

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

Timberland Equipment Limited
www.timberland.on.ca

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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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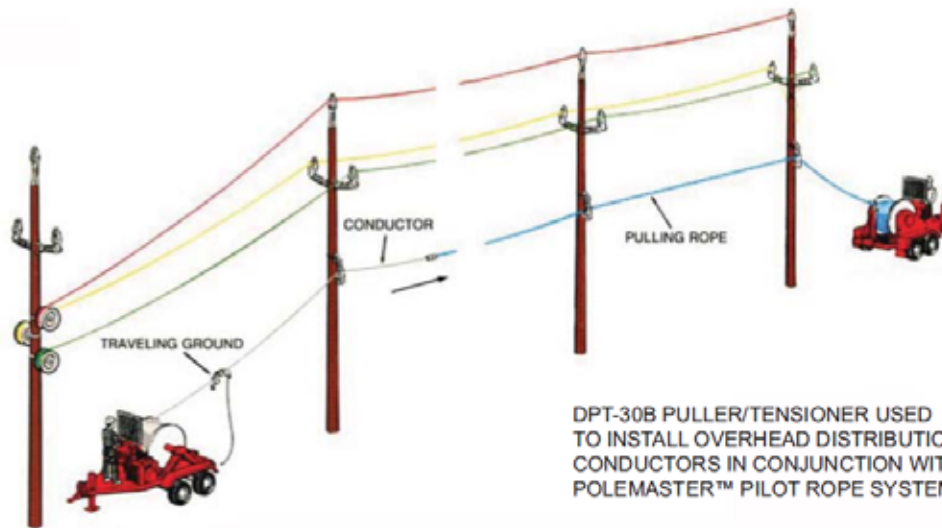
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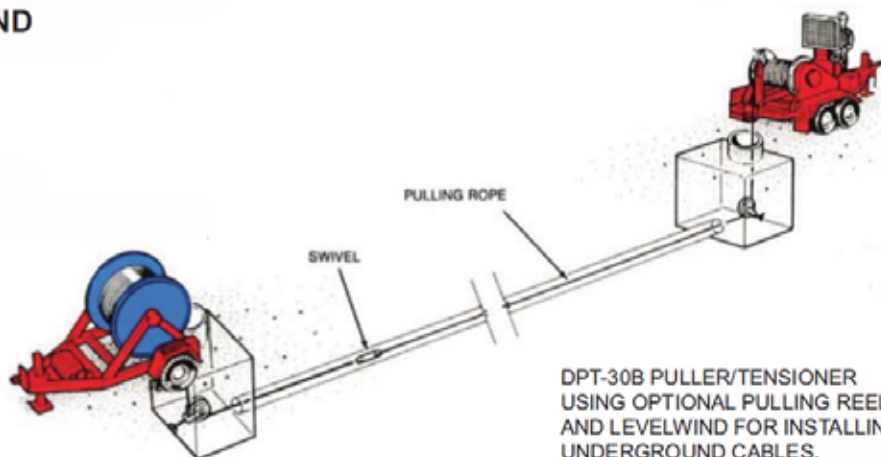
DRUM PULLER-TENSIONER

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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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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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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PULLER-TENSIONER



The SPT40-1H/SL is a trailer mounted, self-loading puller-tensioner suitable for new construction and reconducting 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 reconducting 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
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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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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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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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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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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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