	2250 mm (89")

### OPTIONS

22 kW (29 hp) diesel engine for full pullback capabilities  
Tower fairleads  
Lockable console cover  
Highway trailer package  
Auxillary hydraulic circuits to power and control separate hydraulic reel winder

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T75-2H/2DD is capable of tensioning 1 or 2 conductors with dual hydraulic infinite variable tensioning control allowing independent control of each individual conductor.

The bull wheels may be coupled for increased tension control with the capability of full pullback of each conductor at slow speed. The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor/OPGW. This design also allows for a more compact machine.

The trailer is equipped with high flotation tires suitable for pulling the unit through sand or swamp land conditions.

### PERFORMANCE FEATURES

Maximum Pull/Tension	1 x 7500 daN (16,500 lbs.) 2 x 3750 daN (8250 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### PULLER/TENSIONER SPECIFICATIONS

Bull wheel diameter	1500 mm (60")
Exclusive canted axis bull wheel design	
Open side design for ease of conductor loading	
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Water cooled diesel engine	63 kW (85 hp)
----------------------------	---------------

### MECHANICAL DRIVE SPECIFICATIONS

Fully enclosed planetary gearbox drive  
 Infinite variable speed, line pull and tensioning control  
 Automatic over-pull protection system with line pull gauge  
 Auxillary hydraulic circuits to power and control separate hydraulic reel winder

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approximate)	5200 kg (11,500 lbs)
Length (Approximate)	4877 mm (192")
Width (Approximate)	2286 mm (90")
Height (Approximate)	2946 mm (116")

### OPTIONS

Highway lighting  
 Manual parking brake  
 Lockable console cover  
 Auxiliary hydraulic circuits to operate reel stands  
 Auxiliary hydraulic circuit to operate conductor press  
 Master control to operate two tensioners from one control  
 Electronic controls

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16-6343-210

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T100-2H/2DD is capable of tensioning 1 or 2 conductors with dual hydraulic infinite variable tensioning control allowing independent control of each individual conductor.

The bullwheels may be coupled for increased tension control with the capability of full pullback of each conductor at slow speed. The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor/OPGW. This design also allows for a more compact machine.

The trailer is equipped with high flotation tires suitable for pulling the unit through sand or swamp land conditions.

### PERFORMANCE FEATURES

Maximum Pull/Tension	1 x 10,000 daN (22,000 lbs.) 2 x 5,000 daN (11,000 lbs.)
Maximum Linespeed (Tensioning)	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1500 mm (63")
Exclusive canted axis bull wheel design	
Open side design for ease of conductor loading	
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Water cooled Caterpillar diesel engine	63 kW (85 hp)
--	---------------

### HYDRAULIC DRIVE SPECIFICATIONS

Fully enclosed planetary gearbox drives  
 Infinitely variable speed, line pull and tensioning control  
 Auxillary hydraulic circuits to power and control separate reel stands with hydraulic drive.

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approximate)	5920 kg (13,050 lbs)
Length (Approximate)	4877 mm (192")
Width (Approximate)	2286 mm (90")
Height (Approximate)	2946 mm (116")

### OPTIONS

Tower fairleads  
 Highway trailer package  
 Electronic controls  
 Auxillary hydraulic circuits to operate reel stands

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T140-2H/2DD-1600 is capable of tensioning 1 or 2 conductors with dual hydraulic infinite variable tensioning control allowing independent control of each individual conductor.

The exclusive open-sided canted bull wheel design prevents potentially damaging birdcaging or torquing of the conductor. This design also allows for a more compact machine.

The trailer is equipped with high flotation tires suitable for pulling the unit through sand or swamp land conditions.

### PERFORMANCE FEATURES

Maximum Pull/Tension	2 x 7,000 daN (15,400 lbs.) 1 x 14,000 daN (30,800 lbs)
Maximum Linespeed (Tensioning)	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1600 mm (63")
Exclusive canted axis bull wheel design	
Open side design for ease of conductor loading	
Wear resistant nylon bull wheel segments	
6 grooves per bull wheel set with 54mm groove diameter	
Maximum conductor diameter	45.7 mm (1.8")

### ENGINE SPECIFICATIONS

Water cooled Caterpillar diesel engine	63 kW (85 hp)
--	---------------

### HYDRAULIC DRIVE SPECIFICATIONS

Fully enclosed planetary gearbox drives  
Infinitely variable speed, line pull and tensioning control  
Auxillary hydraulic circuits to power and control separate reel stands with hydraulic drive.

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Length (Approximate)	4699 mm (185")
Width (Approximate)	2324 mm (92")
Height (Approximate)	3200 mm (126")
Weight (Approximate)	9900 kg (21,848 lbs)

### OPTIONS

Tower fairleads  
Highway trailer package  
Data logging

### DIGITAL CONTROL PANEL

Allows integration of up to 4 units with a single control panel for single operator control when tensioning 4, 6 or 8 bundle projects

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T150-4H/4 is capable of tensioning 1,2,3 or 4 conductors with infinite variable tensioning control.

The bull wheels are independently controlled with the ability to be coupled to increase tension capability. The machine is also capable of full pull-back at reduced line speed.

The trailer is equipped with high flotation tires suitable for pulling the unit through sand or swamp land conditions. The frame is fitted with a single point lift to allow lifting with a crane.

### PERFORMANCE FEATURES

Maximum Pull/Tension	4 x 3750 daN (8,250 lbs.) 2 x 7500 daN (16,500 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1500 mm (60")
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	38 mm (1.5")

### ENGINE SPECIFICATIONS

Air cooled brand name diesel engine	82.0 kW (110 hp)
-------------------------------------	------------------

### MECHANICAL DRIVE SPECIFICATIONS

Fully enclosed planetary gearbox drive  
Infinite variable speed, line pull and tensioning control  
Automatic over-pull protection system with line pull gauge  
Heavy duty hydraulic oil cooler  
Replaceable hydraulic oil filters complete with visual dirt alarms

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approx)	9,511 kg (20,950 lbs)
Length (Approx)	5588 mm (220")
Width (Approx)	2350 mm (93")
Height (Approx)	2310 mm (91")

### OPTIONS

Auxiliary hydraulic circuit (700 bar) to operate conductor press  
Auxillary hydraulic circuits to power and control separate hydraulic reel winder  
Air-ride axle suspension  
Highway lighting  
air actuated trailer brakes

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T180-4H/4 is capable of tensioning 1,2,3 or 4 conductors with infinite variable tensioning control.

The bull wheels are independently controlled with the ability to be coupled to increase tension capability. The machine is also capable of full pull-back at reduced line speed.

The trailer is equipped with high flotation tires suitable for pulling the unit through sand or swamp land conditions. The frame is fitted with a single point lift to allow lifting with a crane.

### PERFORMANCE FEATURES

Maximum Pull/Tension	4 x 4500 daN (9,909 lbs.) 2 x 9000 daN (19,818 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1500 mm (60")
Wear resistant nylon bull wheel segments	
5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")
Water cooled diesel engine	82.0 kW (110 hp)

### MECHANICAL DRIVE SPECIFICATIONS

Fully enclosed planetary gearbox drive  
 Infinite variable speed, line pull and tensioning control  
 Automatic over-pull protection system with line pull gauge  
 Heavy duty hydraulic oil cooler  
 Replaceable hydraulic oil filters complete with visual dirt alarms

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
 Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS

Weight (Approx)	9,511 kg (20,950 lbs)
Length (Approx)	5588 mm (220")
Width (Approx)	2286 mm (90")
Height (Approx)	2540 mm (100")

### OPTIONS

Auxiliary hydraulic circuit (700 bar) to operate conductor press  
 Auxillary hydraulic circuits to power and control separate hydraulic reel winder  
 Air-ride axle suspension  
 Highway lighting  
 air actuated trailer brakes

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HYDRAULIC BULLWHEEL TENSIONER



The T200-4H/4 is capable of tensioning 1,2,3 or 4 conductors with infinite variable tensioning control.

The bull wheels are independently controlled with the ability to be coupled to increase tension capability. The machine is also capable of full pull-back at reduced line speed.

The trailer is equipped with high flotation tires suitable for pulling the unit through sand or swamp land conditions. The frame is fitted with a single point lift to allow lifting with a crane.

### PERFORMANCE FEATURES

Maximum Pull/Tension	4 x 5000 daN (11,240 lbs.) 2 x 10,000 daN (22,481 lbs.)
Maximum Linespeed	5 km/hr (3.1 mph)

### TENSIONER BULL WHEEL SPECIFICATIONS

Bull wheel diameter	1500 mm (60")
Wear resistant nylon bull wheel segments 5 grooves per bull wheel set	
Maximum conductor diameter	43 mm (1.7")

### ENGINE SPECIFICATIONS

Air cooled brand name diesel engine	97.0 kW (130 hp)
-------------------------------------	------------------

### MECHANICAL DRIVE SPECIFICATIONS

Fully enclosed planetary gearbox drive  
Infinite variable speed, line pull and tensioning control  
Automatic over-pull protection system with line pull gauge  
Heavy duty hydraulic oil cooler  
Replaceable hydraulic oil filters complete with visual dirt alarms

### SAFETY FEATURES

Spring applied, hydraulic pressure released brakes on bullwheel drives apply automatically in the event of hydraulic circuit pressure loss or engine shutdown  
Overpull protection to set maximum line pull

### PHYSICAL DIMENSIONS


Weight (Approx)	10,138 kg (22,350 lbs)
Length (Approx)	5580 mm (220")
Width (Approx)	2350 mm (93")
Height (Approx)	2467 mm (97")

### OPTIONS

Auxiliary hydraulic circuit (700 bar) to operate conductor press  
Auxillary hydraulic circuits to power and control separate hydraulic reel winder  
Digital distance readout  
Full PLC control panel  
Air-ride axle suspension  
Highway lighting  
air actuated trailer brakes

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010



**SECTION 5**  
**REEL STANDS  
&  
CARRIERS**

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

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At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

**REEL STAND ACCESSORIES**



INCLUDES:

Reel spindle 2 5/8" diameter, bearings, drive arm assembly and clamp lifting loop

OPTIONS:

Mechanical tension brake, steel or bronze disc

FEATURES:

- Quick change reel shaft design lets the shaft lift vertically without disturbing the brake and bearing support
- Heavy duty lubricating bearings
- Spindle length can be adjusted to your requirements
- Easy to mount on your custom made reel support or reel carrier



Bronze outer bearing support with quick pin released locking latch

Mechanical tension brake with 16" brake disc available in steel or bronze

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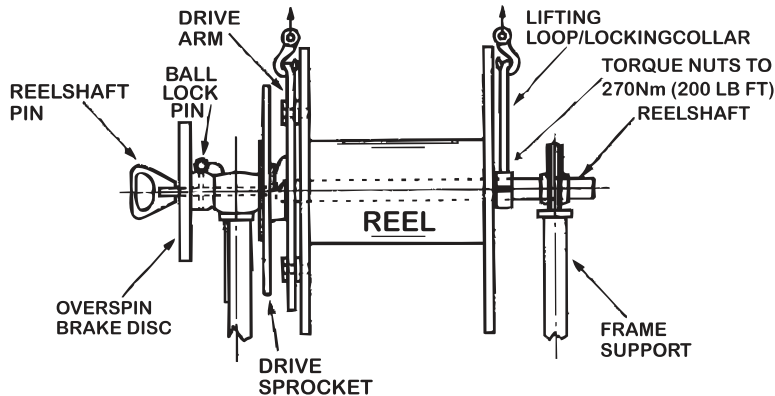
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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## REEL STAND ACCESSORIES

### REELSHAFT REMOVAL AND INSTALLATION PROCEDURE

#### READY FOR LIFTING REEL



#### REEL SHAFT REMOVAL PROCEDURE

1. TURN REEL UNTIL DRIVE ARM AND LIFTING LOOP ARE IN THE VERTICAL 'UP' POSITION.
2. ON THE DRIVE ARM SIDE, PULL BALL LOCK PIN STRAIGHT UP, AND PULL REELSHAFT PIN BACK ENOUGH TO ALLOW THE REEL SHAFT TO BE LIFTED UP.
3. ON THE LIFTING LOOP SIDE, OPEN THE LOCKING LATCH, AND SWING BACK OUT OF THE WAY.
4. ATTACH LIFTING HOOKS TO DRIVE ARM AND LIFTING LOOP, AND ENSURE THEY ARE BALANCED SO REEL REMAINS LEVEL DURING LIFT. LIFT VERTICALLY UP.
5. REMOVE BRONZE BEARING FROM REEL SHAFT.
6. LOOSEN NUTS ON LIFTING LOOP, AND REMOVE IT FROM REELSHAFT.
7. REMOVE REEL SHAFT FROM REEL.

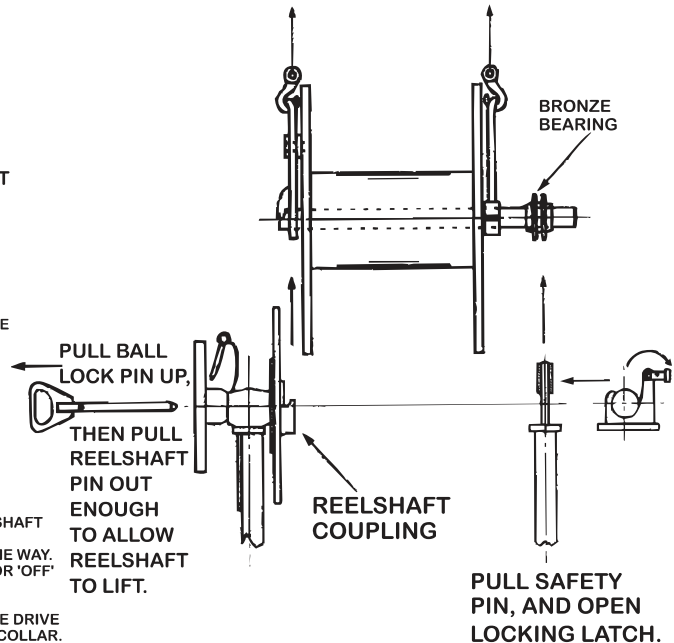
#### REEL SHAFT INSTALL PROCEDURE

1. TURN THE REEL DRIVE UNTIL THE SHAFT COUPLING DRIVE TEETH FACE UP.
2. ON THE DRIVE SPROCKET SIDE, PULL BALL LOCK PIN STRAIGHT UP, AND PULL REEL SHAFT PIN BACK ENOUGH TO ALLOW THE REEL SHAFT TO BE INSTALLED.
3. ON THE LIFTING LOOP SIDE, OPEN THE LOCKING LATCH, AND SWING BACK OUT OF THE WAY.
4. PUT REEL SHAFT IN REEL MAKING SURE THE CONDUCTOR OR ROPE WILL WIND 'ON' OR 'OFF' FROM THE TOP OF THE REEL IN THE CORRECT DIRECTION.
5. MAKE SURE REEL SHAFT DRIVE PINS ARE FULLY ENGAGED IN REEL DRIVE HOLES.
6. INSTALL LIFTING LOOP TIGHT AGAINST SIDE OF REEL TO HOLD IT FIRMLY AGAINST THE DRIVE ARM, AND KEEP IT FROM SLIDING SIDEWAYS. SECURELY TIGHTEN NUTS ON LOCKING COLLAR.
7. INSTALL BRONZE BEARING ON END OF REEL SHAFT.
8. ATTACH LIFTING HOOKS TO DRIVE ARM AND LIFTING LOOP, AND ENSURE THEY ARE BALANCED SO THAT THE REEL REMAINS LEVEL DURING LIFT.
9. LOWER REEL IN PLACE ENGAGING REELSHAFT DRIVE WITH MATING PART, AND ENSURE BRONZE BEARING IS LOCATED IN BEARING SUPPORT.
10. PUSH REELSHAFT PIN INTO END OF REEL SHAFT AT DRIVE SPROCKET END, AND INSERT BALL LOCK PIN TO HOLD THE REELSHAFT PIN IN PLACE.
11. AT LIFTING LOOP END, SWING LOCKING LATCH INTO PLACE OVER BRONZE BEARING, AND INSERT SAFETY PIN.

#### ▲ DANGER ▲

NEVER ATTEMPT TO INSTALL OR REMOVE A REEL, OR THE REEL SHAFT, UNLESS THE DRIVE ARM LIFTING LOOP IS IN THE UPRIGHT POSITION. IF THE REELSHAFT PIN IS REMOVED WITH THE DRIVE ARM IN ANY OTHER POSITION, THE REEL OR SHAFT MAY FALL OUT OF ITS SUPPORTS CAUSING PERSONAL INJURY OR EQUIPMENT DAMAGE.

#### LIFT REEL STRAIGHT UP



D592583

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**SELF-LOADING REEL STAND**



Optional Levelwind

SPECIFICATIONS

Maximum reel weight	7,000 kg (15,400 lbs)
Maximum reel diameter	2500 mm (98")
Maximum reel width	1500 mm (59")
Unit weight	158 kg (350 lbs)
(Approximate without options)	

STANDARD EQUIPMENT

Self-loading by means of hydraulic jacks  
 Folds up for ease of transport  
 Heavy duty anchoring lugs  
 Four handles for ease of handling  
 Jack locking system on both sides  
 All options are installed by way of pin connections

OPTIONS

Hydraulic drive with spring applied brake up to 250 daN-m (1840 ft.-lbs.) intermittent torque  
 Bronze disc brake for controlled payout of conductor; (110 daN-m; 835 ft.-lbs.)  
 Levelwind to operate reel stand as a take-up reel



OPTIONAL  
BRONZE DISC BRAKE



OPTIONAL  
HYDRAULIC DRIVE

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**SELF-LOADING REEL STAND**



SPECIFICATIONS

Maximum reel weight	8,000 kg (17,600 lbs)
Maximum reel diameter	2500 mm (98")
Maximum reel width	1700 mm (67")
Unit weight (approximate without options)	270 kg (595 lbs)

STANDARD EQUIPMENT

- Self-loading by means of hydraulic jacks
- Folds up for ease of transport
- Heavy duty anchoring lugs
- Four handles for ease of handling
- Jack locking system on both sides
- All options are installed by way of pin connections

OPTIONS

- Hydraulic drive with spring applied brake up to 250 daN-m (1840 ft-lbs) intermittent torque
- Bronze disc brake for controlled payout of conductor (110 daN-m / 835 ft-lbs)
- Levelwind for use as a take-up stand



Optional Bronze Disc Brake



Optional Hydraulic Drive

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**REEL STANDS**

Model RS-8-72x44  
with 16" Diameter Bronze Disc Brake



Model RS-15-96x62  
with 24" Diameter Bronze Disc Brake shown with Optional Hand / Hydraulic Brake Controller and Optional Hydraulic Rewind



Optional Hand / Hydraulic Brake Controller



REEL STAND FEATURES:

- TSE / Timberland exclusive Quick Change Reel Shaft System with Straight Vertical Lift
- Non-Corrosive Bronze Disc Reel Shaft Brake

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16-6750-210

**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## REEL STANDS

MODEL	RS-8 72 x 44	RS-12 96 x 56	RS-15 96 x 62	RS-20 96x62
<b>REEL CAPACITY</b>				
Maximum Diameter	1830mm (72")	2438mm (96")	2440mm (96")	2440mm (96")
Maximum Width	1120mm (44")	1576mm (62")	1574mm (62")	1576mm (62")
Maximum Weight	3628 kg (8000 lbs)	5443 kg (12000 lbs)	6804 kg (15000 lbs)	9072 kg (20000 lbs)
<b>UNIT DIMENSIONS</b>				
Reel Shaft Diameter	66mm / 2 5/8"	66mm / 2 5/8"	89mm / 3 1/2"	127mm / 5"
Bronze Disc Brake	406mm / (16")	610mm / (24")	610mm / (24")	914mm / (36")
Length	1630mm / (5'4")	2240mm / (7'4")	2290mm / (7'6")	2340mm / (7'8")
Width	1930mm / (6'4")	2540mm / (8'4")	2590mm / (8'6")	2690mm / (8'10")

### GENERAL FEATURES

- Manual brake caliper
- Quick change reel shaft removal with straight vertical lift
- Bronze bushings on reel shaft
- Double pin drive arm
- Locking collar with lifting loop
- 4 lifting lugs welded to the frame
- Unit is sandblasted, primed and painted with 2 coats of yellow acrylic enamel

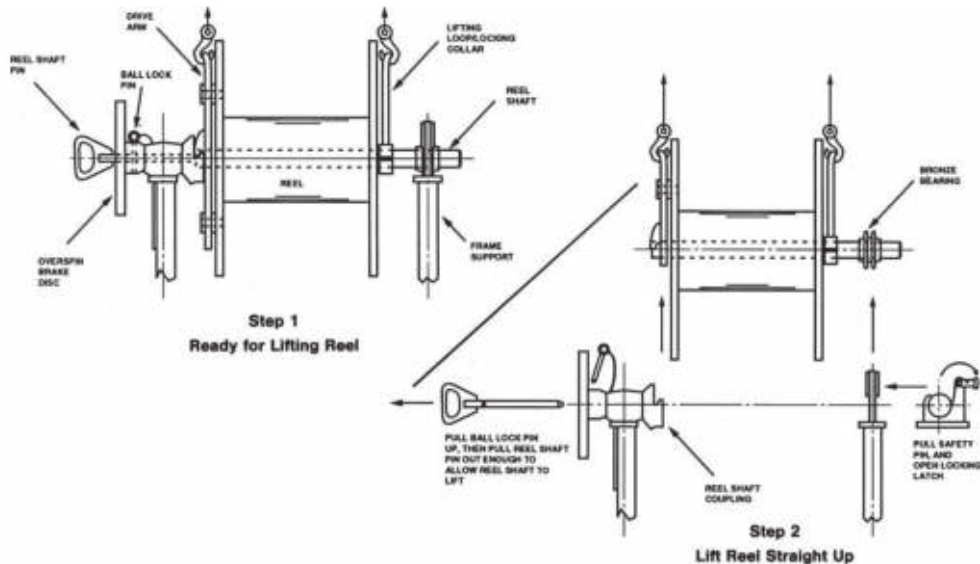
### OPTIONS

- Hydraulic brake caliper in lieu of manual brake caliper
- Larger diameter disc brakes
- Manual reel shaft rewind
- Hydraulic reel shaft rewind with free wheeling disconnect

### Note:

Reel stands with capacities and dimensions other than those listed are available.

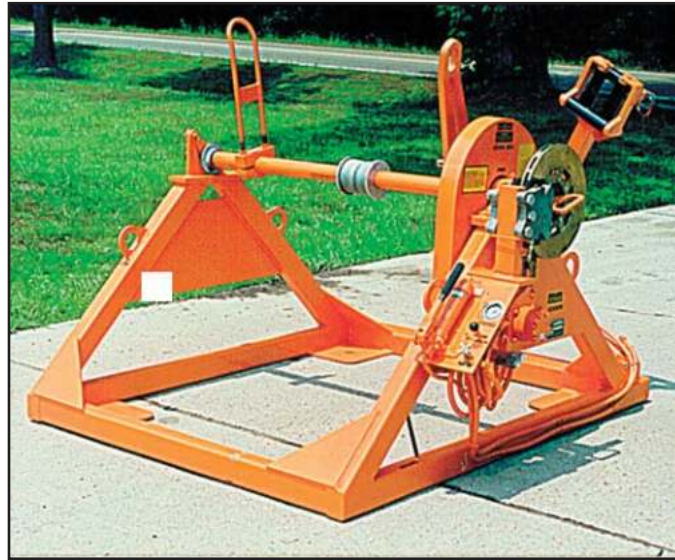
### QUICK-CHANGE REEL SHAFT REMOVAL SYSTEM



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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**POWER REEL STANDS**



**SPECIFICATIONS**

Maximum reel diameter	1830mm (72")
Maximum reel width	1120mm (44")
Maximum reel weight	3628 kg (8000 lbs)
Drive torque rating	2260 N-m (20,000 in-lbs)
Drive speed rating	34 rpm
Shaft diameter	67mm (2 5/8")
Brake disc diameter	406mm (16")
Length (Approx)	1680mm (66")
Width (Approx)	2030mm (80")
Height (Approx)	1400mm (55")

Ratings are based on a hydraulic supply of 56 l/min @ 138 bar (15 gpm @ 2000 psi)

**STANDARD EQUIPMENT**

- Quick change reel shaft system with straight vertical lift
- Bronze bushings on reel shaft
- Double pin drive arm
- Locking collar with lifting loop
- Ventilated bronze disc brake
- Hydraulic caliper - manually adjusted
- Hydraulic drive motor
- Free wheel clutch
- Hydraulic boom levelwind

**OPTIONS**

- Reel shaft bushings

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## POWER REEL STANDS

MODEL	PRS-8 72 x 44	PRS-12 96 x 56	PRS-15 96 x 62	PRS-20 96x62
<b>REEL CAPACITY</b>				
Maximum Diameter	1830mm (72")	2438mm (96")	2440mm (96")	2440mm (96")
Maximum Width	1120mm (44")	1576mm (62")	1574mm (62")	1576mm (62")
Maximum Weight	3628 kg (8000 lbs)	5443 kg (12000 lbs)	6804 kg (15000 lbs)	9072 kg (20000 lbs)
<b>UNIT DIMENSIONS</b>				
Reel Shaft Diameter	66mm / 2 5/8"	66mm / 2 5/8"	89mm / 3 1/2"	127mm / 5"
Bronze Disc Brake	406mm / (16")	610mm / (24")	610mm / (24")	914mm / (36")
Length	1630mm / (5'4")	2240mm / (7'4")	2290mm / (7'6")	2340mm / (7'8")
Width	1930mm / (6'4")	2540mm / (8'4")	2590mm / (8'6")	2690mm / (8'10")

**GENERAL FEATURES**

2 x 10m of hydraulic hoses  
 Quick change reel shaft removal with straight vertical lift  
 Bronze bushings on reel shaft  
 Double pin drive arm  
 Locking collar with lifting loop  
 4 lifting lugs welded to the frame  
 Unit is sandblasted, primed and painted with 2 coats of yellow acrylic enamel

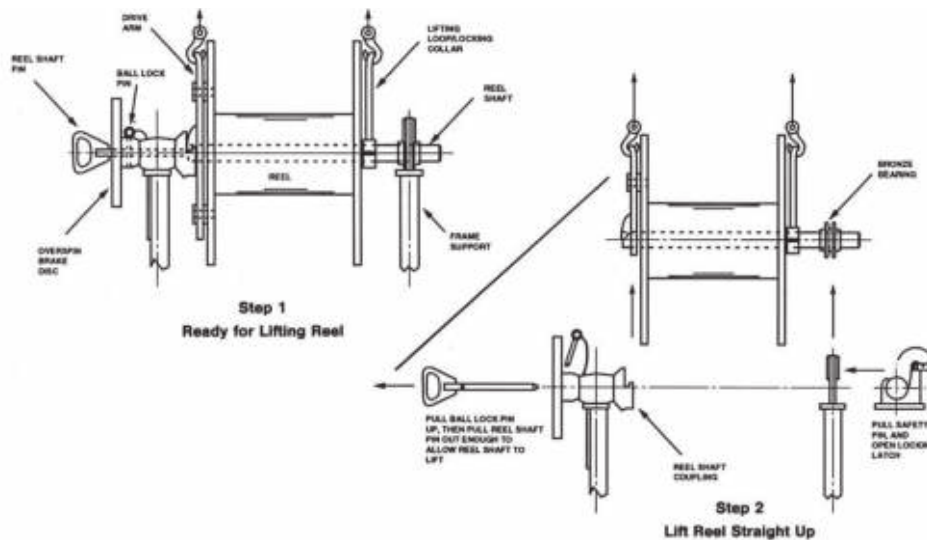
**OPTIONS**

Hydraulic brake caliper in lieu of manual brake caliper  
 Larger diameter disc brakes  
 Manual reel shaft rewind  
 Hydraulic reel shaft rewind with free wheeling disconnect

**Note:**

Reel stands with capacities and dimensions other than those listed are available.

### QUICK-CHANGE REEL SHAFT REMOVAL SYSTEM



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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**REEL CARRIERS**



Model RC-4.5 -72x44

Model RC-7-96x62 shown with Optional Tool Box and Optional Hydraulic Surge Brakes



Model RC-11-72x44 shown with Optional Hydraulic Caliper on Bronze Disc Brake



REEL STAND FEATURES:

- TSE / Timberland exclusive Quick Change Reel Shaft System with Straight Vertical Lift
- Optional Non-Corrosive Bronze Disc Reel Shaft Brake

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## REEL CARRIERS

MODEL	RC-4.5 72 x 44	RC-7 96 x 62	RC-11 72 x 44	RC-11 96x62
<b>REEL CAPACITY</b>				
Maximum Diameter	1830mm (72")	2438mm (96")	1830mm (72")	2440mm (96")
Maximum Width	1120mm (44")	1576mm (62")	1120mm (44")	1576mm (62")
Maximum Weight	2041 kg (4500 lbs)	3175 kg (7000 lbs)	4990 kg (11000 lbs)	4990 kg (11000 lbs)
<b>TRAILER</b>				
Single/Tandem axle	Single	Single	Tandem	Tandem
Axle(s) Capacity	2360 kg (5200 lbs)	4082 kg (9000 lbs)	6350 kg (14000 lbs)	6350 kg (14000 lbs)
Tires	8.75 x 16.5	9 x 17.5	9.5 x 16.5	9.5 x 16.5
GVWR	2720 kg (6000 lbs)	4310 kg (9500 lbs)	6804 kg (15000 lbs)	6804 kg (15000 lbs)
<b>UNIT DIMENSIONS</b>				
Length	3.05m (10")	3.96m (13')	3.86m (12'8")	4.47m (14'8")
Width	2.03m (6'8")	2.44m (8')	2.13m (7')	2.44m (8')

### GENERAL FEATURES

- 16 in. (406 mm) diameter bronze disc brake with manual caliper
- Quick change reel shaft removal with straight vertical lift
- 2-5/8 in. (66 mm) diameter reel shaft with bronze bushings
- Double drive arm
- Locking collar with lifting loop
- Leaf spring suspension axles
- Electric trailer brakes
- 4 position adjustable tow eye with pin type connections and 2 safety chains with hooks
- Mechanical drop-leg front jack
- 4 light trailer light system
- Heavy duty checker plate fenders and mudflaps
- Unit is sandblasted, primed and painted with 2 coats of yellow acrylic enamel

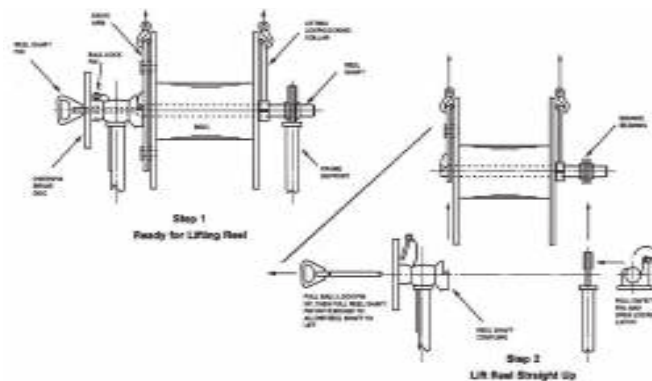
### OPTIONS

- Bronze disc brake with hydraulic caliper (in lieu of manual caliper)
- Manual reel shaft rewind
- Hydraulic reel shaft rewind with free wheeling disconnect
- Mechanical drop-leg rear jacks
- Air / hydraulic trailer brakes (in lieu of electric trailer brakes)

### NOTE:

Reel Stands with capacities and dimensions other than those listed above are available.

### QUICK-CHANGE REEL SHAFT REMOVAL SYSTEM



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**REEL CARRIER**


Bronze disc brake with manual caliper



Bronze disc brake with hydraulic caliper (in lieu of manual caliper)

**GENERAL FEATURES**

- 16 in. (406 mm) diameter bronze disc brake with manual caliper
- Quick change reel shaft removal with straight vertical lift
- 2-5/8 in. (66 mm) diameter reel shaft with bronze bushings
- Double drive arm
- Locking collar with lifting loop
- Leaf spring suspension axles
- Electric trailer brakes
- 4 position adjustable tow eye with pin type connections and 2 safety chains with hooks
- Mechanical drop-leg front jack
- 4 light trailer light system
- Heavy duty checker plate fenders and mudflaps
- Unit is sandblasted, primed and painted with 2 coats of yellow acrylic enamel

**OPTIONS**

- Bronze disc brake with hydraulic caliper (in lieu of manual caliper)
- Manual reel shaft rewind
- Hydraulic reel shaft rewind with free wheeling disconnect
- Mechanical drop-leg rear jacks
- Air / hydraulic trailer brakes (in lieu of electric trailer brakes)

MODEL	RC-11 72 x 44	RC-11 96x62
REEL CAPACITY		
Maximum Diameter	1830mm (72")	2440mm (96")
Maximum Width	1120mm (44")	1576mm (62")
Maximum Weight	4990 kg (11000 lbs)	4990 kg (11000 lbs)
TRAILER		
Single/Tandem axle	Tandem	Tandem
Axle(s) Capacity	6350 kg (14000 lbs)	6350 kg (14000 lbs)
Tires	9.5 x 16.5	9.5 x 16.5
GVWR	6804 kg (15000 lbs)	6804 kg (15000 lbs)
UNIT DIMENSIONS		
Length	3.86m (12'8")	4.47m (14'8")
Width	2.13m (7')	2.44m (8')

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**TURRET REEL CARRIER**


Shown with optional hydraulic brake and rewind

STANDARD SPECIFICATIONS

Max reel capacity 2268 kg (5,000 lbs)  
 Max reel diameter 1828 mm (72")  
 Max reel width 1372 mm (54")

Removable turret stand with 360° effortless rotation  
 Lockable in 18° intervals  
 66 mm (2 5/8") diameter reel shaft with double drive arm  
 406 mm (16") diameter bronze disc brake with manual caliper  
 Quick change reel shaft removal with straight vertical lift  
 3629 kg (8,000 lb) single axle with electric trailer brakes  
 Leaf spring suspension  
 Adjustable tow eye, 2 safety chains with hooks  
 Mechanical crank front jack with two crank-down rear jacks  
 Highway lighting system  
 Checker plate fenders and mudflaps

OPTIONS

Hydraulic brake caliper (in lieu of mechanical caliper)  
 Manual or hydraulic reel shaft rewind  
 Air / hydraulic trailer brakes - in lieu of electric brakes  
 Storage box 355 mm x 355 mm x 710 mm (14" x 14" x 24")  
 Registration holder

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## HYDRAULIC TENSIONER



Line Surge and Galloping are eliminated by this unique hydraulic tensioning reel carrier. The system is self contained and provides smooth accurate control of the conductor tension. Ideal for use where fine control of the conductor is required or where shock loads must be avoided during fibre optic cable or special installation. An excellent Tensioner for use with a Timberland Poleboss™.

### SPECIFICATIONS

Reel shaft diameter	66 mm (2 5/8")
Maximum reel diameter	1830 mm (72")
Maximum reel width	1117 mm (44")
Maximum reel weight	2040 kg (4500 lbs)
Maximum torque	229 daN-m (20,000 in-lbs)
Length (approximate)	3150 mm (124")
Width (approximate)	2032 mm (80")
Height (approximate)	1625 mm (64")
Weight (approximate)	907 kg (2000 lbs)

### STANDARD EQUIPMENT

Spring applied / hydraulic released drive line brake  
 Single axle with electric brakes  
 Highway lighting  
 7 kW (9 H.P.) gasoline engine for pullback capability

### OPTIONS

Skid mount reel stand



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16-6758-210

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**MULTIPLE REEL CARRIER**

Model RC5-72x52-4 ▶



Optional Hydraulic Brake Caliper Controls in Central Operator's Location ▶



Model RC-5-72x48-3 shown with  
Optional Hydraulic Brake Calipers ▼



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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**



**MULTIPLE REEL TRAILERS**



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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**MULTIPLE REEL TURRET TRAILERS**


Model	RCT50 72 x 54-3	RCT70 72 x 62-3
Number of reels	3	3
Max reel diameter	1828 mm (72")	1828 mm (72")
Max reel width	1372 mm (54")	1575 mm (62")
Max reel weight (single reel)	3,628 kg (8,000 lbs)	3,628 kg (8,000 lbs)
Max total reel weight (all reels)	7,076 kg (15,600 lbs)	9,525 kg (21,000 lbs)
Reel shaft diameter	66 mm (2 5/8")	66 mm (2 5/8")
Manual reel brake	406 mm (16") vented bronze	406 mm (16") vented bronze
Reel shaft bearings	Bronze	Bronze
Quick change reel shaft removal	Standard	Standard
Double drive arm	Standard	Standard
Locking collar with lifting loop	Standard	Standard
Thrust and rotation sealed bearings	Standard	Standard
Turret rotation	360° w 18° intervals	360° w 18° intervals
GVWR	10,659 kg (23,500 lbs)	14,968 kg (33,000 lbs)
Trailer axles	Tandem 4,536 kg (10,000 lbs) ea	Tandem 6,804 kg (15,000 lbs) ea
Trailer brakes	Electric	Electric
Pintle eye tow hitch	4 position	4 position
Trailer lighting	Standard	Standard
Front jack and two rear stabilizers	Standard	Standard
Wheel chocks and holders	Optional	Optional
Roller guides	Optional	Optional
Air or air/hydraulic trailer brakes	Optional	Optional

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**QUAD REEL CARRIER**



The quad reel carrier is designed to carry up to four conductor reels and act as reel stands for tensioning out conductor when stringing up to four bundle conductors.

**SPECIFICATIONS**

Maximum line tension	454 kg (1000 lbs)
Maximum line speed	8 km/h (5 mph)
Maximum reel diameter	2133 mm (84")
Maximum reel width	1574 mm (62")
Maximum reel weight	7,030 kg (15,500 lbs)

**TRAILER DIMENSIONS**

Length (approx)	14.63 m (48 ft.)
Width (approx)	2.5 m (8.5 ft.)
Height (max with C84 reel)	3.7 m (12 ft.)

**STANDARD FEATURES**

Equipped with hydraulic motors with hydraulic pressure provided by auxiliary hydraulic circuit from tensioner  
Includes free wheeling hub with manual caliper brake to control overspin while in free wheel mode

REF: F000973

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**SELF-LOADING REEL CARRIERS**


Model	RCSL16 108 x 64	RCSL 20 108 x 64
Reel Capacity		
Max reel diameter	2742 mm (108")	2742 mm (108")
Min reel diameter (self-loading)	1524 mm (60")	1524 mm (60")
Max reel width	1624 mm (64")	1624 mm (64")
Max reel weight	7528 kg (16,000 lbs)	9072 kg (20,000 lbs)
Trailer Specifications		
Axle capacity	9072 kg (20,000 lbs)	10,886 kg (24,000 lbs)
Trailer brakes	Air-hydraulic	Air-hydraulic
Axle & suspension type	Tandem walking beam	
Jacks	Manual drop leg (1 front, 2 rear)	
Tow hitch	4 position with pin connections & safety chains	

**GENERAL FEATURES**

Hydraulic self-loading with hand pumps (or optional connections for external hydraulic supply)  
 4 position reel rack with locking pins to mechanically lock and hold reel in loaded position  
 Reel shaft with nylatron bushings

**OPTIONS**

Reel drive: pneumatic tire rim drive to wind up or payout cable under power, powered by external hydraulic source (tool circuit)  
 Hydraulic power unit: to provide power for optional reel drive and / or hydraulic self-loading feature  
 Reel shaft adapter bushings: to accommodate reels with larger diameter arbor holes  
 Hydraulic jacks: front and rear, in lieu of mechanical drop leg jacks  
 Wheel chocks  
 Tool box

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**SELF-LOADING REEL CARRIER**

**SPECIFICATIONS**

The Timberland Model RCSL 600 156 x 108 is designed to transport a single cable reel and release or wind in cable under controlled conditions, depending on the options selected.

**APPROXIMATE DIMENSIONS**

Length	7595 mm (299")
Width	3785 mm (149") loaded 2743 mm (108") travel
Height	3962 mm (156") top of reel
Weight (w/o reel) approx	6,123 kg (13,500 lbs)
Spindle diameter	153 mm (6")
Max reel diameter	3962 mm (156")
Max reel width	2743 mm (108")
Max reel weight	27,215 kg (60,000 lbs)

**STANDARD EQUIPMENT**

- Bronze bushings on reel shaft
- Shaft locating collars
- Self-loading by hydraulic cylinders located on each side of the reel shaft
- Manual locking pins in travel position
- Engine (Diesel) 14 kW (19 hp)

**OPTIONS**

- Hydraulic reel shaft rewind (rim drive)
- Tool box 356 mm x 356 mm x 610 mm (14" x 14" x 24")

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## FLY ROPE REEL CARRIER



The FRC120 fly rope reel carrier is designed to allow tensioning out of the fly rope while the helicopter sets the fly rope into the stringing blocks.

### SPECIFICATIONS

Minimum tension	45.4 kg (100 lbs)
Maximum tension	453.6 kg (1000 lbs)
Line speed	0-24 km/hr (0-15 mph)
Diesel engine (air cooled)	14.9 kW (20 hp)

### REEL SPECIFICATIONS

Minimum reel diameter	1219 mm (48")
Maximum reel diameter	2337 mm (92")
Minimum reel width	610 mm (24")
Maximum reel width	1575 mm (62")
Maximum reel weight	5443 kg (12,000 lbs)

### UNIT DIMENSIONS

Length (approx)	4445 mm (175")
Width - unloaded (approx)	2591 mm (102")
Height (approx)	2958 mm (114")
Weight (approx)	4086 kg (9,000 lbs)

### STANDARD FEATURES

Welded steel frame with height adjustable pintle tow eye  
 Hydraulic operated disc brakes supplied in reel arms  
 914 mm (36") diameter bronze disc brakes  
 Two rear hydraulic stabilizer jacks  
 One front hydraulic leveling jack  
 Single axle with dual tires 9,071 kg (20,000 lbs) capacity  
 Air brakes with ABS

REF: F000979

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**UNDERGROUND REEL TRAILER**

The TR-120-3 Underground Cable Reel Trailer is a 3 reel conductor payout trailer. With 9,072 kg (20,000 lbs) of payload capacity, this trailer is ideal for users with a wide variety of underground conductor installation jobs. Load up with conductor and work in a number of locations. It's fast and convenient and its manoeuvrable.

**STANDARD FEATURES:**

3 independently driven reels for loading conductor. Reels can be driven in either direction  
9072 kg (20,000 lbs) payload capacity  
975 m (3,200 ft) of 1000 kc mil aluminum core conductor  
Rear mounted capstan provides 907 kg (4000 lbs) of line pull to pull winch rope  
Drag brake on reels prevents overspin of reel during payout  
Rear wheel drive for the absolute best in on-site manoeuvrability  
Air brake system with emergency air / parking brake system  
Smooth control hydraulic system powered by 10 kW (14 hp) diesel engine  
Adjustable roller fairleads to guide conductor into manhole

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## UNDERGROUND REEL TRAILER

### SPECIFICATIONS

Max continuous torque	400 daNm (36,000 in-lbs)
Max reel speed	143 m/min (470 fpm) at full reel speed (15 rpm)
Linepull (full reel)	272 kg (600 lbs)
Linepull (bare reel)	816 kg (1800 lbs)
Max payload capacity	9072 kg (20,000 lbs)
Capstan linepull	1814 kg (4000 lbs)
Engine (diesel)	10 kW (14 hp)

### UNIT DIMENSIONS

Length (approx)	5260 mm (207")
Width (approx)	2440 mm (96")
Height (approx)	3980 mm (156.5")
Weight (approx)	8891 kg (19,600 lbs)

### REEL SPECIFICATIONS

Flange diameter	3050 mm (120")
Reel width (each section)	410 mm (16")
Core diameter	990 mm (39")

### CONTROL CONSOLES

Front control console	Engine keyswitch, throttle and choke Trailer manoeuvring controls Front jack / nose controls
Rear control console	Reel drive direction and brake controls Capstan direction controls

### TRAILER SPECIFICATIONS

Tandem axles	18,144 kg (40,000 lbs)
Wheels	22.5 x 9.00
Tires	315/80R22.5
Suspension	spring type
Brakes	Air

### OPTIONS

Wheel chocks  
 Hydraulic tool circuit  
 Beacon lighting and backup alarm  
 110V/120V electric generator  
 Hydraulically manoeuvred fairlead arm  
 Remote engine control mounted at rear of trailer

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**MINING REEL CARRIER**

**REAR MOUNT, SELF-LOADING CABLE REEL CARRIER  
FOR USE IN MINING AND INDUSTRIAL APPLICATIONS**

The Cable Reel Winder is capable of self-loading, winding, paying out and transporting cable reels. The unit is equipped with a close looped hydraulic system.

The reel winder drive system provides for infinitely variable speed controls and allows the cable to be pulled in and tensioned out under controlled tension through the hydraulic system.

**STANDARD FEATURES**

Fully hydraulic drive system with infinite speed and tension control  
 Radio remote control console  
 66hp water-cooled diesel engine  
 19 gallon fuel tank with level gauge  
 Cable guidance fairleads  
 Rear cable arm (snorkel) will trail the main unit two positions

**PERFORMANCE**

Maximum Reel Torque            88,000 lbs.in. (9942 N.m)  
 Maximum Reel Speed:        16 rpm

**REEL CAPACITY**

Maximum reel diameter:       108" (2743 mm)  
 Minimum reel diameter:       96" (2438 mm)  
 Reel width:                        71-84" (1804-2133 mm)  
 Arbor shaft diameter:         5" (127 mm)  
 Maximum reel weight:         21,000 lbs (9525 kg)

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**MINING REEL CARRIER**



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At Timberland Equipment Limited, we are committed to providing you with the best equipment and accessories available. We reserve the right to change specifications without notice.

**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## **SECTION 6**

# **PILOT LINE WINDERS**

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### **TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## POLEMASTER™ SYSTEM



### STANDARD SPECIFICATIONS

Pole mounted brake spindle with hot stick adjustable brake controller, web binder strap  
Galvanized steel rope drum with 136 kg (300 lbs.) linepull rating

Model 2811 for 614 m (3000 ft.) pilot rope  
Model 2815 for 1828 m (6000 ft.) pilot rope

Pilot rope 12 strand polypropylene, with 907 kg (2000 lbs.) breaking strength, 10 mm (3/8") diameter x 614 m (3000 ft.) or 1828 m (6000 ft.) lengths,  
Available colours: blue, green, orange, yellow

### WEIGHT

Brake Spindle	16 kg (36 lbs.)
614 m (3000 ft.) of rope & drum	66 kg (145 lbs.)
1828 m (6000 ft.) of rope & drum	84 kg (186 lbs.)

### OPTIONS

Truck winch adaptor shaft to mount reels on rewind power source (Model TWA)

Pilot Rope, 12 strand "Poly-Flex", with 1814 kg (4000 lbs.) average breaking strength, 8 mm (5/16") dia. x 614 m (3000 ft.) or 1828 m (6000 ft.) lengths,  
"urethane" coated, available colours: blue, green, red, yellow, black, orange

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## PILOT LINE WINDERS



### DESCRIPTION

The model 2501 is a compact and portable, hydraulic powered, 4 drum puller. It is designed to serve as a distribution conductor puller or as a pilot rope winder to pull out the pulling rope from a single drum puller installing distribution conductors. It can be trailer or pole mounted and can be powered from a line truck or other suitable hydraulic power units.

### FEATURES

- Standard leadscrew levelwind
- Free wheeling drums with overspin disc brakes
- Fine control calipers on overspin disc brakes
- Individual drum clutches
- Anti-rotation device on drive system
- Optional trailer mounting (see Model DP10-4H)

Performance Based on 56 l/min @ 14 Mpa (15 gpm @ 2,000 psi)	Empty Drum	Full Drum
Rated line pull	733 daN (1,650 lbs)	389 daN (875 lbs)
Max line pull @ 3,000 psi (intermittent only)	889 daN (2,000 lbs)	449 daN (1,000 lbs)
Line speed	0-82 m/min (0-270 fpm)	0-164 m/min (0-540 fpm)
Average line speed	121 m/min (396 fpm)	

### REEL CAPACITY

8 mm (5/16") rope	2,591 m (8,500 ft)
10 mm (3/8") rope	1,829 m (6,000 ft)
11 mm (7/16") rope	1,371 m (4,500 ft)
12mm (1/2") rope	1,066 m (3,500 ft)

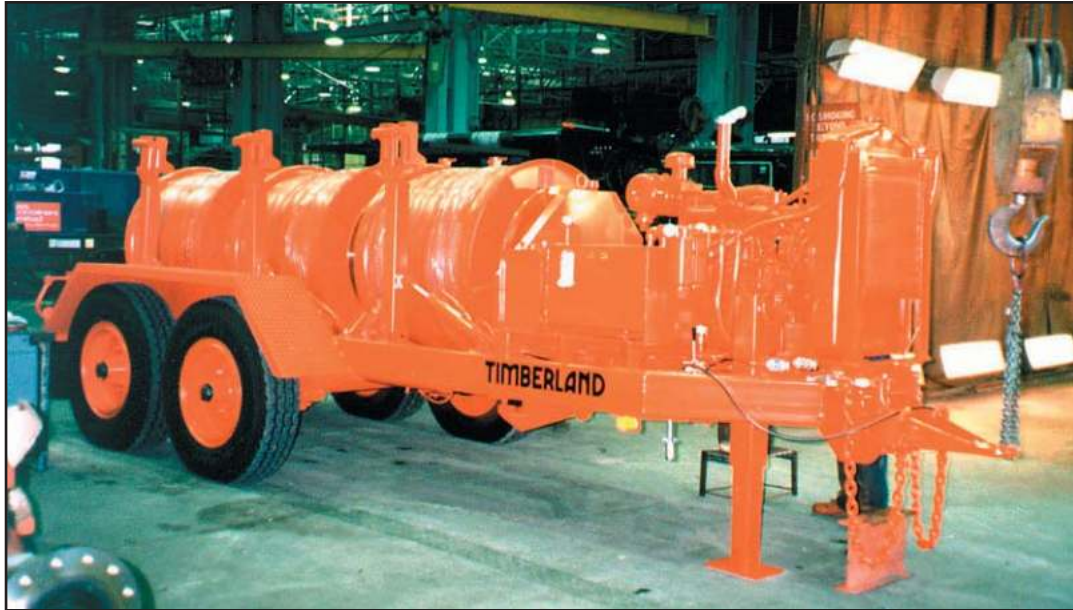
### UNIT DIMENSIONS (approx)

Length	2337 mm (92")
Width	1321 mm (52")
Height	1346 mm (53")
Weight (wo rope)	952 kg (2,100 lbs)

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**DRUM PILOT LINE WINDER**



SPECIFICATIONS

Max linepull (full drum)*	2250 daN (5,000 lbs)
Maximum line speed	6.4 km/h (4.0 mph)
Engine power (diesel)	97 kW (130 hp)
Drum diameter	1220mm (48")
Drum width	864mm (34")
Wire rope capacity	6.1km of 10mm 20,000 ft of 3/8"
Bronze disc brake on each drum	914mm (36")
Tandem axle capacity	13,608 kg (30,000 lbs)

\* Based on operating one drum at a time

STANDARD EQUIPMENT

- Fully hydraulic drive system
- Infinitely variable speed and linepull control
- Automatic overpull protection system
- Water cooled diesel engine
- Spring applied / hydraulic release drive brake
- Air trailer brakes and highway lighting package
- Hydraulic front and two rear mechanical jacks
- Hydraulic levelwind for each drum
- Freewheel clutch for each drum
- Hydraulic overspin brake
- Controller for each drum

OPTIONS

- Two speed drive system

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**PILOT LINE WINDERS****SPECIFICATIONS**

Four proven hydrostatic pulling systems with infinitely variable linespeed and linepull control  
Skid mounted suitable for truck or trailer mount versions  
2224 daN (5,000 lbs) of continuous linepull on each of four full drums  
Heavy duty reels each with capacity for up to 9144 m of 9.5 mm (30,000 ft. of 3/8") swaged steel wire rope  
Spring applied, hydraulic pressure released holding brakes on each reel  
Engraved operator's console panel  
13,607 kg (30,000 lbs) capacity front winch (for truck mount version) with two speed ranges  
Two heavy duty rear hydraulic stabilizers with lock valves  
Four automatic diamond leadscrew levelwind systems for even spooling of rope onto reels  
Freewheeling disconnect with 914 mm (36") bronze disc brake on each reel  
Quick change reel shaft system for ready reel removal and installation

**TRUCK MOUNT**

6 x 6 wheel drive chassis with single front axle and tandem rear axles  
9 speed manual transmission  
Air conditioned and heated truck cab  
Other options available

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# **SECTION 7**

# **STRINGING BLOCKS**

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## **TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**STRINGING BLOCKS**



**MODEL 6707**

P/N 813014

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**STRINGING BLOCKS**



◀ **BASE FOR TIE TOP INSULATOR - MODEL TIA**

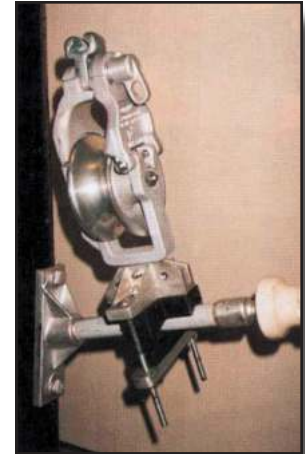
This adjustable base clamps to the neck of a tie top insulator. Rubber cushions protect the porcelain. The block can be mounted in a wide range of positions and angles.

P/N 810325

**BASE INSERT FOR FIBREGLASS  
INSULATOR BRACKET - MODEL FIA** ▶

With the addition of these moulded rubber inserts, the cross arm base (not included) will clamp to a fiberglass insulator bracket.

Rubber Inserts P/N 538596



◀ **BASE FOR LINE POST INSULATOR - MODEL LPA**

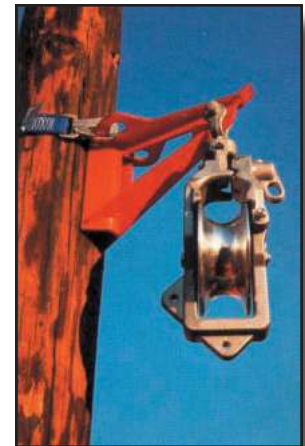
This base is used with horizontal or vertical line post insulators. The base fits in the metal insulator cap and is held by the bolt used to secure the conductor clamp. The base permits a block angle of 30° for stringing through line angles.

P/N 713671

**POLE MOUNT BRACKET MODEL PD-2** ▶

The pole mount bracket attaches to a wood pole by a web binder strap. The ball clevis on the bracket fits all blocks equipped with a socket connector.

P/N 714300



**OPTIONAL SUSPENSION FITTINGS**



OVAL EYE  
P/N 537161



STANDARD HOOK (with latch)  
P/N 537935



Y-CLEVIS  
P/N 512523



C-CLEVIS  
P/N 517289

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**STRINGING BLOCKS**



▲ Gate latch is designed for safe, smooth, single motion hotstick operation allowing the conductor to be removed from the same side.

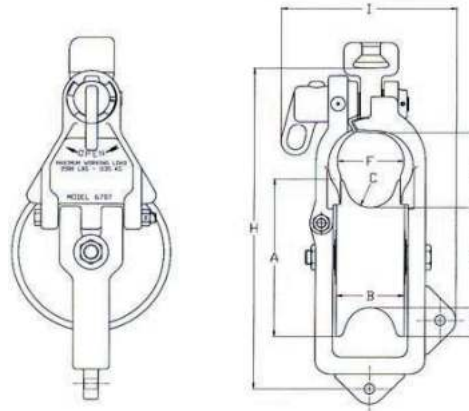
(Note: Base shown in photo is not included in standard block.)



Working Load - 2500 lbs. (1134 kg)  
Mounted vertically or suspended.



▲ Gate Opening Latch is a one hand operation.



BLOCK DIMENSIONS			
A	Sheave Dia.	179mm	7"
B	Sheave Width	77mm	3"
C	Groove Radius	27mm	1 1/16"
D	Sheave Root Dia.	111mm	4 3/8"
E	Groove Depth	34mm	1 5/16"
F	Throat Width	73mm	2 7/8"
G	Throat Height	86mm	3 3/8"
H	Block Height	359mm	14 1/8"
I	Block Width	194mm	7 5/8"



▲ Enclosed Top to protect rope or conductor in case of uplift.



▲ Extended Rope Guards prevent rope from snagging between frame and sheave.

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**STRINGING BLOCKS**



◀ All edges are smoothly contoured to prevent damage to rope or conductor.

(Note: Base shown in photo is not included in standard block.)

**ADJUSTABLE CROSS ARM BASE ▶**

Clamps to any wood cross arm up to 6" x 6". A quick release pin holds the block to the base in a wide range of positions and angles.

P/N 810263



Frame is compatible with existing blocks and attachment hardware. ▼



**KTA ADAPTOR ▲**

Used for mounting on Universal K-Type Insulators

P/N 715804



**GROUNDING BLOCK ▲**

Model 6707-GB Provides an extended shaft for ground clamp connection.

P/N 546376

OPTIONAL SHEAVES AVAILABLE	PART NO.
Neoprene lined sheave	517126
Neoprene lined sheave w bearings	517125
Urethane lined sheave	517124
Sprayed urethane lined sheave	543880
Ductile iron sheave (in lieu of aluminum)	517188

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**DISTRIBUTION STRINGING BLOCKS**



6711E with standard socket suspension



The 6711E stringing block is specifically designed for installation of distribution conductors and is normally used at the first and last span poles or on any other distribution application where a heavier load or a larger conductor bending radius is desirable such as on 45° to 90° truns or on heavy compound angles.

With a variety of suspension fittings, the 6711E can be fitted to slings, chain davits or with the optional adjustable base, can be installed on cross-arms.

**FEATURES**

- Gate opening latch is a one hand operation
- Gate latch is designed for safe, smooth single motion hotstick operation allowing the conductor to be removed from the same side
- Extended rope guards prevent rope from snagging between frame and sheave
- Enclosed top to protect rope or conductor in case of uplift
- All edges are smoothly contoured to prevent damage to rope or conductor
- Optional grounding block with an extended shaft for ground clamp connection

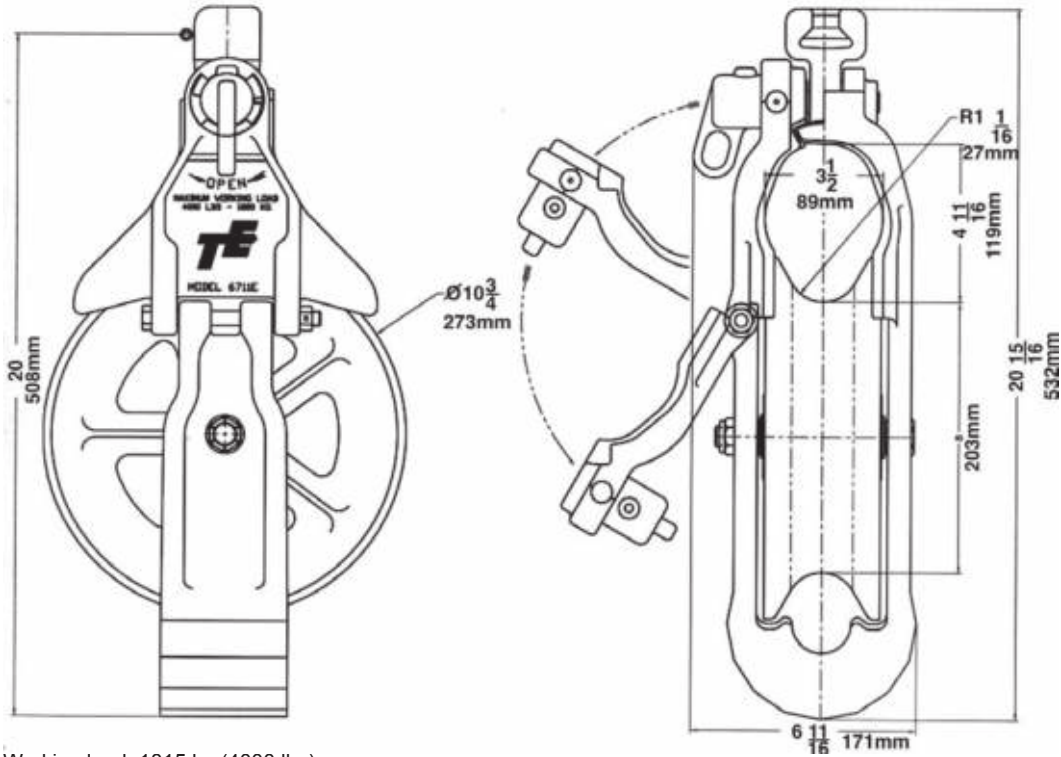
Model 6711E - P/N 815818  
 Model 6711E w GB - P/N 6000182  
 X-arm base - P/N 808355



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**DISTRIBUTION STRINGING BLOCKS**



Working load: 1815 kg (4000 lbs)  
Mounted vertically or suspended

Block weight: 8.6 kg (19 lbs)  
Cross-arm base weight: 3.4 kg (7 lbs)

OPTIONAL SUSPENSION FITTINGS



Oval Eye



Standard Hook  
Safety Hook



Y-Clevis



C-Clevis

OPTIONAL BLOCK ACCESSORIES

- Chain davit
- Nylon sling suspension
- Cross arm base for maximum 127 mm x 127 mm (5" x 5") cross-arm

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## STRINGING BLOCKS



**MODEL 6711-3 with Optional Crosshead & Crossarm Base**

MODEL	6708-3		6711-3	
	Unlined	Lined	Unlined	Lined
Sheave Dimensions	203mm (8")	203mm (8")	273mm (10 3/4")	273mm (10 3/4")
Outside Dimensions	203mm (8")	203mm (8")	273mm (10 3/4")	273mm (10 3/4")
Root Diameter	152mm (6")	165mm (6 1/2")	203mm (8")	216mm (8 1/2")
Groove Radius	15.9mm (5/8")	12.7mm (1/2")	17.5mm (11/16")	14.3mm (9/16")
Groove Depth	25.4mm (1")	19mm (3/4")	35.0mm (1 3/8")	28.6mm (1 1/8")
*Weight	Approx. 6.81 kg (15 lbs)		Approx. 12.3 kg (27 lbs)	
Groove sides flared outwards at 15° on unlined sheave and at 30° on lined sheave				
*Basic block weight (not including base)				

### SPECIFICATION

Aluminum alloy cast sheaves with machined groove  
 Roller bearings  
 Aluminum alloy case side frames

### OPTIONS

Crosshead and socket clevis  
 Crossarm base

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**CONVERTIBLE STRINGING BLOCKS**



**Model 5716-1**

SPECIFICATIONS

Stringing block for single conductor  
Aluminum alloy sheave and frame  
Standard 'B' socket suspension  
Rugged, lightweight construction  
Assembled weight 12 kg (26.5 lbs)

SHEAVE DIMENSIONS

Outside diameter:	406 mm (16")
Groove diameter:	346 mm (13.6")
Groove radius (lined):	15 mm (.60")

SHEAVE OPTIONS

Abrasion resistant urethane linings



**Model 5716-3**

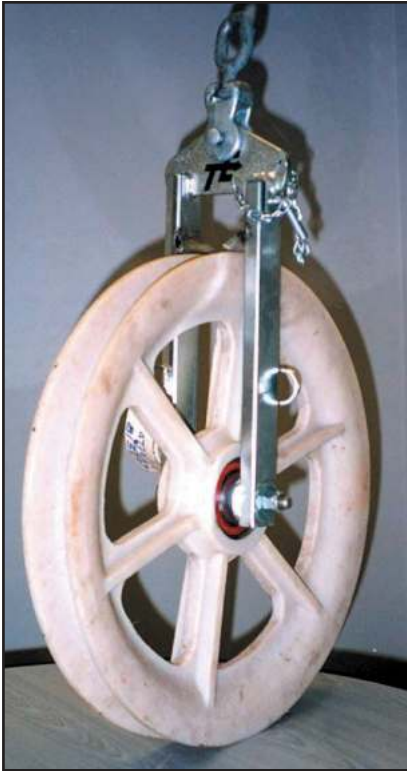
SPECIFICATIONS

Stringing block for three conductors  
Aluminum alloy frame and sheaves  
Special 'B' socket suspension  
Converts easily into two single blocks  
Rated working load 3200 kg (7055 lbs)  
Assembled weight 32 kg (70.5 lbs)

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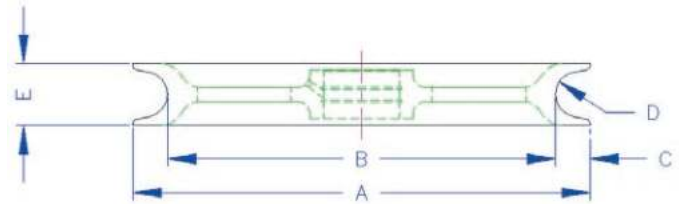
**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## STRINGING BLOCKS



### STANDARD FEATURES

- Compact steel frame, zinc plated
- Cast nylon sheave
- Crosshead and type 'B' socket for suspension
- Lightweight construction
- Sealed ball bearings

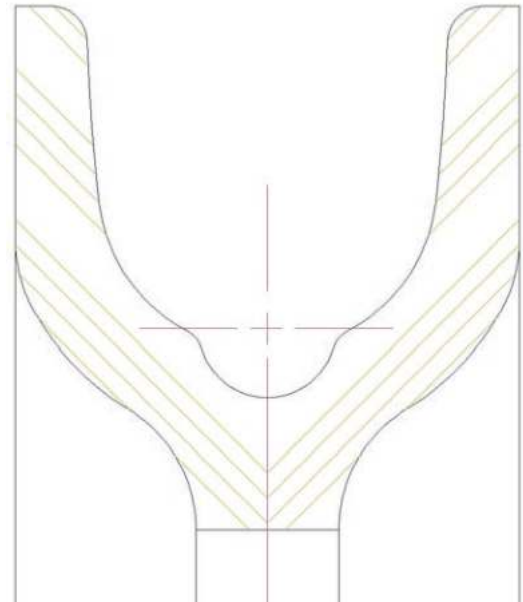


NOMINAL SHEAVE DIMENSIONS										
	4716-1Ny		4720-1Ny		4726-1Ny		4730-1Ny		4736-1Ny	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
A	16	420	20	508	26	660	31	780	36	916
B	14	346	16	408	22	560	26	660	31	800
C	1	25	2	50	2	50	2.5	60	2.5	60
D	0.71	18	1	25	1.3	33	1.3	33	1.6	40
E	2	50	3	75	3.5	90	3.5	90	4.3	110
Weight (approx)	38 lbs	17 kg	43 lbs	19 kg	47 lbs	21 kg	54 lbs	24 kg	66 lbs	30 kg

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**OPGW STRINGING BLOCK**



STANDARD FEATURES

- Nylon sheave
- Type 'B' socket clevis
- Sealed ball bearings
- Compact zinc plated, steel frame

BENEFITS

- Minimize bending radius of OPGW during stringing
- Center groove guides OPGW through center stringing block and offers improved support of the OPGW conductor
- Side guards prevent conductor from pinching between sheave and frame

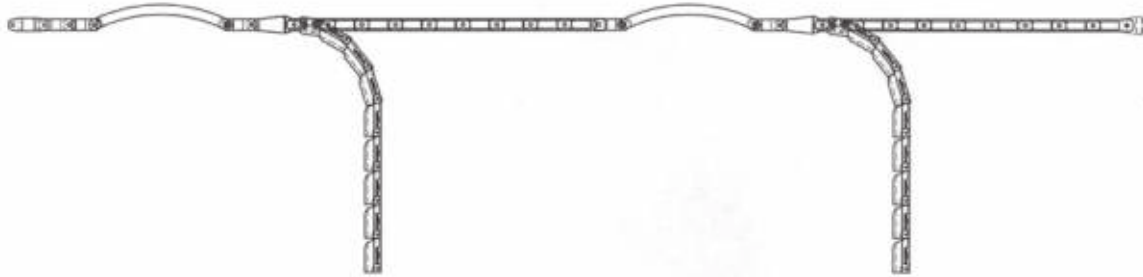
DIMENSIONS

Outside diameter	780mm (30.75")
Root diameter	640mm (25.25")
Weight of traveller (approx)	24kg (54 lbs)

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**OPGW ANTI-TWIST RUNNING BOARD**



Prevents rotation of fibre optic cable during pulling operation

Allowable pulling load: 2270 kg (5,000 lbs)

Tail sections are 'U' shaped  
Pulls through angles and towers

Unit Weight (approx): 50 kg (110 lbs)  
Unit Length (approx): 3.63 m (143")



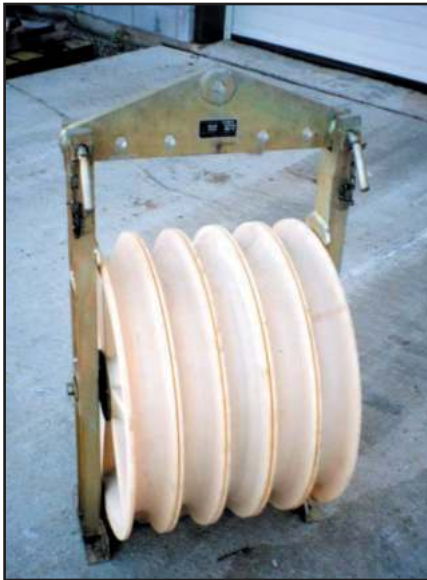
ENTERING THE BLOCK



TURNING THE CORNER

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**BUNDLE CONDUCTOR STRINGING BLOCKS**

**STANDARD FEATURES**

Nylon sheaves with sealed ball bearings  
Galvanized steel frames  
Crosshead and type 'B' (16mm) socket for suspension rated 13,600 kg (30,000 lbs) breaking strength  
Lightweight construction

**OPTIONS**

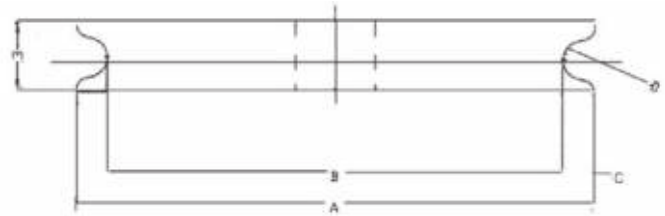
Hanger arm suspension  
Sling suspension  
Conversion kits to single sheave blocks  
Alternative socket suspensions

**CONDUCTOR SHEAVES**

	3720-xNy		3726-xNY		3730-xNy	
	in	mm	in	mm	in	mm
A	20.0	508	26.0	660	30.7	780
B	16.0	408	22.0	560	25.9	657
C	2.0	50	2.0	50	2.4	61
D	1.0	25	1.3	33	1.3	33
E	3.0	75	3.5	90	3.6	90

**PULLING ROPE SHEAVES**

	3720		3726		3730	
	in	mm	in	mm	in	mm
A	20.0	508	26.0	660	30.7	780
E	3.0	75	3.5	90	3.6	90



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**ACCESSORIES**

Timberland running boards are specifically designed for use with our multiple sheave stringing blocks for multiple conductors. A design thoroughly field tested and proven on many transmission line construction projects.

The board is designed to

This design minimizes fluctuations in the conductor tension and enables a very smooth passage of the running board through the block.

A hinged tail assembly stabilizes the running board against lateral tilting due to wind pressure. The tail assembly will lock up 10.5° above horizontal to prevent the tail from folding over the running board.

Load

The running boards are supplied with pulling rope swivels and conductor swivels to match linepull and tension requirements.

Patent No: USA 3222033  
Canada: 745912

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## HELICOPTER BLOCKS



Shown: Model 5708-1H  
REF: F000978

### STANDARD FEATURES

203 mm (8") urethane lined aluminum sheave  
Lining as per specification L-341M-79  
Grease fitting in sheave for periodic lubrication  
Aluminum frame  
584 mm (23") helicopter arm (painted yellow)  
Standard "Y" clevis eye suspension mounting  
Safe working load 2268 kg (5,000 lbs)



Shown: Model 5726-1NyH  
REF: F000949

### STANDARD FEATURES

ANSI Type 'B' socket for suspension mounting  
Safe working load 2268 kg (5,000 lbs)  
Frame zinc plated and lacquer dipped

	5720-1NyH		5726-1NyH		5730-1NyH	
	in.	mm	in.	mm	in.	mm
A	20	508	26	660	30	760
B	16	408	22	560	26	660
C	2	50	2	50	2.4	60
D	1	25	1.3	33	1.3	33
E	3	75	3.5	90	3.5	90

Note: Sheaves are available in unlined nylon, rubber lined reinforced composite sheaves (shown) and lined aluminum designs. Specifications are subject to change.



Shown: Model 6724-5U  
REF: F000976

### STANDARD FEATURES

Cast aluminum sheaves with cast urethane lining  
Cast steel center pulling sheave  
Safe working load 7,257 kg (16,000 lbs)  
NOTE: Sheaves available in larger diameters

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## SINGLE CONDUCTOR STRINGING BLOCKS



### STANDARD FEATURES

Aluminum conductor sheaves with urethane linings and roller bearings  
 Galvanized steel frame  
 Crosshead with type 'B' socket for suspension  
 Lightweight construction

### OPTIONS

Conversion kits for bundle blocks  
 5000 series open frame style with latch

### LINED CONDUCTOR SHEAVES

	6720-1U		6724-1U		6728-1U		6736-1U		6753-1U	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	20.00	508	24.88	632	27.63	702	35.63	905	54.13	1375
B	15.88	403	20.88	530	23.88	607	30.13	765	48.50	1232
C	2.06	52	2.00	51	2.00	51	2.75	70	2.81	71
E	0.69	17.5	0.69	17.5	0.69	17.5	1.13	29	0.94	24

Note: All sheaves are lined with urethane linings



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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HELICOPTER STRINGING BLOCKS



Model 5708-1H Shown

The 5000 series helicopter stringing blocks are suitable for stringing overhead single conductors and earthwire using helicopter construction techniques. All blocks incorporate a spring loaded side gate for easy installation of the pulling rope and retention of the conductor in the sheave during the stringing operation..

### FEATURES

- Anti-friction roller bearings
- Rugged frames of aluminum and galvanized steel
- ANSI tupe 'B' socket suspension
- Fold down helicopter arm painted in high visibility orange
- Vertical safe working load of 2300 kg (5000 lbs) on all blocks
- Lightweight high strength aluminium alloy sheaves

### OPTIONS

- Neoprene lined sheaves
- Urethane lined sheaves
- Rubber lined high impact nylon sheaves



Model 5716-1NYR Shown



	5708-1H		5716-1H		5720-1H		5724-1H		5728-1H		5736-1H	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Outside Dia.	8.00	203	16.00	406	20	508	24.88	632	27.88	708	35.62	905
Groove Dia.	6.00	152	13.62	346	15.88	403	20.88	530	23.88	607	30.13	765
Groove Depth	1.00	25	1.47	37	2.06	52.3	2.00	50.8	2.00	50.8	2.75	69.9
Groove Radius	0.62	16	0.84	21	0.69	17.5	0.69	17.5	0.78	19.8	1.13	29
Flare	15°		15°		15°		15°		15°		15°	

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## HELICOPTER STRINGING BLOCKS



The Model 5708-1H block is suitable for stringing overhead earth wire. It can also be used for stringing small conductors.

This stringing block incorporates

The block can be purchased with or without the helicopter arm.

### SPECIFICATIONS

Outside diameter: 203mm (8")  
Root diameter: 152mm (6")  
Depth of groove: 25.4mm (1")  
Width: 63.5mm (2.5")

Sheave: High strength aluminum casting  
Sheave lining: Durable urethane lining  
Bearings: Shielded ball bearings with provision for grease lubrication  
Frame: High strength aluminum castings  
Suspension: Y-clevis eye fitting is standard. Other fittings available upon request  
Helicopter arm: 584mm (23") long steel helicopter arm painted with high visibility orange for ease of visibility  
Removal of quick release pin allows the arm to fold alongside the frame for compact storage  
Working load: 2273 kg (5,000 lbs)  
Weight: 6.6 kg (14.5 lbs)

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**HELICOPTER STRINGING BLOCKS**

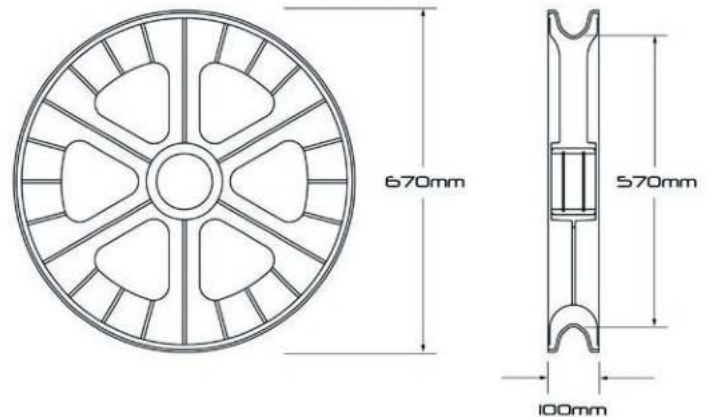


This stringing block s□  
construction techniques. A□  
sheave during the stringing operation.

**FEATURES**

- Rugged frames of aluminum alloy and galvanized steel
- ANSI Type "B" socket suspension
- Fold down helicopter arm painted in high visibility orange or red
- Vertical safe working load of 5,000 lbs (2,300 kg)
- Light weight, high impact composite sheaves with rubber lining

Reference Part Number: F000949



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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

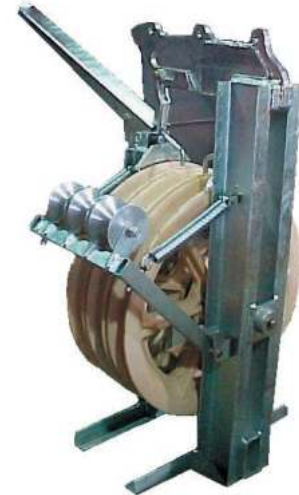
**HELICOPTER STRINGING BLOCKS**



Model 6724-5NYH



Model 6726-5UH



Model 3730-3NYH-GR  
(shown with optional  
grounding rollers)

The multiple sheaves

The attachment incorporates the center sheave. Spring loaded gates keep the rope positioned correctly until the running board passes through the block.

A unique mounting attachment can be removed to install a normal crosshead to the block for conventional conductor installation.

**FEATURES**

**Conductor Sheaves**

- Aluminum - with Molded urethane lining or spray on urethane lining
- High Impact Nylon - with molded rubber lining
- Nylon - high durability and light weight

Pulling Rope Sheave - Cast steel

- Frame - zinc plated steel
- Shaft - solid alloy steel

Helicopter arm - steel, painted with high visibility yellow. Removal of quick release pin allows arm to fold along side of block frame for compact storage.

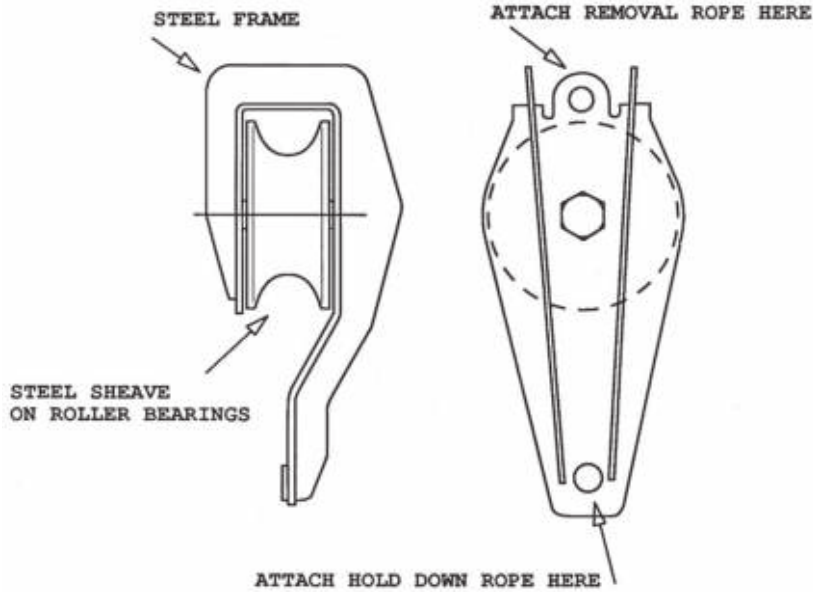
**OPTIONS**

- Optional crosshead - converts bundle blocks to closed crosshead
- Optional spacers - for customized conductor spacing, fabricated steel

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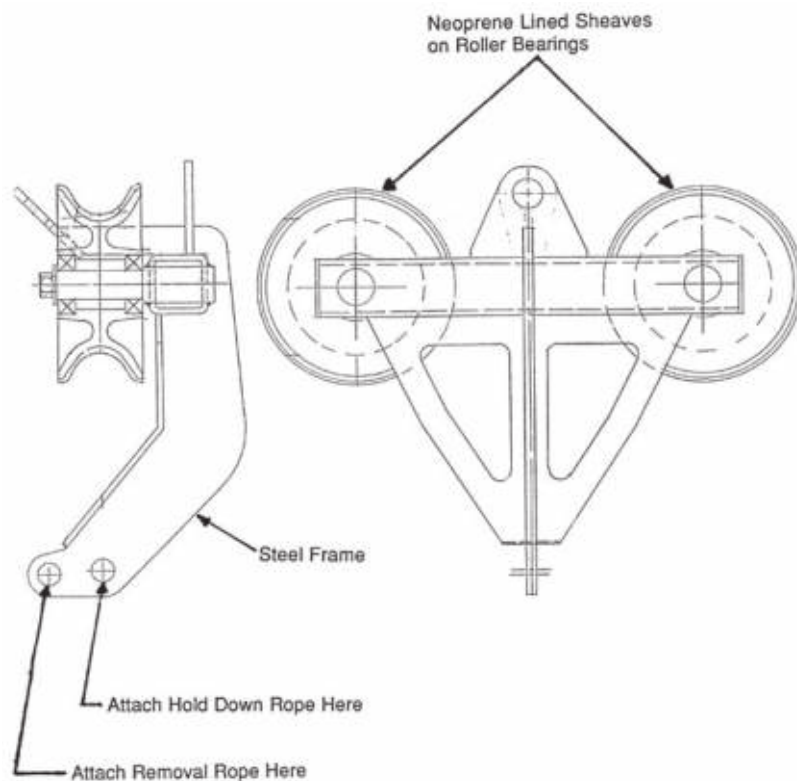
**HOLD DOWN BLOCKS**



**Model HD6F**

The hold down roller is used where the pulling rope will tend to lift out of the stringing block. This occurs on low towers.

Length: 44.45 cm  
 Width: 18.73 cm  
 Sheave Diameter: 15.24 cm  
 Weight: 11.34 kg



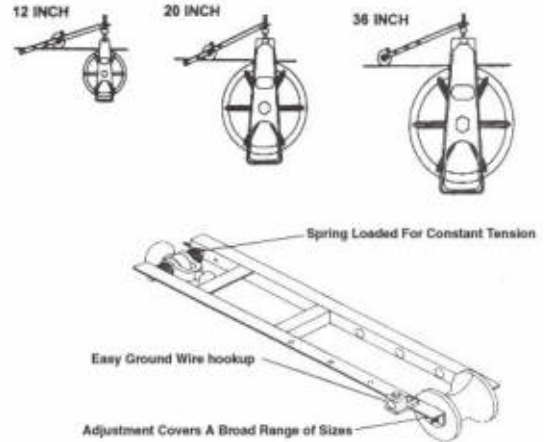
**Model HD2/6N**

The hold down block is used to assist in tensioning conductor between two spans where a splice has been made.

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**ACCESSORIES**



SPECIFICATIONS

Length:	800 mm (31.5")
Width:	172 mm (6.75")
Roller diameter:	83 mm (3.25")
Frame material:	zinc plated steel
Roller material:	aluminum
Roller length:	adjustable in 4 locations to accomodate various sized sheaves, from 300 mm (12") to 914 mm (36")
Spring:	double torsion heavy duty type

STANDARD FEATURES

- Grounding roller can be used when stringing conductors in close proximity to live lines
- Ideal for grounding induction voltage when working near live conductors
- Attaches to a standard ball socket type single stringing block
- Roller will ground wire sizes six to two million CM
- Socks, swivels and other devices will pass through the ground roller in either direction
- Ground roller is spring loaded against the conductor with enough force to ensure contact at all time
- Ground wire hook-up to accomodate up to 2/0 farrel

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**SECTION 8**  
**ACCESSORIES**

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

Timberland Equipment Limited  
[www.timberland.on.ca](http://www.timberland.on.ca)

PO Box 490, 459 Industrial Avenue  
Woodstock, Ontario, Canada N4S 7Z2

Phone: (519) 537-6262  
Fax: (519) 539-5853

Web: [www.timberland.on.ca](http://www.timberland.on.ca)  
Email: [sales@tewinch.com](mailto:sales@tewinch.com)

At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

**ACCESSORIES**

STANDARD FEATURES

12 braid synthetic construction, urethane saturated  
 Available in 4 standard colors: orange, yellow, red and green  
 Torque free (will not rotate under load)  
 Excellent to handle (stays flexible). No kinking or hocking  
 Open construction allows easy inspection for wear or damage  
 Easy to splice without special tools (see back of brochure)

Rope Diameter		Average Tensile Strength		Maximum Working Load		Weight per ft. / per m	
in.	mm	lbs.	kg	lbs.	kg	lbs.	kg
3/8	10	6600	2994	1320	599	0.045	0.067
7/16	11	8800	3992	1760	798	0.062	0.092
1/2	12	14600	6622	2920	1325	0.080	0.119
9/16	14	17000	7711	3400	1542	0.098	0.156
5/8	16	20100	9117	4020	1823	0.143	0.202
3/4	19	23000	10433	4600	2087	0.175	0.260
7/8	22	37800	17146	7560	3429	0.231	0.344
1	25	41900	19005	8380	3801	0.330	0.491

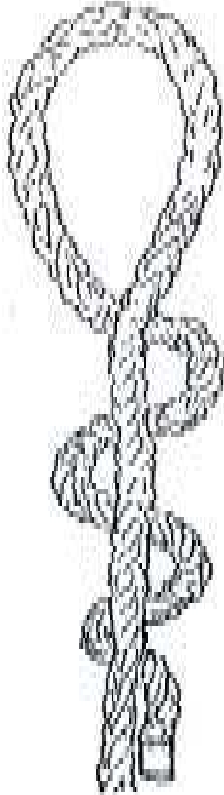
\* Working load based on 5:1 safety factor  
 (See notes on back of brochure)

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**ACCESSORIES**

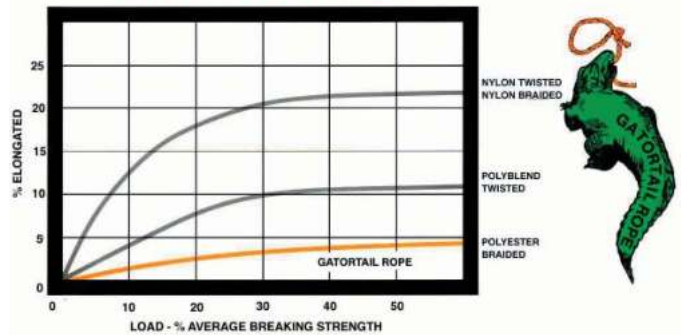
Equally  
separate  
strands and  
open rope



- ◀ Make 1st Full Tuck
- ◀ 2nd
- ◀ 3rd
- ◀ 4th
- ◀ 5th

IT'S THAT EASY!!!

**GATORTAIL  
STRETCH PROPERTIES**



**NO TOOLS REQUIRED**

**New Rope Tensile Strengths** - New Rope Tensile Strengths are based on test of new and unused rope of standard construction in accordance with cordage Institute Standard Test Methods.

Working Loads are for rope in good condition with appropriate splices, in non-critical applications, and under normal service conditions. Working loads should be exceeded only with expert knowledge of conditions and professional estimates of risk. Working loads should be reduced where life, limb, or valuable property are involved, or for exceptional service conditions such as shock loads, sustained loads, etc.

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

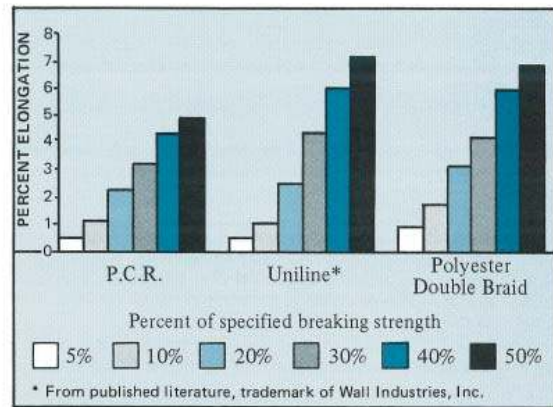
## ACCESSORIES



### STANDARD FEATURES

Constructed of high tenacity polyester fiber with helically wrapped polyester tape and covered with a jacket of polyester Urethane coated outer jacket for improved abrasion resistance, UV maintenance and water resistance

- Very low elongation
- Very high strength
- Abrasion and snag resistant
- Excellent wet/dry strength retention
- Torque-free, non-hockling
- Renders well on blocks



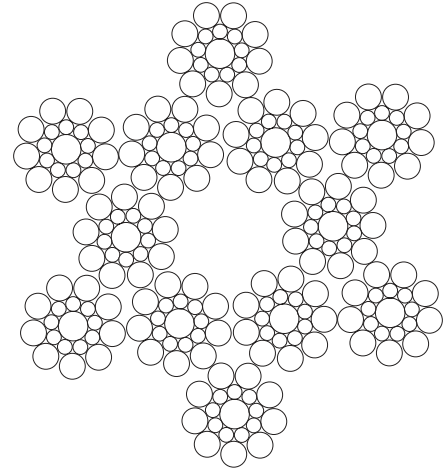
Rope Diameter		Average Tensile Strength		Weight	
in.	mm	lbs	kg	Per ft.	Per m
1/2	12	11000	4990	0.079	0.118
5/8	16	17000	7711	0.136	0.202
3/4	18	24200	10997	0.196	0.292
7/8	22	33000	14969	0.267	0.397
1	24	42500	19278	0.350	0.521

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16-7801-310

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES



Diameter (mm)	Model	Breaking Strength (daN)	Weight (kg/m)	Maximum Length per reel (in meters)		
				Diameter (mm)	Max Length (m)	Model of Reel
9	LDH12-9	4600	.268	9	2000	T4418
10	LDH12-10	6300	.320	10	2000	T4418
11	LDH12-11	7200	.429	11	1600	T4418
12	LDH12-12	9000	.47	12	1000	T4418
13	LDH12-13	10500	.609	13	1000	T4418
16	LDH12-16	16300	.840	14	1000	T4818
18	LDH12-18	18000	1.056	16	800	T4818
20	LDH12-20	19800	1.32	18	800	T4818
22	LDH12-22	26200	1.488	20	800	T5518
23	LDH12-23	30100	1.800	22	800	T5518
24	LDH12-24	36000	2.008	24	800	T5518

Note: Higher breaking strengths are available upon request.

### FEATURES

- Non-rotating construction specifically designed for conductor stringing applications
- High flexibility for ease of handling
- 12 strand steel wire, hexagonal construction

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES



Diameter (mm)	Breaking Strength (daN)	Weight (kg/m)	Maximum Length per reel (in meters)		
			Diameter (mm)	T4818 Reel	T5518 Reel
8	3351	0.18	8	4800	6700
9	5027	0.25	9	3800	5400
10	7015	0.37	10	3100	4300
11	9227	0.42	11	2500	3600
12	10037	0.51	12	2100	3000
13	11026	0.63	13	1900	2500
14	13052	0.71	14	1600	2200
16	15120	0.80	16	1200	1800
18	20460	1.07	18	950	1300
20	22440	1.17	20	800	1100
22	30720	1.56	22	600	900
23	32030	1.65	23	550	850
24	34334	1.72	24	550	800
26	38226	2.29	26	450	650
28	52800	2.80	28	-	500

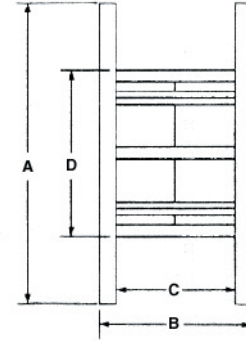
### FEATURES

Non-rotating construction specifically designed for conductor stringing applications  
 High flexibility for ease of handling  
 square construction

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES



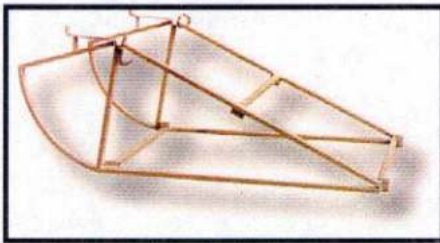
### DIMENSIONAL INFORMATION

Model No.	Rope Size		Reel Dia. (A)		Outside Width (B)		Inside Width (C)		Core (D)	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
T4418	8	5/16	1118	44	559	22	457	18	610	24
T4818	13	1/2	1219	48	559	22	457	18	610	24
T5518	26	1	1397	55	559	22	457	18	610	24

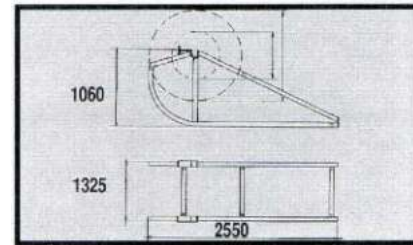
### ROPE CAPACITIES

Rope Diameter Reel Model	8mm	10mm	11mm	13mm	14mm	16mm	17mm	19mm
T4418	3800	2600	2000	1500	1200	1000	-	-
T4818	5000	3500	2600	2000	1500	1200	1000	800
T5518	7000	5000	3700	2900	2300	1800	1500	1300

### REEL ELEVATORS



Maximum Reel Dia. 1400mm  
Minimum Reel Dia. 700mm

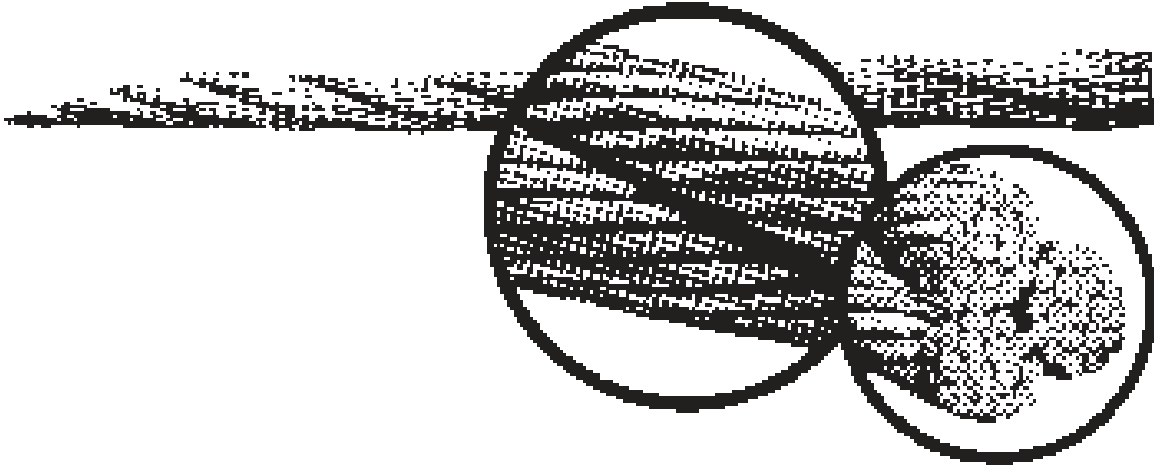


Maximum Weight 2000kg  
Maximum Width 600mm

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES



The 3 strand construction dramatically reduces rotational characteristics and when combining with a swaging process, provides an extremely stable rope with minimal rotational and coiling tendencies.

TSR pulling rope has a very smooth surface limiting abrasion with the wear factor on sheaves, drums, bullwheels and underground conduit being substantially reduced.

The compacted structure of the 3 strand swaged rope incorporates the desirable features of high strength with minimal constructional and elastic stretch.

Higher breaking strengths increase the safety factor and allow the selection of smaller rope diameters thus permitting the use of longer ropes for available drums and reels.

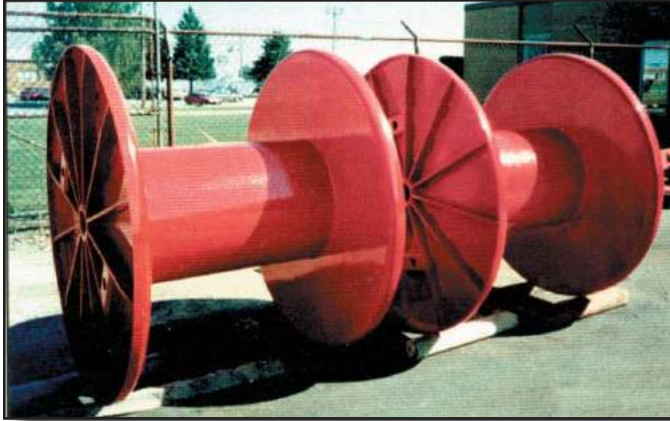
ROPE DIAMETER		BREAKING STRENGTH		APPROXIMATE WEIGHT	
in.	mm	lb.	kg	lb/ft	kg/m
1/4	6	7,500	3,402	0.13	0.19
5/16	8	11,700	5,307	0.21	0.31
3/8	10	17,000	7,711	0.30	0.45
7/16	11	22,800	10,340	0.40	0.60
1/2	12	30,000	13,608	0.53	0.79
9/16	14	37,200	16,874	0.66	0.98
5/8	16	44,000	19,958	0.83	1.23
11/16	17	55,000	25,000	0.99	1.47
3/4	19	64,000	29,030	1.19	1.77
13/16	21	75,000	34,020	1.39	2.07
7/8	22	87,000	39,463	1.61	2.39
1	25	114,000	51,710	2.10	3.12
1 1/8	28.5	151,600	68,910	2.77	4.13

**NOTE:** Swaged eyes supplied one end standard. Both ends available.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES


**MODEL 4440**

- 44" flange x 40" between flanges x 12 3/4" core dia.
- 112 cm flange x 102 cm between flanges x 32 cm core dia.
- Weight: 273 kg (600 lbs.)

**MODEL 6030**

- 60" flange x 30" between flanges x 24" core dia.
- 152 cm flange x 76 cm between flanges x 61 cm core dia.
- Weight 568 kg (1250 lbs.)

**MODEL 6040**

- 60" flange x 40" between flanges x 24" core dia.
- 152 cm flange x 102 cm between flanges x 61 cm core dia.
- Weight: 614 kg 1350 lbs.)

**MODEL 6050**

- 60" flange x 50" between flanges x 24" core dia.
- 152 cm flange x 127 cm between flanges x 61 cm core dia.
- Weight: 660 kg (1450 lbs.)

**MODEL 6060**

- 60" flange x 60" between flanges x 24" core dia.
- 152 cm flange x 152 cm between flanges x 61 cm core dia.
- Weight: 705 kg (1550 lbs.)

STANDARD REEL WIRE ROPE CAPACITIES

Rope Size		Model 4440		Model 6030		Model 6040		Model 6050		Model 6060	
in.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m
1/4	6	47292	14415	63168	19254	84224	26671	105280	32089	126336	38507
5/16	8	31767	9683	42432	12933	56576	17244	70720	21555	84864	25867
3/8	10	22712	6922	30336	9246	40448	12329	50560	15411	60672	18493
7/16	11	17106	5214	22848	6964	30464	9285	38080	11607	45696	13928
1/2	13	13296	4053	17760	5413	23680	7218	29600	9022	35520	10826
9/16	14	10651	3247	14227	4336	18970	5782	23712	7227	28454	8673
5/8	16	8725	2659	11654	3552	15539	4736	19424	5920	23309	7105
3/4	19	6152	1875	8218	2505	10957	3340	13696	4175	16435	5009
7/8	22			5914	1802	7885	2403	9856	3004	11827	3605
1	25			4589	1399	6118	1865	7648	2331	9178	2797
1 1/8	29			3667	1118	4890	1490	6112	1863	7334	2236
1 1/4	32			2918	890	3891	1186	4864	1483	5837	1779
1 3/8	35			2438	743	3510	991	4064	1239	4877	1486
1 1/2	38			2054	626	2739	835	3424	1044	4109	1252

**CAUTION:** When using synthetic ropes the characteristics of "Elastic Recovery" can, at times, create some unwanted effects. This is evidenced when storing very long lengths of rope, under high tensions, directly on to a drum reel as is found in transmission stringing operations. The forces on the reel drum and flanges build up with each wrap - until the accumulative forces reach *millions* of pounds. This, in some cases, will tend to crush the drum barrel, and pop off the drum flanges. A general rule of thumb is to wind synthetic rope at a maximum of about 2 to 3% of its elastic elongation characteristics, which varies dependent upon rope construction and material. For steel rope a maximum of 20% of rated breaking strength is normally sufficient.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**ACCESSORIES**


Steel breakaway reels are specifically designed for winding in and banding old conductor on reconducting operations. They may be used with take-up winders or puller tensioners and feature tapered barrels for ease of conductor removal in a compact banded coil. The unique flange lock feature provides complete flange security during pulling operations while permitting quick flange removal. Special sizes are available for special applications.

	BRS2814	BRS6030	BRS6632	BRS7236	BRS8436
Outside Dia.	711mm (28")	1524 (60")	1676mm (66")	1829mm (72")	2134mm (84")
Outside Width	381mm (15")	889mm (35")	965mm (38")	1067mm (42")	1067mm (42")
Width between flanges	356mm (14")	762mm (30")	813mm (32")	914mm (36")	914mm (36")
Barrel type	split taper	tapered	tapered	tapered	tapered
Barrel dia.	406mm (16")	635mm (25")	813mm (32")	813mm (32")	864mm (34")
Max. Linepull	454 kg (1000 lbs.)	680 kg (1500 lbs.)	680 kg (1500 lbs.)	680 kg (1500 lbs.)	680 kg (1500 lbs.)
Weight	61 kg (135 lbs.)	386 kg (850 lbs)	454 kg (1000 lbs)	522 kg (1150 lbs)	612 kg (1350 lbs)

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**ACCESSORIES**



MODEL E-96 STANDARD PULLING EYE

The standard pulling eye features a large offset eye to accommodate three-ton chain hoist hooks, and leaves the anchor eye free with plenty of clearance for attaching anchor rope, Preformed Guy Grips or Reliable Strand Vises.

An E-95B Adapter Wedge Bushing, designed for use with all E-96 Pulling Eyes, quickly adjusts to fit 1/2", 5/8", 3/4", or 1" anchor rods. By removing the Adapter Wedge, the E-96 Pulling Eye fits 1-1/4" rods.

The E-96 Pulling Eyes are easy to install by one person in minimum time. They are designed for working loads to approximately 6,000 lbs. (Ultimate strength - 18,000 lbs.)

Where higher tensions are required, the E-96 HD heavy duty eye can be used for working loads up to approximately 15,000 lbs.

Sizes are available for 1-1/4", 1-1/2", 1-3/4", and 2" anchor rods. Heavy duty pulling eyes are not standard stock items. They are made to special order in minimum quantity of six units.



MODEL E-96HD HEAVY DUTY PULLING EYE

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## ACCESSORIES

Model	S-16		S-20		S-32		S-40		S-55		S-85	
Maximum cutting capacities (shown in O.D.)	Output 4.40 Tons Weight 6.2 lbs Length 15"		Output 4.40 Tons Weight 6.4 lbs Length 15 1/8" Insulated handle tested to 20,000 volts		Output 19.84 Tons Weight 21 lbs Length 26 3/4"		Output 6.28 Tons Weight 11.5 lbs Length 22"		Output 13.12 Tons Weight 22 lbs Length 24 3/4"		Output 3 Tons Weight 15.5 lbs Length 26"	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
6 x 7 Hempcore or IWRC	5/8	16	3/4	20	1 1/4	32	3/4	20	1	26	Do not cut	
6 x 12 Hempcore or IWRC	5/8	16	3/4	20	1 1/4	32	3/4	20	1	26	Do not cut	
6 x 19 Hempcore or IWRC	5/8	16	3/4	20	1 1/4	32	3/4	20	1	26	Do not cut	
Copper wire or bar	5/8	16	3/4	20	1 1/4	32	3/4	20	1.26	32	Do not cut	
Aluminum wire or bar	5/8	16	3/4	20	1 1/4	32	3/4	20	1.26	32	Do not cut	
Soft steel bolts	5/8	16	3/4	20	1 1/4	32	3/4	20	7/8	22	Do not cut	
Reinforcing bar	Do not cut		Do not cut		1	26	Do not cut		Do not cut		Do not cut	
Bare copper wire strands	5/8	16	3/4	20	1 1/4	32	1.48	37	2	50	1.6	41
Bare aluminum wire strands	5/8	16	3/4	20	1 1/4	32	1.60	40	2	50	1.8	46
ACSR	5/8	16	25/32	21	1 1/4	32	1.62	41	2	50	Do not cut	
Galv. steel wire 1 x 7	9/16	14	9/16	14	1	26	5/8	16	3/4	20	Do not cut	
Galv. steel wire 1 x 19	9/16	14	9/16	14	1	26	5/8	16	3/4	20	Do not cut	
Telephone cable CCP	Not recommended		Not recommended		Not recommended		Not recommended		Not recommended		3.35	85
Lead sheathed cable (telephone cable)	Not recommended		Not recommended		Not recommended		Not recommended		Not recommended		3.35	85
Underground cable (power)	5/8	16	23/32	18	Not recommended		1.62	41	1.62	41	3.35	85



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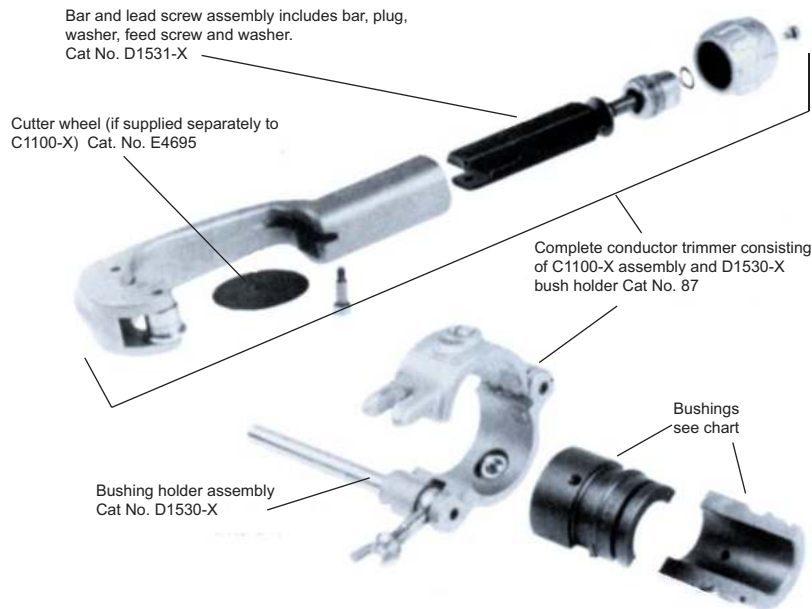
## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES



The Conductor Trimmer is specially designed to remove the aluminum strands from ACSR conductors without damage to the steel core when preparing conductors for compression jointing. Comprising a cutter assembly with replaceable cutting wheel, a bushing holder and bushing for gripping the conductor, the cutter assembly rotates on the bushing which also prevents the cutting wheel from reaching the steel strands.

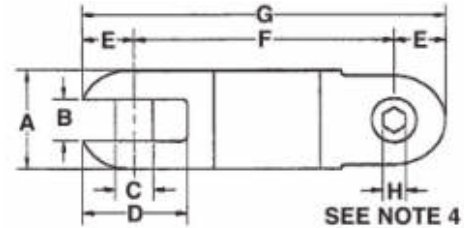
Bushings for most standard sizes of ACSR conductors are available as indicated on the chart. Bushings for other conductors can be supplied on request.



Cat No.	Conductor Size	Code Name	Description
E5904	70mm <sup>2</sup>	Horse	12/2.79 Alum., 7/2.79 Steel
E5927	100mm <sup>2</sup> 100mm <sup>2</sup>	Dog Hyena	6/4.72 Alum., 7/1.57 Steel 7/4.39 Alum., 7/1.93 Steel
E5914	150mm <sup>2</sup>	Wolf	30/2.59 Alum., 7/2.59 Steel
E5915	175mm <sup>2</sup>	Lynx	30/2.79 Alum., 7/2.79 Steel
E5923	400mm <sup>2</sup>	Zebra	54/3.18 Alum., 7/3.18 Steel

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**ACCESSORIES**

**STANDARD FEATURES**

Stainless steel construction (Models SW-30 and SW-38 are black oxide finish)

Intended for connecting the pull rope to the utility product in an overhead and underground application. The swivel permits rotation of the pull rope while protecting the product from twisting

Line swivels are not designed to run around bullwheels

Slotted clevis pins are supplied standard on SW-17 to SW-13. Hex clevis pins are supplied standard on swivels SW-14 to SW-38

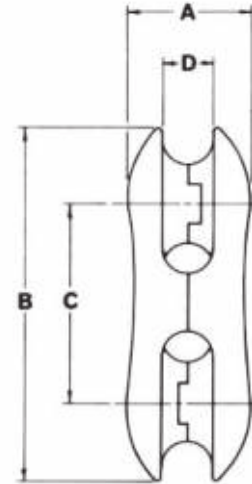
Part Number	Safe Working Load	Ultimate Load	A	B	C	D	E	F	G	H	Net Weight
SW-7	750 lb. 3.3 kN	2250 lb 10 kN	5/8" 16 mm	9/32" 7.1 mm	3/16" 4.8 mm	11/16" 17.5 mm	1/4" 6.4 mm	2" 51 mm	2 1/2" 64 mm	N/A	0.13 lb 0.06 kg
SW-9	2250 lb 10 kN	6750 lb 30 kN	7/8" 22 mm	3/8" 9.5 mm	5/16" 7.9 mm	31/32" 24.6 mm	7/16" 11.1 mm	2 1/2" 64 mm	3 3/8" 86 mm	7/32"	0.33 lb 0.15 kg
SW-10	3500 lb 16 kN	10500 lb 47 kN	1" 25 mm	13/32" 10.3 mm	3/8" 9.5 mm	1 3/32" 27.8 mm	1/2" 12.7 mm	2 7/8" 73 mm	3 7/8" 98 mm	1/4"	0.50 lb 0.23 kg
SW-13	5000 lb 22 kN	15000 lb 67 kN	1 1/4" 32 mm	17/32" 13.5 mm	13/32" 10.3 mm	1 9/32" 27.8 mm	17/32" 13.5 mm	3 11/16" 94 mm	4 3/4" 121 mm	1/4"	1.0 lb 0.45 kg
SW-14	7000 lb 31 kN	21000 lb 93 kN	1 3/8" 35 mm	9/16" 14.3 mm	1/2" 12.7 mm	1 3/8" 35.0 mm	5/8" 15.9 mm	3 7/8" 98 mm	5 1/8" 130 mm	5/16"	1.4 lb 0.63 kg
SW-15	9000 lb 40 kN	27000 lb 120 kN	1 1/2" 38 mm	19/32" 15.1 mm	1/2" 12.7 mm	1 9/16" 39.6 mm	11/16" 17.5 mm	4 1/4" 108 mm	5 5/8" 143 mm	5/16"	1.7 lb 0.77 kg
SW-17	10000 lb 45 kN	30000 lb 130 kN	1 5/8" 41 mm	11/16" 17.5 mm	5/8" 15.9 mm	1 23/32" 43.7 mm	3/4" 19.1 mm	4 1/2" 114 mm	6" 152 mm	3/8"	2.1 lb 0.95 kg
SW-19	15000 lb 67 kN	45000 lb 200 kN	2" 51 mm	25/32" 19.8 mm	11/16" 17.5 mm	2 1/16" 52.4 mm	15/16" 23.8 mm	5 1/8" 130 mm	7" 178 mm	7/16"	3.8 lb 1.7 kg
SW-26	30000 lb 133 kN	90000 lb 400 kN	2 3/8" 60 mm	1 1/32" 26.2 mm	7/8" 22.2 mm	2 25/32" 70.6 mm	1 3/16" 30.2 mm	7 5/8" 194 mm	10" 254 mm	7/16"	7.6 lb 3.5 kg
SW-30	50000 lb 222 kN	150000 lb 667 kN	3" 76 mm	1 3/16" 30.2 mm	1 1/8" 28.6 mm	3 5/8" 92.1 mm	1 1/2" 38.1 mm	10" 254 mm	13" 330 mm	7/16"	20 lb 9.1 kg
SW-38	62500 lb 278 kN	187500 lb 834 kN	3 3/4" 95 mm	1 1/2" 38.1 mm	1 1/4" 31.7 mm	4 1/4" 107.9 mm	1 7/8" 47.6 mm	12 1/8" 308 mm	15 7/8" 403 mm	1/2"	34 lb 15.4 kg

The Safe Working Load is calculated using a 3:1 safety factor based on the ultimate load. The Ultimate Load is the tensile load required to separate the line swivel into two or more parts.

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## ACCESSORIES



Pulling Rope Connectors are cast from high grade steel and all castings are 100% pull tested to ensure high quality. Pulling line connectors should be sized in accordance with the rated working load of the rope being used. These high strength connectors are shaped to pass around bullwheels under load.

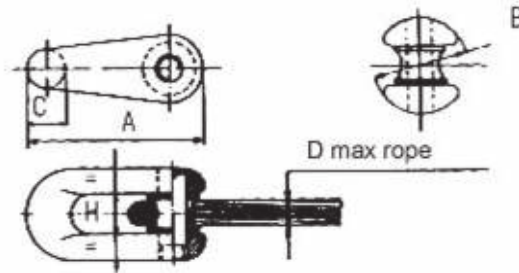
Model	Rope Size		A		B		C		D		Working Load		Weight	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg	lbs	kg
708110	1/4, 3/8	6, 10	1 13/16	30.2	3 3/4	95.3	2 1/8	54	7/16	11.1	6000	2772	.75	.34
708913	7/16	11	1 1/2	38.1	4 3/8	111.1	2 1/2	63.5	9/16	14.2	12000	5443	1	.45
709283	1/2	13	1 3/4	44.5	5 1/16	128.6	2 7/8	73	11/16	17.4	15000	6804	2	.91
708109	9/16, 5/8	14, 16	1 7/8	47.6	5 5/8	142.9	3 1/4	82.6	13/16	20.6	22000	9979	3	1.36
708228	3/4	19	2	50.8	6	152.4	3 1/2	88.9	15/16	23.8	28500	12928	4	1.81
706792	13/16, 7/8	21, 22	2 3/8	60.3	6 3/4	171.5	4	101.6	1 3/64	26.6	40000	18144	5	2.27
712231	1	25	2 5/8	66.7	7 3/4	196.8	4 3/4	120.6	1 3/16	30.2	67000	30391	6	2.72
7000314	1 3/16	30	3 1/8	80	9 1/4	236.5	5 3/4	144.8	1 5/8	41.3	80000	36287	9	4.08

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16-7608-310

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**ACCESSORIES**



Made of high tensile steel suitable to connect pilot and pulling cables. It is designed to pass on the groove of the bullwheels.

Model	Dimensions (mm)			Max Rope Diameter	Breaking Load (kg)	Weight (kg)
	A	B	C			
9210	55	28	15	10	6000	0.15
9211	68	40	19.5	13	10000	0.325
9212	86	48	20	16	16000	0.55
9213	97	54	22	18	21000	0.75
9214	115	60	27	24	36000	1.100
9215	175	75	42	26/28	75000	3.100

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## ACCESSORIES

### GRIPS FOR LARGE DIAMETER CONDUCTORS

- Designed for hollow conductors and other larger diameter cables
- Round jaws shaped to provide maximum contact with the cable, virtually eliminating conductor damage
- Custom manufactured to your order
- Model 1628-50 supplied with removable floating jaw held in place by a bolt swaged into the lever arm of the grip, secured by a nut and cotter pin. Jaw must be removed to insert cable.
- Please specify exact outside diameter of cables, circular mills with strand combination or manufacturer's code
- Each grip is manufactured for one-size cable only



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1628-16P	2 ACSR .31* (7.87mm)	477,000 CM ACSR .88" (22.35mm)	15,000 lbs (6818 kg)	7 1/4"(184mm)	17 lbs (7.73 kg)
1628-30**	477,000 CM ACSR .85" (21.59mm)	1,033,500 CM ACSR 1.24" (31.50mm)	20,000 lbs (9090 kg)	10 3/4" (273mm)	27 lbs (12.27 kg)
1628-40**	1,033,500 CM ACSR 1.24" (31.50mm)	1,590,000 CM ACSR 1.54" (39.12mm)	25,000 lbs (11,364 kg)	10 3/4" (273mm)	34 lbs (15.45 kg)
1628-50**	666,600 CM ACSR 1.00" (25.40mm)	2,500,000 CM Alu. 1.82" (25.40mm)	25,000 lbs (11,364 kg)	10 3/4" (273mm)	34 lbs (15.45 kg)

\* Minimum-maximum sizes listed indicate the unfinished size-range capability for each model number. Each grip is finished to fit one specific cable size only within range shown.  
 \*\* Maximum safe stringing tension 12,500 lbs to minimize conductor damage

### GRIPS FOR BARE ACSR, ALUMINUM AND STRANDED COPPER CABLES

- Round smooth inside jaw contour is ideal for bare ACSR, aluminum and stranded copper cables
- Smooth jaws grip with maximum contact and are less likely to damage conductors



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1656-20	6 ACSR .20 (5.08mm)	1/0 ACSR .40" (10.16mm)	4500 lbs (2045 kg)	4"(102mm)	3 lbs (1.36 kg)
1656-30	2 ACSR .31" (7.87mm)	.53" (13.46mm)	4500 lbs (2045 kg)	4 3/4" (121mm)	3.75 lbs (1.70 kg)
1656-40	.53" (13.46mm)	336,400 CM ACSR .74" (18.80mm)	8000 lbs (3636 kg)	5 1/2" (140mm)	8.30 lbs (3.76 kg)
1656-50	397,500 CM ACSR .74" (18.80mm)	477,000 CM ACSR .86" (21.84mm)	8000 lbs (3636 kg)	5 1/2" (140mm)	8.30 lbs (3.76 kg)
1656-60	477,000 CM ACSR .86" (21.84mm)	605,000 CM ACSR .96" (24.38mm)	8000 lbs (3636 kg)	5 1/2" (140mm)	8.30 lbs (3.76 kg)

NOTE: Grips are to be used for temporary installation, not for permanent anchorage. Do not exceed rated capacity. Always match proper size and type to grip application. When used on or near energized lines, ground, insulate or isolate grip before pulling. Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

### GRIPS FOR ALUMINUM CONDUCTORS

- Lightweight grips designed for use on aluminum in distribution work
- Round jaws shaped to provide maximum contact with the cable, virtually eliminating conductor damage
- Supplied with spring and locking loop handles, allowing jaws to be held in open position for easier placement on cable
- Can be supplied with hot-line latch on special order



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1678-20	.96" (24.38mm)	1.02" (25.91mm)	8000 lbs (3636 kg)	5 11/16" (144mm)	8.30 lbs (3.76 kg)
1678-30	1.02" (25.91mm)	1.08" (27.43mm)	5500 lbs (2500 kg)	5 11/16" (144mm)	8.20 lbs (3.71 kg)
1678-40	1.08" (27.43mm)	1.14" (28.96mm)	5500 lbs (2500 kg)	5 11/16" (144mm)	8.20 lbs (3.71 kg)
1678-50	1.14" (28.96mm)	1.20" (30.48mm)	5500 lbs (2500 kg)	5 11/16" (144mm)	7.90 lbs (3.58 kg)

### GRIPS FOR BARE WIRES

- Designed for working with solid and stranded bare wire from 0.08" (2mm) to 0.20" (5.1mm)
- Lightweight, economical grip
- Single "V" groove jaw



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1613-30	12 B&S solid .08" (2.03mm)	4 B&S solid .20" (5.08mm)	1500 lbs (680 kg)	3" (76mm)	1.5 lbs (0.68 kg)

### GRIPS FOR WEATHERPROOF WIRES

- Round inside jaw contour for weatherproof coated wire
- Notches in jaw provide firm grip on insulation



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1611-20	.20" (5.08mm)	.40" (10.16mm)	4500 lbs (2045 kg)	4 3/16" (106mm)	3 lbs (1.36 kg)
1611-30	.31" (7.87mm)	.53" (13.46mm)	4500 lbs (2045 kg)	4 3/4" (121mm)	3.75 lbs (1.70 kg)
1611-40	.53" (13.46mm)	.74" (18.80mm)	8000 lbs (3636 kg)	5 11/16" (144mm)	7.75 lbs (3.52 kg)
1611-50	.78" (19.81mm)	.88" (22.35mm)	8000 lbs (3636 kg)	5 11/16" (144mm)	7.75 lbs (3.52 kg)

Note: Due to various types of weatherproof coatings available, selection of proper grips is determined by outside diameter of cable.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

### GRIPS FOR PVC COVERED CONDUCTORS

- Serpentine jaws are specially machined to allow insertion of insulated conductor through the jaws, which reduces danger of slippage which might result in insulation damage
- Eliminates necessity of stripping insulation from conductor
- Round inside-jaw contour



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1659-20	.20" (5.08mm)	.42" (10.67mm)	4500 lbs (2045 kg)	4 3/16" (106mm)	3 lbs (1.36 kg)
1659-30	.31" (7.87mm)	.50" (12.70mm)	4500 lbs (2045 kg)	4 3/4" (121mm)	3.75 lbs (1.70 kg)
1659-40	.49" (12.45mm)	.79" (20.07mm)	8000 lbs (3636 kg)	5 11/16" (144mm)	7.75 lbs (3.52 kg)
1659-50	.79" (20.07mm)	1.01" (25.56mm)	8000 lbs (3636 kg)	5 11/16" (144mm)	7.75 lbs (3.52 kg)

### GRIPS FOR EXTRA HIGH STRENGTH CABLES, MESSENGER, GUY STRAND AND CONDUCTORS

- A family of grips designed for cable sizes from .12" (3.10mm) to 1" (25.4mm)
- Double "V" grooves provides four-point contact reducing chance of slipping and providing proper alignment of wire and cable
- For larger conductors, see grips with round inside-jaw contour



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1613-40	.12" (3.05mm)	.37" (9.40mm)	4500 lbs (2045 kg)	4 3/16" (106mm)	3 lbs (1.36 kg)
1684-5	.218" (5.54mm)	.55" (13.97mm)	8000 lbs (3636 kg)	5" (127mm)	6.25 lbs (2.84 kg)
1692-5	.218" (5.54mm)	.55" (13.97mm)	8000 lbs (3636 kg)	5" (127mm)	6.40 lbs (2.89 kg)
1684-5F*	.16" (4.06mm)	.55" (13.97mm)	8000 lbs (3636 kg)	5" (127mm)	62.5 lbs (2.84 kg)
1628-16	.31" (7.87mm)	.62" (15.75mm)	15000 lbs (6818 kg)	7 1/4" (184mm)	15.30 lbs (7.00 kg)
1628-17	.50" (12.70mm)	.75" (19.05mm)	15000 lbs (6818 kg)	7 1/4" (184mm)	16.30 lbs (7.40 kg)
1628-18	.75" (19.05mm)	1.00" (25.40mm)	15000 lbs (6818 kg)	7 1/4" (184mm)	15.70 lbs (7.10 kg)

\* Similar to Model 1684-5 except with a file inserted in jaw for extra gripping power. Replacement file No. 578 and screws No. 573 are also available.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

### GRIPS WITH HOT-LINE LATCH FOR BARE CONDUCTORS

- Hot-Line grips for both bare and insulated conductors
- Grip may be placed on wire with hotline stick
- When stick is removed, latch closes automatically to guard against grip accidentally disengaging from wire
- Standard hot-line grips are not supplied with springs or lock-open features
- When springs or lock-open features are desired, add prefix letter "S" before model number (ie. S1684-5H)



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1613-40H*	8 B&S solid .12" (3.05mm)	1/0 B&S strand .37" (9.40mm)	4500 lbs (2045 kg)	4 3/16" (106mm)	3.20 lbs (1.45 kg)
1684-5H*	.218" (5.54mm)	.55" (13.97mm)	8000 lbs (3636 kg)	5" (127mm)	6.50 lbs (3.00 kg)
1656-20H**	6 ACSR .20" (5.08mm)	1/0 ACSR .40" (10.16mm)	4500 lbs (2045 kg)	4 3/16" (106mm)	3.20 lbs (1.45 kg)
1656-30H**	2 ACSR .31" (7.87mm)	.53" (13.46mm)	4500 lbs (2045 kg)	4 7/8" (124mm)	4 lbs (1.81 kg)
1656-40H**	.53" (13.46mm)	336,400 CM ACSR .74" (18.80mm)	8000 lbs (3636 kg)	5 1/2" (140mm)	8.50 lbs (3.85 kg)
1656-50H**	.74" (18.80mm)	.86" (21.84mm)	8000 lbs (3636 kg)	5 1/2" (140mm)	8.50 lbs (3.85 kg)
1656-60H**	477,000 CM ACSR .86" (21.84mm)	605,000 CM ACSR .96" (24.38mm)	8000 lbs (3636 kg)	5 1/2" (140mm)	8.40 lbs (3.81 kg)

### GRIPS WITH CURVED-JAW FOR EHS CABLE

- When pulling EHS (extra high strength) galvanized steel cable, the galvanizing has a tendency to coat the jaws of any grip causing the cable to slip
- To reduce the possibility of slippage and damage to the cable, the jaws of this grip are milled on a curve with a double "V" contour
- Model No. S1684-74H available with hot-line latch and spring.



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1684-74	.218" (5.54mm)	.55" (13.97mm)	8000 lbs (3636 kg)	5" (127mm)	6.30 lbs (2.85 kg)
S1684-74H	.218" (5.54mm)	.55" (13.97mm)	8000 lbs (3636 kg)	5" (127mm)	6.50 lbs (2.95 kg)

\* Hot-line latch and spring

### GRIPS FOR BELL-SYSTEM

- Model No. 1684-5AT is identical to Bell-System type "L" strand puller
- Model No. 1628-16AT is identical to Bell-System type "H" strand puller
- All are equipped with chain, toggle and shackle



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1684-5AT	.218" (5.54mm)	.55" (13.97mm)	8000 lbs (3636 kg)	5" (127mm)	6.90 lbs (3.13 kg)
1628-16AT	.31" (7.87mm)	.62" (15.75mm)	15000 lbs (6818 kg)	7 1/4" (184mm)	15.80 lbs (7.16 kg)
1692-5AT	.218" (5.54mm)	.55" (5.54mm)	8000 lbs (3636 kg)	5" (127mm)	6.60 lbs (3.00 kg)

For support wire .134 and larger, refer to 1659 series. Outside diameter of support wire includes thickness of polyethylene coating.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

### GRIPS FOR TYPE "B" STRAND PULLER

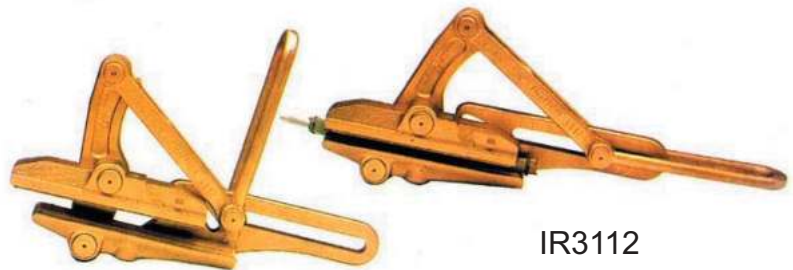
- Similar to Bell-System type "B" strand puller
- Designed to pull 1/4" (6.35mm) figure-8 telephone cable
- Serpentine grooves grip insulation on strand, preventing slippage
- Equipped with chain, toggle and shackle



Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
1659-5AT	.20" (5.08mm)	.37" (9.40mm)	5000 lbs (2268 kg)	5" (127mm)	6.70 lbs (3.03 kg)

### GRIPS FOR OPGW

- Specifically designed for OPGW
- Interchangeable liners are machines specifically to the diameter of the OPGW cable
- Manufactured from high tensile, heat treated and cadmium plated steel



IR3112

Model	Minimum Cable	Maximum Cable	Maximum Safe Load	Jaw Length	Approx Weight
IR3112	.24" (6.0mm)	.90" (23.0mm)	11,000 lbs (5000 kg)	8.66" (220mm)	15.42 lbs (7.00 kg)

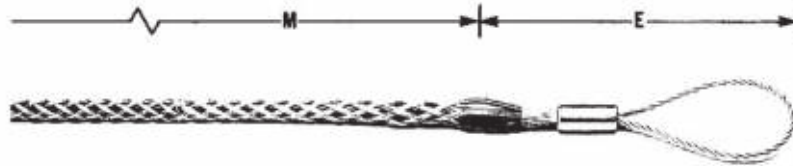
**Note:** Liners are custom machined to fit the specific diameter of the conductor. Please provide exact dimensions of conductor when ordering.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

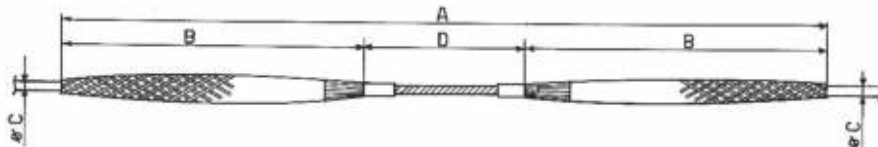
## ACCESSORIES

### SINGLE FLEXIBLE EYE TYPE



Timberland Model	Size Range O.D.		Design Strength		DIMENSIONS			
	in	mm	lbs	kg	M		E	
01-030-817	.31-.67	8-17	6614	3000	43.3	1100	11.8	300
01-078-2917	.67-1.14	17-29	17196	7800	53.5	1360	13.4	340
01-120-3829	1.14-1.50	29-38	26455	12000	57.9	1470	17	430
01-180-5038	1.50-1.97	38-50	39683	18000	66.9	1700	17.7	450

### DOUBLE SOCK TYPE



Timberland Model	Size Range O.D.		Design Strength		DIMENSIONS					
	in	mm	lbs	kg	A		B		D	
01-030-817	.31-.67	8-17	6614	3000	96.5	2450	43	1100	10.5	250
01-078-2917	.67-1.14	17-29	17196	7800	119	3020	53.5	1360	12	300
01-120-3829	1.14-1.50	29-38	26455	12000	128	3240	58	1469	12	399
01-180-5038	1.50-1.97	38-50	39683	18000	148	3750	67	1700	14	350

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

### FLEXIBLE EYE TYPE



Standard Duty (for conductors, ground wire and wire rope)

Timberland Model	Kellems Equivalent	Size Range O.D.		Design Strength		Dimensions					
						M		E		A	
		in	mm	lbs	kg	in	mm	in	mm	in	mm
03-030-1206	033-02-044	.25-.49	6-12	6,800	3,084	26	660	9	228	.25	6
03-045-1812	033-02-046	.50-.79	12-18	10,000	4,536	32	813	9	228	.312	8
03-065-2519	033-02-048	.75-.99	19-25	13,400	6,532	41	1041	11	279	.375	10
03-111-3125	033-02-050	1.00-1.24	25-31	24,600	11,159	52	1321	12	304	.50	13
03-138-3732	033-02-052	1.25-1.49	32-37	30,600	13,880	56	1422	12	304	.50	13
03-138-4438	033-02-054	1.50-1.74	38-44	30,600	13,880	60	1524	12	304	.50	13
03-217-5645	033-02-056	1.75-2.24	45-56	48,000	21,773	70	1778	18	457	.625	16

Heavy Duty (for high strength conductors and pulling ropes)

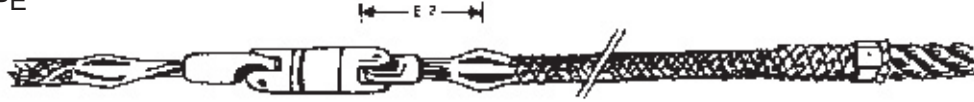
Timberland Model	Kellems Equivalent	Size Range O.D.				Design Strength		Dimensions					
		Conductor		Rope				M		E		A	
		in.	mm	in	mm	lbs.	kg.	in	mm	in	mm	in	mm
04-029-904	033-27-1037	.19-.37	5-9	.25-.65	6-16	6,500	2,950	24	610	10	254	.218	5
04-063-1509	033-27-1038	.38-.62	9-16	.50-.90	13-23	14,000	6,360	36	914	12	304	.375	10
04-090-2216	033-27-1039	.63-.87	16-22	.75-1.10	19-28	20,000	9,090	48	1220	13	330	.437	11
04-138-2822	033-27-1040	.88-1.12	22-28	1.00-1.50	25-38	30,600	13,880	60	1524	15	380	.500	13
04-212-3428	033-27-1041	1.13-1.37	28-34	1.25-1.70	32-43	46,800	21,270	76	1930	18	457	.625	16
04-301-4835	033-27-1042	1.38-1.90	35-48	1.50-2.10	38-53	66,500	30,200	89	2260	24	610	.750	19

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

### FORGED EYE TYPE



Recommended combination of grips (socks) and swivels for temporary splices (double socking) of conductors.

Timberland Model	Nominal Grip Size		Size Range O.D.		Design Strength		Recommended Swivel	Dimensions			
								M		E	
	in	mm	in	mm	lbs	kg		in	mm	in	mm
033-02-016	3/8	10	.25-.49	6-12	6,800	3,084	SW-9	26	660	5	127
033-02-018	5/8	16	.50-.74	12-18	10,000	4,536	SW-13	32	813	6	152
033-02-020	7/8	22	.75-.99	19-25	13,400	6,532	SW-13	41	1041	6	152
033-02-022	1 1/8	29	1-1.24	25-31	24,600	11,159	SW-15	52	1321	8	203
033-02-024	1 3/8	35	1.25-1.49	32-37	30,600	13,880	SW-17	56	1422	8	203
033-02-026	1 5/8	41	1.50-1.74	38-44	30,600	13,880	SW-17	60	1524	9	228
033-02-028	2	51	1.75-2.24	45-46	48,000	21,773	SW-19	70	1778	10	254

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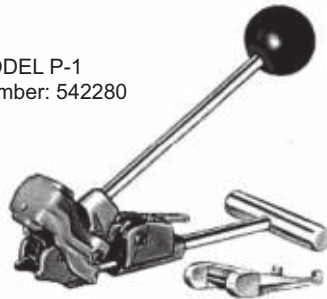
## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

MODEL P-38  
Part Number: 538284



MODEL P-1  
Part Number: 542280



3/8 inch Clamp Adapter, Part D-229  
Part Number: 540390



D-225-A MALLET  
Part Number: 542281



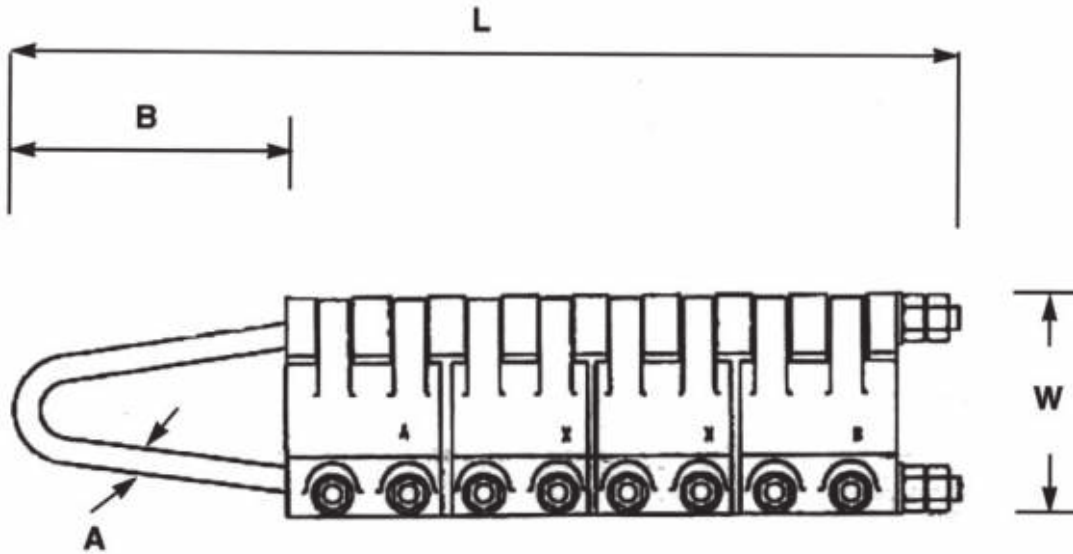
D-550 CLAMP CUTTER  
Part Number: 563885

Clamp Band Width	Clamp Inside Diameter	Clamps per pkg.	Open End	Preformed
9mm (3/8")	30mm (1 3/16)	100		P-3
9mm (3/8")	35mm (1 3/8)	100	O-311	P-311
9mm (3/8")	50mm (2)	100	O-316	
9mm (3/8")	79mm (3 1/8)	100	O-325	
16mm (5/8")	25mm (1)	100		P-4
16mm (5/8")	31mm (1 1/4)	100		P-5
16mm (5/8")	38mm (1 1/2)	100		P-6
16mm (5/8")	44mm (1 3/4)	100		P-7
16mm (5/8")	50mm (2)	100	O-8	P-8
16mm (5/8")	57mm (2 1/4)	100		P-9
16mm (5/8")	63mm (2 1/2)	50	O-10	P-10
16mm (5/8")	69mm (2 3/4)	50		P-11
16mm (5/8")	76mm (3)	50	O-12	P-12
16mm (5/8")	88mm (3 1/2)	50	O-14	P-14
16mm (5/8")	101mm (4)	50	O-16	P-16
16mm (5/8")	114mm (1/2)	50	O-18	P-18
16mm (5/8")	127mm (5)	25	O-20	P-10
16mm (5/8")	152mm (6)	25	O-25	P-24

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**ACCESSORIES**



DIMENSIONS (APPROX)

A = 22.5mm  
B = 381 mm  
L = 927 mm  
W = 190 mm

Weight = 30 kg

Maximum working load	9,000 daN
Maximum conductor diameter	63 mm

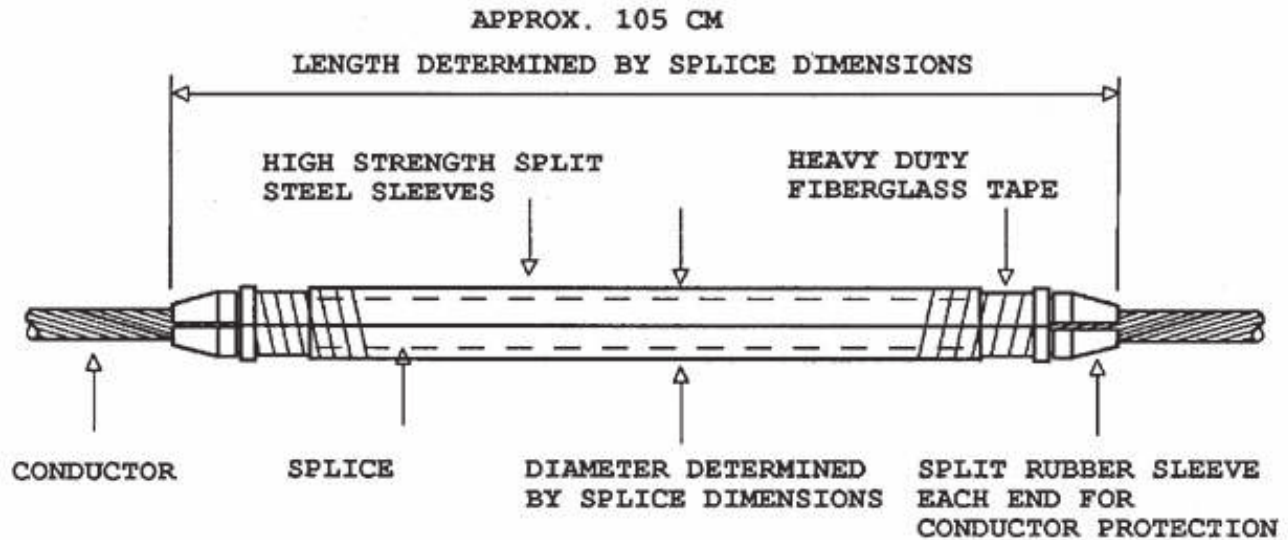
**NOTE:** Grips are custom machined to suit customer's exact conductor diameter. A sample of the conductor is required at the time of the order.

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16-7502-310

**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**ACCESSORIES**



The high strength joint protector is designed to cover the joint or splice between two lengths of conductor and allow it to pass through the stringing blocks without bending or damage.

The joint protector consists of two half steel sleeves with a split rubber protector at each end.

To use, position the rubber protectors over the conductor at each end of the joint or splice. Place the two steel sleeves over the joint and over the rear part of the rubber protectors.

Wrap each end of the steel sleeve with heavy duty fiberglass tape, at least 3 layers. This will hold the steel sleeves tightly together.

To remove the joint protector, simply cut the tape on each end then remove the steel sleeves and rubber protectors to use again.

**NOTE:** Customer to supply conductor joint dimensions with order. Timberland requires the length and cross section dimensions of the splice after compression.

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16-7698-310

**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**ACCESSORIES**


Kwikmount Running Earths are specially designed for grounding conductors and/or pulling rope in a range of diameter from 6mm (1/4”) up to 64mm (2 1/2”). They have been tested up to 20,000 amps for fault-current duration up to 25 cycles.

Installation procedure as detailed on reverse.

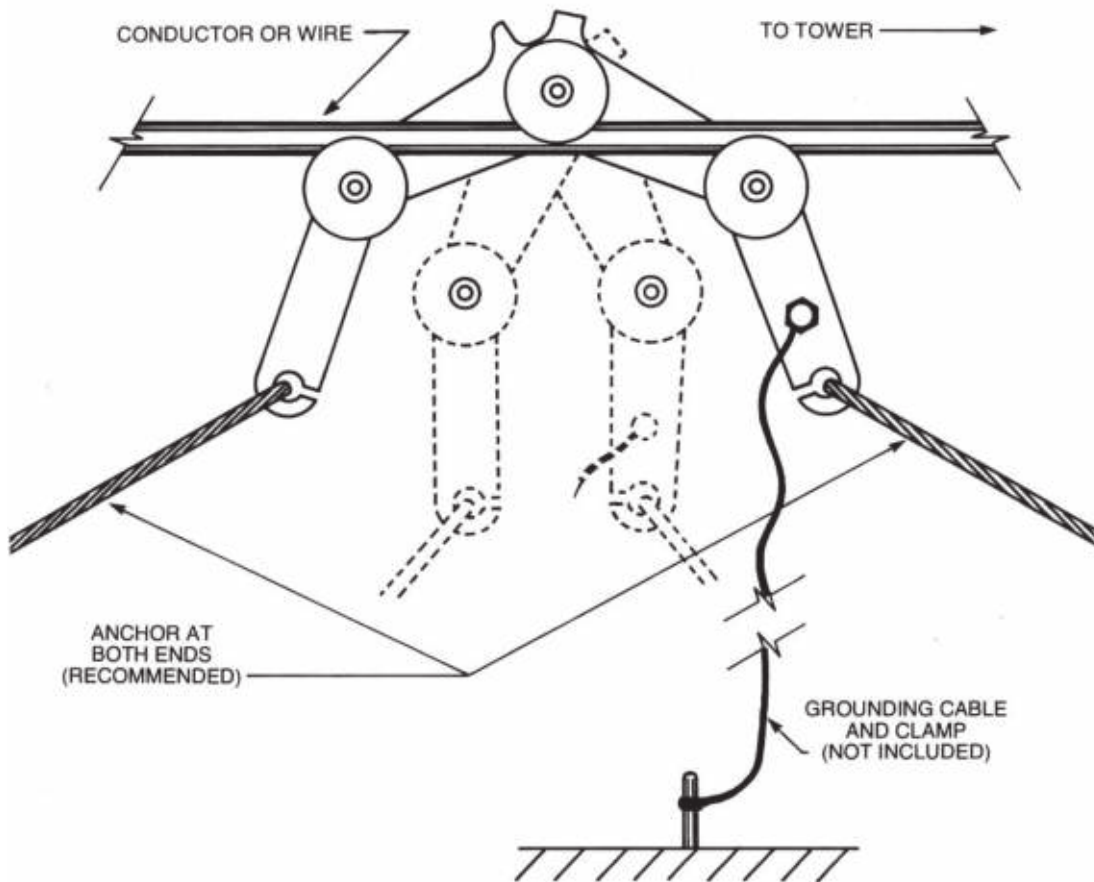
Model	Roller size and type	Purpose	Weight		Diameter Range	
			kg	lbs.	mm	in.
9003-3A	Aluminum 76mm (3”)	Conductor	3.2	8	6-32	1/4”- 1 1/4”
9003-3S	Steel 64mm (2 1/2”)	Pulling Rope	4.0	9	6-25	1/4”- 1”
9004-3A	Aluminum 89mm (3 1/2”)	Conductor	5.4	12	13-64	1/2”- 2 1/2”

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**ACCESSORIES**

TYPICAL KWIKMOUNT INSTALLATION



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**ACCESSORIES**



The "Conductempor" is constructed of the finest materials and contains a highly accurate bimetal thermometer to determine the temperature of the conductor and not just the air. With quick accurate response to temperature variations, it may be used for any size aluminum conductor.

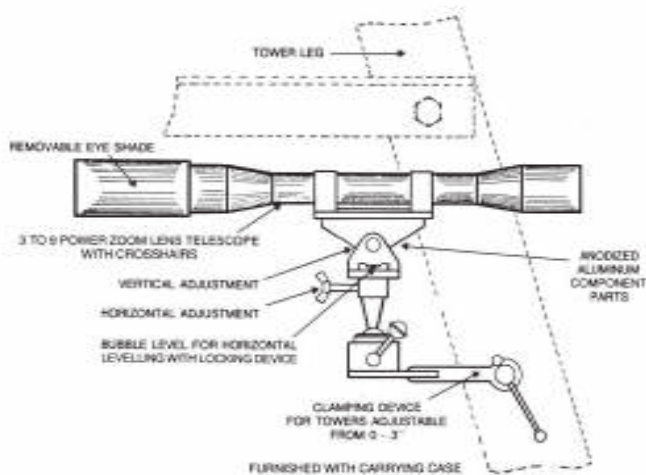
It has a large 1-3/4" inch dial graduated in 2 degree increments for ease of reading with dual Fahrenheit and Centigrade scales.

Part Number: 537145

**Variable Sag-Scope**

primarily used to sag single conductor  
A simple and inexpensive device for accurate conductor sagging.  
Easily adjustable clamp for quick set-up.

Part Number: 536347



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**ACCESSORIES**


Model	Sheave Diameter		Attachment	Max. Rope Dia.		Ultimate Capacity		Safe Working Load	
	in.	mm		in.	mm	lbs	kg	lbs	kg
116	6	152	Plain Yoke	1/2	13	50,000	22,680	12,500	5,670
126	6	152	Swivel Hook	1/2	13	36,000	16,330	9,000	4,082
118	8	203	Plain Yoke	5/8	16	70,000	31,752	17,500	7,938
128	8	203	Swivel Hook	5/8	16	36,000	16,330	9,000	4,082
1110	10	254	Plain Yoke	3/4	19	125,000	56,700	31,250	14,175
1210	10	254	Swivel Hook	3/4	19	42,000	19,051	10,500	4,763
1114	14	356	Plain Yoke	7/8	22	150,000	68,040	37,500	17,010
1214	14	356	Swivel Hook	7/8	22	100,000	45,360	25,000	11,340

## Sagging Transits

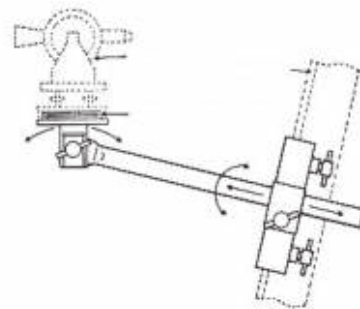
Primarily used to sag bundle conductor



Ruggedly constructed  
Weather protected  
Convenient to use  
Highly accurate

Models available for all sagging applications.

Optional tower mounting adaptor available



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16-7610-013

# TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

Accuracy: +/- 0.5% of full scale capacity for precise data.

Broadest range of capacities and resolutions are certain to fit your needs.

Wide temperature range for use in nearly any environment. (-45 to 60°C / -50 to 140°F)

Large safety factor for overload protection and long life.

No batteries required.

Dial size choice for the best in portability or visibility.

Anti-parallax dial and pointer produce accurate readings from any perspective.

Maximum hand retains peak load point and is easily reset.

Zero control cancels preset loads (backside).

High strength case resists heavy blows.

Generous shackle openings mate with most hooks and hardware

High specification materials on all load components. Heat treated to tight tolerances.

Durable powder coat paint provides outstanding protection.

Offset load beam eases tension measurement



Digital Available

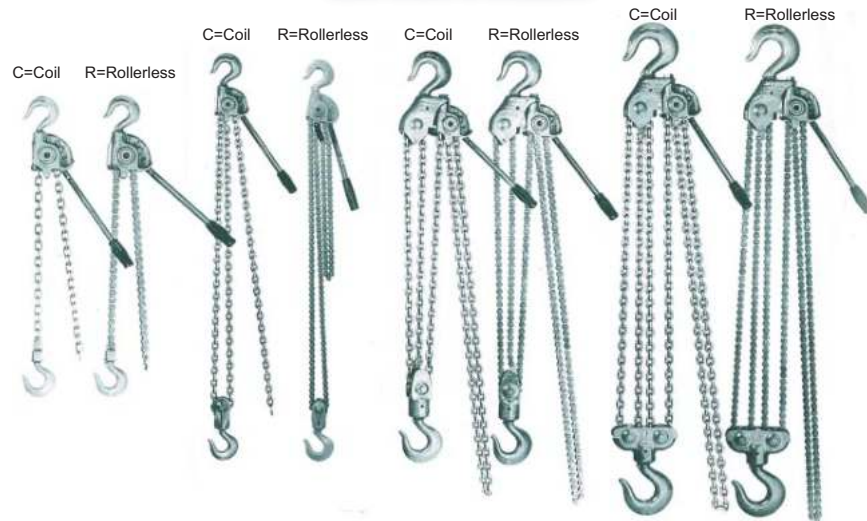
250mm (10") Dial size			
Kilogram Capacities		Pound Capacities	
Capacity	Division Size	Capacity	Division Size
200	1	500	2
500	2	1,000	5
1,000	5	2,000	10
2,000	10	4,000	20
4,000	20	5,000	20
5,000	50	6,000	25
10,000	50	8,000	50
15,000	100	10,000	50
20,000	100	15,000	100
		20,000	100
		30,000	200
		40,000	200
		50,000	200

125mm (5") Dial size			
Kilogram Capacities		Pound Capacities	
Capacity	Division Size	Capacity	Division Size
200	2	500	5
500	5	1,000	10
1,000	10	2,000	20
2,000	20	4,000	25
4,000	25	5,000	50
5,000	50	6,000	50
10,000	100	8,000	50
		10,000	100
		15,000	100
		20,000	200

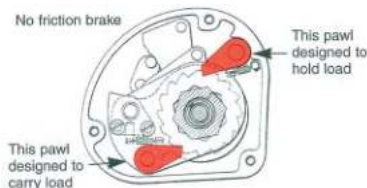
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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES

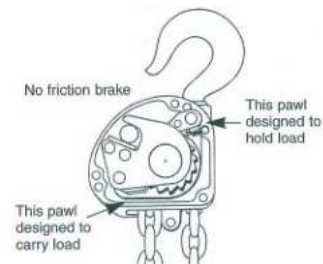


3/4 Ton thru 1 1/2 Ton sizes			1 1/2 Ton thru 3 Ton Sizes			3 3/4 Ton thru 4 1/2 Ton Sizes			5 Ton and 6 Ton Sizes		
3/4 Ton	Coil NBC-1	Rollerless NBR-1	1 1/2 Ton	Coil NBC-2	Rollerless NBR-2	3 3/4 Ton	Coil AC-3	Rollerless AR-3	5 Ton	Coil AC-4	Rollerless AR-4
1 Ton	NCC-1	NCR-1	2 Ton	NCC-2	NCR-2	3 3/4 Ton		ER-3	5 Ton		ER-4
1 1/4 Ton	AC-1	AR-1	2 1/2 Ton	AC-2	AR-2	3 3/4 Ton		NDR-3	5 Ton		NDR-4
1 1/4 Ton		ER-1	2 1/2 Ton		ER-2	4 1/2 Ton	EC-3		6 Ton	EC-4	
1 1/2 Ton	EC-1	NDR-1	2 1/2 Ton	EC-2	NDR-2	4 1/2 Ton	NDC-3		6 Ton	NDC-4	
1 1/2 Ton	NDC-1		3 Ton	NDC-2							
			3 Ton								



Positive ratchet and pawl mechanism. Loads are designed to be carried and held by alloy steel pawls against alloy steel gears. No friction brake to slip or freeze. The "FAST LIFT" design feature of the "N" series is its one or two notch take up capability per lever stroke. Each notch requires a 22 1/2° power stroke of the handle so the operator can lift 22 1/2° or 45° intervals. On Model NBC-1, rated at 3/4 ton, the total take-up per complete lever stroke is .562. This direct drive design is the fastest design in the hoisting industry. Load lowering differs from load lifting. This can be controlled to the standard one notch at a time to give precision lowering.

Practically no maintenance is required of this design because the housing is of cast alloy steel and all bushings are lifetime lubricated. Because of its unique, compact steel construction it is actually lighter in weight than most comparable models. Compare the weights as shown in the accompanying charts with any other similar product. You will be amazed to find them so much more advantageous - 25-35% in large sizes.



Cam arrangement of E and A Series hoists enables operator to lift full load with a minimum pull. Single lever controls up, down or freechaining. You can actuate control with gloves on and free-chain without holding handle.

Lifts and lowers one notch over 60° power stroke.

You can use any standard 1/2" drive ratchet wrench in the square hole in end chain sheave as a direct drive for speed lifting. This greatly increases the lift speed for lighter loads.

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**ACCESSORIES**



**SPECIFICATIONS**

Top Ring - forged steel, swivelling  
 Sheave - free running 3" diameter, rugged aluminum alloy  
 Bearings - sealed ball bearings  
 Load Capacity - 1000 lb safe working load  
 Line Capacity - Maximum rope diameter 16mm (5/8")  
 Weight - 1.1 kg (39 oz)  
 Dimensions - 317mm (12.5") L x 64mm (2.5") W x 82mm (3.25") deep

**Conductor Lifting Hook**



Our cast aluminum conductor hooks feature in place, permanently bonded urethane conductor guarding. A formed gripping area, combined with a large diameter lifting eye at the top and a standard heavy duty shackle make single conductor hoisting possible without damage to conductors.

Part Number:	543286
Material:	heat treated aluminum
Safe working load:	1814 kg (4000 lbs)
Shackle rating:	2948 kg (6500 lbs)
Overall length:	330 mm (13.0")
Weight:	2.95 kg (6 lbs 8 oz)

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16-7500-310

**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

## ACCESSORIES

These lightweight, high strength, aluminum alloy units are specifically designed for use on any manual lifting or pulling application where ease of handling and carrying are important considerations.

This model has an open head with swivelling top ring and quick opening crosshead with captive stainless steel pull pin. Both models are equipped with a sealed ball bearing and forged steel safety slip hook.

### SPECIFICATIONS

Top Ring - forged steel, swivelling  
Sheave - free running 3" diameter, rugged aluminum alloy  
Bearings - sealed ball bearings  
Load Capacity - 1000 lb safe working load  
Line Capacity - Maximum rope diameter 16mm (5/8")  
Weight - 1.1 kg (39 oz)  
Dimensions - 317mm (12.5") L x 64mm (2.5") W x 82mm (3.25") deep



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16-7505-310

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

## ACCESSORIES



Model CH12



Model CH40S



Model CH60D



Model CH100S



Model CH100D



Model CH200D

Model	Action	Rated Pressure (kg/cm <sup>2</sup> )	Compressing Capacity (t)	Max Allowable Dia. (mm)	Weight (kg)
CH12	Single	700	12	30	5.9
CH12T	Single	700	12	30	4.8
CH40S	Single	700	40	44	12.7
CH60D	Double	700	60	60	24.0
CH100S	Single	700	100	76	33.8
CH100D	Double	700	100	76	33.0
CH200D	Double	700	200	90	97.5

### OPTIONS

Aluminum or steel dies  
3m, 5m or 10m hose sets  
Hose cases

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At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

## ACCESSORIES



Model HPU 2.2



Model SMP 3



Model HPU 5

	Model HPU 2.2	Model SMP 3	Model HPU 5
Engine driven pump	Gas	Electric	Gas
Rated pressure	700 kg/cm <sup>2</sup>	700 kg/cm <sup>2</sup>	700 kg/cm <sup>2</sup>
Engine	2.2 PS / 4500 rpm		5 PS / 3600 rpm
Motor		200V, 3 phase, 2.2 kW	
Dimension (mm)	440 x 310 x 420	682 x 420 x 537	590 x 430 x 520
Weight (kg / lbs)	31 kg / 69 lbs	89 kg / 196 lbs	58 kg / 128 lbs
Applicable compression heads	CH60D CH100S CH100D	CH200D	CH60D CH100S CH100D CH200D

### HAND OPERATED PUMP



Model HPU 8

	Model HPU 8
Rated pressure	700 kg/cm <sup>2</sup>
Dimensions (mm)	840 x 250 x 160
Weight (kg)	15
Applicable compression heads	CH40S CH100S

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16-7508-310

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**HYDRAULIC POWER UNIT**



This 31.4 kW (18 hp) hydraulic power pack unit is designed to work in conjunction with the poleboss unit or Quadtrailer.

**SPECIFICATIONS**

Hydraulic power unit

Engine: Honda 13.4 kW (18 hp)

Pump displacement: 12 GPM @ 1800 psi

External adjustable relief valve  
Inline return line hydraulic filter  
0-2000 psi pressure gauge  
28 liters (7.5 gallon) marine steel fuel tank  
Friction controlled throttle  
12 VDC battery  
Self-contained within frame mount  
Accessible oil drain for maintenance

Part Number: 551385

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**ACCESSORIES**


MANUAL DISC BRAKES



MECHANICAL DISTANCE COUNTER

SPECIFICATIONS

High strength aluminum alloy frame  
 Standard 136 kg (300 lb.) capacity  
 Urethane lined sheaves  
 Two manual disc brakes  
 Mechanical distance counter  
 Safety cable

MODELS

6105-1 for single conductor  
 6105-2 for two conductor  
 6105-4 for four conductor

WEIGHT

45 kg  
 55 kg  
 64 kg

OPERATION

A tow rope attached to the frame of the car is tied to a roller mounted on the conductor ahead of the car. A pulling rope attached to the roller extends to the ground. The car may be moved between the spans by either manually pulling the rope or by attaching the rope to a mechanical pulling device on the ground.

The roller travels along the conductor ahead of the car and minimizes the downward pull of the tow rope on the line car.

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**ACCESSORIES**



MODEL 6121



MODEL 6124

STANDARD EQUIPMENT

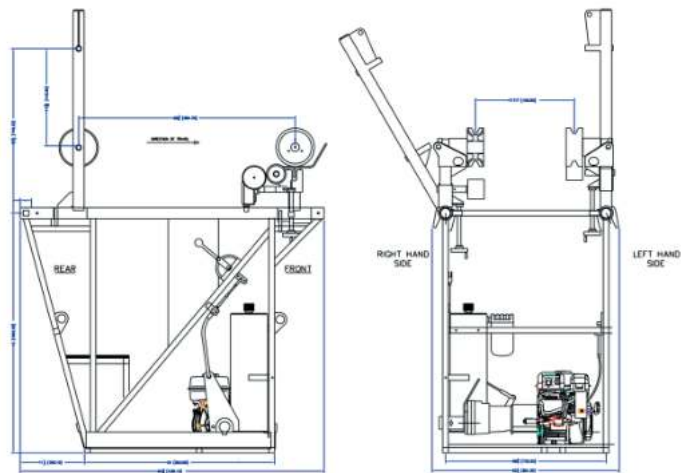
- High strength aluminum alloy frame
- Standard 136kg (300lb) load capacity
- 4.6 hp gasoline engine
- Gasoline power pack for hydraulics
- Safety chains and slings included
- Aluminum drive wheels with polyurethane linings
- Each drive wheel has its own motor
- Pinch rollers for traction and braking
- Control valve for forward and reverse

OPTIONS

- Mechanical distance counter
- 10,000 psi circuit for hydraulic tools

MODELS

- 6121 for single conductor
- 6122 for two conductors
- 6124 for four conductor
- 6126 for six conductor



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## AERIAL LINE CAR



The model 6124 motorized aerial line car is designed to transport line workers on a four bundle high-voltage circuit for the installation of conductor spacers/dampers.

The line car is designed and constructed in accordance with OSHA Act and Regulations. The cars are designed to pass the insulator strings without the operator having to exit the car based on the insulator skirt design.

The car is powered with a gasoline engine which operates a hydraulic drive motor in both the forward and reverse direction.

Operator has easy access to the control panel inside the car.

### PERFORMANCE FEATURES

Travel speed 9.6 km/hr (6.0 mph)

### SPECIFICATIONS

Conductor spacing specify when ordering  
 Metric distance counter  
 Bonding roller  
 Safety cables  
 Includes ramp assembly

Frame constructed of welded aluminum tubing to meet OSHA Act and Regulations.

### ENGINE SPECIFICATIONS

Air cooled 4-stroke gasoline engine 13.4 kW (18 hp)

### MECHANICAL DRIVE SPECIFICATIONS

Closed loop hydraulic system with variable displacement axial piston pump drives four (4) fixed displacement drive wheel motors. Two motors are equipped with brakes.

Reference Part Number: F000982

### SAFETY FEATURES

The control panel is equipped with a hydraulic brake lever to brake two (2) of the drive motors while the operator is working on installing spacers.

### PHYSICAL DIMENSIONS

Weight (Approximate) 385 kg (850 lbs)  
 Length (Approximate) 1816 mm (71.5")  
 Width (Approximate) 915 mm (36")  
 Height (Approximate) 2413 mm (95")

### CONTROL PANEL



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16-6110-310S

## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**RIGHT OF WAY MAINTENANCE**CAJUN CUTTER HISTORY

The mechanical tree trimmer has a long history of customer satisfaction. Introductory models sold in the 1980's were based around a simple, easy to maintain tree trimming implement mounted on a rugged, off highway carrier. Today the result of the original concept is that of all the units ever built, over ninety percent are still operating with the original owners.

GENERAL OPERATION OVERVIEW

Using two equal length booms that move at variable speeds, the operator can quickly position the 60" cutter head up and down the face of the right-of-way in a swath cutting motion. This operation produces a smooth, even cut that is aesthetically acceptable. The booms are supported and partially positioned by a tilt frame mounting structure that helps keep the machine's center of gravity low and eliminates the need for an expensive to maintain turntable.

The superior production speed of the machine is due to the booms, powerline and face of the right-of-way all being parallel during trimming operations. The cutterhead used three independent 24" high speed saws. The operator can hydraulically revolve the saws through 180 degrees on the end of the boom stopping at any intermittent position. Additionally, the head can swing from left to right through 135 degrees. This multi-position capability allows the operator to trim on the left or right side of the machine as well as flat to make a horizontal cut. If overhanging limbs are encountered the nimble cutting head can be positioned very precisely to quickly make several small cuts and allow the debris to fall through the phases.

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**RIGHT OF WAY MAINTENANCE**OPERATOR SAFETY AND CONTROLS

The heated and air conditioned sound abated cab provides a comfortable, quiet workplace for the operator. The cab meets current SAE requirements for ROPS (Roll Over Protection Standards J 1040C) as well as FOPS (Falling Object Protection Standards J 231).

The cab is equipped with a rear emergency escape passage.

Joy stick type controls allow fingertip movement of the trimming implement while sitting upright in a multi-adjustable seat.

The machine maintains a dielectric package that includes: Fiberglass upper boom and lower boom inserts and non-wire braid hose. Meets ANSI A-92.2 and CSA C225 for under 69 kV.

CUTTING HEIGHT

Model TR-700 has a 70 foot (21.3 meters) reach

APPROXIMATE DIMENSIONS

Height: 10' 6" (3200 mm)

Width: 8' 6" (2591 mm)

Weight: 22,000 lbs (9980 kg)

TRACK

Rubber encapsulated - steel reinforced

Track on the ground - 24" x 159" (610 mm x 4039 mm)

CUTTING HEAD MOVEMENT

Side to side swing: 135 degrees

Rotation: 180 degrees

Blades: 3 x 24" (610 mm)

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**



**SECTION 9**

**UNDERGROUND**

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

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At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

## UNDERGROUND PULLER



### FEATURES

The Timberland model UP70-BD underground puller provides infinite speed control and precise tension and distance monitoring. The 203 mm (8") bullwheels are powered by a hydrostatic drive with a variable displacement axial piston pump and a two speed hydraulic motor. The cable payout is on demand with the bullwheel drive system feeding the pulling rope.

In the high linepull range, the unit has continuous linepull of 3,113 daN (7,000 lbs) and a maximum speed of 30 m/min (100 fpm). In the high speed range, the unit has a maximum continuous linepull of 1,556 daN (3,500 lbs) and a maximum speed of 60 m/min (200 fpm). In either speed range, the linespeed is infinitely variable from 0 to maximum. The speed control provides excellent inching capability throughout all line pull settings.

The storage reel will hold 822 m (2700 ft) of 10 mm (3/8") diameter steel rope. A diamond lead screw automatic levelwind provides for even winding of the pulling rope onto the storage reel. The levelwind is driven from the storage reel and automatically traverses as the reel turns.

A dynamometer gauge is included calibrated in lbs. of linepull with an adjustable overload cut-off that will automatically stop the pull if the preset maximum linepull is reached. The unit is equipped with an emergency stop button and a 6 m (20') pendant cord. In the event the button is depressed, all pulling will stop.

An 203 mm (8") swivelling rear fairlead sheave is provided to guide through 360 degrees and has a locking screw to set it at any angle.

### STANDARD FEATURES

- 3,114 daN (7,000 lb) maximum line pull
- 0-60 m/min (0-200) fpm maximum linespeed
- 203 mm (8") bullwheels with 5 grooves
- Reel capacity of 3000' of 3/8" wire rope
- Rope payout on demand
- Automatic leadscrew levelwind
- Swivelling rear fairlead
- Remote emergency stop button
- Overload cut-off
- Pivoting rear jib with multi-positional roller
- Tool box
- 59 kW (80 hp) diesel engine and 185 cfm air compressor combination



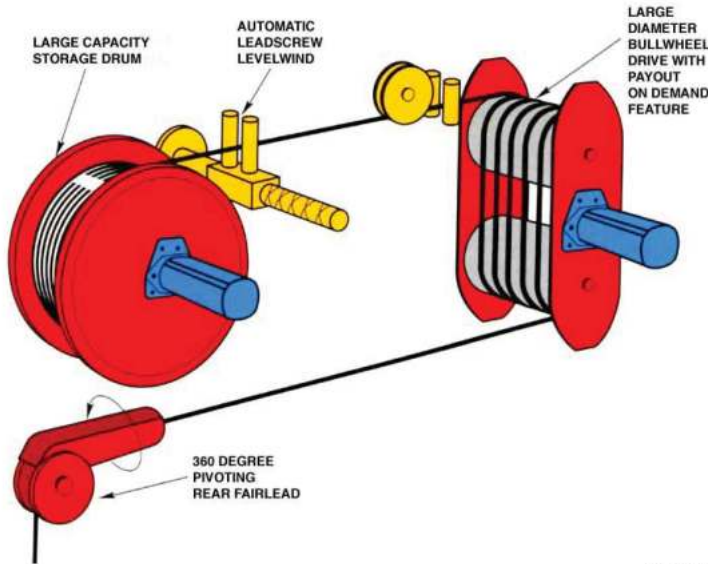
### OPTIONAL EQUIPMENT

- 609 m (2000') or 823 m (2700') of 10 mm (3/8") galvanized steel pulling rope
- Spring driven reel for air hose and automatic retrieval, includes 15 m (50') of hose
- Three head roller assembly with 4", 5" & 6" conduit adapters to prevent pulling the duct out of the ground
- Chart recorder kit

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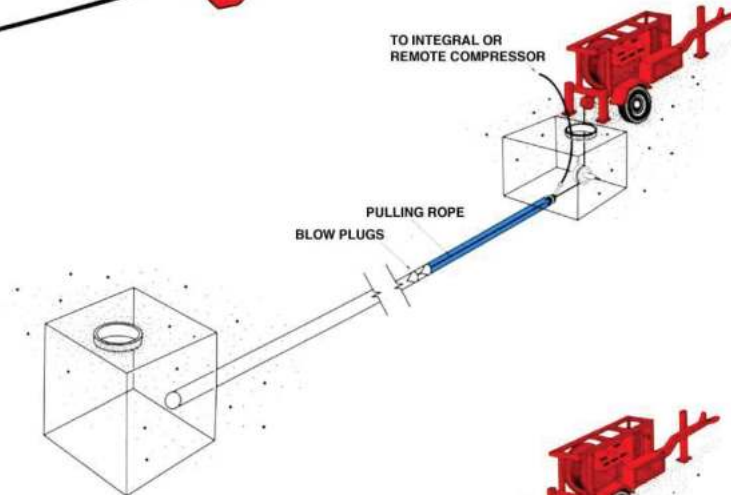
## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**UNDERGROUND PULLER**



The unique hydraulic Bullwheel drive system provides constant pulling force and speed throughout the entire pull.

**STEP 1**  
Payout on demand allows direct blowing of the pulling rope into the duct with either an integral or separate air compressor.



**STEP 2**  
The cable is pulled with precise control and constant monitoring of both distance and pulling force.



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**UP SERIES UNDERGROUND PULLER**



In use with support cable



The jib swings left and right and well as up and down.



The jib is positioned with quick change pins, no tools are required.



Optional 3 roller assembly (stinger) to provide a larger bending radius.

Optional single hold down roller has 4", 5" & 6" pipe adapters available. The opposite force exerted against the duct prevents it from being pulled out of the ground.



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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**UNDERGROUND PULLER**


INFINITE SPEED CONTROL, PRECISE TENSION AND DISTANCE MONITORING LEADS THE MARKET WITH UNMATCHED INNOVATIVE DESIGN FEATURES

GENERAL FEATURES

Large diameter bullwheels provide pulling power and enhanced pulling rope life. Bullwheel grooves are suitable for 9 mm (3/8") or 11 mm (7/16") rope.

Fuel Tank: 45 liters (12 gal) with level gauge  
Hydraulic reservoir: 68 liters (18 gal) with level and temperature gauge

Hydraulic oil cooler for positive heat dissipation.  
Lockable storage box for storing blowing and pulling accessories  
Unit shotblasted, primed and painted with two coats of urethane enamel

PERFORMANCE

Max linepull  
Low speed: 30 m/min (98 fpm) @ 3781 daN (8500 lbs)  
High speed: 61 m/min (200 fpm) @ 1890 daN (4250 lbs)

Engine: 59 kW (80 hp) water cooled diesel with 12V electric start

Hydraulic drive: closed loop hydrostatic  
Drive train brake: spring applied, hydraulic released brake  
Storage reel: 731 m (2400 ft.) of 11 mm (7/16") wire rope

OPERATOR CONTROLS

Rope payout on demand  
Infinitely variable line speed control from 0 to maximum  
Remote emergency stop pendant  
Adjustable automatic overpull protection  
Digital line distance meter  
Engine throttle / choke control  
Automatic levelwind  
Engine shutdown system for low oil pressure and engine or compressor overheating  
Permanently engraved operator's control panel

TRAILER

Axles: single axle with spring suspension  
Trailer Brakes: electric  
Tires: (2) 215/75R17.5  
GAWR: 3,628 kg (8,000 lbs)  
GVWR: 4,300 kg (9,500 lbs)  
Tow hitch: 76 mm (3 in.) with 4 height adjustments  
Jacks: single front, two rear (optional hydraulic)  
Lighting: 4 light highway system

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**UNDERGROUND PULLER**

BULLWHEEL MODULE

Bullwheel diameter: 203 mm (8")  
Storage reel capacity: 731m (2400 ft) of 11 mm (7/16") wire rope  
Rope payout on demand

INTEGRAL COMPRESSOR

INCLUDES:

Spring driven hose reel with quick disconnect  
Blowing accessories  
Integral soap tank

MODEL UP85BDH:

shown with optional hydraulic telescoping boom

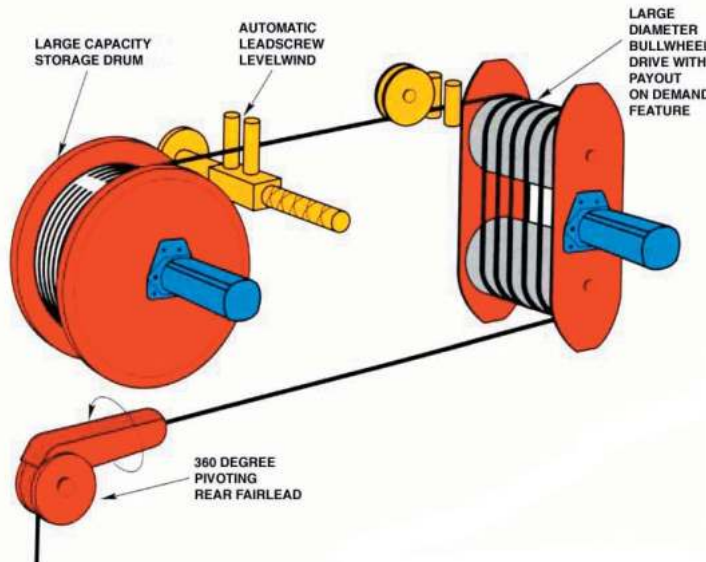


Three sheave head assembly for vault or manhole applications shown attached to fender

Single axle trailer with spring suspension  
Axle capacity: 4,300 kg (9,500 lbs)  
Heavy duty checker plate fenders with mud flaps



Storage reel with 731m (2400 ft) of 11mm (7/16") diameter rotation resistant wire pulling rope. Automatic levelwind included with unit.



Unique hydraulic bullwheel drive system provides constant pulling force and speed throughout the entire pull; includes payout on demand feature allow direct blowing of pulling rope into duct.

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**UNDERGROUND PULLER**



Permanently engraved operator's panel with user friendly controls. Infinitely variable line speed and tension control with automatic overpull protection.



Optional fully hydraulic controlled telescopic boom with vertical lift allows easy maneuvering of boom into manholes with varying approach angles.



Shown with optional accessories:

- Tool box for accessory storage
- Spring driven hose reel
- Soap tank



59 kW (80 hp) water cooled diesel engine with 12V electronic ignition. \* Shown with optional integral 5 cu.m (175 cfm) compressor for blowing pulling rope into the duct.

**OPTIONAL EQUIPMENT:**

- Manual telescoping jib
- Hydraulic telescoping jib
- Integral compressor with soap tank, hose reel and blowing accessories
- Remote control pendant
- Hydraulic jacks

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**UNDERGROUND BULLWHEEL PULLER**



DRIVE SPECIFICATIONS

Engine 22 kW (30 hp)  
 Pump Variable flow hydraulic pump  
 Bullwheel drive hydraulic  
 Reel drive hydraulic

FEATURES

Single axle trailer mounting  
 Rope exit swivel type fairlead  
 1 front and 2 rear stabilizers  
 Mechanical distance counter  
 Analog linepull gauge

MODEL	UP-120	UP-150	UP-200
<b>Unit Specifications</b>			
Maximum Linepull	5338 daN (12,000 lbs)	6672 daN (15,000 lbs)	8896 daN (20,000 lbs)
Speed Range	0-36 m/min (1-120 fpm)	0-30 m/min (0-100 fpm)	0-21 m/min (0-70 fpm)
<b>Bullwheel &amp; Storage Specifications</b>			
Number of grooves	5	5	5
Max wire rope diameter	14 mm (9/16")	16 mm (5/8")	16 mm (5/8")
Pitch diameter of bullwheels	305 mm (12")	305 mm (12")	305 mm (12")
Storage reel capacity (wire rope)	914m of 25mm (3000' of 1/2")	701 m of 16 mm (2300' of 5/8")	701 m of 16 mm (2300' of 5/8")

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**UNDERGROUND PULLER**

**SPECIFICATIONS**

Maximum linepull	18,140 daN (40,400lbs) @ 4.25m/min (14fpm)
Maximum linespeed	8.5 m/min (28 fpm)
Maximum rope diameter	28.5 mm (1.125")
Bullwheel nominal diameter	457 mm (18")
Power (diesel)	27.5 kW (37 hp)
Weight (approx with rope)	4850 kg (10,700 lbs)
Length (approx)	4078 mm (160")
Width (approx)	2084 mm (82")
Height (approx)	1550 mm (61")

**STANDARD EQUIPMENT**

- Fully hydraulic drive system
- Infinitely variable speed and linepull control
- Hydraulic oil cooler
- Water cooled diesel engine
- Linepull gauge
- Remote corded control
- Sheet metal enclosure with hinged panels
- Mechanical drop leg stabilizer
- Tandem axle trailer with lights, fenders, electric brakes
- Integral reel with hydraulic drive and capacity for 610m of 22mm wire rope
- Automatic diamond leadscrew levelwind
- Rear fairlead deflector sheave

**OPTIONS**

- Wire rope: 22mm x 610m rotation resistant type
- Downhole jib
- Underground accessories

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**TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010**

**UNDERGROUND DRUM PULLER**



STANDARD FEATURES

Linepull 6672 daN (15,000 lbs)  
 Pulling rope 762 m (2500 ft.) of 25mm (1")  
 Average maximum line speed 9 m/min 30 ft/min  
 infinitely adjustable linespeed

Diesel engine 37 kW (50 hp)

Freewheel disconnect pin with 406 mm (16") bronze overspin brake for paying out rope  
 Spring applied, hydraulic pressure released brake  
 Heavy duty pulling drum with 406mm (16" core), 1117mm (44") outside diameter and 660mm (26") between the flanges  
 Hydraulic post levewind with top and bottom fairleads controlled from operator's console  
 Hydraulic oil cooler to dissipate heat

CONTROL PANEL

Direction and speed control  
 Hydraulic brake control  
 Levelwind direction control  
 Levelwind speed control  
 Engine controls

OPTIONS

Skid or trailer mounted

DIMENSIONS

(approximate)

Length 3429mm (135")  
 Width 1651mm (65")  
 Height 1524 (60")  
 Weight 3632 kg (8000 lbs)

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**SELF-LOADING REEL CARRIERS**


Model	RCSL16 108 x 64	RCSL 20 108 x 64
Reel Capacity		
Max reel diameter	2742 mm (108")	2742 mm (108")
Min reel diameter (self-loading)	1524 mm (60")	1524 mm (60")
Max reel width	1624 mm (64")	1624 mm (64")
Max reel weight	7528 kg (16,000 lbs)	9072 kg (20,000 lbs)
Trailer Specifications		
Axle capacity	9072 kg (20,000 lbs)	10,886 kg (24,000 lbs)
Trailer brakes	Air-hydraulic	Air-hydraulic
Axle & suspension type	Tandem walking beam	
Jacks	Manual drop leg (1 front, 2 rear)	
Tow hitch	4 position with pin connections & safety chains	

**GENERAL FEATURES**

Hydraulic self-loading with hand pumps (or optional connections for external hydraulic supply)  
 4 position reel rack with locking pins to mechanically lock and hold reel in loaded position  
 Reel shaft with nylatron bushings

**OPTIONS**

Reel drive: pneumatic tire rim drive to wind up or payout cable under power, powered by external hydraulic source (tool circuit)  
 Hydraulic power unit: to provide power for optional reel drive and / or hydraulic self-loading feature  
 Reel shaft adapter bushings: to accommodate reels with larger diameter arbor holes  
 Hydraulic jacks: front and rear, in lieu of mechanical drop leg jacks  
 Wheel chocks  
 Tool box

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**UNDERGROUND CABLE PULLER**

**SPECIFICATIONS**

Max linepull - bare drum	16,780 daN (37,000 lbs)
Max speed - mid drum	61 m/min (200 fpm)
Max reel diameter	2750 mm (108")
Max reel width	1575 mm (62")
Max reel weight	9,072 kg (20,000 lbs.)
Reel shaft diameter	89 mm (3 1/2")
Minimum reel diameter	1000 mm (40")
Engine (Diesel)	22 kW (30 hp)
Axles, tandem walking beam	15,420 kg (34,000 lbs)
Weight (approx)	4650 kg (10,200 lbs)
Length (approx)	5334 mm (210")
Width (approx)	2591 mm (102")
Height (approx)	2086 mm (83")

**STANDARD EQUIPMENT**

Infinitely variable speed and linepull control  
 Powerful twin drive rollers  
 Variable displacement, closed loop hydraulic system for precise control  
 Spring apply / hydraulic released drive brakes  
 Remote pendant controls with 7.62m (25 ft) cable  
 Air/hydraulic trailer brakes  
 Rear wheel drive to each wheel independently for steering and superior traction  
 Rubber tire, swivelling, retractable nosewheel  
 Self-loading by hydraulic cylinders

**OPTIONS**

Steel pulling reel: 2743 mm x 1422 mm x 915 mm (108" x 56" x 36")  
 Wheel chocks  
 Independent hydraulic capstan  
 Hydraulic tool circuit  
 Hydraulic rear stabilizers  
 Pilot line winch: 907 daN (2000 lbs) with 457 m of 6 mm cable (1500' x 1/4")  
 Gas powered 110/120 V electric generator  
 Power front nosewheel



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**UNDERGROUND REEL TRAILER**

The TR-120-3 Underground Cable Reel Trailer is a 3 reel conductor payout trailer. With 9,072 kg (20,000 lbs) of payload capacity, this trailer is ideal for users with a wide variety of underground conductor installation jobs. Load up with conductor and work in a number of locations. It's fast and convenient and its manoeuvrable.

**STANDARD FEATURES:**

3 independently driven reels for loading conductor. Reels can be driven in either direction  
9072 kg (20,000 lbs) payload capacity  
975 m (3,200 ft) of 1000 kc mil aluminum core conductor  
Rear mounted capstan provides 907 kg (4000 lbs) of line pull to pull winch rope  
Drag brake on reels prevents overspin of reel during payout  
Rear wheel drive for the absolute best in on-site manoeuvrability  
Air brake system with emergency air / parking brake system  
Smooth control hydraulic system powered by 10 kW (14 hp) diesel engine  
Adjustable roller fairleads to guide conductor into manhole

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## UNDERGROUND REEL TRAILER

### SPECIFICATIONS

Max continuous torque	400 daNm (36,000 in-lbs)
Max reel speed	143 m/min (470 fpm) at full reel speed (15 rpm)
Linepull (full reel)	272 kg (600 lbs)
Linepull (bare reel)	816 kg (1800 lbs)
Max payload capacity	9072 kg (20,000 lbs)
Capstan linepull	1814 kg (4000 lbs)
Engine (diesel)	10 kW (14 hp)

### UNIT DIMENSIONS

Length (approx)	5260 mm (207")
Width (approx)	2440 mm (96")
Height (approx)	3980 mm (156.5")
Weight (approx)	8891 kg (19,600 lbs)

### REEL SPECIFICATIONS

Flange diameter	3050 mm (120")
Reel width (each section)	410 mm (16")
Core diameter	990 mm (39")

### CONTROL CONSOLES

Front control console	Engine keyswitch, throttle and choke Trailer manoeuvring controls Front jack / nose controls
Rear control console	Reel drive direction and brake controls Capstan direction controls

### TRAILER SPECIFICATIONS

Tandem axles	18,144 kg (40,000 lbs)
Wheels	22.5 x 9.00
Tires	315/80R22.5
Suspension	spring type
Brakes	Air

### OPTIONS

Wheel chocks  
 Hydraulic tool circuit  
 Beacon lighting and backup alarm  
 110V/120V electric generator  
 Hydraulically manoeuvred fairlead arm  
 Remote engine control mounted at rear of trailer

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## TENSION STRINGING EQUIPMENT & ACCESSORIES CATALOGUE 2010

**SELF-LOADING REEL CARRIER**

GENERAL DESCRIPTION

The CT-14 cable trailer is designed to carry large reels for the installation and removal of underground cable. The self-loading and auto-drive feature allows ease of use and handling by a single operator.

STANDARD FEATURES

Infinitely variable speed control  
Automatic spring applied / hydraulic released reel brake  
Powered, steerable nosewheel for self-propelling the unit  
Hydraulic jacks front and rear  
Self-loading reel arms with dual drives  
Variable displacement, closed loop hydraulic system for inching control  
11,340 kg (25,000 lbs) single axle trailer with dual wheels

PERFORMANCE FEATURES

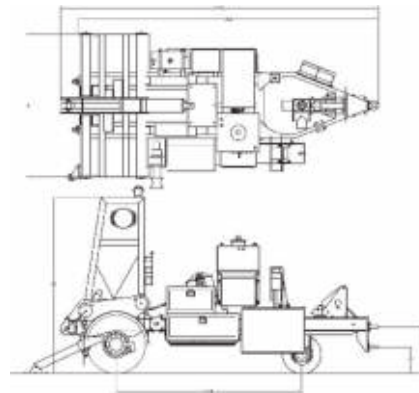
Maximum reel torque	1695 daNm (150,000 in.lbs)
Maximum reel speed	12 rpm
Maximum reel diameter	2742 mm (108")
Minimum reel width	965 mm (38")
Maximum reel width	1726 mm (68")
Maximum reel weight	6,350 kg (14,000 lbs)
Engine Power oil cooled	52 kW (70 hp)

PHYSICAL DIMENSIONS

Weight (Approximate) w/o reel	5,442 kg (12,000 lbs)
Length (Approximate)	5080 mm (200")
Width (Approximate)	2438 mm (96")
Height (Approximate)	4038 mm (159")

OPTIONS

Variable maximum line pull control  
900 daN (2,000 lb) pilot rope winch  
Radio remote control  
3,000 W generator set  
52 kW (70 hp) diesel engine with Quiet Pak feature  
2,825 daNm (250,000 in.lbs) reel torque  
Cable levelwind system  
Auxiliary hydraulic tool circuit  
Truck mount version  
Wheel chocks



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**REEL WINDERS**

**STANDARD EQUIPMENT**

Hydraulic self-loading and unloading of reels  
 High torque drive arm  
 Direct drive for positive rotation of reel  
 Smooth, infinitely variable control of pulling speed and linepull  
 PTO driven pump  
 Free wheeling clutch on reel drive  
 Spring applied, hydraulic released brake  
 Curb side drive arm location  
 Remote control for tension, reel direction, free wheel and brake

**OPTIONS**

Two reel unit with levelwind  
 Capacity for larger reel sizes and weights  
 Winch line with infinitely variable speed and capacity up to 9072 kg (20,000 lbs)  
 Wire rope for winch line  
 Capstan drive  
 Beacon light  
 Hydraulic tool circuit  
 Wheel chocks  
 Heavy duty cabinets on truck body

**SPECIFICATIONS**

Drive torque	9038 daN-m (0-80000 in-lbs)
Drive speed - infinitely variable	0-20 rpm
Maximum reel diameter	2133 mm (84")
Minimum Reel diameter	914 mm (36")
Maximum reel width	1727 mm (68")
Minimum reel width	508 mm (20")
Maximum reel weight	5448 kg (12,000 lbs)
Stub shafts	63.5mm (2 1/2")

**DIMENSIONS**

Length (approx)	7061 mm (278")
Width (approx)	2540 mm (100")
Height (approx) not loaded	3124 mm (123")

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**REEL WINDER**



**SPECIFICATIONS**

Maximum reel torque	2598 daN-m (230,000 in-lbs)
Maximum reel speed	12 rpm
Maximum reel diameter	2742 mm (108")
Minimum reel diameter	1016 mm (40")
Maximum reel width	1726 mm (68")
Minimum reel width	965 mm (38")
Maximum reel weight	6350 (14,000 lbs)
Engine power	PTO driven

**STANDARD FEATURES**

- Infinitely variable speed control
- Infinitely variable maximum line pull control
- Spring applied / hydraulic released reel brake
- Self-loading reel arms with dual drives
- Reel can be stored forward of rear axle for improved weight distribution
- Variable displacement, closed loop hydraulic system for inching control of the reel drive
- Secondary open loop hydraulic system
- Free wheeling feature

**OPTIONS**

- Remote controls
  - Radio Control
  - Umbilical control
- Reel hub adapters with storage bracket

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**MINING REEL CARRIER**

**REAR MOUNT, SELF-LOADING CABLE REEL CARRIER  
FOR USE IN MINING AND INDUSTRIAL APPLICATIONS**

The Cable Reel Winder is capable of self-loading, winding, paying out and transporting cable reels. The unit is equipped with a close looped hydraulic system.

The reel winder drive system provides for infinitely variable speed controls and allows the cable to be pulled in and tensioned out under controlled tension through the hydraulic system.

**STANDARD FEATURES**

Fully hydraulic drive system with infinite speed and tension control  
 Radio remote control console  
 66hp water-cooled diesel engine  
 19 gallon fuel tank with level gauge  
 Cable guidance fairleads  
 Rear cable arm (snorkel) will trail the main unit two positions

**PERFORMANCE**

Maximum Reel Torque            88,000 lbs.in. (9942 N.m)  
 Maximum Reel Speed:        16 rpm

**REEL CAPACITY**

Maximum reel diameter:       108" (2743 mm)  
 Minimum reel diameter:      96" (2438 mm)  
 Reel width:                        71-84" (1804-2133 mm)  
 Arbor shaft diameter:         5" (127 mm)  
 Maximum reel weight:        21,000 lbs (9525 kg)

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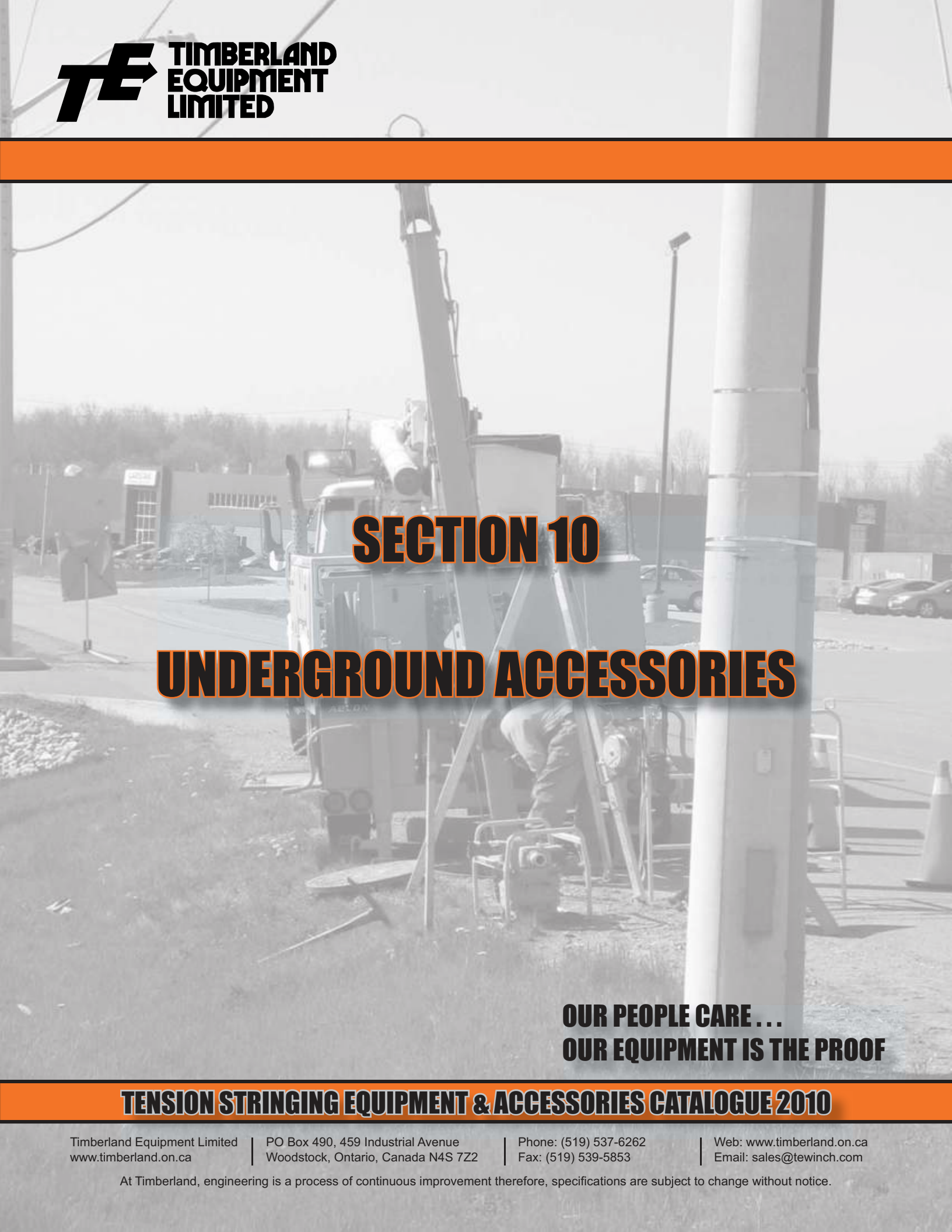
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**MINING REEL CARRIER**



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**SECTION 10**

**UNDERGROUND ACCESSORIES**

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At Timberland, engineering is a process of continuous improvement therefore, specifications are subject to change without notice.

**UNDERGROUND ACCESSORIES**

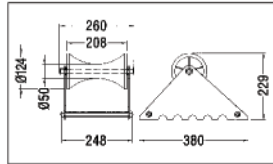


Used to blow rope through the ducts with a compressor. The blowing adapter has 12 mm (1/2") two prong style air coupling and is supplied with one set of rope adapters.

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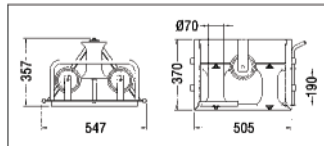
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**UNDERGROUND ACCESSORIES**



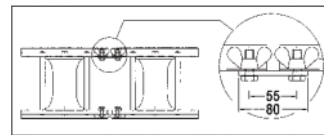
STRAIGHT ROLLER

Nylon roller and shaft with galvanized steel frame.  
Weight: 3 kg

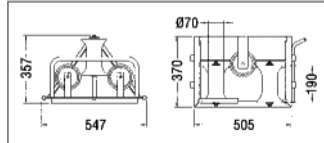


STRAIGHT ROLLER - ALUMINUM CASTING

Aluminium casting roller on ball bearings with galvanized steel frame available to place it on already laid cables.  
Weight: 5 kg

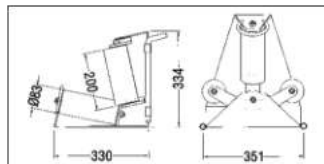


Connection device suitable to coupling it and obtain a bend composition



ANGLE ROLLERS

Aluminium casting rollers on ball bearings with galvanized steel frame each complete with hinge for bend configuration.  
Weight: 15 kg



ANGLE ROLLERS

Galvanized steel rollers on ball bearings (vertical by oscillating system) with galvanized steel frame each complete of hinge for bend composition.

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**CONDUCTOR HANDLING PRODUCTS**



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