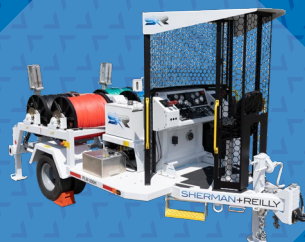


PRODUCT CATALOG



PLW-400H



PLW-200H



PLW-200E+



PT-3000H



BWT-1424H



ELECTRIC



TRANSFORM YOUR PULL WITH THE ALL NEW ELECTRIC E+ SERIES

The Sherman+Reilly electric E+ Series transforms your overhead and underground pulls with quiet, precise operations backed by an On-board Rapid Recharge System to automatically charge your equipment. Whether you need an underground cable or overhead stringing line pulled, the E+ Series will exceed your expectations.

The electric E+ Series provides protection and reliability while transforming your pulls. Enhance your jobsite experience with more control and less noise from Sherman+Reilly electric pullers.



SHERMAN+REILLY



PLW-200 E+ 2,000 lbs. Electric Four Drum Pilot Line Winder

The PLW-200 E+ 2,000 lbs. four drum electric puller features the patented Safe-Zone[®] enclosure with patented Ocu-View[™] shield, improving line-of-sight as well as overhead and perimeter protection. All operations are controlled safely from the cab's dashboard which includes a 10" touchscreen with built-in instructional Know + Go videos.



Duct Dawg E+ 7,500 lbs. Electric Underground Puller

The Duct Dawg E+ electric underground puller has a compact footprint and a maximum pulling capacity of 7,500 lbs. Equipped with a wireless remote control for safer operation away from its fully articulating, self-supported 3-axis boom. Its digital recorder continuously measures the length of cable deployed and line tension. The control panel includes a 10" touchscreen with built-in instructional Know + Go videos.



PT-3000 E+ 3,000 lb. Single Drum Electric Puller Tensioner*

The PT-3000 E+ electric puller tensioner is a single drum unit capable of pulling 3,100 lb. and tensioning 2,000 lb. Operations are controlled from the safety of the Safe-Zone[®] enclosure with patented Ocu-View[™] shield. This puller tensioner can perform low force tension under 100 lb. or manual pull off tension under 50 lb. Included on the dashboard is a 10" touchscreen with instructional Know + Go videos.

*Available 2025

INVENTING WHAT'S NEXT.

SHERMAN-REILLY.COM



SHERMAN+REILLY®

ABOUT SHERMAN REILLY

Established in 1927, Sherman+Reilly continues providing the electric utility industry with the best, safest, most-reliable line-stringing equipment in North America. Operator safety is the cornerstone to our approach to business - engineering and manufacturing equipment and tools to increase efficiency and safety in the field.

Sherman+Reilly continues to innovate and invent what's next for the electric utility industry with the addition of the E+ Series of electric overhead and underground pullers. The precise control response of electrically powered torque means no hydraulic response lag and no revving diesel motor. These electrically driven units provide finer pull-force control, quieter operations, better jobsite communications, a safer jobsite, and linemen attest to a better user experience with our electric units. We believe there is a strong future of pulling wire using electric powered pullers, and more specifically, the electric E+ Series from Sherman+Reilly.

Our Heritage Series line of equipment is for great pulls and no bull: for pulling that is safe, reliable, and easy to use at a budget friendly price. The Heritage Series line of pullers and tensioners provides everything you need, and nothing you don't: straightforward controls, Safe-Zone® operator enclosure with patented Ocu-View™ shield, and the reliability and support you always get from Sherman+Reilly.

As for stringing blocks, we have time-tested experience. Allied forces at Normandy used Sherman+Reilly blocks to help offload supplies from the LSTs. When something provides a critical function, it is important to know that it is reliable. With over 85 years of experience in manufacturing sheaves and blocks, you know Sherman+Reilly blocks can be relied upon. From snatch blocks to bundle blocks – we have been building line stringing blocks longer than any active lineman has been alive. The Sherman+Reilly “Forever Warranty” is a testament to our confidence in our product.

Our efforts go beyond new products. Sherman+Reilly continues modernizing its manufacturing processes, engineering, and management systems. Our employee commitment is characterized by our touchstone that says it all: “Dedicated to getting every lineman home, every night, no exceptions.” And we have a full-time Service Department that is unmatched in the industry. Our service technicians provide the expertise, assistance, and parts you need when a piece of equipment goes down and you need it back up and running.

Throughout an almost 100-year history, Sherman+Reilly's track record for innovation includes more than fifty patents for designing and engineering products that meet the unique safety needs of the electric utility industry. Sherman+Reilly consistently demonstrates the ability to deliver world class equipment that is “Designed for Safety and Built to Last”. We combine our history of quality and innovation with our expertise to make linemen's work safer and more efficient with our products.

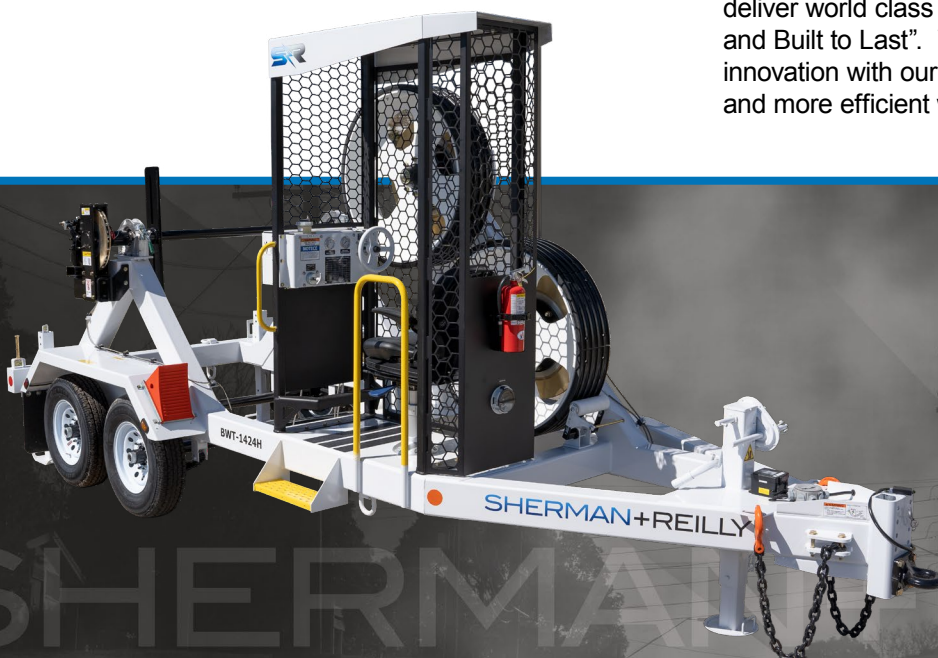


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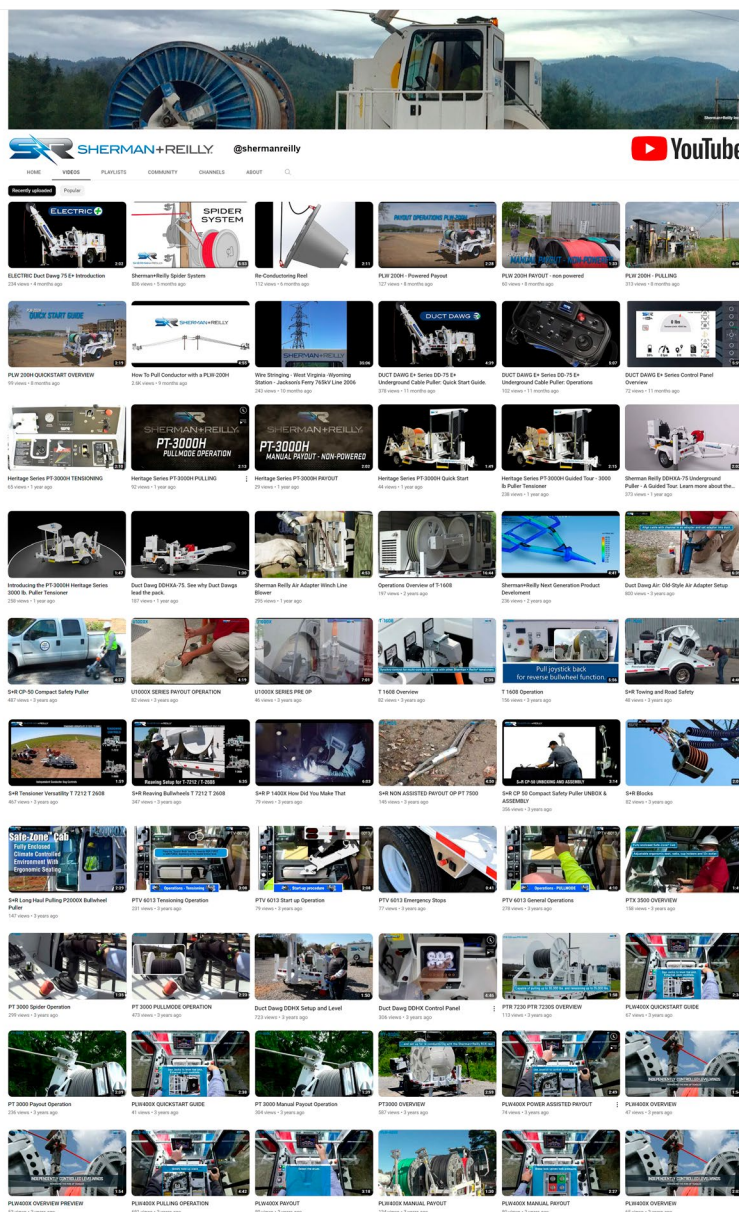
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Sherman+Reilly provides dozens of training and feature overview videos on-line for end users to better understand how to operate S+R equipment. These videos can be used to help get a crew up to speed or as a refresher.

- Overview
- Pre-Operations
- Setup
- Pulling
- Payout
- Accessories



@ShermanReilly



CC



CUSTOMER SERVICE AND TRAINING

S+R EXPERIENCE

- Training developed by S+R for S+R equipment.
- Benefit from in-depth “hands-on” troubleshooting training.
- Easy, convenient, and cost effective.
- Increase the performance of your equipment, minimize costly machine downtime, increase your return on investment, improve safety, and enhance operator performance.
- S+R has trained hundreds of mechanics and thousands of linemen with our In-service and Training programs.

IN-SERVICE OPERATIONS TRAINING

- Every unit comes with training to bring the unit into service.
- A S+R Equipment Specialist will spend time with your crew to familiarize them with the equipment.

CLASSROOM SERVICE TRAINING

- Machine Operation.
- Electrical and Hydraulic Schematics.
- Troubleshooting on a machine.
- Preventive Maintenance.
- Best Management Practices.
- Machine Accessories.
- At your facility or at Sherman+Reilly.

KNOWLEDGE BASE

Increase the knowledge base of your operators and mechanics.

DECREASED DOWNTIME

Have less downtime due to a better understanding of the unit, operational functions, components, and system.

PREVENTIVE MAINTENANCE KNOW-HOW

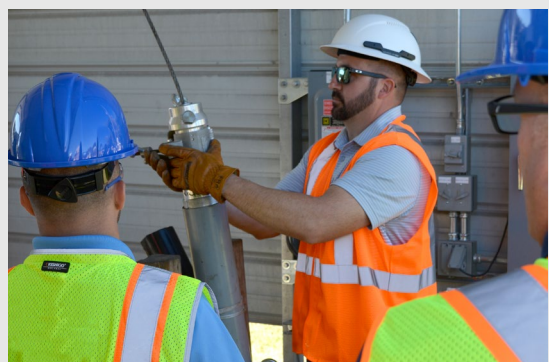
Learn PM and “best practices” from factory service technicians.

INCREASE UNIT LIFE-CYCLE

Have a longer service-life from a well-maintained unit.

DECREASE IN SERVICE CALLS AND EXPENSE

Shipping to the factory for non-warranty service is lost productivity and added expense.





WHAT IS FEA AND WHY IS IT IMPORTANT?

FEA stands for Finite Element Analysis. At Sherman+Reilly, FEA is a computerized modeling process the engineering department uses to check the structural integrity of new equipment designs. The process involves taking the 3D computer model of the new design and conducting analysis on various structural frame members within the model. This is done by breaking the model geometry into smaller sub-sections in what is called a Finite Element model or “FE” model where the actual analysis calculations will take place.

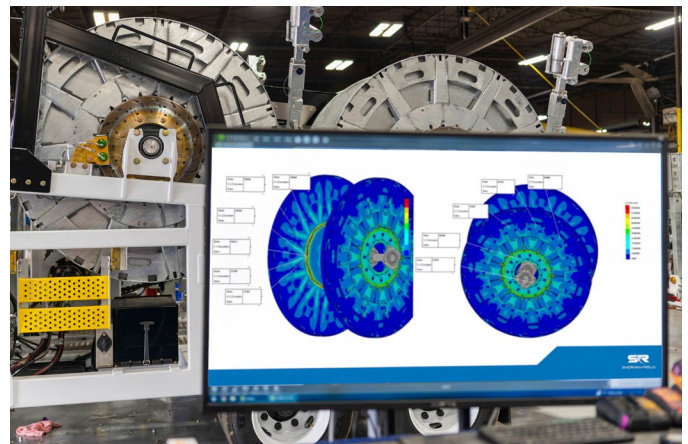
For example, in a static stress analysis, FEA uses material properties to calculate stiffness values for these structures and volumes based on material stiffness. FEA determines material displacements given the boundary conditions applied by the analyst. Secondary calculations are then completed to determine stress and strain in the model. This is known as FEM or Finite Element Method. It is important to understand that this is a general method which can be applied to more than just structural analysis. The Sherman+Reilly engineering team can use FE models to analyze static and dynamic structural integrity, heat transfer, and fatigue life for example.

FEA allows Sherman+Reilly engineers to analyze models accurately and efficiently for stress, strain, and displacement. FEA is a powerful tool and while the methods used in FEA can be replicated with hand calculations, Sherman+Reilly utilizes modern computer processes to quickly arrive at calculations that would otherwise take weeks or months to complete.

The biggest advantage of FEA is the ability to solve complex problems. Most problems the Sherman+Reilly engineering team faces are those created by complex load combinations making hand calculations not only cumbersome, but often producing unrealistic results. Companies not using FEA may employ “by hand” methods which utilize large assumptions. This makes these calculations easier to solve but, due to the assumptions, can lead to extremely inaccurate results, especially when complex boundary conditions exist. With the Finite Element analysis of discrete sub-sections, Sherman+Reilly team members can analyze the behavior of very small portions of the model, using a new set of assumptions, and sum these behaviors into a realistic representation of real-world applications.

WHY DOES SHERMAN+REILLY DO FEA?

In modern engineering and science, it is understood that hand calculations and presumptions regarding precedent often introduce unnecessary error and uncertainty. Processes can be used to determine the level of reliance on FEA based on the nature of the part(s) involved and the confidence of the design engineer. Sherman+Reilly utilizes FEA as a tool to ensure our designers are creating safe equipment which meets or exceeds customers’ expectations. Our touchstone “designed for safety, built to last” is a part of every step of the process.



DO CHANGES AND REVISIONS COME FROM THE FEA PROCESS?

FEA is an analysis tool. Part of the FEA process involves an analysis of FEA results and the potential impacts should accurate and realistic representations of potential outcomes occur. Potential failure points are identified with FEA and it can be determined if the cause was a poor design or a product of the unintended use-case. If a failure analysis outcome shows the former cause to be true then a design revision would likely stem from the FEA; however, if the failure was caused by misuse of Sherman+Reilly equipment a revision or change may not be necessary. Good judgement of the engineering team determines changes and revisions to our equipment.

4 WHAT IS THE PURPOSE OF PROTOTYPING A NEW UNIT?

Prototyping is extremely important for any new design. It is a measuring stick for the design engineer and product management team. Prototypes help determine if it is feasible to adhere to the project requirements and to limits put on a project before a full investment is made.



5 DOES OUR FEA PROCESS HAVE A LONG-TERM, MEANINGFUL IMPACT ON THE DURABILITY OF OUR UNITS?

FEA is validated via mechanical testing methods on our test field as well as in real-world use, and gives us meaningful insight into the strength of a design and appropriate knowledge of materials. It also allows us to better understand the durability of our products throughout their lifetime. As with any tool, the outcome of any FEA is a product of assumption as well as experience and good engineering judgment and diligence is always required – regardless of the tools used. The FE Analysis of our equipment is stored long-term on our servers should a future failure require a review of past FEA to determine the root cause.



Sherman+Reilly has been in business for going on 100 years, and that's due to a combination of great ideas, great engineering, and great production. We've been building line-stringing equipment for over 40 years. Finite Element Analysis is a tool that helps to make our products safer and more durable.

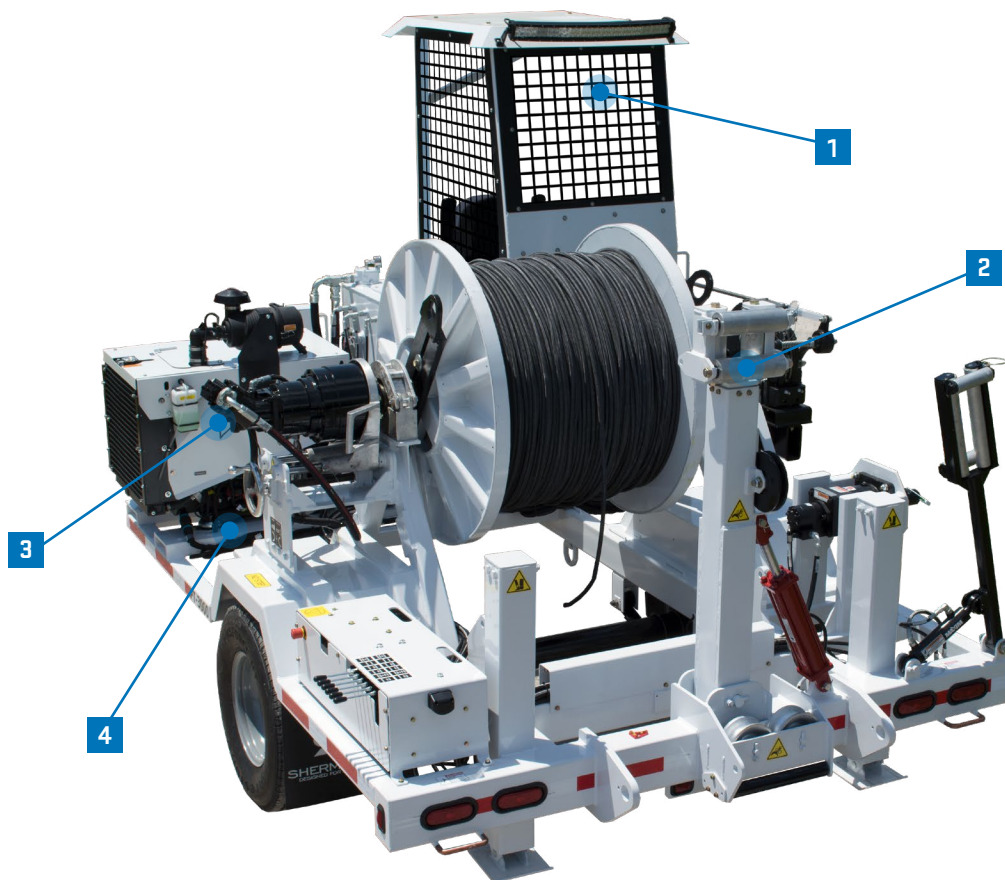
We're serious when we say: **DESIGNED FOR SAFETY. BUILT TO LAST.**
And that we are dedicated to bringing every lineman home, every night.
NO EXCEPTIONS.



SHERMAN+REILLY®

PT-3000 PULLER TENSIONER

3,000 LB. SINGLE DRUM PULLER TENSIONER



- 1 Wrap-around cab enclosure with LED light bar.
- 2 Dual overhead and underground hydraulic levelwind.
- 3 Direct drive hydrostatic motor.
- 4 Mechanical spline engagement system.

FEATURES

- Puller, tensioner, and reconductor in single unit.
- Provides unmatched versatility as a puller or tensioner for overhead or underground applications.
- Capable of pulling 3,000 lb. and tensioning 2,000 lb.
- Compact footprint with a single axle, dual tire configuration.
- A broad suite of options allows customers to configure their unit to their specific needs.
- Equipped with CANbus technology and real-time self-diagnostics.

PT-3000 PULLER TENSIONER

3,000 LB. SINGLE DRUM PULLER TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity	3,000 lb. (Rated at top of 46 in. drum) Max: 3,300 lb. (Rated maximum)
Tensioning Capacity	2,000 lb.
Maximum Line Speed	Pulling: 4 mph
Maximum Conductor Reel Size	66 in. diameter/40 in. width
Maximum Conductor Reel Weight	Dynamic - Over the Road - w/PMTA 3,200 lb., w/o PMTA 4,000 lb. Static - Jacks Extended - 6,000 lb.
Drum Dimensions	Core Diameter: 18 in. Total Outside Width: 40 in. Flange Diameter: 46 in.
Drum Capacity	11 mm. dia. Unitrex™ 17,000 ft. 5/8 in. dia. Uniline™ 8,450 ft. Standard rope length is 6,000 ft. of 5/8 in. Uniline
Drive System	Direct Drive: single hydraulic motor, drum and drive bar/dual pin
Drive System Engine	Turbocharged, Tier-4 Final, diesel, 49 Hp, water-cooled Kubota®
Fuel Capacity	13 Gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 Gallon
Hydraulic Fluid Filtration	10 micron, both supply and return filters
Levelwind	Hydraulically driven, manually controlled
Operator's Safety Enclosure	Open cab enclosure
Frame Construction	Steel tubing, Steel plate, continuous weld
Length (Overall, Nom.)	17 ft.
Width (Overall, Nom.)	8 ft. 5 in.
Height (Overall, Nom.)	9 ft. 6 in.
Weight*	8,700 lb.
GVWR	11,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	Dual 235/85R 16 LRE; 8-6.5
Brakes (Trailer)	Electric, with break-away switch
Towing Attachment	3 in. pintle eye, with two safety chains and hooks
Tie Downs	5/8 in. dia. Steel D-Rings (2)
Tie Off Points	Tie off point at bumper, 3000 lb. working load limit
Bumper (SS/CS) Jacks	Hydraulic with shoe (2)
Tongue Jack	Hydraulic with shoe (1)

Electrical System	12 VDC
Battery	12 V 840 CCA, BCI group 27
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White
Overhead Drum Core	18 in. / Width 30 in. / Flange 46 in.
Underground Drum Core	12.75 in. / Width 31.75 in. / Flange 24 in.

OPTIONS

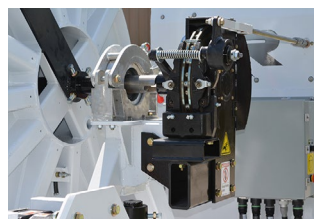
Hydraulic Pad Mount Transformer Attachment capable of 7,500 lb. maximum working load
RCR-60: Core: 24 in. to 18 in. tapered Total Outside Width: 39 in. (Flange Diameter: 60 in.)
Underground levelwind for pulling underground
Spider® Pilot Line System with independent levelwind S-75 or S-85 spider reels with 3,000 ft. or 6,000 ft. Spider Rewind Performance: Min. 10,000 IN*LB (1,000 LB of line tension at 20 IN diameter).
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
Underground Option with UG Drum 24 in. OD, 31.75 in. W, 3/8 in. x 2,000 ft. 6x25 IWRC
E-35 Underground Swivel (3,500 lb.) E-49 Underground Swivel (8,800 lb.)
Solar Battery Charger



Underground option



PT-3000 Control Panel



Cab operated 16 in. payout brake



Spider® Pilot Line System with independent levelwind

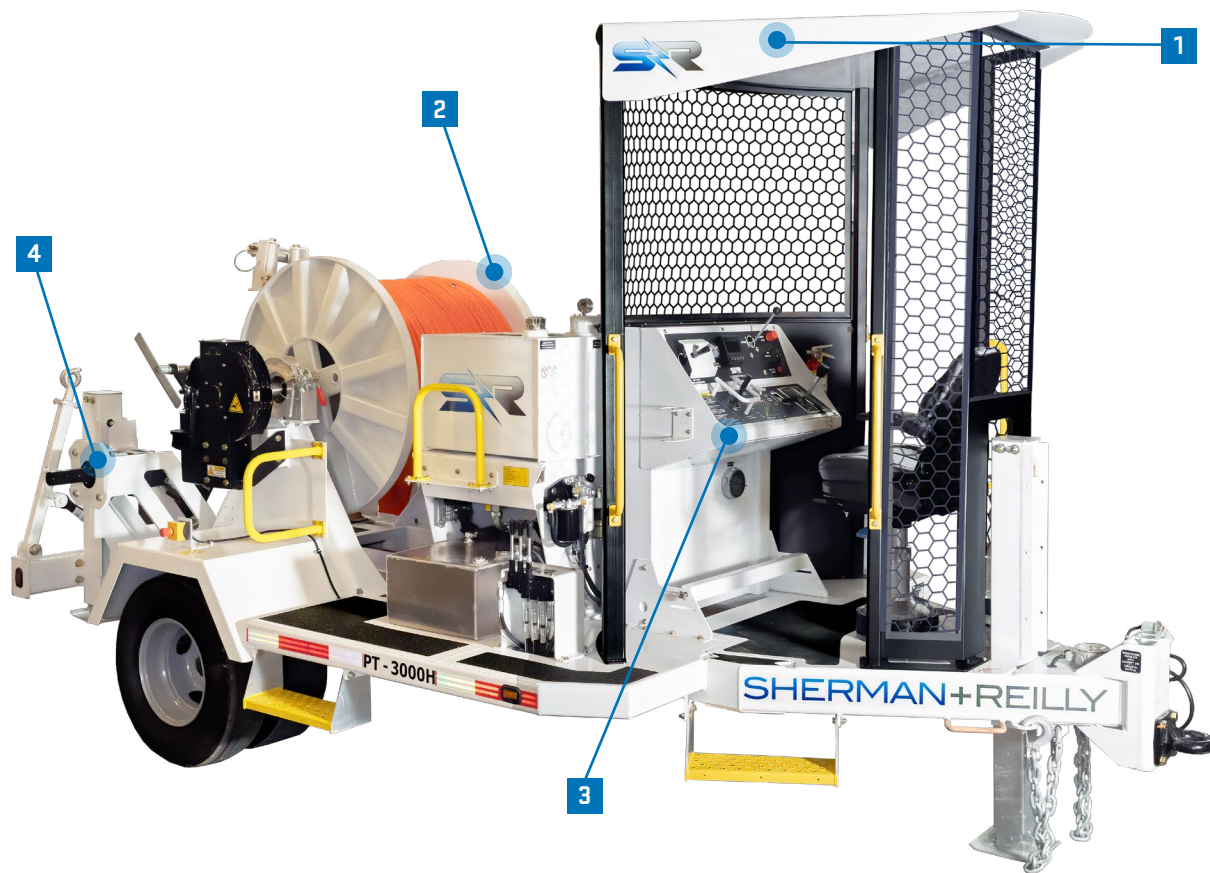
*Specifications are subject to change



SHERMAN+REILLY®

PT-3000H HERITAGE PULLER TENSIONER

3,000 LB. SINGLE DRUM PULLER TENSIONER



- 1 Safe-Zone® enclosure with Ocu-View.™
- 2 Quick and easy X-change™ bolt-action drum coupling.
- 3 Ergonomic Heritage control panel with adjustable seat.
- 4 Spider® Pilot Line System with independent levelwind. (optional)

FEATURES

- Provides unmatched versatility as a puller or tensioner.
- Capable of pulling 3,100 lb. and tensioning 2,000 lb.
- Underground package capable of pulling 7,500 lb. (optional)
- Hydraulic Low Force Tension under 200 lb. with Manual Pull Off tension under 100 lb.
- Compact footprint at 16 ft. 10 in. with a single axle, dual tire configuration.
- Multiple options to configure the unit to specific needs.

PT-3000H HERITAGE PULLER TENSIONER

3,000 LB. SINGLE DRUM PULLER TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity	3,100 lb.
Max. Tensioning Capacity	2,000 lb.
Min. Tensioning Capacity	Hydraulic Low Force Tension under 200 lb. with Manual Pull Off tension under 100 lb.
Line Speed	Pulling: 3 mph, Tensioning 3 mph.
Max. Conductor Reel Size	66 in. diameter/38 in. width
Max. Conductor Reel Weight	Dynamic over the road: 4,000 lb. Static jacks extended: 6,000 lb.
Drum Dimensions	Core Diameter: 18 in. Total Outside Width: 40 in. Flange Diameter: 46 in.
Drum Capacity	6,000 ft. of 5/8 in. PE-12 6,000 ft. of 5/8 in. Uniline
Drive System	Direct Drive: single hydraulic motor X-Change™ Coupling System
Drive System Engine	Turbocharged, Tier-4 Final, diesel, 49 Hp, water-cooled Kubota™
Fuel Capacity	13 Gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 Gallon
Hydraulic Fluid Filtration	10 micron return filters
Levelwind	Hydraulically driven, Steady-Rest™ controlled
Operator's Enclosure	Safe-Zone® Open-Air enclosure
Frame Construction	Steel tubing, Steel plate, continuous weld
Length (Overall, Nom.)	16 ft. 10 in.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	9 ft. 1 in.
Weight*	6,110 lb. without rope 8,860 lb. with drum and rope
GVWR	11,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Config. & Tires	Dual 235/85R 16 LRE; 8-6.5
Brakes (Trailer)	Electric, with break-away switch
Towing Attachment	3 in. pintle eye, with 2 safety chains & hooks
Tie Downs	5/8 in. dia. Steel D-Rings (2)
Tie Off Points	Tie off point at bumper, 3000 lb. working load limit
Bumper (SS/CS) Jacks	Manual (2) or Drop and Pin

Tongue Jack	Manual, 2 speed hand crank
Electrical System	12 VDC
Battery	12 V 840 CCA, BCI group 27
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Re-Conductoring Reel: RCR-60: Core: 24 in. to 18 in. tapered Total Outside Width: 39 in. (Flange Diameter: 60 in.)
Spider® Pilot Line System with independent levelwind S-75 or S-85 spider reels with 3,000 ft. or 6,000 ft. Spider Rewind Performance: Min. 10,000 IN*LB (1,000 LB of line tension at 20 IN diameter).
Hydraulic Jacks
RDG-2100 Rotating Distribution Ground (compatible with reel widths < 34.75 in.)
DG-4100 Running Ground
Underground Package Levelwind UG Drum Hardline
Premium Rope (Uniline®)
Galvanized
Air Brakes
Know+Go Instructional Video System

TRIM LEVELS

Entry Level: Manual Jacks No Spider Rope
Mid-Tier: 3 Hydraulic Jacks No Spider Rope
Loaded: 3 Hydraulic Jacks Spider Rope



Heritage Style Ergonomic Control Panel



Spider® Pilot Line System with independent levelwind



X-Change™ Coupling System

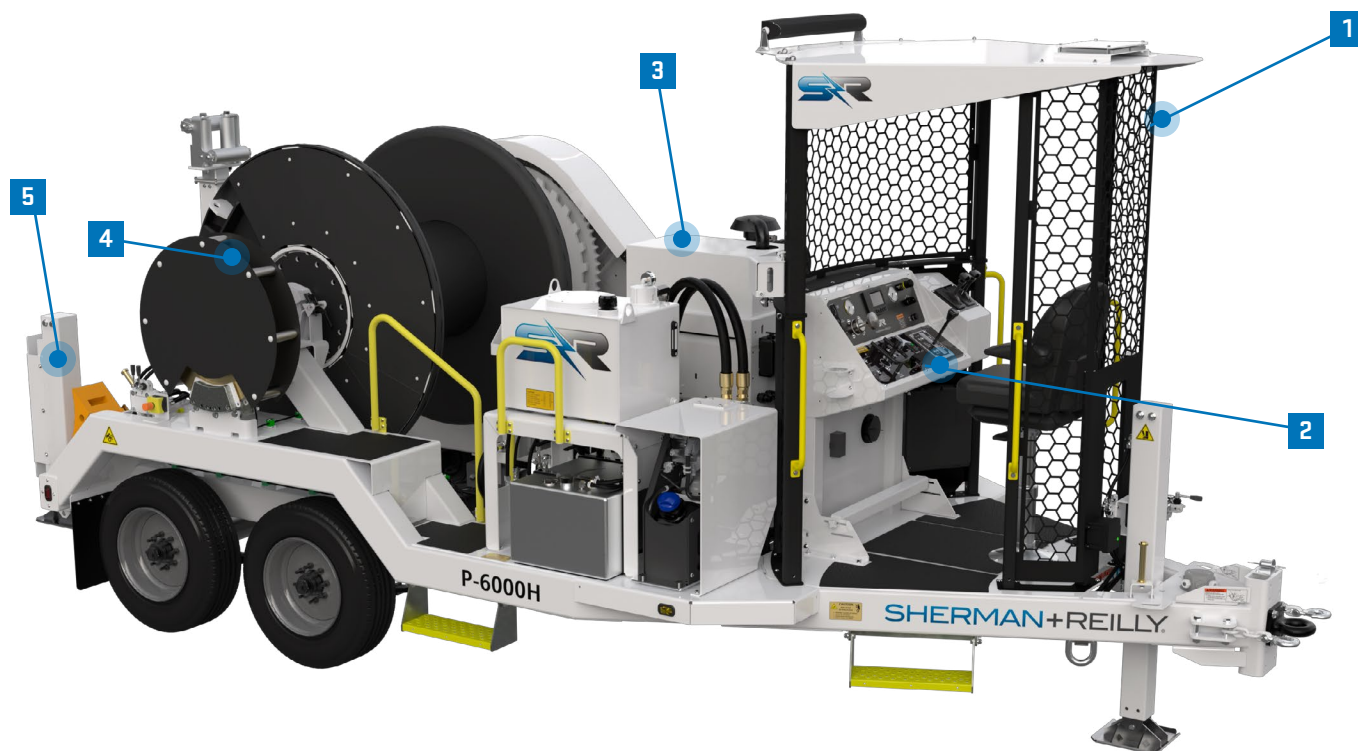
*Specifications are subject to change



SHERMAN+REILLY®

P-6000H HERITAGE PULLER

6,000 LB. PULLING CAPACITY



- 1 Safe-Zone® enclosure with Ocu-View™.
- 2 All stringing operations controlled from the safety of the Safe-Zone® enclosure.
- 3 Chain drive; single hydraulic motor, Penta-drive coupling system with remote engagement.
- 4 Helicopter-ready payout brake.
- 5 Manual jacks standard on bumper (2) and tongue (1). Hydraulic jacks option available.

FEATURES

- Capable of pulling 6,000 lb. on a 62 in. diameter reel.
- Maximum line speed: pulling 6 mph.
- Drum capacity:
Up to 15,500 ft. of 3/4 in. PE-12 or
25,000 ft. of 1/2 in. Ultrex.
- Ratchet Pawl failsafe brake.

P-6000H HERITAGE PULLER

6,000 LB. PULLING CAPACITY

Sherman-Reilly.com

SPECIFICATIONS

Maximum Pulling Capacity	6,000 lb. (rated at 30 in. from drum center)
Minimum Tensioning Capacity	1,250 lb. at top of drum and 3,500 lb. at core
Maximum Line Speed	Pulling: 6 mph Tensioning: 30 rpm
Mechanical Payout Brake	27.75 in. Bronze Disc, Helicopter-ready
Reconductoring Reel Size	72 in. diameter / 45 in. width
Maximum Reel Weight	Dynamic over the road 6,400 lb. Static jacks extended 11,000 lb.
Drum Dimensions	Core diameter: 24 in. Usable width: 36 in. Flange diameter: 62 in.
Drum Capacity	Up to 15,500 ft. of 3/4 in. PE-12 or 25,000 ft. of 1/2 in. Ultrex
Drive System	Chain drive: Single hydraulic motor, Penta-drive Coupling System with remote engagement
Drive System Engine	Turbocharged, Tier-4 Final Diesel, 116 Hp, water-cooled Kubota®
Fuel Capacity	30 gallons
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gallon (32 usable gallons)
Hydraulic Fluid Filtration	10 microns, return filter
Levelwind	Hydraulically driven, operator Steady- Rest™ controlled directional change
Operator's Safety Enclosure	Open-air Safe-Zone® enclosure
Frame Construction	Steel tubing, steel plate, continuous weld
Length (Overall, Nom.)	20 ft. 6 in.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	9 ft. 4 in.
Weight (without rope)	13,410 lb. without rope 15,765 lb. with drum & rope
GVWR	20,500 lb.
Axle Configuration / Suspension	Tandem / Leaf-spring
Wheel Configuration & Tires	Single 235/75R 17.5 LJR
Brakes (Trailer)	Electric, with breakaway switch & visual indicator for battery charge state.
Towing Attachment	3 in. pintle eye, with two safety chains & hooks
Tie Downs	(4) 1 in. diameter steel D-rings
Bumper (SS/CS) Jacks	Single Speed Drop, Pin, and Crank
Tongue Jack	Two Speed Drop, Pin, and Crank
Battery / Electrical System	(2) 12V/810 CCA/Group 27
Lights / Navigation	US DOT, LED, 12 VDC

Grounding (2)	Grade 5H
Wheel Chocks	Standard (2)
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Hydraulic Jacks
Light bar with 12V accessory option
Air axle
Tongue extension
Solar battery charger
Galvanized finish available
72 in. X 45 in. RCR reel
Know+Go Instructional Video System



Streetside of P-6000H Heritage Puller

EXPERIENCE THE DIFFERENCE

CONTACT OUR TEAM FOR A PRODUCT DEMO

(423) 756-5300 or
sales@sherman-reilly.com



SHERMAN+REILLY®

PTX-3500 PULLER TENSIONER

3,500 LB. SINGLE DRUM PULLER TENSIONER



- 1 Hydraulic motor optimization – allows for low force pull off at higher speeds.
- 2 Hydraulic levelwind.
- 3 Frame-mounted tool box.
- 4 Adjustable hydraulic jacks.
- 5 Fully enclosed Safe-Zone® Cab with climate control.

FEATURES

- Capable of pulling up to 3,500 lb. with additional re-conductoring capabilities, and tensioning up to 2,000 lb.
- Fully hydraulic direct drive system.
- Equipped with CANbus technology.

PTX-3500 PULLER TENSIONER
3,500 LB. SINGLE DRUM PULLER TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity	TOD: 3,500 lb. (Rated at the top of drum) Max: 4,500 lb. (Rated maximum)
Maximum Line Speed	Pulling: 4 mph
Maximum Conductor Reel Size	66 in. Diameter (≤39 in. wide) / 48 in. Width / 6,500 lb Weight Core Diameter: 24 in Total Width: 48 in. Flange Diameter: 44 in.
Maximum Conductor Reel Weight	Dynamic - Over the Road - w/ PMTA 3,545 lb., w/o PMTA 3,800 lb. Static - Jacks Extended - 6,500 lb.
Drum Dimensions	Core Diameter: 24 in. Total Outside Width: 58 in. Flange Diameter: 44 in.
Drum Capacity	11 mm. dia. Unitrex™ 21,000 ft. 5/8 in. dia. Uniline™ 10,500 ft. 5/8 in. dia. 6,000 ft. Uniline™ Standard
Drive System	Direct Drive: single hydraulic motor, drum/reel shaft coupler and drive bar/ dual pin
Drive System Engine	Turbocharged, diesel, 71 Hp, water-cooled
Fuel Capacity	30 Gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	32 usable gallons
Hydraulic Fluid Filtration	10 micron, both supply and return filters
Levelwind	Hydraulically driven, semi-automatically controlled
Operator's Safety Enclosure	Safe-Zone® Cab, fully-enclosed / single door
Frame Construction	Steel tubing, Steel plate, continuous weld
Length (Overall, Nom.)	19 ft. 7 in.
Width (Overall, Nom.)	8 ft. 1 in.
Height (Overall, Nom.)	8 ft. 11 in.
Weight*	10,450 lb.
GVWR	12,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	Single 245/70R 17.5
Brakes (Trailer)	Electric, with break-away switch

Towing Attachment	3 in. pintle eye, with two safety chains and hooks
Tie Downs (4)	5/8 in. dia. steel D-Rings (2), 1 in. dia. steel D-Rings (2)
Tie Off Points	1 in. dia. Steel D-Rings (2) at rear bumper 3,500 lb. at 45°
Bumper (SS/CS) Jacks	Hydraulic, with shoe (2)
Tongue Jack	Hydraulic, with shoe (1)
Electrical System	12 VDC
Battery	12 V, 585 CCA, BCI group 24
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White
Maximum Tension Capacity	2000 lb.

OPTIONS

Spider® Pilot Line System with independent levelwind
RCR-60: Core: 24 in. to 18 in. tapered Total Outside Width: 39 in. (Flange Diameter: 60 in.)
Underground Option with UG Drum 24 in. OD, 31.75 in. W, 3/8 in. X 2000 ft. 6X25 IWRC, and E-49 Swivel
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
Solar Battery Charger



PTX-3500 control panel

*Specifications are subject to change



SHERMAN+REILLY®

E+ ENGINEERING

A combination of industry experience, good ideas, hard work, and engineering prowess makes Sherman+Reilly synonymous with high-quality, forward-thinking solutions for electric utility conductor installation. The latest case in point is the development of our E+ Series, our electric battery powered units that are transforming conductor pulling operations.

The first E+ Series unit developed was the Duct Dawg DD-75 E+ underground electric puller. Five years in development this unit showcased the strength and innovation of Sherman+Reilly's staff of engineers. With 30 years in the field, the Duct Dawg platform was already time-tested and regarded by customers as the quintessential underground cable puller. But at Sherman+Reilly, innovation always beckons. Like other equipment and automobiles moving to electric power, it was time for pulling equipment to further evolve as well. The goal in engineering the E+ electric units was to meet or exceed the existing capabilities of our well-established and well-liked distribution diesel-powered cable pullers.

"...no matter what jobsite exceptions might develop, the electrical battery power would not be a limiting factor."

-Director of Engineering Doug MacDonald

But there is an obvious challenge with units that are only battery powered. "When the battery runs out, the work stops. The operator is left without power and cannot continue pulling," points out Director of Engineering Doug MacDonald. "We wanted to create an electrically powered cable puller, but also wanted to make sure that no matter what jobsite exceptions might develop, the electrical battery power would not be a limiting factor."

To start at the beginning, MacDonald explains, "The E+ Series was developed with input from not just our customers and end users, but also our engineering group and production team. As we started prototyping designs in 2018, we had back-and-forth discussions with our colleagues in assembly that yielded valuable insights. There was also input from select customers

and real-world jobsite testing experience with our existing diesel-powered Duct Dawgs and later our electric prototype. Taking all this in led to several iterations developing the E+ Series. Getting feedback and rolling that feedback back into the process makes for the best possible outcome."

Lead Engineer Tim Hanson stated, "The E+ was a team effort, beginning with gaining a clear cost target. Evaluating the first electric hybrid prototypes that we made several years ago, we each noted everything we thought could be done better. On the cost side, we realized that we were using an oversized engine to drive an oversized generator. The electrical circuit also had a lot of complications. So, these observations from our earlier designs gave us ideas to develop our E+ Series. From there, we had to develop and program the solutions."



Engineering the electrical system and computer controls and coding is the forte of Nichole Shelton and Tony Maxwell. New to Sherman+Reilly at the time the E+ project kicked off, Maxwell recalls being "excited that we were going to be doing some new things as we got into the electric-drive market. We're able to work with our outside vendors for solutions but it is also important that we're able to develop and program our own solutions. We have future product plans that are going to change the industry."

Jumping off from that remark, Doug MacDonald observes that "We were initially looking to build an electric powered unit but so many product benefits came from this including developing not only a more environmentally sustainable product but



“Getting Every Lineman Home, Every Night, No Exceptions.”

also a sustainable product-development group as well. We embarked on the E+ Series because it had become obvious that electrification was a hand-in-glove fit with our mission to get every lineman home every night, no exception.”

That perspective extends beyond protecting customers. “Our design is also benefiting people walking past our E+ Series units because diesel fumes are not being blown in their faces,” says MacDonald. “That’s another example of the obvious benefits of electrification.” Sherman+Reilly’s engineers “love that this is a watershed moment,” notes MacDonald. To be sure, this is a big deal in the company’s nearly 100-year history. We’re leading the industry in this regard. And that’s pretty special.”

Another operational benefit of the electrical units is the instantaneous torque. The controlled response to the operator’s command inputs has been described as “transformational.” When the pulling command is given via the remote control, the unit just pulls. There’s no revving up of an engine to build up hydraulic pressure to break the static friction; there’s just the precisely controlled pull. The engineered design of these E+ units has significantly improved the operational experience for the guys pulling the wire. It’s also improved communications

around the unit because of the quiet electric operations, which leads to a safer jobsite.

Through a long, careful, interactive process, the E+ Series units are engineered to check all the boxes for reliable, safe, and energy-efficient cable pulls. E+ Series units deliver quiet operation and zero emissions in all-day pulling, with full, instantaneous torque and smooth, precision control, and automatic battery management.

“The interactive and iterative engineering process led to the development of the E+ Series units that are being very well received in the marketplace,” says MacDonald. “I am really proud of our team and honored to be a part of it.”

The E+ Series is a continuation of Sherman+Reilly’s customer commitment, which includes improving operational productivity with each innovative achievement. This is accomplished by having a strong engineering and production team to provide our customers with products they know will support the work they have to do. Every Sherman+Reilly unit is “Designed for Safety and Built to Last.” We are dedicated to “Getting Every Lineman Home, Every Night, No Exceptions.”



SHERMAN+REILLY®



The Service Excellence of Sherman+Reilly

Sherman+Reilly's commitment to excellent customer service continues long after the sale. The first year of ownership includes the company's standard 1-year warranty that covers any material or workmanship defects. Beyond the warranty, Sherman+Reilly maintains a full-time dedicated team of highly skilled and experienced technicians in our Service Department.

"A big part of supporting our customers is fielding questions to assist customers..."

Service Manager Brandon Blevins

Service Manager Brandon Blevins heads up the Service Department. Blevins said, "A big part of supporting our customers is fielding questions to assist customers in avoiding equipment downtime. Callers may need advice on getting a machine that has been parked in their yard for months back in use, installing a part, or information for new crew members on how to operate existing equipment."

Service Coordinator Billy McKenzie notes that "we also reply to customer emails and there's a 'Request Service Information' form on our website that alerts us via email when someone fills it out. We do a lot of technical support via email at ServiceParts@sherman-reilly.com. These communications can alleviate the need to schedule a tech for off-site service. A lot can be accomplished with photos, emails, and drawings to support a utility's or contractor's technicians."

THE UNIQUE FACTOR

As for what most separates Sherman+Reilly from outside shops, Blevins says the “unique factor is that our technicians have an average of 15 years of experience with our equipment and are set up to travel to customer sites as needed. We also have three technicians and a dedicated parts person who provide over-the-phone tech support to customers,” says Blevins. “We have better knowledge of the equipment, access to engineering drawings, as well as engineering support for troubleshooting Sherman+Reilly equipment.”

“Another factor that drives our approach to service is that our customers typically don’t operate their equipment every day. Depending on their job schedules, the equipment may sit for several months between uses. It’s not uncommon for customers to call us prior to a large conductor pull to arrange for one of our technicians and/or equipment specialists to be on hand,” he adds. “In these cases, we send someone to the jobsite to be ready to assist should any questions or issues with the machine arise.”

When notified of an issue with any machine in the field, Blevins says the service department’s response time is as immediate as possible. “We strive to get a technician on site within 24 to 48 hours in order to minimize the customer’s downtime as much as possible.”

What’s more, Blevins says, “Sherman+Reilly equipment stands out because our Quality Assurance Department does extensive testing of all equipment before a new machine is shipped. Our test field stays busy running equipment through a testing process that includes close to 200 checkpoints for each unit, inspecting the units and putting them through operational testing before they are shipped to the new owner.”

Blevins sees the service department as truly a “one-stop shop” to support customers. “We have the in-house capabilities to handle everything from preventive maintenance services to major repair jobs. With our full set of capabilities, customers don’t need to go anywhere else.”

TRAINING THOUSANDS

Another differentiator is the width and breadth of the specialized equipment training services developed and delivered by the service team. “When you purchase Sherman+Reilly equipment, you have access to training for the life of that equipment,” says McKenzie. Key elements of the training curriculum range from in-service operation training, which comes with new machines, and is conducted at the customer’s location, to in-depth “hands-on” technician training that’s designed to be easy and convenient to access as well as cost effective for the customer. Blevins says a clear indicator of the quality of these offerings is that “Sherman+Reilly has trained hundreds of mechanics and thousands of linemen with our in-service and other training programs over the past decade.”

Sherman+Reilly understands that equipment components break, metal gets fatigued, and things just wear out. This is why we stand behind our equipment with a Service Department that is unmatched in the industry. Sherman+Reilly’s Service Department provides the expertise you need when a piece of equipment goes down and you need it back up and running quickly.

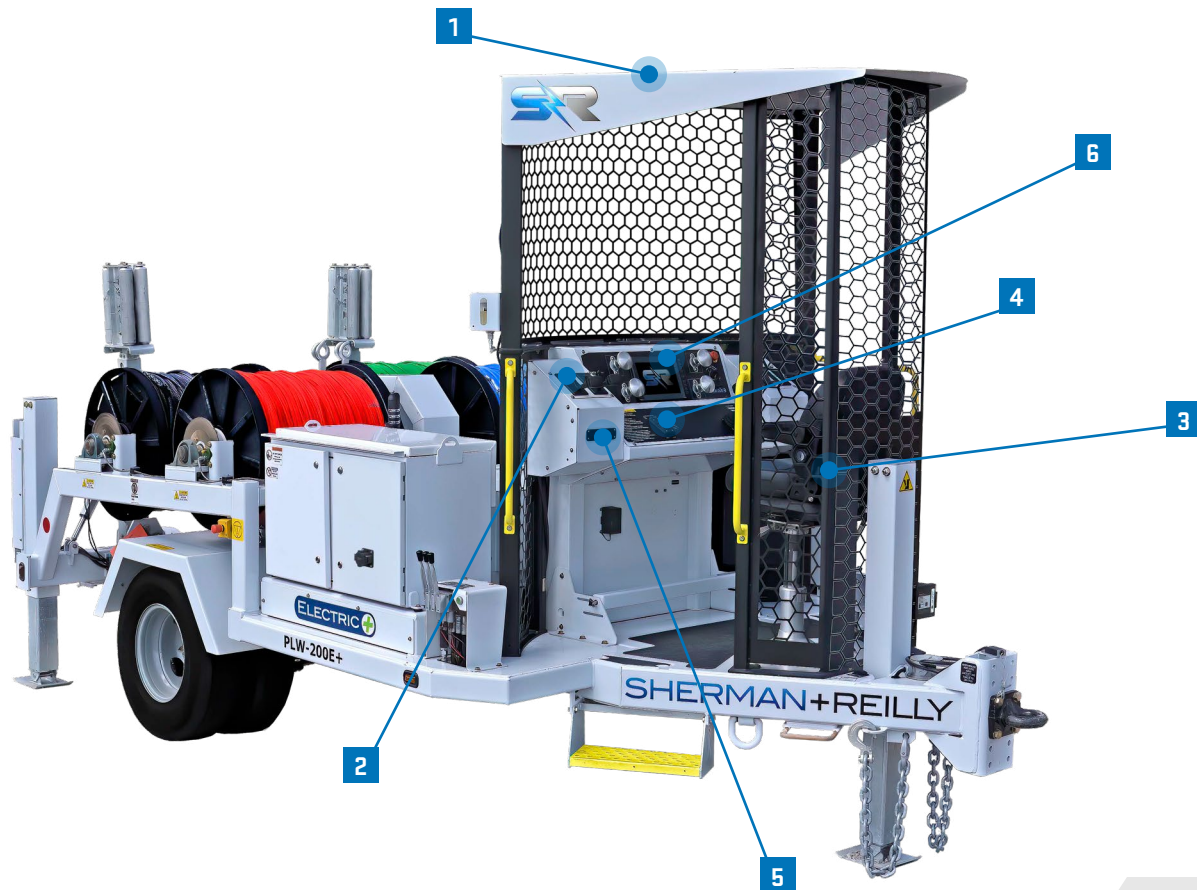




SHERMAN+REILLY®

PLW-200E+ PILOT LINE WINDER

2,000 LB. FOUR DRUM ELECTRIC PILOT LINE WINDER



- 1** Safe-Zone® enclosure with Ocu-View™.
- 2** Remote Reel Engagement.
- 3** Ergonomic Control Panel with Adjustable Seat.
- 4** Synchronized Levelwind Control.
- 5** Light Bar, USB and 12V Charging.
- 6** 10" touchscreen with embedded Know+Go Instructional Video System & a digital copy of the operator's manual.

FEATURES

- 2,000 lb. Top of Drum Pulling Capacity.
- All-Electric Drivetrain.
- Automatic Battery Management.
- S+R Telematics™ provides real time support.
- Supports the installation of 4 conductors simultaneously.
- Independent roller assemblies designed for each of the four pilot lines.
- Single Drum Capacity: 6,000 ft. of 7/16 in. Rope.

PLW-200 E+ PILOT LINE WINDER

2,000 LB. FOUR DRUM ELECTRIC PILOT LINE WINDER

Sherman-Reilly.com

SPECIFICATIONS

Maximum Pulling Capacity	2,000 lb. rated at top of drum
Max. Line Speed	4.0 mph. top of drum
Reel Capacity	6,000 ft. of 7/16 in. PE-12 synthetic rope
Drive System	48 V Electric
Charging time Standard Battery Size	Rapid Recharge: 50% to 100% = ~1 hour; 0 to 100% = ~2 hours Wall Charger: Level 1 (120V): 4-5 hr for 0% to 50%; 8-9 hr for 0% to 100% Level 2 (240V): 2-3 hr for 0% to 50%; 4-5 hr for 0% to 100%
Rapid Recharge System	Diesel, Flywheel-Integrated Permanent Magnet Generator, 100A Field Charging
Wall Charger Plug Type	J1772 Plug
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	4 Gallons
Payout Brake	Manually controlled disc brakes, 12" diameter disc, bronze
Levelwind	Electric, joystick controlled (2)
Operator's Safety Enclosure	Safe-Zone® with Ocu-View™ open-air enclosure
Frame Construction	Steel tubing, continuous weld
Length (overall, nom.)	207 in. (17 ft. 3 in.)
Width (overall, nom.)	102 in.
Height (overall, nom.)	117 in.
Weight (w/ rope)	nominal 11,100 lb.
GVWR	12,000 lb.
Suspension	Leaf spring
Axle Configuration	Single
Wheel Configuration and Tires	Dual 235/85R 16LRG; 8-6.5
Brakes (Trailer)	Electric, with safety break-away switch and dedicated battery
Towing Attachment	3 in. pintle eye, with two safety chains and hooks
Tie Downs (4)	5/8 in. dia. steel D-rings
Bumper (SS/CS) Jacks	Hydraulic with galvanized shoe (2)
Tongue Jack	Hydraulic with galvanized shoe (1)
Electrical System	48/12 VDC

Lights / Navigation	US DOT, LED, 12 VDC
Grounding (2)	Two (2) grounding studs
Wheel Chocks and Holders	Standard
Fire Extinguisher	ABC
Drum Covers	Vinyl
Color	S+R white

OPTIONS

Tongue Extension
Solar Charger
Galvanized Finish
Additional Battery Size Options: 15.375 kWh 20.5 kWh
Air Brakes
J1772 Plug Adapters Available

The PLW-200 E+ delivers all-electric operation with The Onboard Rapid Recharge System by S+R™, providing superior performance and automatic battery management so the operator can focus on the job at hand. With all the capabilities of our standard PLW-200H, the E+ has an all electric drivetrain designed to exceed all-day use. The On-Board Rapid Recharge System responds automatically, without input from the operator, until the work is done no matter how tough the job gets. In addition, S+R Telematics™ comes standard at no cost, providing industry leading support in real time. The E+ Series of products continues Sherman + Reilly's commitment to transform customer expectations for jobsite safety and equipment performance

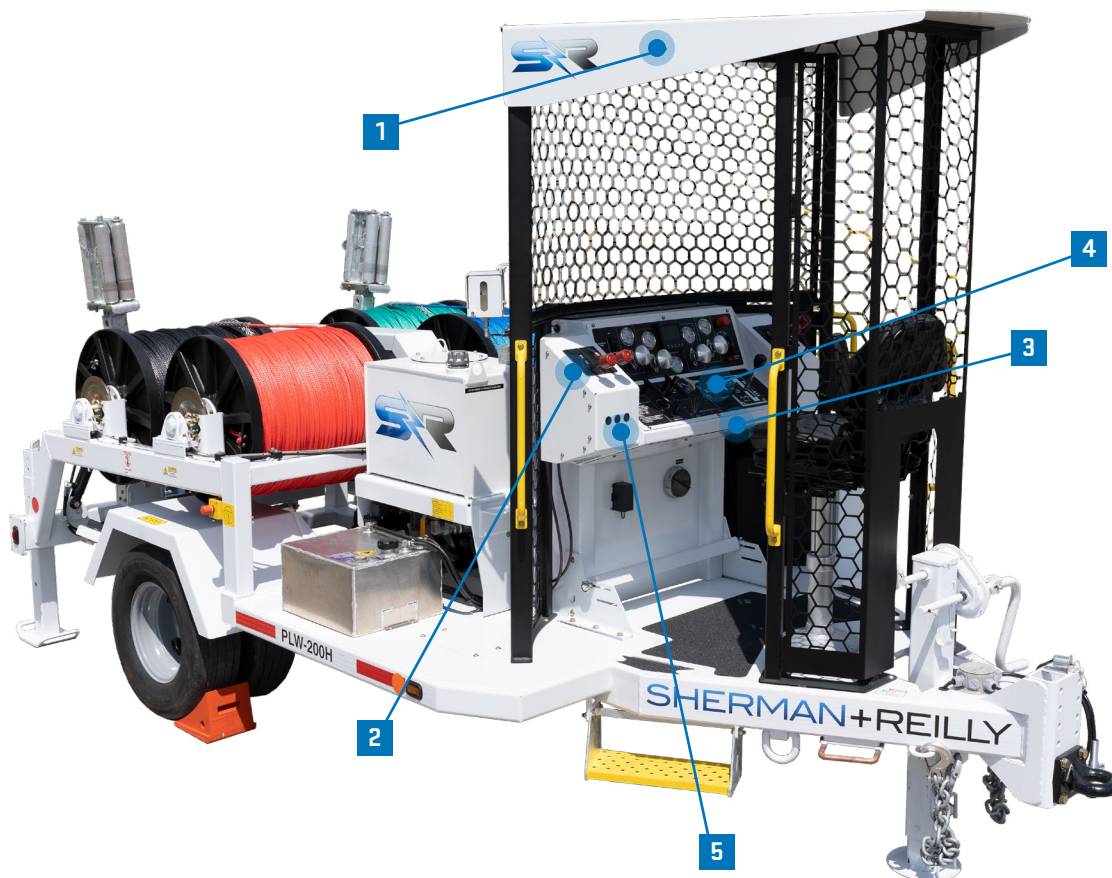




SHERMAN+REILLY®

PLW-200H PILOT LINE WINDER

2,000 LB. FOUR DRUM PILOT LINE WINDER



- 1 Safe-Zone® enclosure with Ocu-View™.
- 2 Remote Reel Engagement.
- 3 Ergonomic Heritage Control Panel with Adjustable Seat.
- 4 Synchronized Levelwind Control. (Optional)
- 5 Supports Radio Install, USB and 12V Charging.

FEATURES

- 2,000 lb. Top of Drum Pulling Capacity.
- Supports the installation of 4 conductors simultaneously with levelwind control option.
- Independent roller assemblies designed for each of the four pilot lines.
- Single Drum Capacity:
6,000 ft. of 7/16 in. Rope.

PLW-200H PILOT LINE WINDER
2,000 LB. FOUR DRUM PILOT LINE WINDER

Sherman-Reilly.com

SPECIFICATIONS

Maximum Pulling Capacity	2,000 lb. rated at top of drum
Max. Line Speed	4 mph. top of drum
Reel Capacity	6,000 ft. of 7/16" PE12 rope
Drive System	Hydraulic motor, chain and sprocket
Engine	Turbocharged, Tier-4 Final, diesel, 49 Hp, water-cooled Kubota®
Fuel Capacity	13 gallons
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 Gallons
Payout Brake	Manually controlled disc brakes, 12" diameter disc, bronze
Levelwind	Hydraulic joystick controlled (2)
Operator's Safety Enclosure	Safe-Zone® with Ocu-View™ open-air enclosure
Frame Construction	Steel tubing, continuous weld
Length (overall, nom.)	17 ft. 3 in.
Width (overall, nom.)	8 ft. 6 in.
Height (overall, nom.)	9 ft. 1 in.
Weight (w/ rope)	10,900 lb.
GVWR	11,500 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration and Tires	Dual 235/85R 16LRG; 8-6.5
Brakes (Trailer)	Electric, with safety break-away switch
Towing Attachment	3 in. pintle eye, with two safety chains and hooks

Tie Downs (4)	5/8 in. dia. steel D-rings
Bumper (SS/CS) Jacks	Manual (2), drop and pin with optional Hydraulic with galvanized shoe (2)
Tongue Jack	Manual, 2 speed hand crank with optional Hydraulic with galvanized shoe (1)
Electrical System	12 VDC
Battery	12 Volt, group 27
Lights / Navigation	US DOT, LED, 12 VDC
Grounding (4)	3/4 in. dia. copper-clad steel loops (4)
Wheel Chocks and Holders	Standard
Fire Extinguisher	ABC
Drum Covers	Vinyl
Color	S+R White or Galvanized

OPTIONS

Tongue Extension
Light Bar, 12V and USB Charger
Solar Charger
Galvanized Finish
Drum Covers
Hydraulic Jacks
Air Brakes
Know+Go Instructional Video System



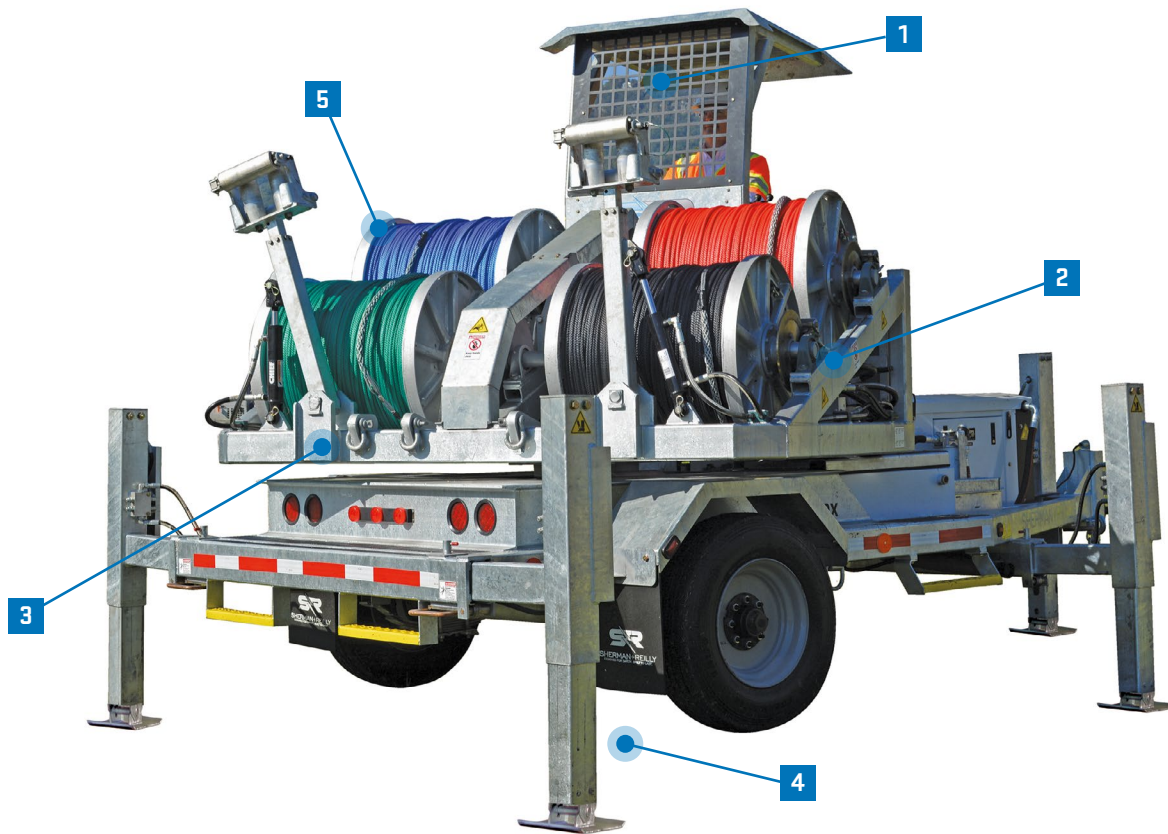
*Specifications are subject to change



SHERMAN+REILLY®

PLW-200X PILOT LINE WINDER

2,000 LB. FOUR DRUM TURRET PILOT LINE WINDER



- 1 Ergonomic operator's station with intuitive controls.
- 2 Braking system with electric over hydraulic activation.
- 3 Tie off points rotate with turret for ease of use.
- 4 Adjustable leveling jacks.
- 5 6,000 ft. capacity for 7/16 in. rope.

FEATURES

- 2,000 lb. pulling capacity.
- Equipped with CANbus technology and real-time self-diagnostics.
- 360° continuous turret rotation for flexibility on the jobsite.

PLW-200X PILOT LINE WINDER
2,000 LB. FOUR DRUM TURRET PILOT LINE WINDER

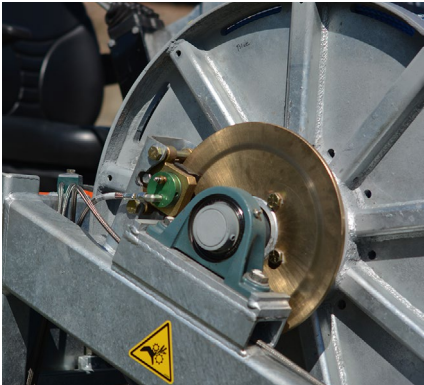
Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity Max	2,000 lb. rated at the top of drum
Max Line Speed	4 mph rated at top of drum
Payout Break	Hydraulic disc-caliper, electric over hydraulic with finite PSI control
Turret Rotation	360°, continuous
Reel Capacity	6,000 ft. of 7/16" PE-12 rope
Drive System	Hydraulic motor, chain and sprocket
Engine	Turbocharged, Tier-4 Final Diesel, 49 Hp, water-cooled Kubota®
Fuel Capacity	13 Gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 Gallon
Levelwind	Hydraulically controlled, joystick controlled (2)
Operator's Safety Enclosure	Safe-Zone® Cab, Open/Half cab, turret mounted
Frame Construction	Steel tubing, continuous weld
Length	16 ft. 11 in.
Width	8 ft. 1 in.
Height	9 ft. 10 in.
Weight*	11,990 lb.
GVWR	12,500 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	235/75R 17.5
Brakes (Trailer)	Electric, with break-away switch
Towing Attachment	3 in. pintle eye, with two safety chains and hooks
Tie Downs	5/8 in. dia. Steel D-Rings (4)
Tongue Jack	Hydraulic with galvanized shoe (1)
Stabilizing Jacks	Hydraulic with galvanized shoe (4)
Electrical System	12 VDC
Battery	12 Volt, group 27
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad steel loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White
Drum Covers	Vinyl
Grips and Swivels	1038 Kellems grip and B-40 Swivel

OPTIONS

Solar Battery Charger
Galvanized Finish



Braking system with electric over hydraulic activation



Ergonomic operator's station



Shown with optional galvanized finish

*Specifications are subject to change



SHERMAN+REILLY®

DISTRIBUTION STRINGING 101

The basic objective of stringing overhead distribution is to install the conductor from one point to the other in the best possible condition and in the safest, most economical manner. To accomplish this job, the proper equipment, tools, and training are most important.

Need some guidance for your crew or maintenance team? Sherman+Reilly provides in-service, classroom, and on-site training customized for your equipment and your team from operations to preventative maintenance.

Contact us at 423.756.5300 to learn more.

FOUR KEY COMPONENTS

There are four key components used in an overhead distribution stringing job and are listed below in order of importance: the tensioner, pulling line (bull line), stringing blocks, and the puller. These four key components should work together, and if any one of these components is deficient in design or performance, it directly affects the other three. If the stringing blocks are of poor quality and do not roll efficiently, then they directly affect the amount of pulling capacity needed to install the conductor. This would then require a larger capacity puller.

The pulling line is also affected and could possibly cause it to fail due to increased loads above its safe working load. The tensioner will also be required to create more tension, thus causing additional stress on the hardware, structures, and the most important component – the conductor. So, you see how all four components work together and one deficiency can cause multiple problems.

The first step in the selection of the equipment would be to use the IEEE Guide formula to determine the amount of tension it takes to pull this conductor in and have adequate capabilities with some reserve. There are two formulas used. One formula, T1, is used to establish the amount of tension required to support the conductor in one span. The TMax formula is used to determine the maximum amount of tension that is needed to pull the conductor in. The formulas are as follows where:



Tension Formulas

T_1	the tension required to support 1 span (static condition)
W	weight per unit length of the conductor
L	span length
D	sag during the stringing phase
T_{Max}	the maximum tension required to pull the conductor
$.98$	efficiency of stringing blocks
n	number of supports or blocks
T_1	$WL^2 \div 8D$
T_{Max}	$T_1 \div .98^n$

EQUIPMENT

In consideration of the first piece of equipment, the tensioner, a single trailer capable of carrying the reel size and weight of the conductor should also have a set of multi-groove bullwheels that would allow the conductor to be tensioned and not come directly from the reel. However, if the tensions are acceptable on the reel itself, then a hydraulically controlled puller/tensioner is a very practical approach to tensioning the conductor, considering the physical condition of the reel itself.

Although bullwheel type pullers are used in some countries for various reasons, two like machines called puller/tensioners work in concert with each other for the best and smoothest installation and control. In the United States the most common puller is a drum type wherein a large winch is used with the pulling line or bull line. Traditionally, the use of a parallel lay rope, namely Uniline, has the least elongation, is derived with the highest strength to size ratio, is the longest lasting rope, and should be used on drum type pullers.

The third piece of equipment used in the distribution stringing operation are commonly referred to as blocks. Good stringing blocks use ball bearings to allow the sheave to spin efficiently, usually at only a 2% loss per block. This loss is due to the constant conductor bending and straightening as it passes over blocks. It is common to use a larger diameter block at the lead and dead-end poles, as well as at severe angle points in a pull. The stringing blocks are usually installed when framing the poles, crossarms, hardware, and insulators.

Once the poles in a given pull have been installed, a pilot line system, commonly called a Spider System, is placed on the pole at the conductor tension end of the pull itself. It is advantageous to use a single Spider Unit consisting of a brake. This is chained to the pole, along with a drum with typically 3,000 or 6,000 ft. of pilot line, all four mounted on the lead pole. These four ropes can be taken from pole to pole as they are framed with distribution blocks. When the last pole is framed there will be four continuous ropes of different color, from one end of the pull to the other. Using this system instead of individual threader ropes allows the pulling line to be pulled back individually one at a time in order to string the phase conductors and finally the neutral.

These also allow the stringing of the main pulling rope under tension and therefore keep it out of any existing underbuild or obstructions below. Once the pulling rope is installed and attached to the conductor with a grip and swivel, each phase can be pulled through individually and caught off and brought up to sag as the pulling rope is returned to the tensioner for the second pull. Once the 3-phase conductors have been pulled and sagged, the neutral can be pulled in the same manner at which time the job is complete, as far as the installation of the conductors is concerned. All that remains is the clamping in of the conductors in the insulators and removal of the stringing blocks to finish the job.





SHERMAN+REILLY®

Increases operator and equipment owner confidence providing peace of mind that operational information is always available.

KNOW+GO

ON-BOARD INSTRUCTIONAL VIDEO SYSTEM



Above: The KNOW+GO video system on a PLW-400H.

- 1 KNOW+GO video system located within the safety of the Safe-Zone® enclosure.
- 2 Purpose designed box is road-ready.
- 3 7 in. touchscreen display on Heritage units. 10 in. display on E+ Series.
- 4 Waterproof speakers for clear audio.
- 5 Embedded instructional videos.
- 6 Digital operator's manual also included.

FEATURES

- IFM display is IP65 & UV rated.
- Two 3.1 in. speakers, saltwater resistant, full range audio, waterproof, IP65 rated.
- Available as an option on Heritage Series units. Available as a standard feature on the PLW-200E+ and in development for other E+ Series units.
- Accessible without cellular reception.
- Instructional videos explain operator controls and unit features.

SPECIFICATIONS

Display	7 in. Heritage Series / 10 in. E+ Series IFM display; ingress protection rating IP65; UV rated ISO 4892-2. Clear 800 x 480 pixel back-lit LED illumination with 1000:1 contrast ratio. 16:10 aspect ratio in a durable, shock-resistant, vibration resistant, IFP display. Touchscreen.
Case	Road-ready purpose built powdered coated 14 ga steel box located within Safe-Zone® enclosure on Hertiage Series products. Sturdily mounted for easy viewing without impeding the line of sight for the job & protects the controller, amplifier and speakers.
Availability	Available as an option for Heritage Series Units. Available as a standard feature on the PLW-200E+ and in development for other E+ Series units. KNOW+GO video systems can be installed as an option on Heritage Series units either by S+R service technicians or by a certified member of your team.
Videos	Up to 12 videos. Videos are accessible without cellular reception. Instructional videos cover pulling, tensioning, payout, etc.
Audio	Speakers; 8 CM salt water resistance, full range, waterproof, IP65 rated.
Operator's Manual	Complete digital copy of operator's manual available for on-board referencing.

*Specifications are subject to change



Above: KNOW+GO embedded on a PLW-200E+ Series unit.

INVENTING

WHAT'S NEXT

CONTACT OUR TEAM

FOR MORE INFORMATION

(423) 756-5300 or

sales@sherman-reilly.com

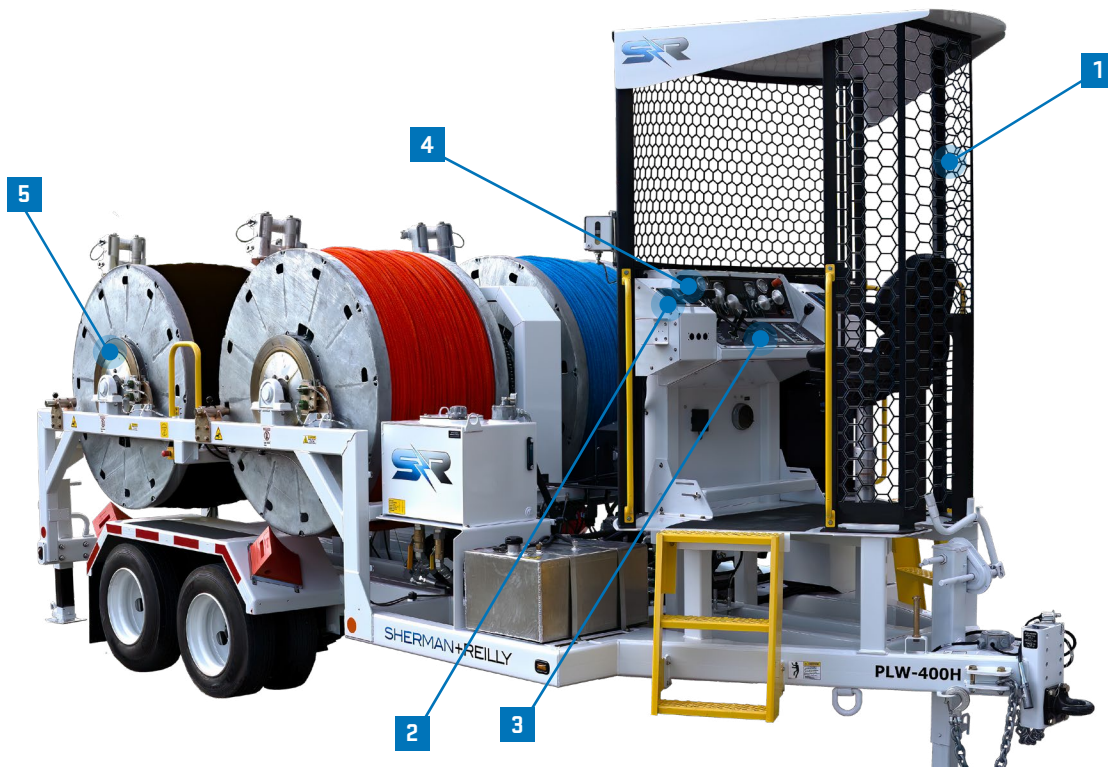
Increases operator and equipment owner confidence providing peace of mind that operational information is always available.



SHERMAN+REILLY®

PLW-400H PILOT LINE WINDER

4,000 LB. PILOT LINE WINDER



- 1 SafeZone™ Enclosure with Ocu-View™.
- 2 Remote Drum/Reel Engagement and Payout Brake Control.
- 3 Ergonomic Heritage control panel with adjustable seat.
- 4 Synchronized Levelwind Control. (Optional)
- 5 24-inch remote operated payout brakes.

FEATURES

- Capable of pulling 4,000 lb.
- Supports the installation of 2 conductors simultaneously with the levelwind sync control option.
- Single Drum Capacity
 - PE12 : 16,500 ft (5/8")
 - Unitrex : 22,000 ft (0.44")
- Supports Radio Install, USB, and 12V Charging. (optional)

SPECIFICATIONS

Maximum Pulling Capacity	4,000 lb.
Max. Line Speed	4 mph. average
Max. Torque	124,000 in.-lb. (4,000 lb at 29 inch drum radius)
Reel/Drum Dimensions (4)	Core diameter: 24 inch. Total width: 26.5 inch inside Flange diameter: 60 inch
Reel/Drum Capacity	16,500 ft of 5/8 in. PE12 Rope 22,000 ft of 0.44 in. Unitrex™
Drive System	Hydraulic motor, chain and sprocket
Engine	Tier-4 Final, Diesel, 71 Hp
Fuel Capacity	30 gallons
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gallons
Payout Brake	Hydraulic 24 in. disc-caliper, manual
Levelwind	Hydraulically controlled - joystick controlled
Operator's Safety Enclosure	Safe-Zone® with Ocu-View™ open-air enclosure.
Hydraulic Fluid Filtration	10 micron return filters
Frame Construction	Steel tubing, Steel plate, continuous weld
Length (Overall, Nom.)	23 ft
Width (Overall, Nom.)	8 ft. 6 inch
Height (Overall, Nom.)	11 ft. 6 inch
Estimated Weight	20,180 lb. without rope 27,704 lb. with PE12 x 16,500 ft 26,076 lb. with Unitrex x 22,000 ft
GVWR	29,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Config. & Tires	Dual 215/75R 17.5
Brakes (Trailer)	Electric, with break-away switch
Towing Attachment	3 in. pintle eye, with 2 safety chains & hooks
Tie Downs	3/4 inch dia. Steel D-Rings (4)
Tie Off Points	Tie off point at bumper, 4,000 lb. working load limit
Bumper (SS/CS) Jacks	Manual (2), Drop and Pin with crank (Base model)
Tongue Jack	Manual, 2-speed crank

Electrical System	12 VDC
Battery	Two (2) 12 V batteries wired parallel group 27
Lights / Navigation	US DOT, LED, 12 VDC
Wheel Chocks(4)	Standard
Fire Extinguisher	ABC
Color	S+R white

OPTIONS

Hydraulic Jacks
Solar battery charger
Galvanized
Air Brakes
Light Bar, 12 V, and USB Charger
Synchronized Levelwind Control (2)
Protective Drum/Rope Covers
Know+Go Instructional Video System





SHERMAN+REILLY®

PLW-400X PILOT LINE WINDER

4,000 LB. FOUR DRUM PILOT LINE WINDER



1 Fully enclosed Safe-Zone® Cab with climate control.

2 Braking system with electric over hydraulic activation.

3 Adjustable leveling jacks.

FEATURES

- 4,000 lb. pulling capacity.
- Equipped with CANbus technology and real-time self-diagnostics.
- Galvanized finish is available.

PLW-400X PILOT LINE WINDER

4,000 LB. FOUR DRUM PILOT LINE WINDER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity, Maximum	4,000 lb. rated at top of drum
Line Speed, Maximum	Pulling: 4 mph (avg.)
Torque Rating, Maximum	124,000 in. lb. (4000 lb. @ 31inch radius)
Pulling Drum Capacity	16,500 ft. of 5/8" PE12 rope 22,000 ft. of 0.44" Unitrex rope
Pulling Drums (4)	Flange Diameter: 62 in. Core Diameter: 25 in. Width: 25 in., inside
Drive System	Hydraulic motor, chain and sprocket with Locking Crown Drum engagement
Engine	Tier-4 Final Diesel, 71 peak Hp, turbocharged, water cooled, DEF Not Required
Fuel Capacity	30 Gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 Gallon
Payout Brake	1 per drum, 2 puck caliper at 1.5" each w/ 24 in. disc, manual control via ripstick
Levelwind	One per drum (4), Hydraulically driven, joystick controlled
Operator's Safety Enclosure	Fully enclosed Safe-Zone® Cab, sit-down, with A/C & Heat
Frame Construction	Steel tubing, continuous-weld
Length (overall, nom.)	22 ft.
Width (overall, nom.)	8 ft. 6 in.
Height (overall, nom.)	12 ft. 6 in.
Weight*, nom. without rope	22,620 lb. without rope 30,186 lb. with PE12 x 16,500 ft. 28,492 lb. with Unitrex x 22,000 ft.
GVWR	33,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Configuration & Tires	Dual, 215 / 75R 17.5
Brakes, Trailer	Electric, with break-away switch
Towing Attachment	3 in. pintle eye, with 2 safety chains & hooks
Tie Downs	Four (4), 3/4 in. dia. Steel D-Rings

Bumper (SS/CS) Jacks	Hydraulic with galvanized shoe (2)
Tongue Jack	Hydraulic with galvanized shoe
Electrical System	12 VDC
Battery	Two 12 V batteries wired parallel for 12 V (group 27)
Lights / Navigation	US DOT, LED, 12 VDC
Work Lights	Oval Spot (2)
PLC machine control	CANbus Technology
Data Logging	Removable Memory Card
Grounding (4)	¾ in. dia. copper-clad steel loops (4)
Wheel Chocks and Holders	Standard Orange Polyurethane
Fire Extinguisher	2 x 5 lb. ABC Fire Extinguishers
Color	S+R White, with Galvanized drums, levelwinds, and jacks

OPTIONS

Air Brakes
Solar Battery Charger
Protective Drum/Rope Covers



*Specifications are subject to change



SHERMAN+REILLY®

PT-7500 PULLER TENSIONER

7,500 LB. SINGLE DRUM PULLER TENSIONER



- 1 Fully enclosed Safe-Zone® Cab with climate control.
- 2 Automatic horizontal floating levelwind.
- 3 Adjustable hydraulic jacks.
- 4 Frame mounted tool box.

FEATURES

- Multi-purpose 7,500 lb. puller tensioner with re-conductoring capabilities.
- Fully hydraulic direct drive system.
- Equipped with CANbus technology.

PT-7500 PULLER TENSIONER

7,500 LB. SINGLE DRUM PULLER TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity	7,500 lb. (Rated from top of drum to core)
Maximum Line Speed	Pulling: 4 mph
Maximum Conductor Reel Size	66 in. diameter/39 in. wide
Maximum Conductor Reel Weight	Dynamic over the road: 6,000 lb. Static Jacks Extended: 7,000 lb.
Drum Dimensions	Core Diameter: 24 in. Total Outside Width: 58 in. Flange Diameter: 48 in.
Drum Capacity	5/8 in. Uniline™ 10,500 ft. .58 in. dia. Unitrex 12,350 ft. Additional rope capacities available upon request
Drive System	Direct Drive: dual hydraulic motor, drum/reel shaft coupler and drive bar/ dual pin
Drive System Engine	Diesel, 74 Hp, water-cooled
Fuel Capacity	30 gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	40 gallon (32 usable gallons)
Hydraulic Fluid Filtration	10 micron, both supply and return filters
Levelwind	Hydraulic, operator controlled directional change
Operator's Safety Enclosure	Safe-Zone® Cab, fully-enclosed / single door
Frame Construction	Steel tubing, Steel plate, continuous weld
Length (Overall, Nom.)	20 ft. 3 in.
Width (Overall, Nom.)	8 ft. 4 in.
Height (Overall, Nom.)	8 ft. 10 in.
Weight*	11,360 lb.
GVWR	14,500 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	235/85R 16 Dual
Brakes (Trailer)	Electric, with break-away switch

Towing Attachment	3 in. pintle eye, with two safety chains and hooks
Tie Downs	1 in. dia. Steel D-Rings (4)
Bumper (SS/CS) Jacks	Hydraulic, with shoe (2)
Tongue Jack	Hydraulic, with shoe (1)
Electrical System	12 VDC
Battery	12 V, 585 CCA, BCI group 24
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Spider® Pilot Line System with independent levelwind
RCR-60: Core: 24 in. to 18 in. tapered Total Outside Width: 39 in. (Flange Diameter: 60 in.)
Solar Battery Charger



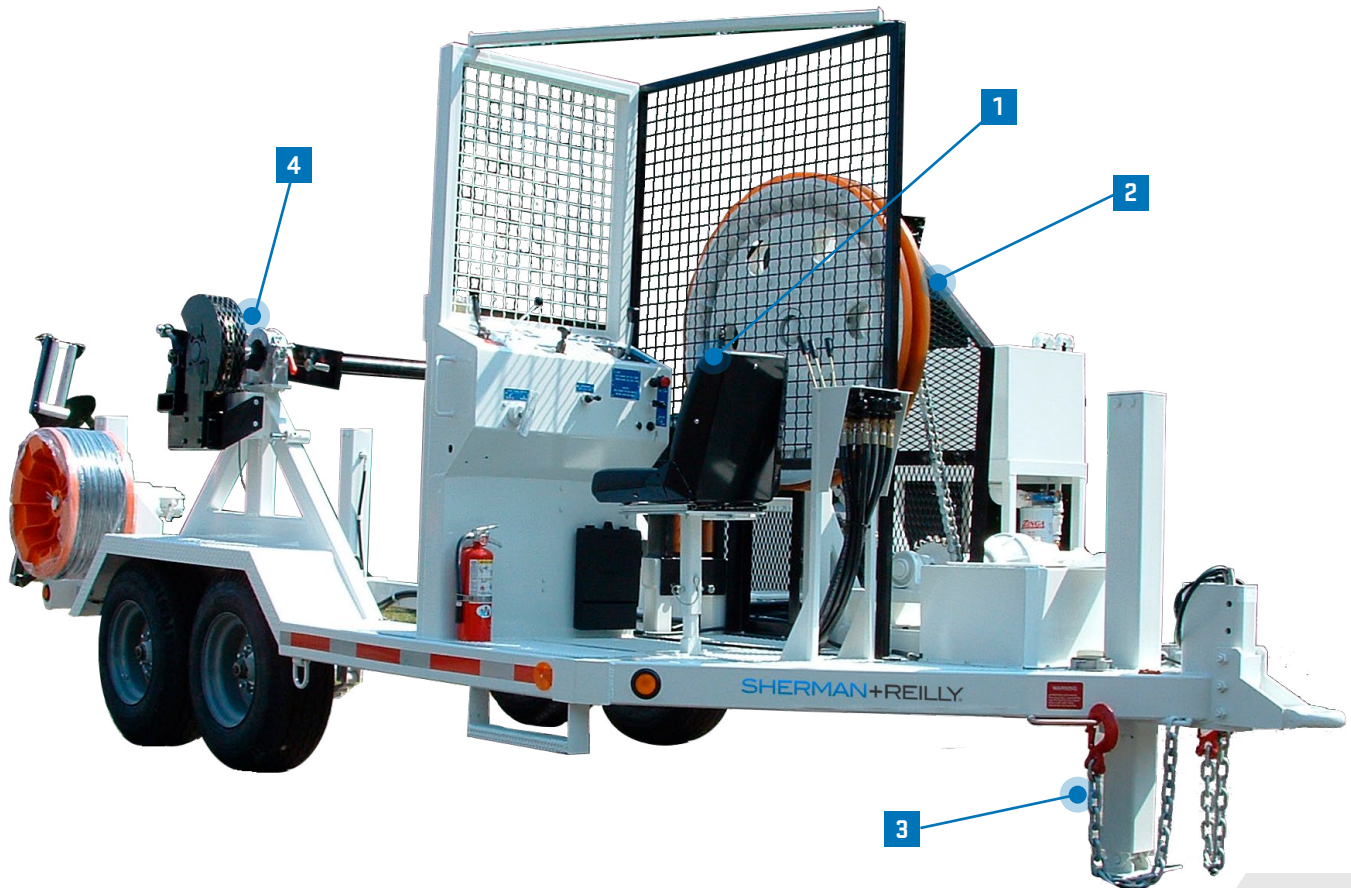
*Specifications are subject to change



SHERMAN+REILLY®

TPVG-1424 V-GROOVE PULLER TENSIONER

4,000 LB. MULTI-ROLE PULLER TENSIONER



- 1** Ergonomic operators station.
- 2** 42 in. diameter v-groove bullwheel.
- 3** Hydraulic leveling jacks.
- 4** Seamless reel change with Sherman + Reilly's pillow block bearing support.

FEATURES

- Smooth tension control of single conductor through the hydraulic system.
- Spring applied, hydraulic pressure released fail-safe brake.
- Precision CNC machined v-groove profile.

TPVG-1424 V-GROOVE PULLER TENSIONER

4,000 LB. MULTI-ROLE PULLER TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Maximum Tensioning Capacity	4,000 lb.
Maximum Pulling Capacity	3,000 lb.
Maximum Speed	4 mph
Bullwheel Size	42 in. dia.
Groove Diameter (conductor)	1.5 in. dia.
Bottom of Groove	36 in. dia.
Groove Lining Material	Cast Polyurethane
Bullwheel V-Groove Profile	Precision machined CNC
Engine	Turbocharged, Tier-4 Final Diesel, 49 Hp, water-cooled Kubota®
Tensioning (Hydraulic Motor)	Planetary gearbox (closed loop system)
Final Drive	Chain and sprocket
Fail-Safe Brake	Hydraulic relieved / spring applied
Directional Controls	Variable speed, pressure and pre-set mode
Reel Capacity	1 reel carrier
Maximum Reel Width	54 in.
Maximum Reel Diameter	84 in.
Maximum Reel Weight	8,000 lb.
Reel Shaft	2-5/8 in.
Payout Brake	16 in. aluminum/bronze caliper disc
Frame Construction	Steel tubing, continuous-weld
Length (Overall, Nom.)	20 ft.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	9 ft. 4 in.
Weight*	9,200 lb.
GVWR	18,000 lb.
Fuel Capacity	13 Gallon
Hydraulic Fluid (Filtration)	ISO 32 (10 Micron)
Tailing Tension Brake Control	Hydraulic-Adjustable from Operator Console

Suspension	Leaf-spring
Axle Configuration	Tandem 10,000 lb. each
Wheel Configuration and Tires	235/75R 17.5
Brakes (Trailer)	Electric, with break-away switch
Towing Attachment	3 in. pintle eye, with two safety chains and hooks
Tie Downs (4)	5/8 in. dia. steel D-Rings (2) 1 in. dia. steel D-Rings (2)
Bumper (SS/CS) Jacks	Hydraulic, with shoe (2)
Tongue Jack	Hydraulic, with shoe (1)
Electrical System	12 VDC
Battery	12 V, 840 CCA, BCI group 27
Lights / Navigation	US DOT, LED, 12 VDC
Grounding (4)	5/8 in. dia. copper-clad steel loops
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Solar battery charger
Hydraulic retriever for reel control
Spider® Pilot Line System with independent levelwind, S-75 or-85 spider reels with 3,000 ft. or 6,000 ft. Spider Rewind Performance: Min. 10,000 IN*LB (1,000 LB of line tension at 20 IN diameter).
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
RCR-60: Core: 24 in. to 18 in. tapered Total Outside Width: 39 in. (Flange Diameter: 60 in.)
RDG-4100 Rotating Distribution Ground
Powered Reel Carrier Rewind/Puller
Powered Pilot Line Spider Rewind
Pilot Line Spider Levelwind 12 Volt Electric

*Specifications are subject to change



SHERMAN+REILLY®

P-2000X PULLER

20,000 LB. BULLWHEEL PULLER



- 1 Fully enclosed Safe-Zone® Cab with climate control.
- 2 Automatic horizontal floating levelwind for precise control.
- 3 Equipped with a 175 Hp industrial diesel engine.
- 4 Frame mounted tool box.
- 5 4 adjustable hydraulic leveling jacks.

FEATURES

- Pulling capacity of 20,000 lb.
- 23,000 ft. 20 mm anti-twist steel cable capacity.
- Fully hydraulic direct drive system.
- Equipped with CANbus technology and real-time self diagnostics.

SPECIFICATIONS

Pulling Capacity	Max: 20,000 lb. (Rated maximum)
Maximum Line Speed	Pulling: 4 mph
Controls	Digital with real-time tension monitoring and recording
Drum Dimensions	Core Diameter: 30 in. / Total Outside Width: 76 in. Inside Width: 50 in. / Flange Diameter: 76 in. (84 Optional)
Reel Capacity	0.84 in. dia. Unitrex™ 21,500 ft. 20 mm. dia. anti-twist Steel cable 23,000 ft.
Drive System	Twin 22 in. Bullwheels w/Direct Hydraulic Drive
Drive System Engine	Diesel, 175 Hp, water cooled, with Webasto Artic Pack
Fuel Capacity	12 gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gallon
Hydraulic Fluid Filtration	10 micron, both supply and return filters
Levelwind	Electrically-actuated, automatically-controlled
Operator's Safety Enclosure	Safe-Zone® Cab, fully-enclosed / single door
Frame Construction	Steel tubing
Length (Overall, Nom.)	26 ft. 10 in.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	11 ft. 3 in.
Weight*	42,640 lb. (With 20 mm dia. anti-twist rope)
GVWR	45,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tri-axle
Wheel Configuration & Tires	Per Axle GAWR 15,000 lb. with tires 235/75 R17.5 @ 125 psi
Brakes (Trailer)	Electronic brakes w/anti-lock features
Towing Attachment	3 in. pintle eye, with two safety chains and hooks
Tie Downs	5/8 in. dia. Steel D-Strings (2)
Tongue Jack	Hydraulic, horizontal folding, with shoe
Bumper (SS/CS) Jacks	Hydraulic, vertical column, with shoe (2)
Battery	12 V, 720 CCA, BCI group 93 (2)
Electrical System	Split 12/24 VDC
Lights / Navigation	US DOT, LED, 12 VDC
Work Lights	Cab top floods
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Solar Battery Charger



P-2000X Puller in the field



P-2000X Puller featuring the Safe-Zone® Cab



P-2000X Puller in the field

*Specifications are subject to change



SHERMAN+REILLY®

REVOLUTION SERIES PTV-4807

V-GROOVE PULLER TENSIONER | PULLING CAPACITY 7,000 LB.



- 1 Self-loading reel-stand with remote-control.
- 2 Safe-Zone® cab, fully enclosed, with climate control.
- 3 Automatic levelwind with trim and position control.
- 4 48" Bullwheels, hydraulically driven.
- 5 V-Groove for "wrecking" old conductor.

FEATURES

- Fully Hydraulic/Direct Drive System.
- Elevated operator's Safe-Zone® cab with new control panel layout and an ergonomic design focused on ease of use.
- Newly positioned tie off points allow for quicker line/phase change over and securing of drum-specific pilot lines.
- Digital Controls and Self Diagnostics.
- Can be configured as a truck-mounted or trailered unit.

REVOLUTION SERIES PTV-4807

V-GROOVE PULLER TENSIONER | PULLING CAPACITY 7,000 LB.

Sherman-Reilly.com

SPECIFICATIONS

Maximum Pulling Capacity	7,000 lb. per bullwheel set
Tensioning Capacity	300 - 5,000 lb. per bullwheel set
Max. Line Speed	Pulling: 4 mph.
Bullwheel Size / Count / Grooves	48 in. diameter / 2 (1 pair) / 5 grooves per bullwheel
Groove Radius	1 in. radius
Groove Lining Material	Rubber, machine-groove
Tension Brake	Hydraulic, motor-drive
Brake Control	Hydraulic-applied, automatic, per operator setting
Fail-Safe Brake	Spring-applied, released by hydraulic pressure
Transport Brake	Manually applied brake for transport and parking
Drive System	Direct Drive: hydraulic motor, bullwheel
Engine	74 Hp Diesel DEUTZ, T4 Final
Length (overall, nom.)	26 ft. 4 in.
Width (overall, nom.)	8 ft. 6 in.
Height (overall, nom.)	11 ft. 1 in.
Weight (nom)	25,250 lb.
GVWR	36,320 lb.
Data Logging	Removable/Replaceable Memory Card
Reel Size Capacity	Max: 85 in. OD x 60 in. W Min: 54 in. OD x 46 in. W
Self-Loading Reel	10,000 lb.
PTO Termination	3,500 psi
Skid Mounted Reel Capacities	15,000 lb. for 84 in. drum 14,000 lb. for 60 in. drum 12,000 lb. for 54 in. drum
Hydraulic Fluid	ISO grade 32
Hydraulic Reservoir	20 gallons
Fuel Capacity	12 gallons
Fairlead Rollers (1)	Tension Bottom
Operator's Safety Enclosure	Safe-Zone Cab, Fully enclosed/ Single door
Frame Construction	Steel tubing, continuous-weld
Suspension	Leaf-Spring
Axle Configuration	Tandem, 22,500 lb. per axle (2 total)

Wheel Configuration & Tires	Dual 4540 lb. per wheel, 215 / 75 R 17.5
Brakes	Trailer Air brakes
Towing Attachment	3 in. adjustable pintle eye safety chains 2 ea., with hooks
Bumper (SS/CS) Jacks	Hydraulic, with shoe
Tongue Jack	Hydraulic, with shoe
Electrical System	Split 12/24 VDC
Battery	12 V, 720 CCA, BCI group 93 (2)
Lights / Navigation	US DOT, LED, 12 VDC
Work Lights	Work Site Cab top floods
Tie Downs (4)	4 x 3/4 inches allow shackles (7 ton work load) 2 x 3/4 in. allow shackles (7 ton work load.)"
Grounding (4)	3/4 inch diameter copper-clad steel loops (5) 3/4 in. diameter grounding studs
Deck Cover	Non-slip surface
PLC Machine Control	CAN-Bus Technology
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White





SHERMAN+REILLY®

PTV-6013 PULLER TENSIONER V-GROOVE RECONDUCTORER

13,000 LB. BULLWHEEL PULLER TENSIONER V-GROOVE RECONDUCTORER



- 1** Fully enclosed Safe-Zone® Cab with climate control.
- 2** Self-loading reel carrier with 18,000 lb. capacity.
- 3** 60 in. hydraulically driven bullwheels.
- 4** Adjustable hydraulic jacks.
- 5** Multi-grooved bullwheel with additional single v-groove.

FEATURES

- Puller, tensioner and reconductorer in a single unit.
- Capable of pulling up to 13,000 lb. and tensioning up to 8,000 lb.
- Features a reconductoring v-groove application for “wrecking” old conductor.
- Fully hydraulic direct drive system.
- Equipped with CANbus technology and real-time self diagnostics.
- Automatic levelwind.
- Low end tension function for fiber application.

PTV-6013 PULLER TENSIONER V-GROOVE RECONDUCTORER

13,000 LB. BULLWHEEL PULLER TENSIONER V-GROOVE RECONDUCTORER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity	13,000 lb. per bullwheel set
Tensioning Capacity	8,000 lb. per bullwheel set / Low force mode: min. 500 lb., max. 2,900 lb. / High force mode: min. 1,900 lb., max. 8,000 lb.
Maximum Line Speed	Pulling: 4 mph
Maximum Conductor Reel Weight	Dynamic over the road: 13,500 lb. Static jacks extended: 20,500 lb.
Rope Reel Capacities	96 in. flange, 67 in. width
Reel Shaft Diameter	3.75 in. (opt. adapters for up to 5 in.)
Drive System	Direct drive: hydraulic motor, bullwheel
Drive System Engine	174 Hp diesel, turbo-charged, CAT C4.4 ACERT L4, T4 final with Webasto Arctic Pack
Bullwheels	Nominal Diameter: 60 in. Bottom of Groove Diameter: 59.055 in. Bullwheel Count: 2 (1 pair) Bullwheel Groove Count: 5 per Bullwheel Groove Radius: .906 in. Groove Depth: .512 in. Groove Pitch: 1.772 in. Groove Lining: Molded neoprene V-Groove Max. Capacity: 2 in. V-Groove Min. Capacity: 5/8 in.
Hardline	17,000 ft. of 20 mm Anti-Twist Steel Cable / 17,800 lb. total weight
Rope	17,500 ft. of .84 in. Unitrex / 17,800 lb. total weight
Tension Brake	Hydraulic, motor-driven
Brake Control	Hydraulic-applied, automatic, per operator setting
Fuel Capacity	12 gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gallon
Fail-Safe Brake: Bullwheel / V-Groove	Spring-applied, released by hydraulic pressure
Fairlead Rollers	Reel levelwind, bullwheel, v-groove
Operator's Safety Enclosure	Safe-Zone® Cab, fully enclosed / single door
Frame Construction	Steel, continuous-weld
Length (Overall, Nom.)	27 ft. 9 in.
Width (Overall, Nom.)	8 ft. 6 in.

Height (Overall, Nom.)	12 ft. 3 in.
Weight*	27,886 lb.
GVWR	50,000 lb.
Suspension	Leaf-spring
Axle Configuration, Per Axle GAWR	2 - tandem axles, 22,700 lb. per axle
Wheel Configuration & Tires	Dual, 6,000 lb. per wheel, 235/75 R 17.5 @125 psi
Brakes (Trailer)	Air brakes
Towing Attachment	3 in. adjustable pintle eye
Tie Downs	3/4 in. dia. D Ring, 7-ton capacity ea. (4)
Tie Off Points	3/4 in. dia. D Ring, 7-ton capacity ea. (4)
Bumper (SS/CS) Jacks	Hydraulic, with shoe (2)
Tongue Jack	Hydraulic, with shoe
Electrical System	Split 12/24 VDC
Battery	2 - 12 V, 720 CCA, BCI group 93
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White
Safety Chains	2 - with hooks
Electrical System	Split 12/24 VDC
Lights, Work Site	Cab top floods
Deck Cover	Non-slip surface
PLC Machine Control	CANbus technology
Data Logging	Removable / replaceable memory card
PTO – Termination	10,000 PSI
Reel Stand Hydraulics	3,000 PSI

OPTIONS

Solar Battery Charger
Galvanized Finish

*Specifications are subject to change



SHERMAN+REILLY®

PTR-7230 | PTR-7230S PULLER TENSIONER RECONDUCTORER

30,000 LB. BULLWHEEL PULLER TENSIONER RECONDUCTORER

PTR-7230



PTR-7230S SPLIT MODEL



- 1 Fully enclosed Safe-Zone® Cab with climate control.
- 2 Horizontal automatic levelwind and fairlead.
- 3 84 in. rope reel with optional 25,000 ft. Unitrex™ synthetic rope.
- 4 Split model unit offers the reel carrying trailer in a separate unit.

FEATURES

- Puller, tensioner, and reconductor in a single unit.
- Capable of pulling up to 30,000 lb. and tensioning up to 25,000 lb.
- Fully hydraulic direct drive system.
- Equipped with CANbus technology and real-time self diagnostics.
- Allows for synchronized integration of external reel stands.

The PTR-7230S split model unit is a puller tensioner and reconductor in a paired unit.

- Available in both 5th wheel and pintle towing configurations.
- Separated reel carrying trailer includes a pulling drum designed for synthetic rope or steel hardline.
- Reduced equipment footprint for storage purposes.
- Minimizes operating space in the field.

PTR-7230 | PTR-7230S PULLER TENSIONER RECONDUCTORER

30,000 LB. BULLWHEEL PULLER TENSIONER RECONDUCTORER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity	30,000 lb.
Tensioning Capacity	25,000 lb.
Maximum Line Speed	Pulling: 4 mph. @ 16,000 lb. / 2.3 mph @ 30,000 lb.
Hardline	20 mm. dia. Anti-Twist Steel Cable / 24,250 ft. on 84 in. Reel / 29,102 lb. Total Weight Rope: 26,000 ft. of 0.84 in. dia. Unitrex rope / 10,200 lb. total weight
Rope Reel Dimensions	84 in. Diameter / 60 in. Width / 3,832 lb. Weight (Empty) (Opt.) 112 in. Diameter / 60 in. Width / 5,173 lb. Weight (Empty)
Drive System	Direct drive, hydraulic motor, bullwheel
Drive System Engine	Turbocharged, diesel, 268 Hp, water-cooled with Webasto Arctic Pack
Bullwheels	72 in. / 8 Groove 1-3/16 in. Groove Radius / Molded Neoprene / Replaceable
Tension Brake	Hydraulic-applied, automatically controlled-per operating settings
Fuel Capacity	35 gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gallon
Hydraulic Fluid Filtration	25 microns, two in tank return filters, and one pump filter (3)

Levelwind	Hydraulically driven, automatically controlled
Fail-Safe Brake	Spring-applied-released by hydraulic pressure
Fairlead Rollers	Single, hydraulically driven, automatically controlled, remotely adjustable
Operator's Safety Enclosure	Safe-Zone® Cab, fully enclosed, dual door, climate controlled
Frame Construction	Steel, continuous-weld
Bumper (SS/CS) Jacks	Hydraulic, with shoe (2)
Tongue Jacks	Hydraulic, vertical cylinder type, with shoe (2)
Electrical System	Split 12/24 VDC
Battery	(2) 12 V, 720 CCA, BCI group 93
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard (2 per trailer with the split model)
Fire Extinguisher	ABC (2 per trailer with the split model)
Color	S+R White
Reel Shaft Diameter	3-5/8 in.

OPTIONS

Solar Battery Charger

	PTR-7230	PTR-7230S Split Model	PTR-7230S Pintle Eye	RC3000X Reel Trailer	RC2500X Reel Trailer
Length (Overall, Nom.)	48 ft.	34 ft. 6 in.	30 ft. 9 in.	23 ft.	21 ft. 10 in.
Width (Overall, Nom.)	8 ft. 6 in.	8 ft. 6 in.	8 ft. 6 in.	8 ft. 6 in.	8 ft. 6 in.
Height (Overall, Nom.)	12 ft. 2 in.	12 ft. 4 in.	11 ft.	9 ft. 10 in.	12 ft. 4 in.
GVWR	67,260 lb.	65,200 lb.	37,020 lb.	58,527 lb.	58,527 lb.
Suspension	Air Ride	Air Ride	Air Ride	Air Ride	Air Ride
Axle Configuration	Tandem	Tandem	Tandem	Tandem	Tandem
Wheel Configuration & Tires	Dual 275/70R22.5	Dual 275/70R22.5	Dual 275/70R22.5	Dual 275/70R22.5	Dual 275/70R22.5
Brakes (Trailer)	Air	Air	Air	Air	Air
Towing Attachment	5th Wheel, 2 in. king pin	5th Wheel, 2 in. king pin	3 in. pintle eye	5th Wheel, 2 in. king pin	3 in. pintle eye
Tie Downs (Per Trailer)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (2)
Rope Tie-Offs (Per Trailer)	1 in. dia. steel D-Rings (2)	1 in. dia. steel D-Rings (2)	1 in. dia. steel D-Rings (2)	1 in. dia. steel D-Rings (3)	1 in. dia. steel D-Rings (2)
Grounding (Per Trailer)	3/4 in. dia. Copper-clad Steel ground loops (6)	3/4 in. dia. Copper-clad Steel ground loops (4)	3/4 in. dia. Copper-clad Steel ground loops (4)	3/4 in. dia. Copper-clad Steel ground loops (4)	3/4 in. dia. Copper-clad Steel ground loops (4)
Maximum Reel Size	112 in. dia. 60 in. width	N/A	N/A	112 in. dia. 50 in. width	112 in. dia. 60 in. width
Maximum Static Reel Weighted Capacity	30,000 lb. with Reel	N/A	N/A	30,000 lb. with Reel	25,000 lb. with Reel
Maximum Transport Reel Weighted Capacity	10,500 lb. with Reel	N/A	N/A	10,500 lb. with Reel	10,500 lb. with Reel

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*Specifications are subject to change



SHERMAN+REILLY®

PTR-7240 | PTR-7240S PULLER TENSIONER RECONDUCTORER

40,000 LB. BULLWHEEL PULLER TENSIONER RECONDUCTORER

PTR-7240



PTR-7240S SPLIT MODEL



- 1 Fully enclosed Safe-Zone® Cab with climate control.
- 2 Horizontal automatic levelwind and fairlead.
- 3 112 in. rope reel with optional 30,000 ft. Unitrex™ synthetic rope.
- 4 The split model unit offers the reel carrying trailer in a separate unit.

FEATURES

- Puller, tensioner and reconductorer in a single unit.
- Capable of pulling up to 40,000 lb. and tensioning up to 25,000 lb.
- Fully hydraulic direct drive system.
- Equipped with CANbus technology and real-time self diagnostics.
- Allows for synchronized integration of external reel stands.

The PTR-7240S split model unit is a puller tensioner and reconductorer in a paired unit.

- Separated reel carrying trailer includes a pulling drum designed for synthetic rope or steel hardline.
- Reduced equipment footprint for storage purposes.
- Minimizes operating space in the field.

PTR-7240 | PTR-7240S PULLER TENSIONER RECONDUCTORER

40,000 LB. BULLWHEEL PULLER TENSIONER RECONDUCTORER

Sherman-Reilly.com

SPECIFICATIONS

Pulling Capacity	40,000 lb.
Tensioning Capacity	25,000 lb.
Maximum Line Speed	Pulling: 4 mph. @ 16,000 lb. / 2.3 mph @ 30,000 lb.
Hardline Capacity (Maximum)	24 mm. dia. Anti-Twist Steel Cable / 20,646 ft. on 112 in. Reel / 29,999 lb. total weight
Rope	30,000 ft. of 1.15 in. dia. Unitrex / 17,750 lb. total weight
Drive System	Direct Drive: hydraulic motor, bullwheel
Drive System Engine	Turbo charged, diesel, 268 Hp, water-cooled with Webasto Arctic Pack
Bullwheels	(2) 72 in. / 8 Groove 1-3/16 in. Groove Radius / Molded Neoprene / Replaceable
Fuel Capacity	35 Gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 Gallon
Hydraulic Fluid Filtration	25 microns, two in tank returns filters
Tensioning Brake	Hydraulic-applied, automatically controlled- per operator settings
Levelwind	Hydraulically driven, automatically controlled

Fail-Safe Brake	Spring-applied-released by hydraulic pressure
Fairlead Rollers	Single, hydraulically driven, automatically controlled, remotely adjustable
Operator's Safety Enclosure	Safe-Zone® Cab, fully enclosed, dual door, climate controlled
Frame Construction	Steel, continuous-weld
Bumper (SS/CS) Jacks	Hydraulic, with shoe (2)
Tongue Jacks	Hydraulic, vertical cylinder type, with shoe (2)
Battery	12 V, 720 CCA, BCI group 93 (2)
Lights / Navigation	US DOT, LED, 12 VDC
Fire Extinguisher	ABC
Color	S+R White
Electrical System	Split 12/24 VDC
Reel Trailer Jack Power	13 Hp Engine, hydraulic pump/ reservoir
Reel Shaft Diameter	3 -5/8 in.

OPTIONS

Solar Battery Charger

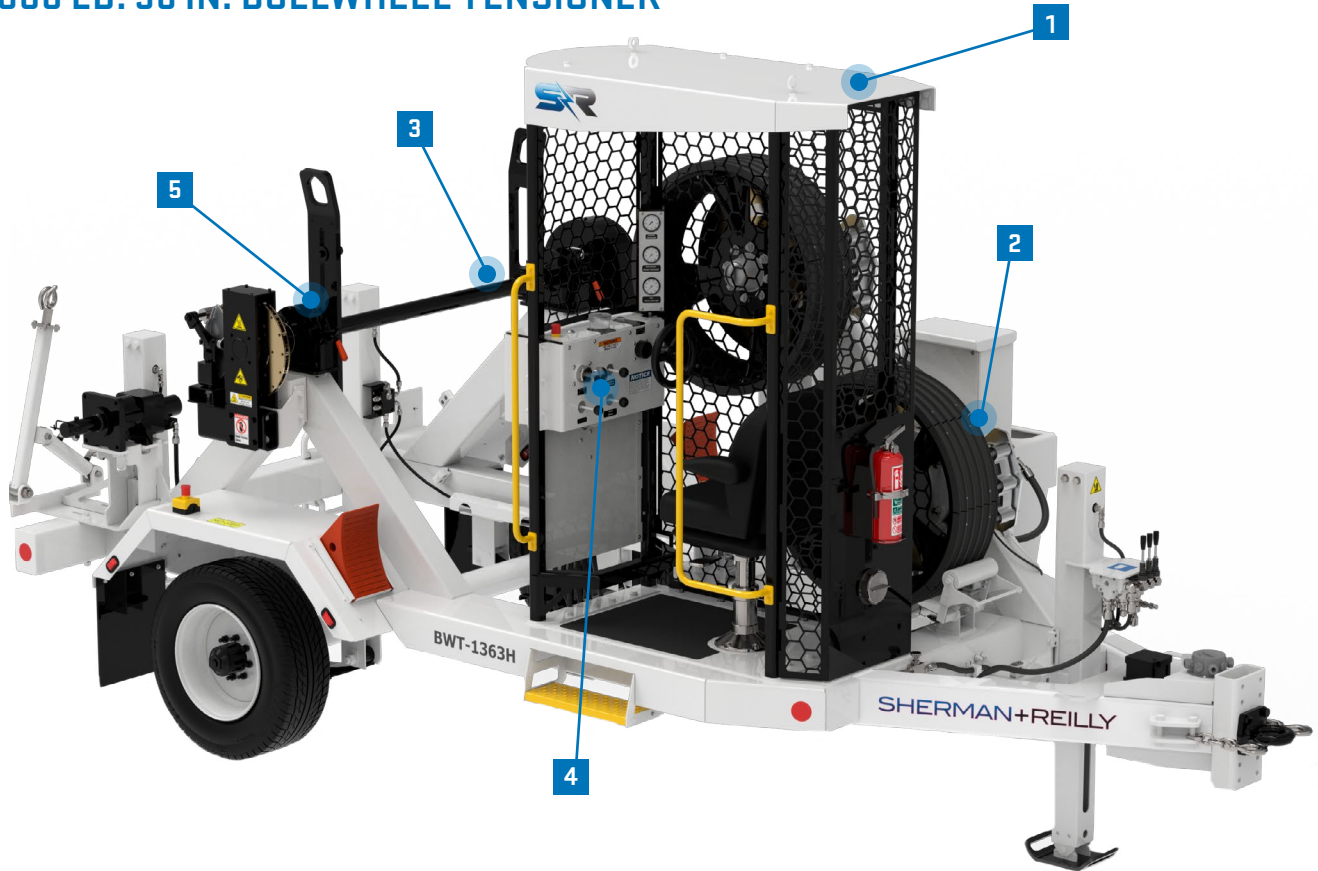
	PTR-7240	PTR-7240S Split Model	RC3000X Reel Trailer
Length (Overall, Nom.)	48 ft.	34 ft. 6 in.	23 ft.
Width (Overall, Nom.)	8 ft. 6 in.	8 ft. 6 in.	8 ft. 6 in.
Height (Overall, Nom.)	12 ft. 2 in.	12 ft. 4 in.	9 ft. 10 in.
GVWR	67,260 lb.	65,200 lb.	58,527 lb.
Suspension	Air Ride	Air Ride	Air Ride
Axle Configuration	Tandem	Tandem	Tandem
Wheel Configuration & Tires	Dual 275/70R22.5	Dual 275/70R22.5	Dual 275/70R22.5
Brakes (Trailer)	Air	Air	Air
Towing Attachment	5th Wheel, 2 in. king pin	5th Wheel, 2 in. king pin	5th Wheel, 2 in. king pin
Tie Downs (Per Trailer)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (2)
Rope Tie-Offs (Per Trailer)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (2)	1 in. dia. Steel D-Rings (3)
Grounding (Per Trailer)	3/4 in. dia. Copper-clad Steel ground loops (6)	3/4 in. dia. Copper-clad Steel ground loops (4)	3/4 in. dia. Copper-clad Steel ground loops (4)
Maximum Reel Size	112 in. dia. 60 in. width	N/A	112 in. dia. 60 in. width
Maximum Reel Weight* Capacity Static	30,000 lb. with Reel	N/A	30,000 lb. with Reel
Maximum Transport Reel Weighted Capacity	10,500 lb.	N/A	10,500 lb.



SHERMAN+REILLY®

BWT-1363H HERITAGE TENSIONER

3,000 LB. 36 IN. BULLWHEEL TENSIONER



- 1 Safe-Zone® enclosure with Ocu-View™.
- 2 A set of 36 in. five-groove bullwheels with bolt-on cast linings.
- 3 Integrated reel carrier.
- 4 All stringing operations controlled from the safety of the Safe-Zone® enclosure.
- 5 Seamless reel change with Sherman + Reilly's pillow block bearing support.

FEATURES

- Tensioning capacity of 3,000 lb. for power in a compact configuration.
- Reel carrier accommodates reels up to 72 in. OD x 44.5 in. W and 6,500 lb.
- Two conductor keeper assemblies.
- Offset bullwheels and adjustable fairlead supports both LH and RH lay conductor.
- Available with hydraulic power pack for reel control, spider rewind, and hydraulic jack control.
- Also available with Pilot Line Spider® System (*pictured*).

BWT-1363H HERITAGE TENSIONER

3,000 LB. 36 IN. BULLWHEEL TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Tensioning Capacity	3,000 lb.
Maximum Line Speed	4 mph
Maximum Conductor Reel Size	72 in. OD x 44.5 in. wide
Maximum Conductor Reel Weight*	Dynamic over the road: 6,500 lb. Static jacks extended: 6,500 lb.
Reel Shaft Diameter	2.625 in.
Reel Supports	Sealed Ball Bearing, Quick Release
Payout Brake	16 in. diameter disc, bronze
Bullwheels	Nominal Diameter: 36 in. Bullwheel Count: 2 ea. Bullwheel Groove Count: 5 per Bullwheel Groove Lining: Replaceable Groove Radius: .75 in. Groove Flare Angle: 15° Groove Depth: .75 in. Bottom of Groove Diameter: 33.98 in.
Tension Brake	27.75 in. diameter disc, bronze
Brake Control	3-axis caliper, manual Hydraulic, operated from Safe-Zone® enclosure
Fairlead Rollers	Supports LH and RH Lay
Operator's Safety Enclosure	Open-air Safe-Zone® enclosure
Frame Construction	Steel tubing
Length (Overall, Nom.)	17 ft.
Width (Overall, Nom.)	8 ft.
Height (Overall, Nom., Empty)	9 ft. 6 in.
Weight (Nom.)*	6,500 lb.
GVWR*	13,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single Axle - Single Wheel
Per Axle GAWR	12,000 lb. with tires 235/75R17.5 @ 125 psi
Brakes (Trailer)	Electric, with safety break-away switch
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 each, with hooks
Bumper (SS/CS) Jacks	Manual drop and pin (2)
Tongue Jack	Manual 2-speed crank jack
Electrical System	Split 12 VDC

Backup Battery	12V
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	1 in. grounding stud (1) Grade 5H
Deck Cover	Non-slip Surface
Wheel Chocks	Standard (2)
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Full vinyl cover
Bullwheel only cover
Payout brake cover
PowerPack option including hydraulic jacks, hydraulic retriever, and Spider® Pilot Line System with independent levelwind. *Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.
PowerPack option including hydraulic jacks, and hydraulic retriever. *Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.
Air Brakes
Galvanized Finish Available
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
12 V solar battery charger



BWT-1363H cab interior.

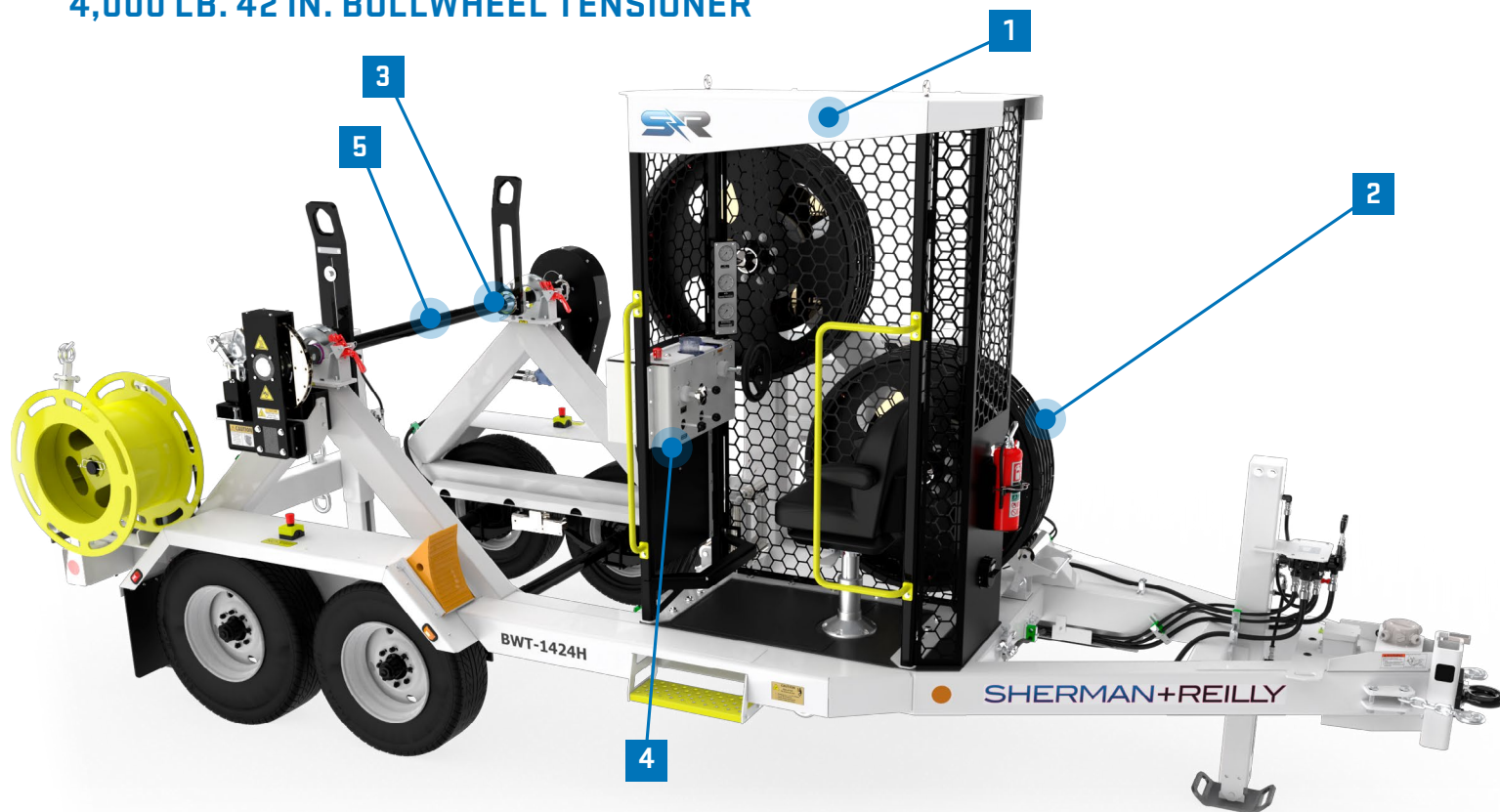
*Specifications are subject to change



SHERMAN+REILLY®

BWT-1424H HERITAGE BULLWHEEL TENSIONER

4,000 LB. 42 IN. BULLWHEEL TENSIONER



- 1 Safe-Zone® enclosure with Ocu-View™.
- 2 A set of 42 in. five-groove bullwheels with bolt-on cast linings.
- 3 Integrated reel carrier.
- 4 All stringing operations controlled from the safety of the Safe-Zone® enclosure.
- 5 Seamless reel change with Sherman+Reilly's pillow block bearing support

FEATURES

- Tensioning capacity of 4,000 lb.
- Reel carrier accommodates reels up to 84 in. OD x 52 in. W and 8,000 lb.
- Two conductor keeper assemblies.
- Offset bullwheels and adjustable fairlead supports both LH and RH lay conductor.
- Supports IEEE 524 requirements for conductors that range from 4/0 AWG to 795 kcmil.
- Available with hydraulic power pack for reel control, spider rewind, and hydraulic jack control.
- Also available with Pilot Line Spider® System (pictured).

BWT-1424H HERITAGE BULLWHEEL TENSIONER

4,000 LB. 42 IN. BULLWHEEL TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Tensioning Capacity	4,000 lb.
Maximum Line Speed	4 mph
Maximum Conductor Reel Size	84 in. OD x 52 in. wide
Maximum Conductor Reel Weight*	Dynamic over the road 8,000 lb. Static jacks extended 8,000 lb.
Reel Shaft Diameter	2.625 in.
Reel Supports	Sealed Ball Bearing, Quick Release
Payout Brake	16 in. diameter disc, bronze
Bullwheels	Nominal Diameter: 42 in. Bullwheel Count: 2 Bullwheel Groove Count: 5 per Bullwheel Groove Lining: Replaceable Groove Radius: .6 in. Groove Flare Angle: 12° Groove Depth: .6 in. Bottom of Groove Diameter: 40.73 in.
Tension Brake	27.75 in. diameter disc, bronze
Brake Control	3-axis caliper, manual Hydraulic, operated from Safe-Zone® enclosure
Fairlead Rollers	Supports LH and RH Lay
Operator's Safety Enclosure	Open-air Safe-Zone® enclosure
Frame Construction	Steel tubing, continuous-weld
Length (Overall, Nom.)	20 ft.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom., Empty)	9 ft. 6 in.
Weight (Nom.)*	7,000 lb.
GVWR*	15,500 lb*
Suspension	Leaf-spring
Axle Configuration	Tandem - Single Wheel
Per Axle GAWR	7,000 lb. with tires 235/80R16 @ 80 psi
Brakes (Trailer)	Electric, with safety break-away switch
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 each, with hooks
Bumper (SS/CS) Jacks	Manual drop and pin (2)
Tongue Jack	Manual 2-speed crank jack
Electrical System	Split 12 VDC
Backup Battery	12V

Lights / Navigation	US DOT, LED, 12 VDC
Grounding	1 in. grounding stud (1) Grade 5H
Deck Cover	Non-slip surface
Wheel Chocks	Standard (2)
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Full vinyl cover
Bullwheel only cover
Payout brake cover
PowerPack option includes hydraulic jacks, and hydraulic retriever. *Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.
PowerPack option includes hydraulic jacks, hydraulic retriever, and Spider® Pilot Line System with independent levelwind. Spider® Pilot Line System with independent levelwind, S-75 or-85 spider reels with 3,000 ft. or 6,000 ft. Spider Rewind Performance: Min. 10,000 IN*LB (1,000 LB of line tension at 20 IN diameter). *Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.
Galvanized Finish Available
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
12 V solar battery charger

EXPERIENCE THE DIFFERENCE

CONTACT OUR TEAM FOR A PRODUCT DEMO

(423) 756-5300 or
sales@sherman-reilly.com

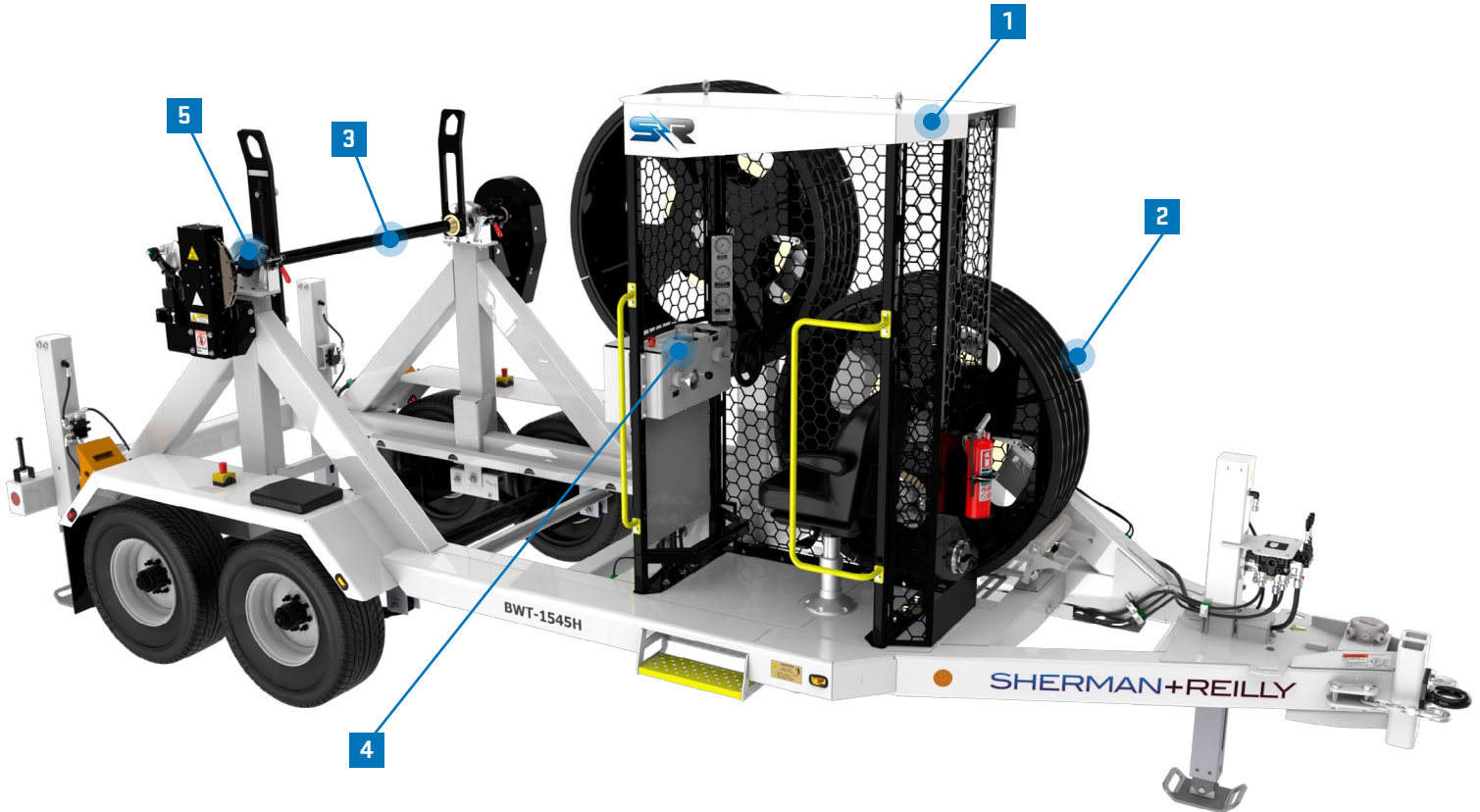
*Specifications are subject to change



SHERMAN+REILLY®

BWT-1545H HERITAGE BULLWHEEL TENSIONER

5,000 LB. 54 IN. BULLWHEEL TENSIONER



- 1 Safe-Zone® enclosure with Ocu-View™.
- 2 A set of 54 in. five-groove bullwheels with bolt-on cast linings.
- 3 Integrated reel carrier.
- 4 All stringing operations controlled from the safety of the Safe-Zone® enclosure.
- 5 Seamless reel change with Sherman + Reilly's pillow block bearing support.

FEATURES

- Tensioning capacity of 5,000 lb.
- Reel carrier accommodates reels up to 96 in. OD x 54 in. W and 12,000 lb.
 - ideal for larger conductors.
- Two conductor keeper assemblies.
- Offset bullwheels and adjustable fairlead supports both LH and RH lay conductor.
- Available with hydraulic power pack for reel control and hydraulic jack control.

BWT-1545H HERITAGE BULLWHEEL TENSIONER

5,000 LB. 54 IN. BULLWHEEL TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Tensioning Capacity	5,000 lb.
Maximum Line Speed	4 mph
Maximum Conductor Reel Size	96 in. OD x 54 in. wide
Maximum Conductor Reel Weight*	Dynamic over the road: 12,000 lb. Static jacks extended: 12,000 lb.
Reel Shaft Diameter	2.625 in.
Reel Supports	Sealed Ball Bearing, Quick Release
Payout Brake	16 in. diameter disc, bronze
Bullwheels	Nominal Diameter: 54 in. Bullwheel Count: 2 ea. Bullwheel Groove Count: 5 per Bullwheel Groove Lining: Replaceable Groove Radius: 1 in. Groove Flare Angle: 15° Groove Depth: 1.13 in. Bottom of Groove Diameter: 51.75 in.
Tension Brake	27.75 in. diameter disc, bronze
Brake Control	3-axis caliper, manual Hydraulic, operated from Safe-Zone® enclosure
Fairlead Rollers	Supports LH and RH Lay
Operator's Safety Enclosure	Open-air Safe-Zone® enclosure
Frame Construction	Steel tubing
Length (Overall, Nom.)	23 ft.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	10 ft. Loaded with 96 in. Reel
Weight (Nom.)*	9,000 lb.
GVWR*	24,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem - Single Wheel
Per Axle GAWR	12,000 lb. with tires 235/75R-17.5 @ 125 psi
Brakes (Trailer)	Electric, with safety break-away switch
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 each, with hooks
Bumper (SS/CS) Jacks	Manual drop and pin (2)
Tongue Jack	Manual 2-speed crank jack
Electrical System	Split 12 VDC
Backup Battery	12V

Lights / Navigation	US DOT, LED, 12 VDC
Grounding	1 in. grounding stud (1) Grade 5H
Deck Cover	Non-slip Surface
Wheel Chocks	Standard (2)
Fire Extinguisher	ABC
Color	S+R White

OPTIONS

Full vinyl cover
Bullwheel only cover
Payout brake cover
PowerPack option includes hydraulic jacks, hydraulic retriever. *Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.
Air Brakes
Galvanized Finish Available
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
12 V solar battery charger



BWT-1545H side view

*Specifications are subject to change



SHERMAN+REILLY®

WB 1500/2.5 Z365

PERFORMANCE IN PULLING MODE

- Max. pulling force.....5,600 lbf
- Max. speed.....5 mph
- Max. speed with max. pulling force.....1.9 mph

PERFORMANCE IN TENSIONING MODE

- Max. tensioning force.....5,600 lbf
- Max. speed with max. tensioning force.....5 mph
- Min. tensioning force ATS.....560 lbf

BULL WHEEL

- Number.....2
- Diameter.....59 1/16 in
- Groove Ø.....1 3/4 in
- Number of conductors.....1

DIMENSIONS | WEIGHT

- Length x width x height approx.....197 x 75 x 106 in
- Weight.....6,160 lb.



KEY FACTS

- Completely electronically controlled puller-tensioner for 1 conductor with 2 bull wheels (Ø 59 1/16 in), with a groove diameter 1 3/4 in and a max. pulling and tensioning force of 5,600 lbf.

ENGINE

- Max. 75 Hp (55 kW), Tier-4 Final.
- Liquid-cooled diesel engine with electronic rpm-control.
- 24-V system with high capacity battery.

DRIVING SYSTEM

- Each bull wheel with planetary gear and hydraulic motor as completely enclosed drive unit (highly efficient, minimal maintenance).
- Each bull wheel with an automatically activated safety brake.
- Hydraulic system with quick-action screw couplings to control one drum stand.

CONTROL SYSTEM

- Radio remote control with display.
- ATS, Automatic Tensioning System.
- PLC control for optimized productivity and safety.
- Clearly arranged control panel with color display for supervision of pulling and tensioning force as well as hydraulic, drive, and electric system with an intelligent diagnosis and fault recognition system.
- ZECK Stringing Data Record System with USB port.
- Automatic hydraulic oil cooling system.
- Adjustable overload protection.

EQUIPMENT

- 1-axle chassis with suspended axle, electric brake, lighting and mudguard; DOT trailer.
- Lockable aluminum cover (chequer plate).
- Acoustic insulation.
- Back support via robust mechanical support legs.
- Front support via robust mechanical support winch.
- Automatic rope/conductor clamping.

OPTIONAL EQUIPMENT

- Precleaner for engine air filter.
- Printer for ZECK Stringing Data Record System.
- Remote diagnosis via GSM network with GPS modem.
- Hydraulic system (700/1,000 bar) to power pressing tool.
- Biodegradable hydraulic oil.
- Aluminum cover, color as per RAL color table.

Special designs on request





WB 1500/5 Z375 (134 HP)

PERFORMANCE IN PULLING MODE

- Max. pulling force..... 11,240 lbf
- Max. speed..... 4.2 mph
- Max. speed with max. pulling force 2.2 mph

PERFORMANCE IN TENSIONING MODE

- Max. tensioning force..... 11,240 lbf
- Max. speed with max. tensioning force..... 4.2 mph
- Min. tensioning force ATS 1,570 lbf
 - SLTS approx..... 330 lbf

BULL WHEEL

- Number..... 2
- Diameter..... 59 1/16 in
- Groove Ø 1 3/4 in
- Number of conductors..... 1
 - Optional..... 2

DIMENSIONS | WEIGHT

- Length x width x height approx..... 229 x 90 x 98 in
- Weight..... 10,340 lb

KEY FACTS

- Completely electronically controlled puller-tensioner for 1 conductor with 2 bull wheels (Ø 59 1/16 in), with a groove diameter 1 3/4 in and a max. pulling and tensioning force of 11,240 lbf.

ENGINE

- Max. 134 Hp, Tier-4 Final.
- Liquid-cooled diesel engine with electronic rpm-control.
- 24-V system with high capacity battery.

DRIVING SYSTEM

- Each bull wheel with planetary gear and hydraulic motor as completely enclosed drive unit (highly efficient, minimal maintenance).
- Each bull wheel with an automatically activated safety brake.
- Hydraulic system with quick-action screw couplings to control one drum stand.

CONTROL SYSTEM

- Radio remote control with display.
- ATS, Automatic Tensioning System.
- PLC control for optimized productivity and safety.
- Clearly arranged control panel with color display for supervision of pulling and tensioning force as well as hydraulic, drive, and electric system with an intelligent diagnosis and fault recognition system.
- ZECK Stringing Data Record System with USB port.
- Automatic hydraulic oil cooling system.
- Adjustable overload protection.

EQUIPMENT

- 1-axle chassis with suspended axle, electric brake, lighting and mudguard; DOT trailer.
- Lockable aluminum cover (chequer plate).
- Acoustic insulation.
- Back support via robust mechanical support legs.
- Front support via robust mechanical support winch.
- Automatic rope/conductor clamping.

OPTIONAL EQUIPMENT

- Precleaner for engine air filter.
- Printer for ZECK Stringing Data Record System.
- Remote diagnosis via GSM network with GPS modem.
- Hydraulic system (700/1,000 bar) to power pressing tool.

Special designs on request





SHERMAN+REILLY®

PULLER-TENSIONER WB 1500/9+4.5 Z359

PERFORMANCE IN PULLING MODE

- Max. pulling force.....2 x 10,150 lbf OR 20,300 lbf
- Max. speed.....3.75 mph
- Max. speed with max. pulling force1.2 mph

PERFORMANCE IN TENSIONING MODE

- Max. tensioning force.....2 x 10,120 lb. OR 1 x 20,240 lb.
- Max. speed with max. tensioning force.....3.7 mph
- Min. tensioning force ATS | SLTS approx.2 x 10,150 lbf

BULL WHEEL

- Number.....4 (2 x 2)
- Diameter.....59 1/16 in
- Groove Ø.....1.97 in
- Number of conductors.....up to 2 (1 + 1)

DIMENSIONS | WEIGHT

- Length x width x height approx.....250 x 90 x 122 in
- Weight.....18,700 lb.



KEY FACTS

- Completely electronically controlled puller-tensioner for up to 2 (1 + 1) conductors with 4 (2 x 2) bull wheels (Ø 59 1/16), with a groove diameter 1.97 in and a max. pulling and tensioning force of 2 x 10,150 lbf or 1 x 20,300 lbf.
- Each bull wheel can be controlled individually.

ENGINE

- Max. 136 Hp, Tier-4 Final.
- Liquid-cooled diesel engine with electronic rpm-control.
- 24-V system with high capacity battery.

DRIVING SYSTEM

- Each bull wheel with planetary gear and hydraulic motor as completely enclosed drive unit (highly efficient, minimal maintenance).
- Each bull wheel with an automatically activated safety brake.
- Hydraulic system with quick-action screw couplings to control 2 drum stands.

CONTROL SYSTEM

- Radio remote control with display.
- ATS, Automatic Tensioning System.
- PLC control for optimized productivity and safety.
- Clearly arranged control panel with color display for supervision of pulling and tensioning force as well as hydraulic, drive, and electric system with an intelligent diagnosis and fault recognition system.
- ZECK Stringing Data Record System with USB port.
- Automatic hydraulic oil cooling system.
- Adjustable overload protection.

EQUIPMENT

- 2-axle chassis with suspended axle, electric brake, lighting and mudguard; DOT trailer.
- Lockable aluminum cover (chequer plate).
- Acoustic insulation.
- Back support via robust hydraulic sprag.
- Front support via robust hydraulic support.
- Automatic rope/conductor clamping.

OPTIONAL EQUIPMENT

- Precleaner for engine air filter.
- Printer for ZECK Stringing Data Record System.
- Remote diagnosis via GSM network with GPS modem.
- Hydraulic system (700/1,000 bar) to power pressing tool.
- Synchronisation system (multi machine operation).
- Lockable toolbox.
- Holding fixture for hose kit.
- Arctic Kit with preheating system for up to -22°F.
- Biodegradable hydraulic oil.
- Aluminum cover, color as per RAL color table.

Special designs on request



PULLER-TENSIONER WB 1800/14+7 Z366

PERFORMANCE IN PULLING MODE

- Max. pulling force..... 2 x 15,750 lbf OR 1 x 31,500 lbf
- Max. speed..... 4 mph
- Max. speed with max. pulling force 1.75 mph

PERFORMANCE IN TENSIONING MODE

- Max. tensioning force..... 2 x 15,750 lbf OR 1 x 31,500 lbf
- Max. speed with max. tensioning force..... 4 mph
- Min. tensioning force ATS | SLTS approx.
 - 3,300 lbf - 1,574 lbf
 - 450 lbf - 330 lbf
 - (31,500 lbf - (15,750 lbf
 - bull wheels) bull wheels)

BULL WHEEL

- Number..... 4 (2 x 2)
- Diameter..... 71 in
- Groove Ø 2.36 in
- Number of conductors..... up to 2 (1 + 1)

DIMENSIONS | WEIGHT

- Length x width x height approx..... 297 x 94 x 134 in
- Weight..... 29,700 lb.



KEY FACTS

- Completely electronically controlled puller-tensioner for up to 2 (1 + 1) conductors with 4 (2 x 2) bull wheels (71 in), with groove diameter 2.36 in and max. pulling and tensioning force of 2 x 15,750 lbf or 1 x 31,500 lbf.
- Each bull wheel can be controlled individually.

ENGINE

- Max. 275 Hp, Tier-4 Final.
- Liquid-cooled diesel engine with electronic rpm-control.
- 24-V system with high capacity battery.

DRIVING SYSTEM

- Each bull wheel with planetary gear and hydraulic motor as completely enclosed drive unit (highly efficient, minimal maintenance).
- Each bull wheel with an automatically activated safety brake.
- Hydraulic system with quick-action screw couplings to individually control 2 drum stands.

CONTROL SYSTEM

- Radio remote control with display.
- ATS, Automatic Tensioning System.
- PLC control for optimized productivity and safety.
- Clearly arranged control panel with color display for supervision of pulling and tensioning force as well as hydraulic, drive, and electric system with an intelligent diagnosis and fault recognition system.
- ZECK Stringing Data Record System with USB port.
- Automatic hydraulic oil cooling system.
- Adjustable overload protection.

EQUIPMENT

- 2-axle chassis with suspended axle, air brake, lighting and mudguard; DOT trailer.
- Working platform with railing.
- Lockable aluminum cover (chequer plate).
- Acoustic insulation.
- Back support via robust hydraulic sprag.
- Front support via robust hydraulic support.
- Automatic rope/conductor clamping.

OPTIONAL EQUIPMENT

- Precleaner for engine air filter.
- Printer for ZECK Stringing Data Record System.
- Remote diagnosis via GSM network with GPS modem.
- Hydraulic system (700/1,000 bar) to power the press tool.
- Synchronisation system (multi machine operation).
- SLTS, Smart Low Tensioning System (machine can be used in stringing operations with low tensioning force, e.g. OPGW).
- Arctic Kit with preheating system for up to -22°F.
- Biodegradable hydraulic oil.
- Aluminum cover, color as per RAL color table.

Special designs on request





SHERMAN+REILLY®

T-1608 BULLWHEEL TENSIONER

ONE CONDUCTOR 8,000 LB. 60 IN. BULLWHEEL TENSIONER



- 1** Automatic tensioning system with sag assist.
- 2** Open center hydraulic configuration, optimized for low-force tensioning.
- 3** Frame-mounted tool box.
- 4** Fully enclosed Safe-Zone® Cab with climate control.
- 5** Reel stand integration.

FEATURES

- A set of 60 in. 5-groove bullwheels capable of tensioning and pullback up to 8,000 lb.
- Low-tension mode allows for fiber optic tensioning.
- Synchronized tensioning – designed to work with up to three compatible tensioners.
- Equipped with CANbus technology.
- Hydraulically controls one reel stand.
- Standard arctic kit for extremely cold weather.
- 8,000 lb. of pullback to assist with sagging.
- Canted bullwheels for T2 conductor.

T-1608 BULLWHEEL TENSIONER

ONE CONDUCTOR 8,000 LB. 60 IN. BULLWHEEL TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Tensioning Capacity	Min. 600 lb., max: 8,000 lb.
Maximum Line Speed	4 mph
Controls	Digital with real-time tension monitoring and recording
Drive System	Direct Drive: hydraulic motor, bullwheel
Drive System Engine	Hydraulic with Webasto Arctic Pack
Bullwheels	Core Diameter: 60 in. Count: 2 Groove Count: 5 Groove Radius: 1 in. Groove Lining: Polyurethane Bottom of Groove: 57.75 in. dia.
Tension Brake	Hydraulic, motor-driven
Brake Control	Automatic, per operator setting
Engine	72 Hp, Water-Cooled, Deutz TD2.9 L4, T4 Final
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gallon
Fuel Capacity	13.7 gallon
Fail-Safe Brake	Spring-applied, released by hydraulic pressure
Fairlead Rollers	Front (1) and Rear (1)
Operator's Safety Enclosure	Safe-Zone® Cab, fully-enclosed / single door
Frame Construction	Steel tubing
Length (Overall, Nom.)	22 ft. 4 in.
Width (Overall, Nom.)	8 ft. 2 in.
Height (Overall, Nom.)	11 ft. 3 in.
Weight*	15,000 lb.
GVWR	16,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Configuration & Tires	Single, Per Axle GAWR 8,000 lb. with tires 215/75 R17.5 @ 125 psi
Brakes (Trailer)	Electric, with break-away switch
Towing Attachment	3 in. pintle eye, with two safety chains and hooks

Tie Downs	5/8 in. dia. Steel D-Strings (4)
Tie Off Points	At rear 12,000 lb. (2)
Battery	Split 12/24 VDC
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White
Safety Chains	2 ea., with hooks
Tongue Jacks	Hydraulic, with shoe
Bumper (SS/CS) Jacks	Hydraulic, vertical cylinder type, with shoe (2)
Electrical System	24VDC
Lights / Navigation	US DOT, LED, 12 VDC
Lights, Work Site	Cab top floods
Deck Cover	Non-Slip surface
Synchronized Tensioning	Up to 3 machines
PLC Machine Control	CANbus Technology
Data Logging	Removable / Replaceable Memory Card
Reel Stand Hydraulics	Front and back 3,000 PSI (2)
PTO Termination	10,000 PSI

OPTIONS

Solar Battery Charger
Air Brakes

*Specifications are subject to change



SHERMAN+REILLY®

T-2608 BULLWHEEL TENSIONER

TWO CONDUCTORS, 8,000 LB. 60 IN. BULLWHEEL TENSIONER



- 1 Automatic tensioning system.
- 2 Fully enclosed Safe-Zone® Cab with climate control.
- 3 Reel stand integration.
- 4 Open center hydraulic configuration, optimized for low-force tensioning.

FEATURES

- Two sets of 60 in. 5-groove bullwheels capable of tensioning and pullback up to 8,000 lb. per set of bullwheels.
- Each bullwheel has its own planetary gearbox and hydraulic motor with spring-applied hydraulic release brake.
- Synchronized tensioning.
- Designed to work with up to three compatible tensioners.
- Equipped with CANbus technology.
- Hydraulically controls two reel stands.
- Low-tension mode allows for fiber optic tensioning.
- Canted bullwheels for T2 conductor.

T-2608 BULLWHEEL TENSIONER

TWO CONDUCTORS 8,000 LB. 60 IN. BULLWHEEL TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Tensioning Capacity	8,000 lb. per bullwheel pair, min. 900 lb.
Maximum Line Speed	4 mph
Drive System	Direct Drive: hydraulic motor, bullwheel
Drive System Engine	Diesel, 140 Hp, water-cooled with Webasto Arctic Pack
Bullwheels	Nominal Diameter: 60 in. Bullwheel Count: 4 ea. Bullwheel Groove Count: 5 per Bullwheel Groove Radius: 1 in. Groove Lining: Polyurethane Bottom of Groove: 57.75 in. dia.
Tension Brake	Hydraulic, motor-driven
Brake Control	Automatic, per operator setting
Fuel Capacity	12 gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gallon
External Hydraulic Connections	Quick Disconnect Type, 2 front, 2 rear (for use with CRS-96/67 and CRS-108/83)
Fail-Safe Brake	Spring-applied- released by hydraulic pressure
Fairlead Rollers	2 front, 2 rear
Operator's Safety Enclosure	Safe-Zone® Cab, fully enclosed, dual door, climate controlled
Frame Construction	Steel tubing, continuous-weld
Length (Overall, Nom.)	26 ft.
Width (Overall, Nom.)	8 ft. 6 in.

Height (Overall, Nom.)	10 ft. 10 in.
Weight*	20,600 lb.
GVWR	26,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Configuration & Tires	Single, 235/70R 17.5
Brakes (Trailer)	Electric, with break-away safety switch
Towing Attachment	3 in. adjustable pintle eye, with two safety chains and hooks
Bumper (SS/CS) Jacks	Hydraulic, with shoe, anti-slide (2)
Tongue Jacks	Hydraulic, with shoe, anti-slide (2)
Electrical System	Split 12/24 VDC
Battery	12 V, 680 CCA, BCI group 48 (2)
Lights / Navigation	US DOT, LED, 12 VDC
Exterior Work Lighting	Cab-top, flood
Grounding	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R White
Safety Chains	2 ea., with hooks
Reel Stand Hydraulics	Front and back 3,000 PSI (2)
PTO Termination	10,000 PSI

OPTIONS

Solar Battery Charger

*Specifications are subject to change



SHERMAN+REILLY®

T-7212 BULLWHEEL TENSIONER

TWO CONDUCTORS 12,000 LB. 72 IN. BULLWHEEL TENSIONER



- 1 Automatic tensioning system.
- 2 Fully enclosed Safe-Zone® Cab with climate control.
- 3 Reel stand integration.

FEATURES

- Two canted sets of 72 in. 5-groove bullwheels capable of tensioning and pullback up to 12,000 lb. per bullwheel set.
- Each bullwheel has its own planetary gearbox and hydraulic motor with spring-applied hydraulic release brake.
- Synchronized tensioning – designed to work with up to three compatible tensioners.
- Equipped with CANbus technology.
- Hydraulically controls two reel stands.
- Canted bullwheels for T2 conductor.

T-7212 BULLWHEEL TENSIONER

TWO CONDUCTORS 12,000 LB. 72 IN. BULLWHEEL TENSIONER

Sherman-Reilly.com

SPECIFICATIONS

Tensioning Capacity	Min. 1,200 lb. / Max: 12,000 lb. per bullwheel set (Rated maximum)
Pullback Capacity	Max: 12,000 lb. per bullwheel set (Rated maximum)
Maximum Line Speed	4 mph
Controls	Digital with real-time tension monitoring and recording
Bullwheels	Diameter: 72 in. dia. / 5 Groove Count: 4 Groove Count: 5 Groove Radius: 1 1/8 in. Groove Lining: Polyurethane Bottom of Groove: 69.75 in. dia.
Tension Brake	Hydraulic, motor-driven
Brake Control	Automatic, per operator setting
Engine	Diesel, 80 Hp, water-cooled with Webasto Arctic Pack
Fuel Capacity	12 Gallon
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 Gallon
External Hydraulic Connections	Quick Disconnect Type, 2 front, 2 rear, (for use with CRS- 96/67 and CRS-108/83)
Fail-Safe Brake	Spring-applied, released by hydraulic pressure
Fairlead Rollers	2 front, 2 rear
Operator's Safety Enclosure	Safe-Zone® Cab, fully-enclosed / dual door, climate controlled
Frame Construction	Steel, continuous-weld
Tie Off Points	Hydraulic, with shoe, anti-slide

Towing Attachments	5th Wheel 2 inch King Pin	3 inch Pintle Eye
Length (Overall, Nom.)	35 ft. 4 in.	27 ft. 4 in.
Width (Overall, Nom.)	8 ft. 6 in.	8 ft. 6 in.
Height (Overall, Nom.)	12 ft. 5 in.	11 ft. 7 in.
Weight* (Nom.)	31,276 lb.	28,726 lb.
GVWR	55,500 lb.	28,500 lb.
Suspension	Air ride	HD Leaf-spring
Axle Configuration	Tandem	Tandem
Wheel Configuration and Tires	Double, Per axle GAWR 12,500 lb. with tires 275/70 R 22.5 @120 psi	Double, Per axle GAWR 15,000 lb. with tires 235/75 R 17.5 @125 psi
Brakes (Trailer)	Air	Electric
Towing Attachment	5th Wheel, 2 in. king pin	3 in. pintle eye
Tie Downs (2)	1 in. dia. steel D-Rings	1 in. dia. steel D-Rings
Bumper (SS/CS) Jacks (2)	Hydraulic, vertical cylinder type, with shoe	Hydraulic, with shoe, anti-slide
Tongue Jacks (2)	Hydraulic, vertical cylinder type, with shoe	Hydraulic, vertical cylinder type, with shoe
Electric System	Split 12/24 VDC	Split 12/24 VDC
Battery	Split 12/24	Split 12/24
Lights / Navigation	US DOT, LED, 12 VDC	US DOT, LED, 12 VDC
Exterior Work Lighting (2)	Cab-top, flood	Cab-top, flood
Grounding (4)	3/4 in. dia. Copper-Clad steel loops	3/4 in. dia. Copper-Clad steel loops
Wheel Chocks	Standard	Standard
Fire Extinguisher	ABC	ABC
Color	S+R White	S+R White
Reel Stand Hydraulics	Front and back 3,000 PSI (2)	Front and back 3,000 PSI (2)
PTO Termination	10,000 PSI	10,000 PSI

OPTIONS

Solar Battery Charger



SHERMAN+REILLY®

RECONDUCTORING REELS

RCR-60 – 7,000 LB. CAPACITY | RCR-76 – 20,000 LB. CAPACITY



- 1 Designed to replace wooden conductor reels for winding or recovering used conductor.
- 2 Rugged, two-piece reel that can withstand compressive load.
- 3 Reel splits for easy removal of wound conductor.
- 4 Banding/strapping may be inserted onto reel before winding old conductor.
- 5 RCR-60 compatible with the following:
 - PT-3000
 - PTX-3500
 - PT-7500
- 6 RCR-76 compatible with the following:
 - PTV-6013
 - PTR-7230
 - PTR-7240

SPECIFICATIONS

RCR-60 Reconductoring Reel	
Reel Capacity	7,000 lb. (of added conductor)
Reel OD	60 in.
Reel Width, outside	39 in.
Reel Width, inside transverse	31 in.
Reel Core Diameter	24 in. to 18.5 in.
Reel Weight*, nom.	1,090 lb.
Reel Hub Size	Accommodates 3 in. reel shaft
Reel Material	Steel, continuous-weld
T-Handle Wrench	Included
Lifting Tongs	Optional
Pulling Capacity	4,000 lb.

RCR-76 Reconductoring Reel	
Reel Capacity	20,000 lb. (of added conductor)
Reel OD	76 in.
Reel Width, outside	58 in.
Reel Width, inside transverse	50 in.
Reel Core Diameter	40 in. to 33.5 in.
Reel Weight*, nom.	3,191 lb.
Reel Hub Size	Accommodates 3-15/16 in. reel shaft
Reel Material	Steel, continuous-weld
T-Handle Wrench	Included
Lifting Tongs	Optional
Pulling Capacity	7,000 lb.

RCR-54 Reconductoring Reel	
Reel Capacity	10,000 lb. (of added conductor)
Reel OD	54 in.
Reel Width, outside	71.75 in.
Reel Width, inside transverse	63 in.
Reel Core Diameter	31.5 in. to 18.5 in.
Reel Weight*, nom.	1,890 lb.
Reel Hub Size	P-1400X Engagement Only
Reel Material	Steel, continuous-weld
T-Handle Wrench	Included
Lifting Tongs	Optional
Pulling Capacity	7,500 lb.

THE NEW HERITAGE SERIES

GREAT PULLS. NO BULL.

Want pulling equipment that is safe, reliable, and easy to use at a budget friendly price? We've got you covered.



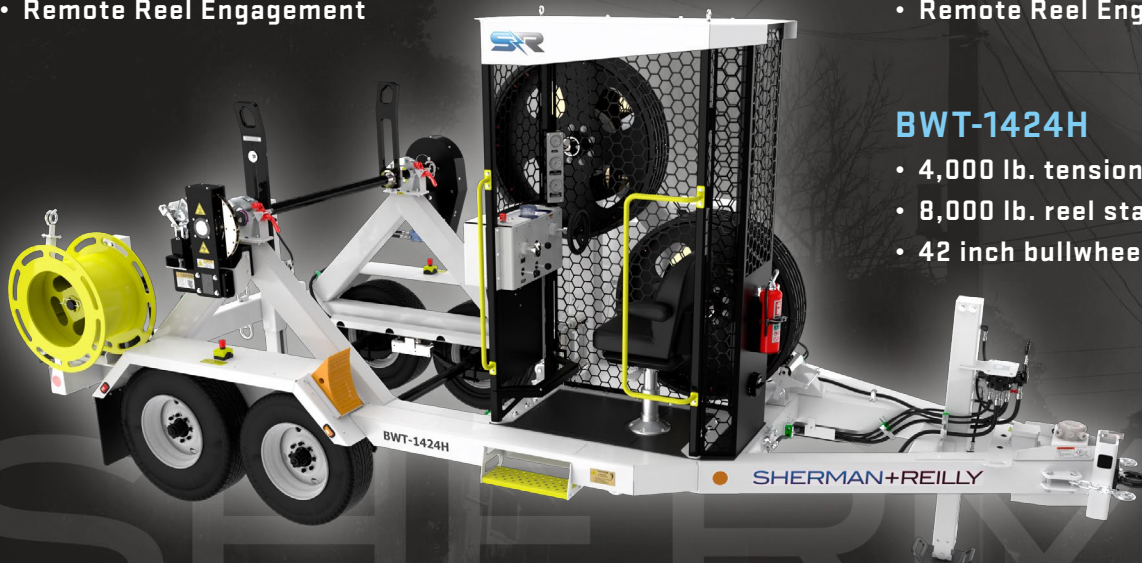
PLW-400H

- 4,000 lb. pulling force
- 16,500 ft. of PE-12 rope
- Remote Reel Engagement



PLW-200H

- 2,000 lb. pulling force
- 6,000 ft. of PE-12 rope
- Remote Reel Engagement



BWT-1424H

- 4,000 lb. tensioning force
- 8,000 lb. reel stand capacity
- 42 inch bullwheels

Sherman+Reilly's new Heritage Series line of pullers and tensioners provides you with everything you need, and nothing you don't: straightforward controls, Safe-Zone® operator enclosure with patented Ocu-View™ shield, and the reliability and support you always get from Sherman+Reilly.



SHERMAN+REILLY®

Designed for safety. Built to last.

Sherman-Reilly.com



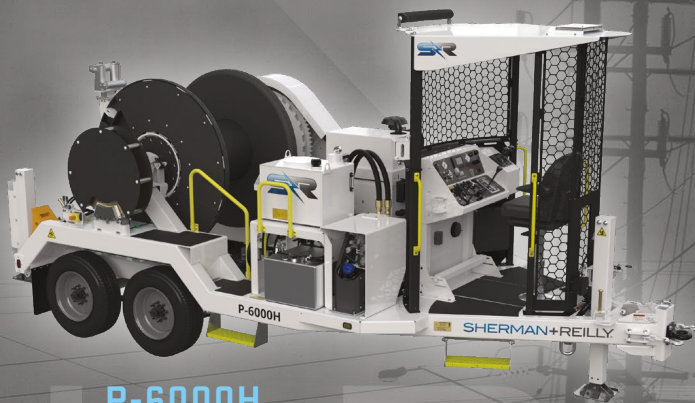
PT-3000H

- 3,100 lb. pulling force
- 2,000 lb. tensioning force
- 6,000 ft. of PE-12 rope



BWT-1363H

- 3,000 lb. tensioning force
- 6,500 lb. reel stand capacity
- 36 inch bullwheels



P-6000H

- 6,000 lb. pulling force
- Up to 15,500 ft. of 0.75" PE-12 rope / 25,000 ft. of 0.5" Ultrex
- Helicopter-ready payout brake



BWT-1545H

- 5,000 lb. tensioning force
- 12,000 lb. reel stand capacity
- 54 inch bullwheels



SHERMAN+REILLY®

SINGLE-REEL STATIONARY REEL STANDS

CRS-68/44 – 8,000 LB. CAPACITY



- Constructed with structural-grade steel tubing.

- Disc-caliper payout brake for controlled tail-tension.

- Quick-disconnect hydraulic fittings allow for rapid set up with purchase of Hydraulic Retriever Package.

*Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.

- Anchor rings and grounding bars at each corner.

SINGLE-REEL STATIONARY REEL STANDS

CRS-68/44 - 8,000 LB. CAPACITY

Sherman-Reilly.com

SPECIFICATIONS

CRS-68/44	
Maximum Reel Size	68 in. OD x 44 in. wide
Maximum Reel Weight	8,000 lb., fully static at full width
Payout Brake	Manual, 20 in. dia. disc. Aluminum-bronze
Frame Configuration	Reinforced truss on rectangular base
Frame Construction	Structural Tubing
Length, overall, nom.	5 ft.
Width, overall, nom.	7 ft. 5 in. (including payout brake)
Height, overall, nom.	4 ft. 6 in.
Weight, overall, nom.	790 lb.
Grounding	3/4 in. dia. copper ground loops (4)
Tie-Downs	5/8 in. dia. Steel D-Rings (4)
Paint	S+R White
Drive Bar Diameter	2 5/8 in.

OPTIONS

RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
Hydraulic Retriever. Hydraulic Retriever Performance: Min. 25,000 in-lb (2,800 LB of line tension at 18 IN diameter) NOTE: Some S+R products are equipped with a Retriever option that is supported by external power source* *Do not exceed 12 GPM and 3,000 PSI.



SHERMAN+REILLY®

SINGLE-REEL STATIONARY REEL STANDS

CRS-108/83 – 30,000 LB. MAX CAPACITY | CRS-96/67 – 24,000 LB. MAX CAPACITY



Constructed with structural-grade steel tubing.

Coupled with a compatible tensioner, it can be hydraulically controlled by:

- Sherman + Reilly T-1608
- Sherman + Reilly T-2608
- Sherman + Reilly T-7212
- Sherman + Reilly PTR-7230
- Sherman + Reilly PTR-7240

Disc-caliper payout brake for controlled tail-tension.

Quick-disconnect hydraulic fittings allow for rapid set up with purchase of Hydraulic Retriever Package.

*Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.

Anchor rings and grounding bars at each corner.

SINGLE-REEL STATIONARY REEL STANDS

CRS-108/83 - 8,000 LB. CAPACITY | CRS-96/67 - 20,000 LB. CAPACITY

Sherman-Reilly.com

SPECIFICATIONS

	CRS-96/67-20k	CRS-96/67-24k	CRS-108/83-20k	CRS-108/83-30k
Maximum Reel Size	96 in. OD x 67 in. wide	96 in. OD x 67 in. wide	108 in. OD x 83 in. wide	108 in. OD x 83 in. wide
Maximum Reel Weight	20,000 lb. static at full width	24,000 lb. static at full width	20,000 static at full width	30,000 static at full width
Payout Brake	Manual, 20 in. dia. disc. Aluminum-bronze	Manual, 20 in. dia. disc. Aluminum-bronze	Manual 20 in. dia. disc. Aluminum	Manual 20 in. dia. disc. Aluminum
Frame Configuration	Reinforced truss on rectangular base	Reinforced truss on rectangular base	Reinforced truss on rectangular base	Reinforced truss on rectangular base
Frame Construction	Structural Tubing	Structural Tubing	Structural Tubing	Structural Tubing
Length, overall, nom.	10 ft. 10 in.	10 ft. 10 in.	11 ft. 11 in.	11 ft. 11 in.
Width, overall, nom.	8 ft.	8 ft.	8 ft.	8 ft.
Height, overall, nom.	6 ft. 2 in., without reel	6 ft. 2 in., without reel	6 ft. 5 in.	6 ft. 5 in.
Weight, overall, nom.	1,950 lb.	2,990 lb.	1,964 lb.	3,440 lb.
Grounding	3/4 in. dia. copper ground loops (4)	3/4 in. dia. copper ground loops (4)	3/4 in. dia. copper ground loops (4)	3/4 in. dia. copper ground loops (4)
Tie-Downs	1 in. dia. Steel D-Rings (4)	1 in. dia. Steel D-Rings (4)	1 in. dia. Steel D-Rings (4)	1 in. dia. Steel D-Rings (4)
Paint	S+R White	S+R White	S+R White	S+R White
Drive Bar Diameter	3-15/16 in.	5 in.	3-15/16 in.	5 in.

Hydraulic Retriever Performance:

Min. 25,000 in-lb (2,800 LB of line tension at 18 IN diameter)

NOTE: Some S+R products are equipped with a Retriever option that is supported by external power source*

*Do not exceed 12 GPM and 3,000 PSI

PILOT LINE WINDERS



PLW-200E+



PLW-200H



PLW-200X



PLW-400H



PLW-400X

PULLERS



P-1400X



P-2000X



P-6000H

UNDERGROUND PULLERS



DUCT DAWG® E+



DUCT DAWG® DDHX-75/100



DUCT DAWG® DDHXA-75/100



UD-50

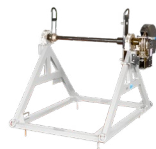


CP-50

REELS, STANDS, AND TRAILERS



RECONDUCTORING REELS



SINGLE-REEL STATIONARY
REEL STANDS



REEL TRAILERS



TURRET REEL TRAILERS

PULLER-TENSIONERS



PT-3000H



PT-3000



PT-7500



PTR-7230



PTR-7240



PTX-3500

V-GROOVE PULLER-TENSIONERS



TPVG-1424



PTV-6013



PTV-4807

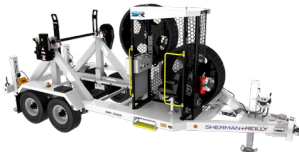
BULLWHEEL TENSIONERS



BWT-1424H



BWT-1363H



BWT-1545H



T-7212



T-2608



T-1608

*Specifications are subject to change



SHERMAN+REILLY®

REEL TRAILERS

CRT-196/67 - ONE REEL | CRT-472/52 - FOUR REELS



- Conductor trailer built for transporting and tensioning.
- Equipped with an aluminum-bronze ventilated disc.
- Quick-release reel shaft bearings for easy and safe reel change.
- Available in a single reel and four-reel trailer configuration.

SPECIFICATIONS

CRT-196/67	
Maximum Reel Weight* (Dynamic)	20,000 lb., fully loaded, 3 in. reel shaft
Maximum Reel Size	96 in. OD x 67 in. wide
Reel Shaft Diameter	2-5/8 in., 1 ea., and 3 in., 1 ea., included
Reel Brake	20 in. dia. disc, Al-bronze
Brake Control	T-handle, manually adjusted
Frame Construction	Steel tubing, continuous-weld
Length, overall, nom.	16 ft. 8 in.
Width, overall, nom.	8 ft. 6 in.
Height, overall, nom.	9 ft. 4 in.
Weight*	6,500 lb.
GVWR	30,000 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Configuration & Tires	Single, 215/75R17.5H
Brakes, trailer	Electric
Tongue Jack	Drop-leg with pin & shoe
Bumper (SS/CS) Jacks	Drop-leg with pin & shoe, (2)
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 ea., with hook
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. copper-clad steel ground loops, 4 ea.
Paint	S+R White
Height with 96 in. Reel	11 ft. 7 in.

OPTIONS

Hydraulic Front Jack
Rear Hydraulic Jacks
20 Hp Powerpack (engine Hp subject to availability)
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
Air Brakes

CRT-472/52	
Maximum Reel Weight*	6,000 lb. / Reel
Maximum Reel Size	72 in. OD x 52 in. wide
Reel Shaft Diameter	2-5/8 in.
Reel Brake	16 in. dia. disc, Bronze
Brake Control	T-handle/Manual
Frame Construction	Steel tubing, continuous-weld
Length, overall, nom.	35 ft. 7 in.
Width, overall, nom.	8 ft. 6 in.
Height, overall, nom.	9 ft.
Weight*	14,150 lb.
GVWR	39,000 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Configuration & Tires	Dual, 215/75R17.5-H, 10 bolt 6.75HC
Brakes, trailer	Air
Tongue Jack	Manual
Bumper (SS/CS) Jacks	Manual
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 ea. with hook
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. Copper-clad steel grounding loops, 4 ea.
Paint	S+R White
Powerpack	13 Hp, hydraulic rewind *Hydraulic Retriever Performance: Approximately 20,000 in-lb at 7 GPM and 2,000 PSI. Do not exceed 12 GPM and 3,000 PSI.



SHERMAN+REILLY®

TURRET REEL TRAILERS

TRT-184 - ONE REEL | TRT-284 - TWO REELS | TRT-384 - THREE REELS



TRT-184/60



TRT-384/60



TRT-284/60

360° rotational range with reel mount on a turret.

Capable of independently orienting the direction of payout without having to re-position the trailer.

Rotating turret may be locked at 15° intervals.

Quick-release reel shaft bearings for easy and safe reel change.

Turret may be removed to use trailer for transporting equipment.

Optional hydraulically driven retriever, electric hydraulic payout brake, hydraulic front jack, hydraulic outriggers, gathering window with bed rollers.

TURRET REEL TRAILERS

TRT-184 - ONE REEL | TRT-284 - TWO REELS | TRT-384 - THREE REELS

Sherman-Reilly.com

SPECIFICATIONS

TRT-184/60 / SINGLE-REEL TURRET REEL TRAILER	
Maximum Reel Weight*	7,000 lb.
Maximum Reel Size	84 in. OD x 60 in wide
Reel Shaft Diameter	2-5/8 in.
Tensioning Brake	16 in. dia. disc, bronze
Turret Rotation Range	360°, lockable at 15° increments
Frame Construction	Steel tubing, continuous-weld
Length, overall, nom.	13 ft. 4 in.
Width, overall, nom.	8 ft.
Height, overall, nom.	8 ft. 9 in., without reel
Height to Reel Centerline	10 ft. 6 in.
Weight*	4,600 lb., without conductor or reel
GVWR	12,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	Single, 235/75R17.5
Brakes, trailer	Electric with break-away switch
Tongue Jack	Manual or Hydraulic, with shoe
Bumper (SS/CS) Jacks	Screw type, with shoe, 4 ea.
Tie-Downs	D-rings, 1 ea. at platform corners

TRT-284/60 / DOUBLE-REEL TURRET REEL TRAILER	
Maximum Reel Weight*	7,000 lb.
Maximum Reel Size	84 in. OD x 60 in wide
Reel Shaft Diameter	2-5/8 in.
Tensioning Brake	16 in. dia. disc, bronze
Turret Rotation Range	360°, lockable at 15° increments
Frame Construction	Steel tubing, continuous-weld
Length, overall, nom.	21 ft. 6 in.
Width, overall, nom.	8 ft. 4 in.
Height, overall, nom.	8 ft. 8 in., without reel
Height with 84" O.D. Reel	10 ft. 6 in.
Weight*	6,750 lb., without conductor or reel
GVWR	21,000 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Configuration & Tires	Single, 215/75R17.5
Brakes, trailer	Electric, with break-away switch
Tongue Jack	Manual or Hydraulic, with shoe
Outriggers	Manual slide-out w/pin, screw-type leg w/shoe

TRT-384/60 / THREE-REEL TURRET REEL TRAILER	
Maximum Reel Weight*	21,000 lb.: 7,000 lb. (Electric Brake) 24,000 lb.: 8,000 lb. (Air Brake)
Maximum Reel Size	84 in. OD x 60 in. wide
Reel Shaft Diameter	2-5/8 in.
Tensioning Brake	16 in. dia. disc, bronze
Turret Rotation Range	360°, lockable at 15° increments
Frame Construction	Steel tubing, continuous-weld
Length, overall, nom.	30 ft. 11 in.
Width, overall, nom.	8 ft. 6 in.
Height, overall, nom.	9 ft. without reels
Height with 84" O.D. Reel	10 ft. 9 in.
Weight 21K*	10,170 lb. without conductor or reel (Electric Brake)
Weight 24K*	14,320 lb. without conductor or reel (Air Brake)
GVWR	21,000 lb.: 33,800 lb. 24,000 lb.: 38,500 lb.
Suspension	Leaf-spring, heavy duty
Axle Configuration	Dual (tandem)
Wheel Configuration & Tires	Dual, 215/75R17.5H
Brakes, trailer	Air: 24,000 lb. unit only. Electric, with safety break-away switch: 21,000 lb. unit
Tongue Jack	Manual or Hydraulic, with shoe
Outriggers	Slide-out with pin, screw-type leg with shoe, 4 ea.
Tie-Downs	D-rings, 4 ea., 2 per side

STANDARD FEATURES

Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 ea., with hook
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. copper-clad steel loops, 4 ea.
Paint	S+R White

OPTIONS

Electric Over Hydraulic Payout Brakes
Hydraulic Retriever. Hydraulic Retriever Performance: Min. 25,000 in-lb (2,800 LB of line tension at 18 IN diameter) NOTE: Some S+R products are equipped with a Retriever option that is supported by external power source* *Do not exceed 12 GPM and 3,000 PSI.
20 Hp Powerpack (engine Hp subject to availability)
Hydraulic Front Jack
Hydraulic Outrigger Jack TRT-384/60-24K
Gathering Window and Bed Rollers
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
Solar Battery Charger
Spider® Pilot Line System with independent levelwind

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*Specifications are subject to change



SHERMAN+REILLY®

CP-50 COMPACT SAFETY PULLER

500 LB. CAPSTAN PULLER FOR INSTALLATION OF SERVICE DROPS

FEATURES

- Reduces risk of installer injury by eliminating hand pulling.
- Lightweight – at less than 40 lb. reduces risk of injury.
- Portable and wheeled for easy remote site use.
- On-board power from a battery or gasoline-powered drill (Drill sold separately - not available for purchase through S+R).
- Adapters for various conduit sizes included.



Drill sold separately - not available for purchase through S+R

SPECIFICATIONS

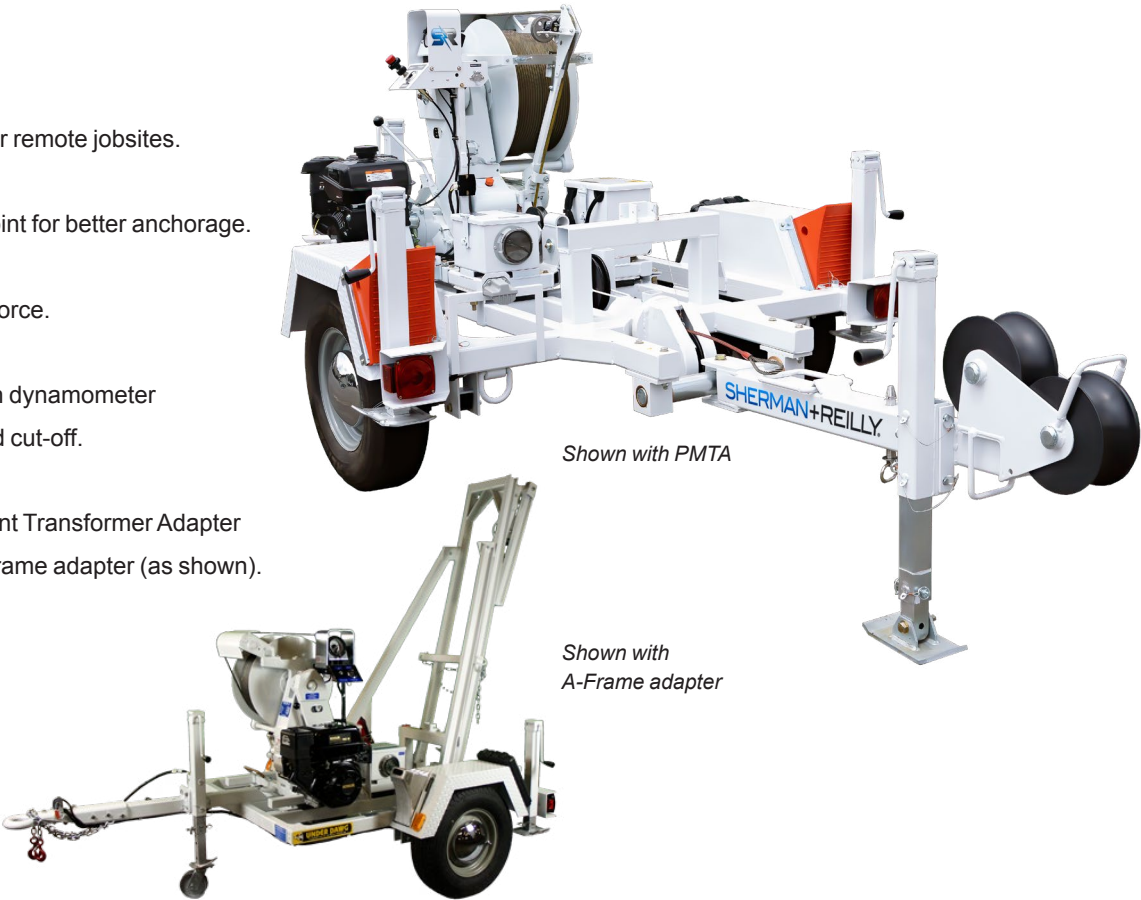
Pulling Capacity, rated	500 lb. @ 70 fpm
Height, overall, nom.	39 1/2 in.
Width, overall, nom.	17 1/2 in.
Depth, overall, nom.	20.5"
Weight*, nom.	39 lb.
Frame Material	Aluminum
Tires	4.10/3.50-4, pneumatic
Spud Adapter Sizes, ID	2 in., 2.5 in., 3 in., and 4 in.
Drill Compatibility	Compatible with most commonly used gas powered drills

UD-50 UNDERGROUND PULLER

5,000 LB. PULLING CAPACITY

FEATURES

- Compact and rugged for remote jobsites.
- Rope entry at a fixed point for better anchorage.
- Even, constant pulling force.
- Equipped with a tension dynamometer and adjustable overload cut-off.
- Available with Pad Mount Transformer Adapter (as shown), or with A-Frame adapter (as shown).



SPECIFICATIONS

Engine	8-10 Hp TBA
Fuel Capacity	1.25 gallons
Pulling Rope	3/8 in. dia. Steel Cable
Reel Capacity	1,500 ft. (3/8 in. dia.)
Skid Frame Construction	Steel tubing, continuous-weld
Wheel Configuration & Tires	14 x 5.5 Drop Center; ST205-75R 14BC
Brakes, trailer	Electric, Standard

Tongue Jack	Screw Type with Wheel
Bumper (SS/CS) Jacks	Screw Type with Shoe
Width, overall, approx.	63 in.
Length, overall, approx.	91 in.
Frame Construction, trailer	Steel Tubing
Height, approx.	48 in.
Weight*, approx.	1,200 lb.

OPTIONS

Air Adapter Kits
Underground Blocks Available
Brakes, trailer Hydraulic Surge

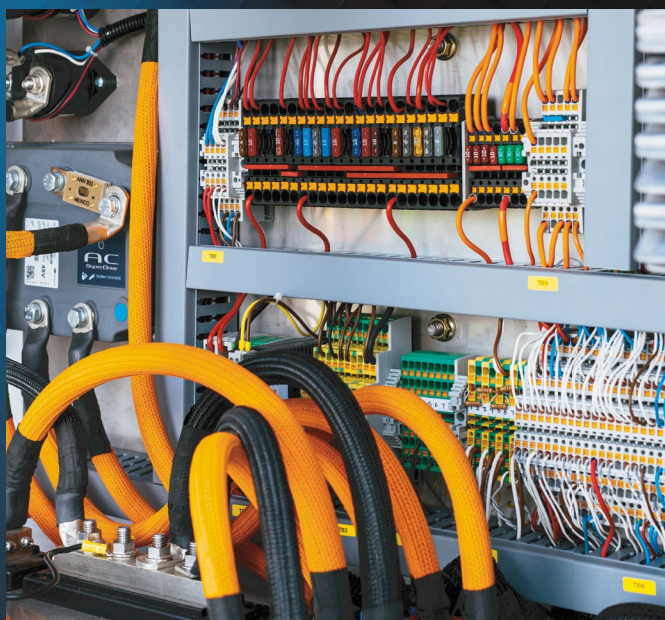
*Specifications are subject to change

WHY ELECTRIC?



- All-Electric Drivetrain Designed to Exceed All-Day Use – Maximizes Capital and Carbon Investment
- The On-Board Rapid Recharge System by S+R™ – Supports Multiday Use and Jobsite Exceptions
- Automatic Battery Management – Eliminates Concern for Battery Capacity
- S+R Telematics™ at No Cost – Provides Industry Leading Support in Real Time
- Immediate Performance, Precision Control and Reduced Noise – Improves Jobsite Safety





When you have an opportunity to experience electric construction equipment, you will know firsthand how remarkable the precision control response of an all-electric drivetrain can be compared to diesel-power. In addition to benefits that include reduced operational cost and reduced emissions, an all-electric drivetrain provides immediate access to maximum torque, and reduced noise. As a result, electric machinery is transforming customer expectations for jobsite safety and equipment performance. So, what is preventing electric products from being a compelling alternative to diesel powered equipment? The greatest challenge for heavy equipment manufacturers is providing an electric product with a practical sized battery and a charging strategy that can support the work. An oversized battery increases the total cost of ownership. An undersized battery will not do the job. For Sherman+Reilly, designing the E+ Series product line to maximize capital and carbon investment objectives and exceed performance expectations was the mission and purpose.

Sherman+Reilly believes there is an ideal electric design and was uncompromising in the pursuit of it. Five years in development, Sherman+Reilly's E+ Series delivers all-electric operation with an On-Board Rapid Recharge System by S+R™, providing superior performance and automatic battery management so the operator can focus on the job at hand.

Battery-only electric units leave end users without an integrated solution to recharge in the field. An oversized battery gives no consideration for capital and carbon investments.

When only a fraction of an oversized battery's capacity is utilized between charging cycles, the capital expense and carbon savings potential of the battery is left unutilized, and therefore wasted. It was not enough for Sherman+Reilly to simply develop another electric product. Sherman+Reilly wants to provide customers with an all-electric drivetrain designed to exceed all-day use, paired with the 'right-sized' battery solution. The addition of the small, diesel-powered On-Board Rapid Recharge System by S+R™ ensures every job, no matter what exceptions are encountered, is completed without interruption or concern for battery capacity.

The E+ Series product line is a continuation of Sherman+Reilly's customer commitment which includes improving productivity with each innovative achievement. To inspire additional confidence in the transition from diesel products to an electric solution, S+R Telematics™ comes standard with all Sherman+Reilly E+ Series products at no cost, providing the end user with industry leading support in real time.

As the leading alternative to diesel powered equipment, the electric-powered Sherman+Reilly E+ Series provides the superior performance of an all-electric drivetrain, the 'right-sized' battery solution, the On-Board Rapid Recharge System by S+R™, and a quiet, reliable, precise, and safe line of pullers and tensioners that never leave you short.

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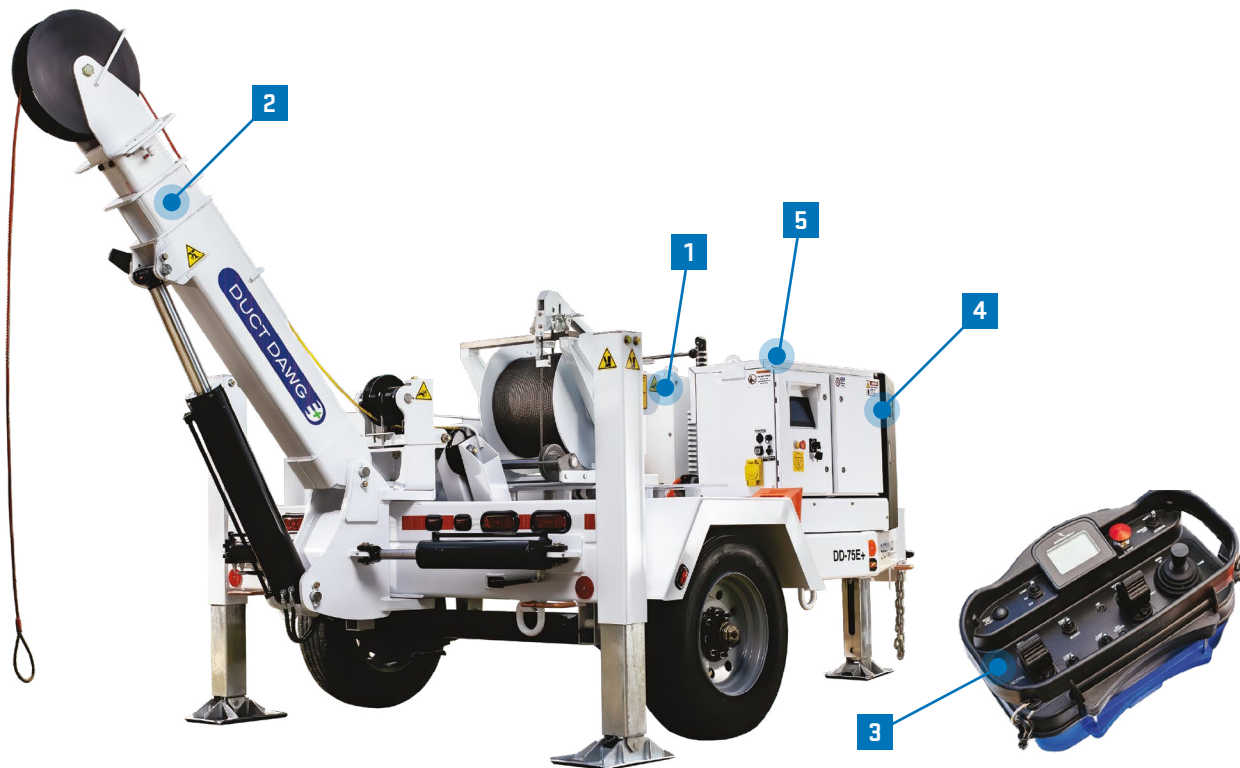




SHERMAN+REILLY®

DUCT DAWG® E+ UNDERGROUND PULLER

DD-75 E+ 7,500 LB. PULLING CAPACITY



- 1** Quiet all-day electric operation with The On-Board Rapid Recharge System to finish even the most challenging pulls.
- 2** Fully Articulating, Self-Supported 3-Axis Boom.
- 3** Durable, Battery-Powered Wireless Remote Control for Safer Operation.
- 4** Accessory Storage for Air Adapters, Duct Sheaves and Miscellaneous Tools.

FEATURES

- Automatic battery management.
- All-electric drivetrain.
- S+R Telematics™ provides real time support.
- Compact footprint under 17 ft.
- Digital recorder to continuously measure length of cable deployed and line tension.

DUCT DAWG® E+ UNDERGROUND PULLER

DD-75 E+ 7,500 LB. PULLING CAPACITY

Sherman-Reilly.com

SPECIFICATIONS

Max. Pulling Capacity	7,500 lb.
Bullwheels	Twin capstan, 6 in. dia., 5-groove followed by 6-groove
Gearbox and Line Speed	1 st gear: 0-60 fpm/Line tension up to 7,500 lb. w/ demand payout 2 nd gear: 0-120 fpm/Line tension up to 3,500 lb. w/ demand payout 3 rd gear: 0-285 fpm/Line tension up to 1,500 lb. w/ demand payout
Drive System	48V Electric
Charging Time	Rapid Recharge: 50% to 100% = ~1 hour; 0 to 100% = ~2 hours Wall Charger: 4-5 hr for 0% to 50%; 8-9 hr for 0% to 100%
Rapid Recharge System	Diesel, Flywheel-Integrated Permanent Magnet Generator
Wall Charger Plug Type	Standard 120V/60hz 3-prong
Fuel Capacity	4 Gallons
Pulling Rope	3/8 in., 6 x 25 XIP IWRC steel wire rope, 2,000 ft.
Boom	Hydraulic, joystick controlled, 3-axis, 50° swing arc - 17 in. sheave with swivel head
Levelwind	Dual automatic fairlead sheaves
Puller Mounted Controls	Dual redundancy electric override
Puller Wireless Controls	CANbus controller connected to radio controlled remote (100 ft. maximum range)
Footage Counter	Electronic, actual footage, pay-in and pay-out with memory
Pulling Connectors	Rotation-resistant: E-35 rated at 3,000 lb. (1) E-49 rated at 8,800 lb. (1)
Frame Construction	Steel tubing, continuous-weld
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	4 Gallons
Length (overall, nom.)	15 ft. 5 in.
Width (overall, nom.)	7 ft. 11 in.
Height (overall, nom.)	9 ft. 6 in.
Weight* (nom)	7,600 lb.
GVWR	9,500 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	Single, LT235/75R17.5
Brakes (Trailer)	Electric, with safety break-away switch
Towing Attachment	3 in. adjustable pintle eye, with 2 Safety Chains with hooks
Tie Downs	5/8 in. dia. steel D-rings
Tongue Jack	Hydraulic, with shoe - 144 sq. in. of surface area
Bumper Stabilizing Jacks	Hydraulic, with shoe at corners - 144 sq. in. of surface area
Electrical System	48V/12V Split System
Lights / Navigation	US DOT, LED, 12 VDC
Grounding	3/4 in. dia. copper-clad steel loops (4)

The Duct Dawg E+ delivers all-electric operation with The On-board Rapid Recharge System, providing superior performance and automatic battery management so the operator can focus on the job at hand. With all the capabilities of our standard Duct Dawg, the E+ has an all electric drivetrain designed to exceed all-day use. The On-Board Rapid Recharge System responds automatically, without input from the operator, until the work is done no matter how tough the job gets. In addition, S+R Telematics™ comes standard at no cost, providing industry leading support in real time. The E+ Series of products continues Sherman + Reilly's commitment to transform customer expectations for jobsite safety and equipment performance.

INVENTING WHAT'S NEXT

CONTACT OUR TEAM
FOR A PRODUCT DEMO

(423) 756-5300 or
sales@sherman-reilly.com

OPTIONS

Solar Charger - 12V battery only
Air Adapter Kits
Underground Blocks Available
Galvanized Finish

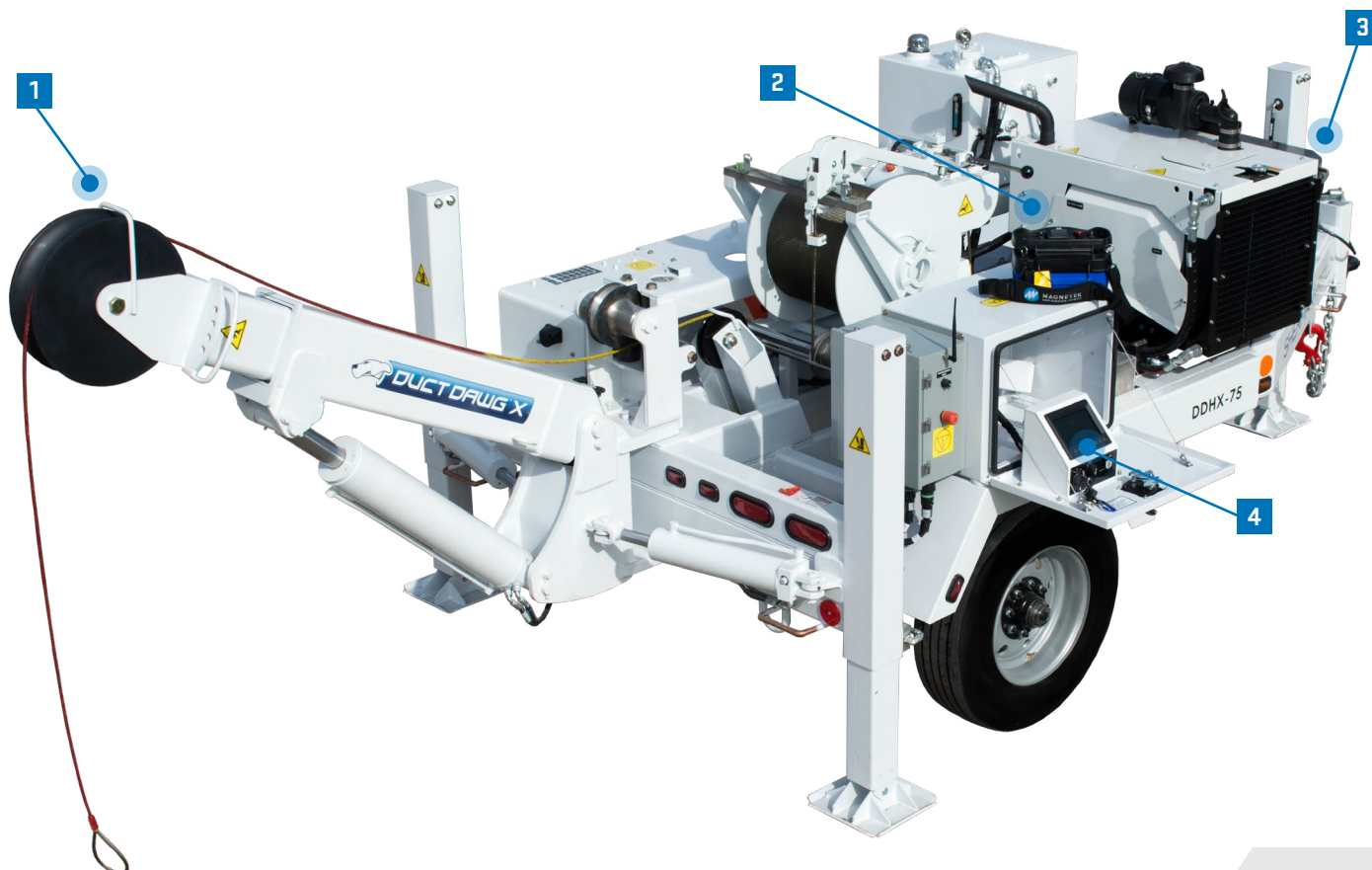
*Specifications are subject to change



SHERMAN+REILLY®

DUCT DAWG® UNDERGROUND PULLER

DDHX-75/100 - 7,500 OR 10,000 LB. PULLING CAPACITY



- 1** Fully articulating, self-supported 3-axis boom
 - 50 degree swing arc, left and right
 - 90 degree vertical arc, up and down
 - 24 in. telescoping, in and out
 - 17 in. sheave with 60-degree swivel head
- 2** Wireless remote controller for safer operation.
- 3** Accessory storage for air adapters, duct sheaves and miscellaneous tools.
- 4** Digital and manual hydraulic operation interface.

FEATURES

- Simplified underground jobsite setup.
- Optimized, compact design with a footprint under 17 ft.
- Smooth operation with 3-speed gearbox on 75 and 2-speed on 100.
- Hydraulically driven, twin capstan bullwheels with on-demand payout.
- Equipped with a digital recorder to continuously measure length of cable deployed and line tension.

DUCT DAWG® UNDERGROUND PULLER

DDHX-75/100 - 7,500 & 10,000 LB. PULLING CAPACITY

Sherman-Reilly.com

SPECIFICATIONS

	DDHX-75	DDHX-100
Pulling Capacity Max	7,500 lb.	10,000 lb.
Bullwheels	Twin capstan, 6 in. dia., 5-groove followed by 6-groove	Twin capstan, 7 in. dia., 5-groove followed by 6-groove
Gearbox and Line Speed	1st gear 0-60 fpm at 7,500 lb. with demand payout 2nd gear 0-120 fpm at 3,500 lb. with demand payout 3rd gear 0-285 fpm at 1,500 lb. with demand payout	1st gear 0-60 fpm at 10,000 lb. with demand payout 2nd gear 0-120 fpm at 5,000 lb. with demand payout
Winch Gearbox Oil (Volume)	SAE 90 (4 liter or 4.2 quarts)	SAE 90 (6 liters or 6.2 quarts)
Drive System	Hydraulic	Hydraulic
Hydraulic Fluid	ISO grade 32	ISO grade 32
Hydraulic Reservoir	25 Gallon with cold weather package optional	25 Gallon with cold weather package optional
Engine	49 peak Hp, Diesel, water-cooled, electric start	49 peak Hp, Diesel, water-cooled, electric start
Fuel Capacity	13 Gallons	13 Gallons
Pulling Rope	3/8 in., 6 x 25 XIP IWRC steel wire rope, 2,000 ft.	7/16 in., 6 x 25 XIP IWRC steel wire rope, 2,200 ft.
Boom	Hydraulic, joystick controlled, 3-axis, 52° swing arc, 17 in. sheave with 60° swivel head.	Hydraulic, joystick controlled, 3-axis, 52° swing arc, 17 in. sheave with 60° swivel head.
Levelwind	Dual automatic fairlead sheaves	Dual automatic fairlead sheaves
Puller Mounted Controls	Manual hydraulic overrides and control panel backup operation.	Manual hydraulic overrides and control panel backup operation.
Puller Wireless Controls	CANbus controller communicating with radio controlled remote (300 ft. max)	CANbus controller communicating with radio controlled remote (300 ft. max)
Footage Counter	Electronic, actual footage, pay-in and pay-out with memory	Electronic, actual footage, pay-in and pay-out with memory
Hydraulic Tool Circuit	Up to 3,000 PSI - 8 GPM at idle/16 GPM at 2700 RPM	Up to 3,000 PSI - 8 GPM at idle/16 GPM at 2700 RPM
Pulling Connectors	Rotation-resistant: (1) E-35 rated at 3,000 lb. & (1) E-49 rated at 8,800 lb.	Rotation-resistant: (1) E-35 rated at 3,000 lb. & (1) E-49 rated at 8,800 lb.
Frame Construction	Steel tubing, continuous-weld	Steel tubing, continuous-weld
Length, overall, nominal	15 ft. 5 in.	15 ft. 5 in.
Width, overall, nominal	7 ft. 11 in.	7 ft. 11 in.
Height, overall, nominal	9 ft. 8 in. (boom stored)	9 ft. 8 in. (boom stored)
Weight*, nominal	7,200 lb. with rope	7,400 lb. with rope
GVWR	9,500 lb.	9,500 lb.
Suspension	Leaf-spring	Leaf-spring
Axel Configuration	Single	Single
Wheel Configuration and Tires	Single, LT235/75R17.5, Load Rating J	Single, LT235/75R17.5, Load Rating J
Brakes, trailer	Electric, with safety break-away switch	Electric, with safety break-away switch
Towing Attachment	3 in. adjustable pintle eye	3 in. adjustable pintle eye
Safety Chains	2 ea. with hooks	2 ea. with hooks
Tie Downs	5/8 in. dia. steel D-rings	5/8 in. dia. steel D-rings
Tongue Jack	Hydraulic, with shoe (1)	Hydraulic, with shoe (1)
Stabilizing Jacks	Hydraulic, with shoe at bumper corners - 144 in. ² of surface area	Hydraulic, with shoe at bumper corners - 144 in. ² of surface area
Electrical System	12 VDC, 60 amp alternator	12 VDC, 60 amp alternator
Lights / Navigation	US DOT, LED, 12 VDC	US DOT, LED, 12 VDC
Battery	12 V	12 V
Grounding	3/4 in. dia. copper-clad steel ground loops (4)	3/4 in. dia. copper-clad steel ground loops (4)

OPTIONS

Strobe Light	
Solar Battery Charger	
Submersible Pumps	Self-priming, compact, high-impact trainer housing pump See utility tools

Air Adapter Kits
Underground Blocks Available



Duct Dawg remote control

*Specifications are subject to change



SHERMAN+REILLY®

DUCT DAWG® AIR UNDERGROUND PULLER

DDHXA-75/100 - 7,500 OR 10,000 LB. PULLING CAPACITY



- 1** Equipped with an on-board air compressor to tackle multiple jobs with one piece of equipment.
- 2** Fully articulating, self-supported 3-axis boom
 - 50 degree swing arc, left and right
 - 90 degree vertical arc, up and down
 - 24 in. telescoping, in and out
 - 17 in. sheave with 60-degree swivel head
- 3** Durable, battery-powered wireless remote control for safer operation.
- 4** Digital and manual hydraulic operation interface.
- 5** Single engine powering hydraulics and compressor.

FEATURES

- Simplified underground jobsite setup.
- Optimized, compact design with a footprint under 17 ft.
- Full CANbus compatibility.
- Smooth operation with 3-speed gearbox on 75 and 2-speed on 100.
- Hydraulically driven, twin capstan bullwheels.
- Equipped with a digital recorder to continuously measure length of cable deployed and line tension.

DUCT DAWG® AIR UNDERGROUND PULLER

DDHXA-75/100 - 7,500 OR 10,000 LB. PULLING CAPACITY

Sherman-Reilly.com

SPECIFICATIONS

	DDHXA-75	DDHXA-100
Pulling Capacity Max	7,500 lb.	10,000 lb.
Bullwheels	Twin capstan, 6 in. dia., 5-groove followed by 6-groove	Twin capstan, 7 in. dia., 5-groove followed by 6-groove
Gearbox and Line Speed	1st gear 0-60 fpm at 7,500 lb. with demand payout 2nd gear 0-120 fpm at 3,500 lb. with demand payout 3rd gear 0-260 fpm at 1,500 lb. with demand payout	1st gear 0-60 fpm at 10,000 lb. with demand payout 2nd gear 0-120 fpm at 5,000 lb. with demand payout
Winch Gearbox Oil (Volume)	SAE 90 (4 liter or 4.2 quarts)	6 liters or 6.2 quarts
Drive System	Hydraulic	Hydraulic
Hydraulic Fluid	ISO grade 32	ISO grade 32
Hydraulic Reservoir	40 Gallon with cold weather package optional	40 Gallon with cold weather package optional
Engine	71 peak Hp, Diesel, water-cooled, electric start	71 peak Hp, Diesel, water-cooled, electric start
Fuel Capacity	13 Gallons	13 Gallons
Pulling Rope	3/8 in., 6 x 25 XIP IWRC steel wire rope, 2,000 ft.	7/16 in., 6 x 25 XIP IWRC steel wire rope, 2,200 ft.
Boom	Hydraulic, joystick controlled, 3-axis, 52° swing arc, 17 in. sheave with 60° swivel head.	Hydraulic, joystick controlled, 3-axis, 52° swing arc, 17 in. sheave with 60° swivel head.
Levelwind	Dual automatic fairlead sheaves	Dual automatic fairlead sheaves
Puller Mounted Controls	Manual hydraulic overrides and control panel backup operation.	Manual hydraulic overrides and control panel backup operation.
Puller Wireless Controls	CANbus controller communicating with radio controlled remote (300 ft. max)	CANbus controller communicating with radio controlled remote (300 ft. max)
Footage Counter	Electronic, actual footage, pay-in and pay-out with memory	Electronic, actual footage, pay-in and pay-out with memory
Hydraulic Tool Circuit	Up to 3,000 PSI - 8 GPM at idle/16 GPM at 2700 RPM	Up to 3,000 PSI - 8 GPM at idle/16 GPM at 2700 RPM
Pulling Connectors	Rotation-resistant: (1) E-35 rated at 3,000 lb.& (1) E-49 rated at 8,800 lb.	Rotation-resistant: (1) E-35 rated at 3,000 lb.& (1) E-49 rated at 8,800 lb.
Frame Construction	Steel tubing, continuous-weld	Steel tubing, continuous-weld
Length, overall, nominal	15 ft. 5 in.	15 ft. 5 in.
Width, overall, nominal	7 ft. 11 in.	7 ft. 11 in.
Height, overall, nominal	9 ft. 8 in. (boom stored)	9 ft. 8 in. (boom stored)
Weight*, nominal	8,900 lb. with rope	9,210 lb. with rope
GVWR	9,500 lb.	9,500 lb.
Suspension	Leaf-spring	Leaf-spring
Axel Configuration	Single	Single
Wheel Configuration and Tires	Single, LT235/75R17.5 Load Rating J	Single, LT235/75R17.5 Load Rating J
Brakes, trailer	Electric, with safety break-away switch	Electric, with safety break-away switch
Towing Attachment	3 in. adjustable pintle eye	3 in. adjustable pintle eye
Safety Chains	2 ea. with hooks	2 ea. with hooks
Tie Downs	5/8 in. dia. steel D-rings	5/8 in. dia. steel D-rings
Tongue Jack	Hydraulic, with shoe (1)	Hydraulic, with shoe (1)
Stabilizing Jacks	Hydraulic, with shoe at bumper corners (2)	Hydraulic, with shoe at bumper corners (2)
Electrical System	12 VDC, 90 amp alternator	12 VDC, 90 amp alternator
Lights / Navigation	US DOT, LED, 12 VDC	US DOT, LED, 12 VDC
Battery	12 V	12 V
Grounding	3/4 in. dia. copper-clad steel ground loops (4)	3/4 in. dia. copper-clad steel ground loops (4)
Fire Extinguisher	ABC	ABC
Hose Reel	1 in. by 50 ft.	1 in. by 50 ft.
Air Compressor	High flow: 160 cfm at 40 psi; Low flow: 90 cfm at 90 psi	High flow: 160 cfm at 40 psi; Low flow: 90 cfm at 90 psi

OPTIONS

Strobe Light	
Solar Battery Charger	
Submersible Pumps	Self-priming, compact, high-impact trainer housing pump
	See utility tools

Air Adapter Kits
Underground Blocks Available



Duct Dawg remote control

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*Specifications are subject to change

UG-71

- Ideal for quick installation in conduit.
- Slotted base allows for easy insertion, removal of pulling cable.
- Available in sizes to fit 2 in. through 6 in. conduit.
- Nylon sheave material.
- Sheave Dimensions: 7 in. OD x 4-3/4 in. rim width; 2-1/8 in. groove radius.
- Accommodates up to 4 in. diameter cable.
- Net weight 25 lb.



UG-71

UG-72

- Two sheaves give effective bending radius of 18."
- Slotted base allows for easy insertion, removal of pulling cable.
- Available in sizes to fit 2 in. through 6 in. conduit.
- Nylon sheave material.
- Sheave Dimensions (each): 7 in. OD x 4-3/4 in. rim width; 2-1/8 in. groove radius.
- Accommodates up to 4 in. diameter cable.
- Net weight 40 lb.



UG-72

UG-73

- Ideal for underground construction.
- Can be mounted on edge of manhole or anchored in vault.
- Available in nylon sheaves.

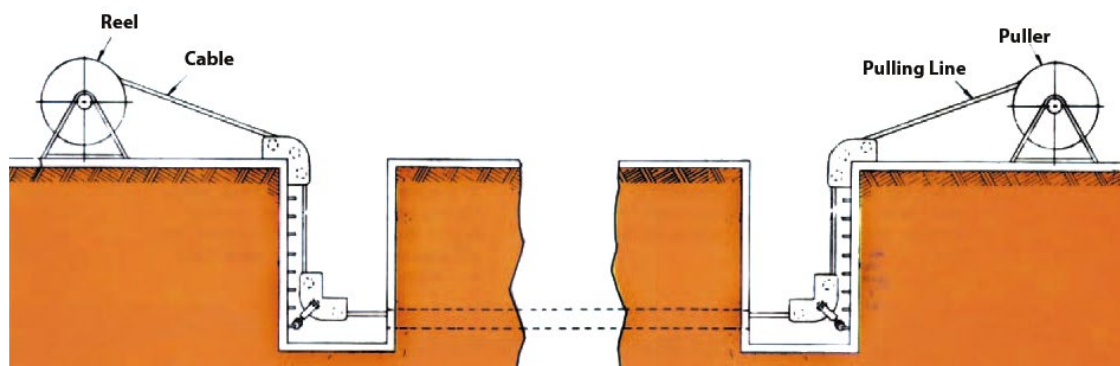


UG-73

COMPLETE SPECIFICATIONS

- Options: Available in SCH 40 (orange), SCH 80 (yellow), and DB 120 (white).

MODEL NO.	SHEAVE SIZE, IN.	NO. OF SHEAVES	EFFECTIVE RADIUS, IN.	MAX O.D. OF CABLE, IN.	MAX WORKING LOAD, LB.	APPROX. WEIGHT, LB.
UG-73-NY-A	7 x 4 3/4	3	16 7/16	4	12,500	65
UG-103-NY-A	10 x 7 1/4	3	21 3/4	6	10,000	140
UG-104-NY-A	10 x 7 1/4	4	27 13/16	6	17,500	250
UG-104-NY-A	10 x 7 1/4	4	35 13/16	6	17,500	250



UNDERGROUND BLOCK WITH 'SPLIT' SHEAVE UG-308-SS

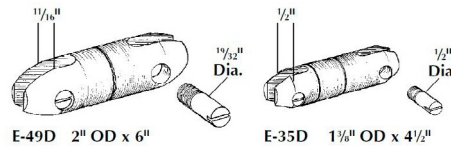
- Taken into manholes or vaults when space restricts size.
- 15,000 lb. maximum workload for up to 6 in. diameter cable.
- Split bronze bushing for long life, swivel safety hook and bail are standard.

UG-308-SS



UNDERGROUND CONNECTORS

- E-35-D: Maximum workload: 3,000 lb.
- E-49-D: Maximum workload: 8,800 lb.



UNDERGROUND PULLING ROPE

- Replacement 5/16 in., 3/8 in. and 7/16 in. diameter special steel strand.
- Available in any length.
- IWRC; XIP.

UNDERGROUND REPLACEMENT GRIPS

SPECIFICATIONS

CATALOG NO.	CABLE DIAMETER RANGE, INS.	MAX WORKING LOAD, LB.	MESH LENGTH AT NOMINAL DIAMETER IN.	EYE LENGTH IN.
033-04-1091	.75-.99	1,360	36	9
033-04-1092	1.00-1.49	1,920	36	9
033-04-1093	1.50-1.99	3,280	36	11
033-04-1094	2.00-2.49	3,700	36	12
033-04-1095	2.50-2.99	4,900	36	12
033-04-1096	3.00-3.49	4,900	36	14
033-04-1097	3.50-3.99	6,200	40	14

SRB-S23L UNDERGROUND PULLING BRIDLES

SPECIFICATIONS

MODEL NO.	MAXIMUM WORKING LOAD, LB.	SHORTEST LEG LENGTH, IN.	MID LEG LENGTH, IN.	LONGEST LEG LENGTH, IN.	3 EACH CONNECTORS	1 MAIN UG CONNECTOR
SRB-S23L-4	4,000	22	41	58	L-40 Connector	E-49-D
SRB-S23L-7	7,000	27	46	63	L-75 Connector	E-49-D



SHERMAN+REILLY®

BIRD & AIR ADAPTER WINCH LINE BLOWER KITS

AIR ADAPTER AND BIRDS

- UP TO 90% REDUCTION IN AIR LOSS.
- UP TO 20% INCREASE IN TANK PSI.

BIRD PERFORMANCE IMPROVEMENTS

- Tapered Seal Cup design improves duct seal resulting in 5% efficiency gains in speed.
- Shorter overall length improves cornering ability.
- Simplified design created a significantly lighter weight bird.
- Faster speeds due to all these improvements.

BIRD KIT

- Birds for 6 different sized ducts (2", 2.5", 3", 4", 5", 6").

AIR ADAPTER KIT

- S+R Air Adapter along with 6 different sized duct adapters (2", 2.5", 3", 4", 5", 6") and venturi sets.

SERVICE KIT

- Kit for upgrading your existing Duct Dawg's Air Adapter and Birds to the S+R Air Adapter and birds for better efficiencies, and faster line out.

BIRDS



Full range of sizes available

BIRD REPLACEMENT CUPS



Replacement cups sold in pairs

AIR ADAPTER WINCH LINE BLOWER KIT DUCT ADAPTERS INCLUDED



ORDERING INFORMATION

BIRD KIT

CAT. NO.	DESCRIPTION
619349	BIRD CONDUIT KIT
619105	BIRD 2"
619106	BIRD 2.5"
619107	BIRD 3"
619108	BIRD 4"
619109	BIRD 5"
619110	BIRD 6"

BIRD REPLACEMENT CUPS

CAT. NO.	DESCRIPTION
620927	BIRD REPLACEMENT CUP KIT 2"
620928	BIRD REPLACEMENT CUP KIT 2.5"
620929	BIRD REPLACEMENT CUP KIT 3"
620930	BIRD REPLACEMENT CUP KIT 4"
620931	BIRD REPLACEMENT CUP KIT 5"
620932	BIRD REPLACEMENT CUP KIT 6"

Replacement cups sold in pairs - 2 cups per kit.

AIR ADAPTER WINCH LINE BLOWER KIT

CAT. NO.	DESCRIPTION
620807	S+R DUCT ADAPTER KIT
620479	WINCHLINE BODY ASSY 2-6"
620567	WINCHLINE DUCT ADAPTER 2"
620568	WINCHLINE DUCT ADAPTER 2.5"
620569	WINCHLINE DUCT ADAPTER 3"
620570	WINCHLINE DUCT ADAPTER 4"
620571	WINCHLINE DUCT ADAPTER 5"
620572	WINCHLINE DUCT ADAPTER 6"
620480	WINCHLINE VENTURI 1/4 - 3/8 SET
620702	WINCHLINE VENTURI 1/2 - 9/16 SET
621061	2.5" WRENCH

SERVICE KIT FOR DUCT DAWGS

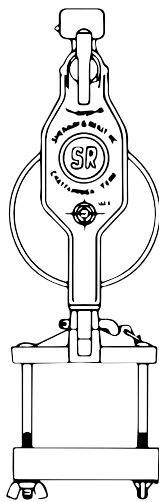
CAT. NO.	DESCRIPTION
620942	BIRD + AIR ADAPTER RETROFIT KIT
620936	DDHXAIR ADAPTER & BIRDS DECAL
620941	AIR ADAPTER MANUAL
621061	2.5" NON-ADJUSTABLE WRENCH
620783	RUBBER BUMPER PAD TOOL BOX STORAGE SLEEVE
620782	NEW TOOL BOX WELDMENT

Service Kit Includes:

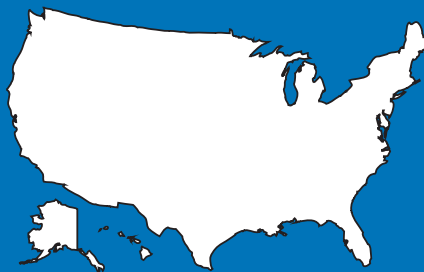
- Air Adapter along with 6 different sized duct adapters (2", 2.5", 3", 4", 5", 6") and venturi sets for winchline from 1/4" to 9/16".
- Birds for 6 different sized ducts (2", 2.5", 3", 4", 5", 6").
- Quick reference toolbox decal for setup and troubleshooting.
- Toolbox rack with rubber padding for protective storage of duct adapters.
- 2.5" wrench for tightening the duct adapters.
- Air Adapter Winch Line Blower instructional manual.



SHERMAN+REILLY®

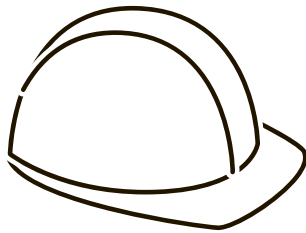


Sherman + Reilly has over 85 years of experience manufacturing industry leading stringing blocks.

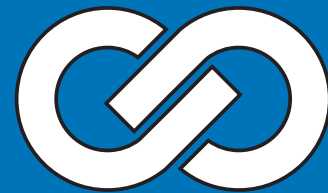


Assembled in Chattanooga, Tennessee, Sherman + Reilly stringing blocks have American roots.

SHERMAN + REILLY STRINGING BLOCKS



Manufactured with sealed low-friction bearings and A356-T6 cast aluminum, Sherman+Reilly blocks are built to last.



Sherman+Reilly warrants to the original purchaser (“Buyer”) of the Products that the Products will be free from defects in material and workmanship for the life of the Products.



SHERMAN+REILLY®

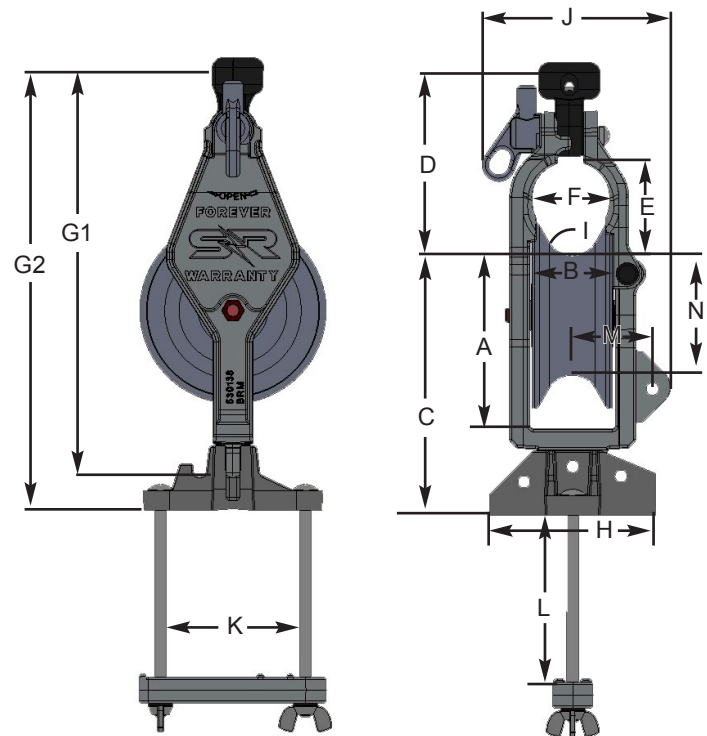
UNIVERSAL STRINGING BLOCK

UNIVERSAL STRINGING BLOCK

MODEL XS-100-B

FEATURES

- Can be used in suspension utilizing a high strength, hot dipped galvanized socket connector. (ANSI C-29.2-71)
- Used on crossarms from 5 x 6 in. to 9 1/2 x 7 in. positions with Fastrap® or crossarm* bracket.
- 100% positive locking spring loaded head pin assembly has large hook for hot stick operation.
- Light but extremely rugged.
- Sheave and crossarm* bracket base are heat treated permanent mold castings.
- Low friction sealed ball bearings are lubricated for life of block under normal conditions.
- Four material options available for sheave / groove linings: polished-groove aluminum, urethane on aluminum, ductile iron, and nylon.
- Ductile iron is optimal for unusually rugged applications due to it's resistance to abrasion.



*Crossarm bracket sold separately

COMPLETE DIMENSIONS

SIZE	OUTSIDE SHEAVE DIA. IN.	RIM WIDTH IN.	HEIGHT ABOVE CROSS-ARM IN.	POINT OF CONNECTION TO BOTTOM OF CONDUCTOR IN.	THROAT		OVERALL LENGTH IN.		WIDTH OF CROSSARM BRACKET IN.
					HEIGHT IN.	WIDTH IN.			
	A	B	C	D	E	F	G1	G2	H
7	7	3	9 3/4	6 2/3	3 5/8	3 1/16	14 11/16	15 9/16	6 1/4

RADIUS IN.	WIDTH AT WIDEST POINT IN.	MAXIMUM CROSSARM SIZE IN.		SHEAVE TO MOUNTING HOLE IN.	BOTTOM OF GROOVE DIAMETER
I	J	K	L	M	N
1	7	5	6	3	4.5

SIZE, IN.	MAXIMUM O.D. OF CONDUCTOR, IN.	MAXIMUM WORKING LOAD LIMIT, LB.	BLOCK WEIGHT, LB.	BLOCK WITHOUT BRACKET, LB.
7	1 3/4	2,500	12 1/2	9 1/4



#1 Hook



#1 Hook with Safety Latch



#6 Oval Eye



#8 Clevis



#3030 Y-Clevis

ADDITIONAL MODELS MODEL XS-200

- XS-200 contains 2 identical sheaves.
- For uplift conditions and can be used either in suspension or on a crossarm.
- Side gate positively locks with spring plunger.
- Available shackle for hold down rope (order separately).
- Maximum working load is 2,500 lb., weight 16 ¼ lb.
- Available in polished groove, nylon or urethane.



ACCESSORIES:

ADJUSTABLE INSULATOR ADAPTER

- 2 models available; AIA-CF & AIA-J.
- Used for reconductoring on vertical tie-top post insulators.
- AIA-CF adjusts to fit most insulators with neck dia. for 2-1/8 in. through 3-1/2 in.
- AIA-J adjusts to fit most insulators with neck dia. for 3-1/4 in. through 4-7/8 in.
- Fits all Sherman + Reilly XS-100-B stringing blocks.



AIA-CF

HORIZONTAL LINE POST ADAPTER

- Model: LPA-17-A.
- Used with horizontal line posts.
- Fits in the insulator cap and is held securely in place with the bolt, which is provided for securing the conductor clamp.
- This enables accurate sagging and minimizes handling and lifting of conductor during clipping-in operation.
- Permits placing block at 30 degrees for negotiating angles.



LPA-17-A

GROUNDING STUD

- Provides location to ground block.

Grounding Stud



1210 ADAPTER

- For hanging aerial cable blocks directly to messenger for mid-span support. Will fit any Sherman + Reilly stringing blocks equipped with socket connector.
- Accommodates up to 5/8 in. wire.

1210 Adapter





SHERMAN+REILLY®

UNIVERSAL STRINGING BLOCK

UNIVERSAL STRINGING BLOCK

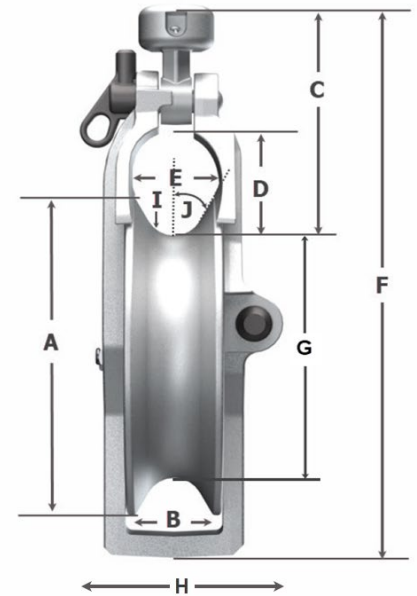
MODEL XL-100

FEATURES

- Can be used in suspension utilizing a high strength, hot dipped galvanized socket connector. (ANSI C-29.2-71)
- 100% positive locking spring loaded head pin assembly has large hook for hot stick operation.
- Extremely rugged.
- Low friction sealed ball bearings are lubricated for life of block under normal conditions.
- Forever Warranty.®



XL-100 block shown with optional ground



COMPLETE DIMENSIONS

SIZE	OUTSIDE SHEAVE DIA. IN.	RIM WIDTH IN.	INSIDE TOP OF SOCKET TO BOTTOM OF GROOVE	THROAT		OVERALL LENGTH IN.	BOTTOM OF GROOVE SHEAVE DIA. IN.	WIDTH AT WIDEST POINT IN.	GROOVE RADIUS IN.	FLARE ANGLE DEGREES
				HEIGHT IN.	WIDTH IN.					
	A	B	C	D	E	F	G	H	I	J
11.75	11.75	3.375	8.025	3.875	3.1875	20.08	9.0	7.263	1.063	30

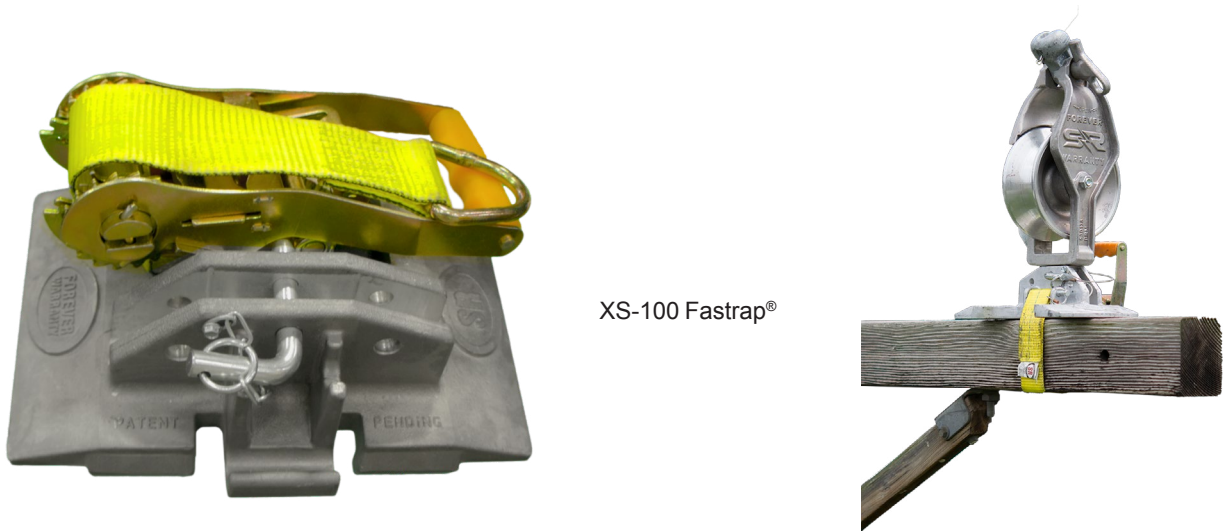
SIZE, IN.	MAXIMUM WORKING LOAD LIMIT, LB.	BLOCK WEIGHT, LB.
11.75	5000	17.5

ACCESSORIES
XS-100 FASTRAP®
FEATURES

- Requires less than half the time to mount/dismount compared to ordinary brackets.
- Compatible with nearly all distribution-type stringing blocks.
- One model fits all cross-arm sizes.
- No tools needed to mount or dismount.
- Strong holding force, without damage, regardless of materials.

COMPLETE DIMENSIONS

XS-100 FASTRAP	
Pulling Load, rated	2,500 lb., vertical; 1,500 lb., horizontal
Compatible Cross-Arm Size, max.	4 in. x 10 in.
Compatible Cross-Arm Size, min.	3 1/2 in. x 4 1/2 in.
Operating Mechanism	Encircling strap with manual tightening using a fine-tooth ratcheted lever; released by quick-release lever
Base	Aluminum, with slip-resistant coating
Strap	30 in. length, Polyester, woven, with UV inhibitors & wear indicators
Strap-Assembly Breaking Strength, min.	9,000 lb.
Ratchet Material	Steel, with corrosion-resistant coating
Weight, nom.	6 1/2 lb.
Dimensions, stored, nom.	12 in. x 7 1/4 in. x 6 in.



XS-100 Fastrap®

*Specifications are subject to change



XS-100-B SHEAVE OPTIONS **POLISHED GROOVE SHEAVE - STANDARD (ORIGINAL)**

- 7 in. x 3 in. cast aluminum alloy sheave, heat treated for strength and extended life, finished with precision machining.
- Suitable for multiple conductor stringing and cable placement applications.
- Sealed, anti-friction ball bearings, lubricated for life under normal conditions.
- Constant 98% efficiency during stringing, reducing amount of force and strain on the conductor during pulling and tensioning operations.



URETHANE LINED SHEAVE

- Same profile as polished groove but with cast-in-place urethane polymer lining.
- In one material, combines the resiliency of rubber and the hardness of structural plastics.
- Due to its elasticity, the material will flow under the load exerted by wire rope pulling line or conductor, making it an ideal application for conductor, static wire, or even fiber optic cables.
- Improved capabilities regarding high load, resistance to impact, abrasion, compression set, and chemical resistance including ozone, oil, and many others.
- Premium-grade urethane elastomer with 90-92 "A" scale durometer hardness, same material as found on Sherman + Reilly Bullwheel Tensioners.
- Interchangeable with all XS-100 frames.



DUCTILE IRON SHEAVE

- Same profile as all the other 7 in. x 3 in. sizes.
- Ideal for stringing steel static, new, or reconductoring.
- The block weight will increase approximately 7 lb.
- Not recommended for aluminum conductor.
- Interchangeable with all XS-100 frames.



NYLON SHEAVE

- Entire sheave is manufactured from Nylon in the same 7 in. x 3 in. profile as the other options.
- Excellent combination of toughness, dimensional stability, impact/wear resistance, chemical resistance, and good dielectric properties resulting in a great choice for almost all stringing applications and cable placement.
- Can be used for almost all stringing applications, and cable placement.

GROUND TO AIR AND HANDLINE BLOCKS

FEATURES

- Two Models Available: GTA-358 (closed side) & HLB-472 (open side).
- Ideal for handline purposes.
- Constructed of lightweight, high strength aluminum alloy for maximum strength at minimum weight.
- Ideal with synthetic ropes.
- Rope size for both models: 3/8 in. - 5/8 in.



SPECIFICATIONS

MODEL NO.	ROPE SIZE IN.	LENGTH IN.	WIDTH IN.	WEIGHT LB.	MWL LB.
GTA-358	3/8-5/8	7	2 1/2	2.9	2,000
HLB-472	3/8-5/8	6 3/16	2 1/4	2.3	1,250

ALL PURPOSE SNATCH BLOCK MODEL NO. 4841

FEATURES

- For all types of rope including wire rope.
- Wide groove sheaves for ropes up to 1 1/4 in. in diameter.
- Aluminum-magnesium alloy frame, ductile iron sheave, forged steel safety hook.
- Sheave has 360° guard built into frame.
- Wide upper frame makes block self aligning when used in other than vertical position.
- Excellent hoisting block, particularly for pole top application due to light weight and high strength features.
- Works well with transformer gin.

SPECIFICATIONS

4841	
Sheave Size	61/2" O.D. x 2 1/8" Rim Width
Hook Opening	1 1/2 in.
Maximum Rope Diameter	1 1/4 in.
Bearing Type	Ball Bearings
Throat to Top of Sheave	8 3/4 in.
Weight	18 1/2 lb.
Max Working Load	6000 lb.
Overall Length	17 in.





SHERMAN+REILLY®

MODEL NO. 9511

MODEL NO. 9511

FEATURES

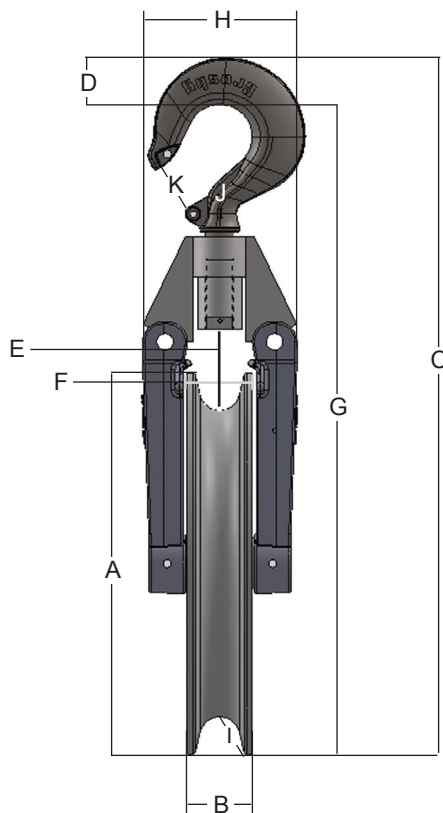
- Designed for stringing overhead ground wire.
- Frame is high strength aluminum alloy.
- Sheaves mounted on anti-friction ball bearings are available with polished aluminum.

MATERIALS

SIZE, IN.	POLISHED GROOVE	DUCTILE IRON	URETHANE
6	X	X	X
8	X	X	X
12	X		X

COMPLETE SPECIFICATIONS

	OUTSIDE SHEAVE DIA. IN.	RIM WIDTH IN.	TOTAL OVERALL HEIGHT IN.	HOOK THICKNESS IN.	THROAT HEIGHT IN.	THROAT WIDTH IN.	HANGING LENGTH IN.	OVERALL WIDTH IN.	GROOVE RADIUS IN.	HOOK HEIGHT IN.	HOOK WIDTH IN.
SIZE	A	B	C	D	E	F	G	H	I	J	K
6	6	1 1/2	4 1/2	27/32	1 13/16	1 1/2	11 1/8	4 1/4	7/16	3 31/32	31/32
8	8	1 3/4	6 1/2	1 7/16	2 3/16	1 3/4	15 11/32	4 3/4	7/16	6 7/8	1 3/4
12	12	2	10	7/16	2 1/2	1 3/4	20	4 3/4	19/32	6 7/8	1 1/2



HOLD DOWN BLOCKS

FEATURES

- Model No. HD-72, HD-142.
- Hold-down line is connected to the shackle at the bottom of the frame.
- Block can be lowered to the ground without interruption of pulling operation and without a required climb.
- HD-72 is available in ductile iron frame, HD-142 is available in steel frame, with two 7 in. or 14 in. sheaves lined with urethane.



HD-142



HD-72

SPECIFICATIONS

MODEL NO.	SHEAVE SIZE IN.	MAXIMUM WORKING LOAD, LB.
HD-72-DIU	7	4,000
HD-142-U	14	5,000

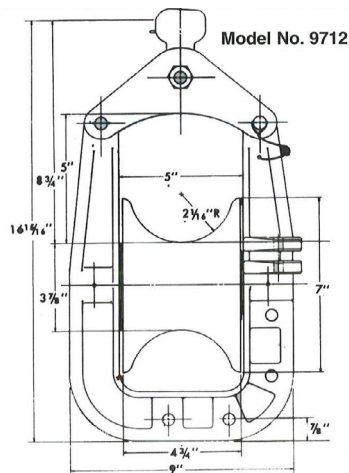
97 SERIES: VERSATILE T&D BLOCK MODEL NO. 9712

FEATURES

- Extremely versatile for stringing overhead cables.
- Lightweight aluminum alloy frame can be mounted directly to pole or suspended from the messenger with accessory.
- Sheave is high strength, abrasion resistant nylon composite.

SPECIFICATIONS

9712	
Maximum O.D. Conductor	4 in.
Maximum Working Load in suspension	5,000 lb.
Block Weight	16 lb.



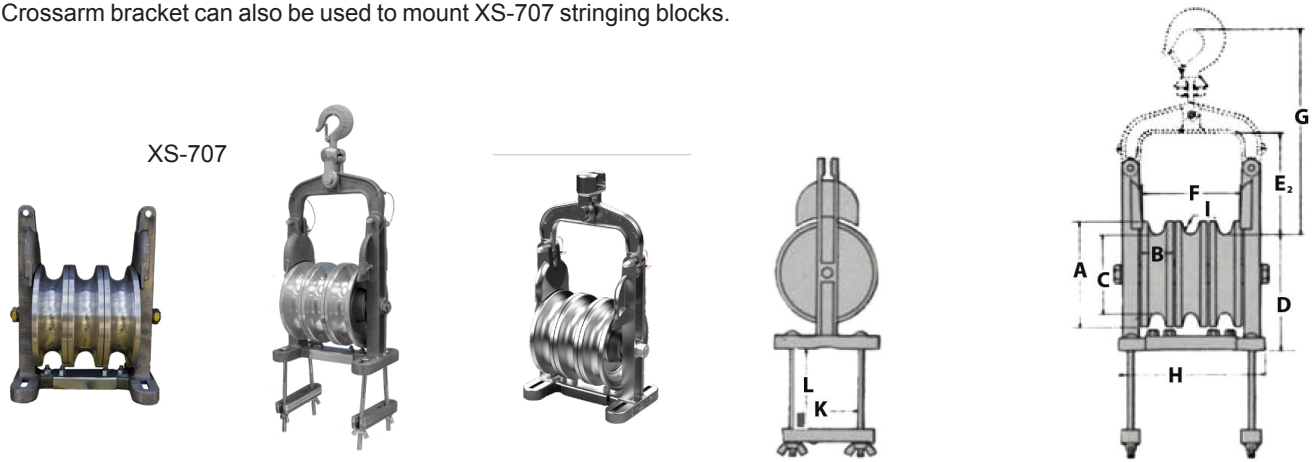
Model No. 9712



XS-707: MULTI-SHEAVE STRINGING BLOCKS

FEATURES

- Used for stringing spacer type aerial cable.
- Equipped with aluminum cross-head with a yoke, and socket connector.
- Typically hung on the messenger bracket of each pole and all three phase conductors are pulled in at one time.
- Pulling line is connected to the front of the running board RB-707-3.
- Crossarm bracket can also be used to mount XS-707 stringing blocks.



Blocks shown with optional crossarm bracket and/or hook, sold separately

COMPLETE DIMENSIONS

OUTSIDE SHEAVE DIA. IN.	RIM WIDTH IN.	BOTTOM GROOVE DIA. IN.	HEIGHT ABOVE CROSS ARM IN.	THROAT		HEIGHT ABOVE BOTTOM OF GROOVE IN.	WIDTH WIDEST POINT IN.	RADIUS BOTTOM GROOVE IN.	MAXIMUM CROSSARM SIZE IN.	
				HEIGHT IN.	WIDTH IN.					
A	B	C	D	E1	F	G	H	I	K	L
8	2 1/2	5 5/8	8 9/16	7 13/16	7 3/32	15 3/16	11 1/8	11/16	5	6
10	2 7/16	8	10	7 1/8	7 11/32	15	11 7/32	11/16	5	6

SPECIFICATIONS

SIZE, IN.	MAXIMUM O.D. OF CONDUCTOR, IN. POLISHED GROOVE	MAXIMUM WORKING LOAD LIMIT, LB.	BLOCK WEIGHT, LB.
8	1 1/4	2,500	21
10	1 1/4	3,000	31

RUNNING BOARD RB-707

FEATURES

- The unidirectional articulated type running board passes through the XS-707-3 and places conductors in each of the three sheaves.
- After pulling, conductors are sagged in stringing blocks then spacers installed at proper location between the poles allowing proper sag between spacers.
- XS-707-3 pulls three conductors at one time.
- MWL: 7,500 lb.
- Proof load: 11,250 lb.



RB-707

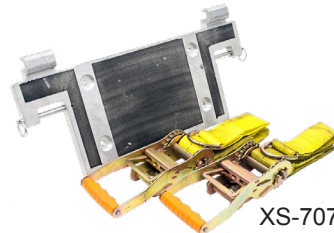
XS-707 FASTRAP®

FEATURES

- Requires less than half the time to mount/dismount compared to ordinary brackets.
- Compatible with nearly all distribution-type stringing blocks.
- One model fits all cross-arm sizes.
- No tools needed to mount or dismount.
- Strong holding force without damage, regardless of materials.

SPECIFICATIONS

XS-707 FASTRAP®	
Pulling Load, rated	2,500 lb., vertical; 1,500 lb., horizontal
Addressable Cross-Arm Size, max.	4 in. x 10 in.
Addressable Cross-Arm Size, min.	3 1/2 in. x 4 1/2 in.
Operating Mechanism	Encircling strap with manual tightening using a fine-tooth ratcheted lever; released by quick-release lever
Base	Aluminum, with slip-resistant coating
Strap	30 in. length, Polyester, woven, with UV inhibitors & wear indicators
Strap-Assembly Breaking Strength, min.	9,000 lb.
Ratchet Material	Steel, with corrosion-resistant coating
Weight, nom.	12 lb.
Dimensions, stored, nom.	20 in. x 7 1/4 in. x 6 in.



XS-707 Fastrap

CRB-U-975 CONDUIT RISER BRACKET

- Secure conduit to power poles with conduit riser bracket.
- Available with 3/8 in. diameter "U" Bolt to fit maximum 2 in. or 5 in. diameter conduit.



CRB-U-975



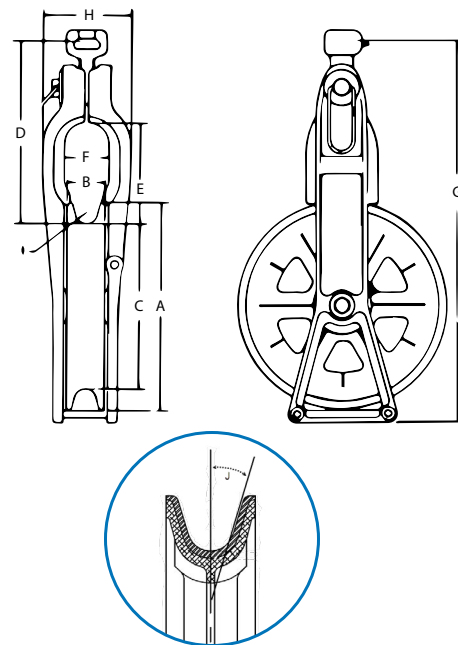
SHERMAN+REILLY®

74 SERIES

74 SERIES

FEATURES

- Steel socket connector.
- Safety locking head pin.
- Built-in handle and hand line hook.
- Large widened throat.
- Smoothly contoured conductor guard follows contour of sheave.
- Lightweight aluminum alloy sheave.
- Shielded ball bearings.
- Lubrication fitting.



COMPLETE DIMENSIONS

Size (NOM)	Sheave OD IN.	Rim Width IN.	Groove Bottom Dia. IN.		Connection Point to Groove Bottom IN.		Throat Dimensions IN.			Height Overall IN.	Width Overall IN.	Groove Radius IN.	Flare Angle Degrees	
			Polished Groove	Urethane	Polished Groove	Urethane	Height		Width				Polished Groove	Urethane
							Polished Groove	Urethane						
	A	B	C		D		E		F	G	H	I	J	
10	10	1 7/8	7 11/16	7 15/16	9 15/32	9 11/32	4 59/64	4 51/64	2 1/8	19 7/16	4 1/4	17/32	13	13
12	12	2	9 5/8	10	9 1/2	9 5/16	5 3/64	4 55/64	2 1/4	20 15/16	4 1/8	19/32	13	13
14	14 19/40	2 1/8	11 76/77	12 11/46	10 2/29	9 33/35	5 7/13	5 7/17	2 3/8	24 1/16	5 5/32	13/20	15	12
16	16 1/2	2 1/4	14	14	10 1/32	10 1/32	5 29/64	5 29/64	2 1/2	26 1/32	5 1/2	23/32	17	15

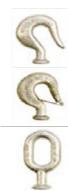
SPECIFICATIONS

SIZE (NOM)	MAXIMUM CONDUCTOR OD, IN.	MAXIMUM WORKING LOAD LB.	BLOCK WEIGHT (NOM)	MATERIAL		EFFICIENCY
				FRAME	SHEAVE	
10	Refer to IEEE Standard 524 (2016)	6,500	11 1/2	A356-T6 Aluminum- (virgin)		98%
12		6,500	14 1/2			
14		7,500	18			
16		9,000	22			

Block Ground



ADDITIONAL FITTINGS



#1 Hook

#1 Hook with Safety Latch

#6 Oval Eye



#8 Clevis

#3030 Y-Clevis

ACCESSORIES

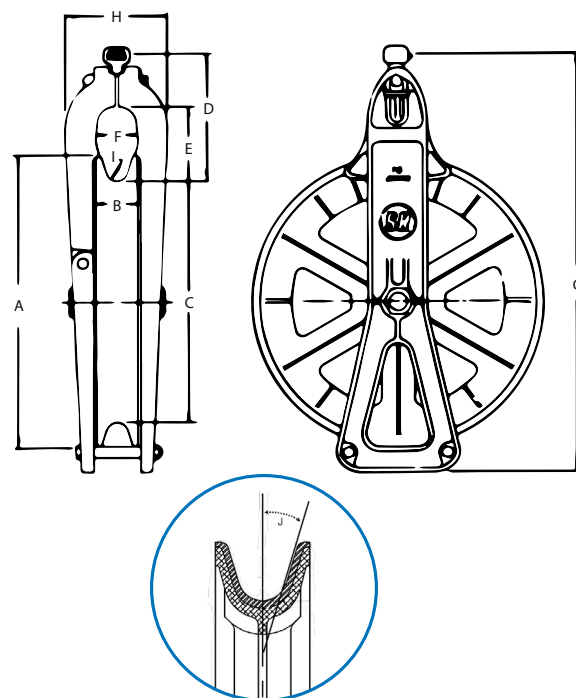
BLOCK GROUNDS

Provides direct grounding to the conductor or pulling line via an aluminum or steel sheave to maintain voltage drain for safer working conditions. This sheave applies constant contact against the conductor via spring-action from underneath the wire which prevents the block from “yawing”. Block grounds are available for **72, 74** and **78** Series Transmission Blocks.

78 SERIES

FEATURES

- Construction of single conductor type transmission lines, industry standard.
- Large enough for bigger conductors yet still light and easy to handle.
- Throat sections is sufficiently large to permit passage of sleeves and connections of most types encountered in new construction and reconductoring.
- All aluminum alloy throughout.
- Mounted on anti-friction ball bearings for easy, accurate sagging.
- Socket connector fitting standard.
- S+R exclusive positive locking head pin.
- Tandem available in 35 in. and 42 in. to reduce break-over angle.
- The 46 1/4 in. 79 Series is designed for large throat openings that allow the passing of “dead ends” often associated with river crossings. Also available with a urethane lining.



COMPLETE DIMENSIONS

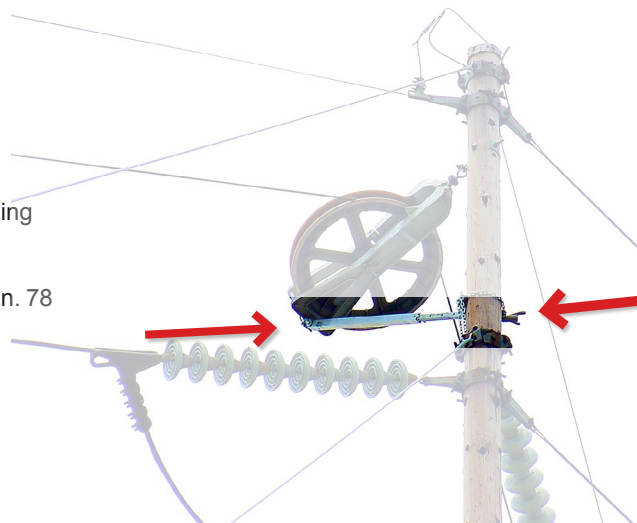
SIZE [NOM]	SHEAVE OD IN.	RIM WIDTH IN.	GROOVE BOTTOM DIA. IN.		CONNECTION POINT TO GROOVE BOTTOM IN.		THROAT DIMENSIONS IN.			HEIGHT OVERALL IN.	WIDTH OVERALL IN.	GROOVE RADIUS IN.	FLARE ANGLE DEGREES	
			Polished Groove	Urethane	Polished Groove	Urethane	Height		Width				Polished Groove	Urethane
	A	B	C		D		E			F	G	H	I	J
20	20	3 1/8	16	16 1/4	10 3/8	10 1/4	5 11/16	5 9/16	3 1/8	30 1/8	7 5/8	13/16	15	16
22	22	3 1/8	18	18 1/8	10 3/8	10 5/16	5 11/16	5 5/8	3 1/8	32	7 7/8	13/16	17	17
28	28	3 1/4	23 3/4	24	10 1/4	10 3/8	5 13/16	5 11/16	3 1/4	38 1/8	7 3/4	1	15	15
28-A	28	3 1/4	-	24	-	10 3/8	-	5 11/16	3 1/4	38 1/8	7 3/4	7/8	-	15
35	35	4	-	30 1/4	-	12 13/4	-	8 1/32	4 1/2	47	10 3/8	1 1/8	-	15
42	42	4 1/2	-	36	-	17 3/8	-	9 3/4	5	58	12 1/2	1 1/8	-	17
46.25	46.25	5.00	-	40.00	-	14.50	-	6.75	4.00	61.00	10.00	1 3/8	-	15

SPECIFICATIONS

SIZE (NOM)	MAXIMUM CONDUCTOR OD	MAXIMUM WORKING LOAD LB.	BLOCK WEIGHT (NOM) LB.	MATERIAL		EFFICIENCY
				FRAME	SHEAVE	
20	Refer to IEEE Standard 524 (2016)	12,000	42	A356-T6 Aluminum- (virgin)	98%	
22		12,000	46			
28		12,000	62			
28-A		12,000	68			
35		12,000	115			
42		17,000	155			
46.25		17,000	185			

BSD-748 BLOCK SUPPORT DEVICE

- Will adjust to fit wood or concrete/steel poles.
- Capable of “floating outward” should the load and force during stringing dictate more angle.
- Fits sizes 12 in. through 16 in. 74 series and sizes 20 in. through 35 in. 78 series Sherman + Reilly single conductor stringing blocks.



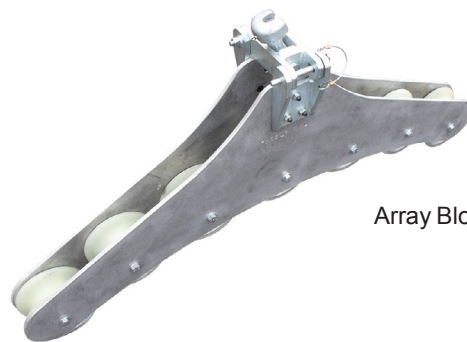
BSD-748

ARRAY BLOCK

FEATURES

Used to create gentle break-over angles in typical applications like the first tension-site tower, last pull-site tower, and for towers with running angles greater than 24 degrees.

- Available in 7-sheave and 14-sheave designs.
- Carries less than 9-degrees per roller.
- Supports ACCR conductor.



Array Block

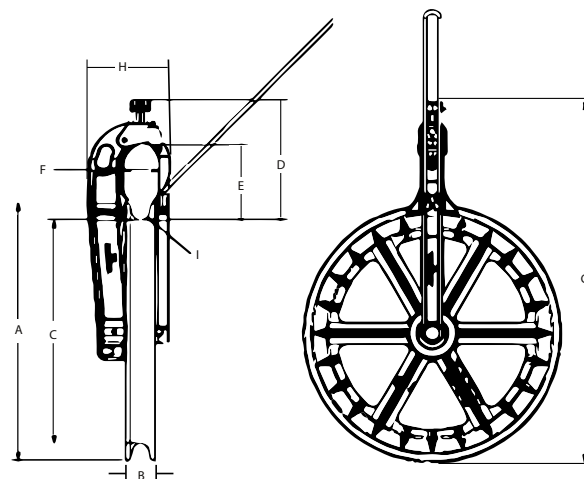
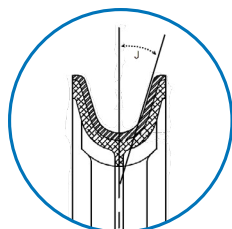
SPECIFICATIONS

SHEAVES	MAX WORK LOAD LB.	BREAKOVER ANGLE	RADIUS IN.	BOTTOM OF GROOVE DIA. IN.	LINING	SIDE FRAMES
7	7,500	60 degrees	60	4 1/2 - 4 7/8	Urethane or Polished Groove	Aluminum
14	7,500	90 degrees	60	4 1/2 - 4 7/8	Urethane or Polished Groove	Aluminum

72 SERIES

FEATURES

The 72 Multiversal Series stringing blocks offer flexibility. With a few exceptions, 72 Series stringing blocks may be configured for 22 in., 28 in., 35 in. and 42 in. (OD) sheaves.

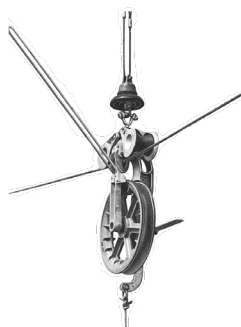


COMPLETE DIMENSIONS

SIZE (NOM)	SHEAVE OD IN.	RIM WIDTH IN.	GROOVE BOTTOM DIA. IN.	CONNECTION POINT TO GROOVE BOTTOM IN.	THROAT DIMENSIONS IN.		HEIGHT OVERALL IN.	WIDTH OVERALL IN.	GROOVE RADIUS IN.	FLARE ANGLE DEGREES
					Height	Width				
	A	B	C	D	E	F	G	H	I	J
22	22	3 1/8	18 1/8	13	8 1/4	4	33 15/16	9 1/4	13/16	17
28	28	3 1/4	24	13 1/32	8	3 5/16	39 15/16	9 1/4	1	12 1/2
35	35	4	30 1/4	15 5/8	10 1/4	4 23/32	48 15/16	11	1 1/8	15
42	42	4 1/2	36	16 29/32	11	5 1/16	55 15/16	12 5/32	1 1/8	17

SPECIFICATIONS

SIZE (NOM)	MAXIMUM CONDUCTOR OD, IN.	MAXIMUM WORKING LOAD LB.	BLOCK WEIGHT (NOM) LB.	MATERIAL		EFFICIENCY
				FRAME	SHEAVE	
22	Refer to IEEE Standard 524 (2016)	12,000	54	A356-T6 Aluminum- (virgin)		98%
28		12,000	65			
35		12,000	115			
42		17,000	145			



ACCESSORIES

HELICOPTER ARM ATTACHMENT S&R MODEL NO. 7212-H

The Sherman + Reilly Single Multiversal Block is shown with the helicopter “outrigger arm” attachment. This block also features the double uplift rollers and hold down attachment that are available (not shown). This basic block is the same as would be used for normal single conductor stringing, or combined with sheaves or drums for bundle conductor stringing.

GENERAL INSPECTION GUIDANCE FOR BLOCKS

Too often blocks are the last thing thought of when getting ready for a conductor pull but they are the first item installed for the pull and are integral to the job. While it is very important that the blocks be adequately sized for the conductor being pulled, it is also very important that the condition and quality of the block is good. A block that is in good shape with good bearings will spin easily. A cheap, damaged, or worn-out block will cause increased pulling and tensioning loads, potentially above the safe working load of the block or structure. Do not neglect to check each and every block to be used on the job to make sure they spin easily and smoothly. A single bad block can cause a major issue during the pull, shutting down the entire job and even cause dangerous situations.

CHECKLIST FOR INSPECTING BLOCKS:

- 1 First, give the block a thorough visual inspection. Check for loose, broken, or missing parts.
- 2 Inspect the block side frames for cracks.
- 3 Inspect the sheave(s) for cracks.
- 4 Check to make sure any “keeper” cables for ball-pin locks are in good shape, properly connected and fastened. Confirm the ball pin locks and springs are operating properly. Add a bit of light, penetrating oil if needed.
- 5 Confirm the frame locking mechanism is engaged, locking the frame in place. If the block looks good visually, next check to make sure the block spins freely. If it’s a smaller distribution block you may be able to hold it up and give it a spin with your hand. If it’s full frame block, stand it up and give it a spin. If the block is a half-frame, 72-Series, hang it from the socket connector on something sturdy and give it a spin. Listen for any grinding in the bearings. You can also carefully feel the outside of the hub with your fingers to feel for any vibration caused by bad bearings. **(WARNING: Keep your fingers clear of the hub spokes.)** A good block will spin freely and silently or very quietly. Sheaves should not be rubbing on the side of the frame. There should be very little to no wobble. Bundle block sheaves should not rub on one another; they should each rotate freely and independently.
- 6 If the block sheave is lined, with urethane for example, visually inspect that the lining is well bonded to the flanges of the sheave. Look for any areas where the lining is pulling away from the sheave flange. Visually inspect and feel the bottom of the groove to make sure there are no tears or burns in the lining.
- 7 If the block is gated, check to make sure the gate is functioning properly; that it can be opened, and that it will spring back closed, and lock. If needed, clean and add a bit of light oil to make sure the mechanisms are working smoothly.
- 8 Confirm any frame bolts are securely fastened. If any bolts are loose, apply Loctite® 243 or equivalent and retorque the bolt (*refer to a torque chart for proper torque*). Be careful not to over tighten, which could cause the sheave to bind and resist rotation. The sheave should turn freely.
- 9 Check the hanging hardware – socket connector. Make sure the connector you are using is rated for the block and planned load. Visually inspect to confirm that it is seated and installed in the socket connector. Make sure the cotter/keeper pin is present and in good shape to hold your hanger securely in the socket. The cotter pin should be placed in the “out” position to receive a hook or clevis.
- 10 **Seating Socket Connectors:** Once the hook/clevis fitting is seated, the cotter pin should be firmly tapped back into place to hold the hook/clevis securely in the socket. **(WARNING: Failure to securely seat the cotter pin can cause the hook/clevis to work loose causing the block to fall.)**

INSPECTING BLOCK HELICOPTER ATTACHMENT:

- 1 Clean the helicopter cable gate assembly free from any debris/dirt. De-grease and reapply new grease.
- 2 With block sitting on the ground, hold hanging strap on "cable-gate " side and rotate the "pac-man" to verify smooth rotation. (**CAUTION:** DO NOT PLACE FINGERS NEAR POINT WHERE THE CABLE-GATE MEETS THE HOUSING.)
- 3 Trigger should be able to move back and forth freely.
- 4 Trigger pin should line up with slot cut in the "cable-gate."
- 5 Ball lock pins should operate properly.
- 6 Hanger straps should not be damaged or bent in a way that would compromise their integrity.
- 7 Outrigger arm should slide easily into slot on "cable-gate" frame and should not be bent.
- 8 Barn doors should stay open after being tripped and clear of the way of the sheave.
- 9 Check springs on barn doors for integrity.
- 10 Barn doors should not rub on sheaves at any point.
- 11 Barn doors should be parallel to one another.
- 12 All bolts should be tightly fastened.
- 13 Check all steel safety wire for frays and cuts. If damaged, replace.

INSPECTING BLOCK GROUND:

- 1 All bolts should be tightly fastened.
- 2 Push down on both arms to verify operation of arms.
- 3 Check each upper and lower spring bracket for damage that would compromise their integrity.
- 4 Check rod and tube on spring assembly for deformation.
- 5 Check ground strap for damage - if damaged it must be replaced.
- 6 Each ground sheave should maintain a minimum of a 1/4" gap between ground sheave and conductor sheave.
- 7 The cam rotation of the ground sheaves should function properly.
- 8 Spin each ground sheave to check for free rotation.
- 9 Sheaves should not rub against another sheave during rotation.
- 10 Inspect sheave for damage that may compromise the integrity of the sheave.
- 11 Ground sheave pin should not be bent.
- 12 Check all steel safety wire for frays and cuts. If damaged, replace.



SHERMAN+REILLY®

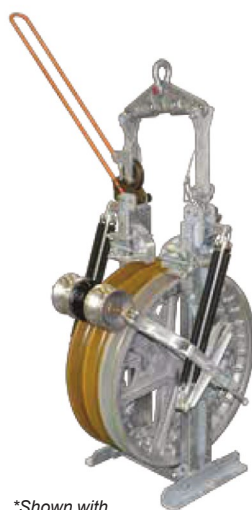
70 SERIES

70 SERIES

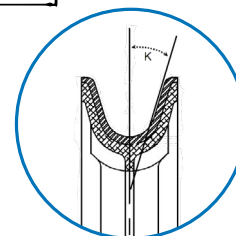
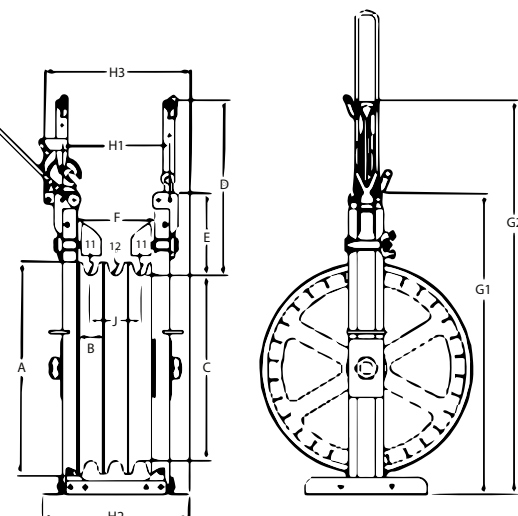
FEATURES

Bundle Blocks are available in two, three, four, and six-conductor configurations per phase, with or without separate pulling-line sheave. The 70 Series stringing blocks have rigid frames made of hot-dipped galvanized steel, and are available in three designs: symmetrical, slim line, or offset. Bundle stringing blocks are ideal when the versatility of field - reconfiguration of the blocks is desired to meet the demands of changing stringing needs and conditions.

- Can be made in tandem to reduce break-over angle.
- Up to 6 sheave bundle block available.



*Shown with Head Bar sold separately.



COMPLETE DIMENSIONS

SIZE (NOM)	SHEAVE OD IN.	RIM WIDTH IN.		GROOVE BOTTOM DIA. IN.	CONNECTION POINT TO GROOVE BOTTOM IN.	THROAT DIMENSIONS IN.		HEIGHT OVERALL IN.		WIDTH OVERALL IN.			GROOVE RADIUS IN.		CENTER POINT IN.	FLARE ANGLE DEGREES	
		Outside Sheaves	Inside Sheaves			Height	Width	Block	Upper Mount	Outside Mounting Holes	Widest Point at Base	Widest Point w/ HWA-70	Outside Sheaves	Inside Sheaves		Outside Sheaves	Inside Sheaves
	A	B		C	D	E	F	G1	G2	H1	H2	H3	I1	I2	J	K	
28	28	3 1/4	4 3/4	24	30 1/2	13 5/8	12 1/4	43 1/8	61 1/8	18	23 3/4	24 1/16	1	1 9/32	8 1/2	12.5	15
32	32	3 1/4	4 3/4	28	30 1/2	13 3/4	12 1/4	47 1/2	64 1/4	18	23 3/4	23 5/16	1	1 9/32	8 1/2	12.5	15
36.5	36 1/2	4	4	32	28 13/26	14 1/2	13	52 1/8	67 1/2	18	24 1/2	24 7/16	1 1/8	1 1/8	8 1/2	15	15
42	—	—	—	—	29 3/16	15 5/8	14 1/2	58 5/8	72 3/16	20 1/16	26	26 3/16	—	—	9 1/2	—	—

SPECIFICATIONS

SIZE (NOM)	MAXIMUM CONDUCTOR OD, IN.	MAXIMUM WORKING LOAD LB.	WEIGHT (NOM.) LB.			MATERIAL		EFFICIENCY
			BLOCK	BLOCK w/HWA-70	BLOCK w/HWA-70 & BG	FRAME	SHEAVE	
28	Refer to IEEE Standard 524 (2016)	15,000	235	285	345	Steel	A356-T6 Aluminum- (virgin)	98%
32		15,000	275	325	385	Steel		
36.5		15,000	410	460	520	Steel		
42		12,000	427	—	—	Steel		

ACCESSORIES

- Hold Down Rollers
- HWA-70 Helicopter Arm Attachment
- Head Bar single or dual point suspension
- Stands
- Bundle Block Grounds

HARD NOSE RUNNING BOARD

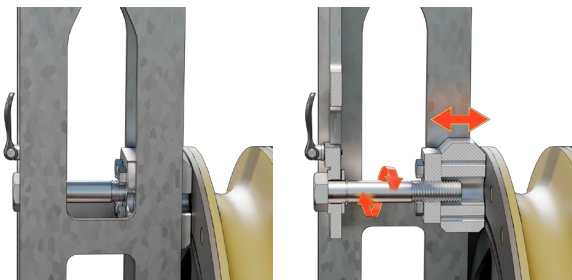
Sherman + Reilly Model Hard Nose Running Boards are designed to work “hand-in-glove” with all Sherman + Reilly Bundle Blocks: 2-conductor, 3-conductor, 4-conductor or 6-conductor. For other configurations, please contact S+R.



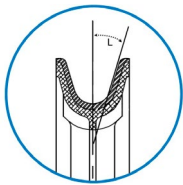
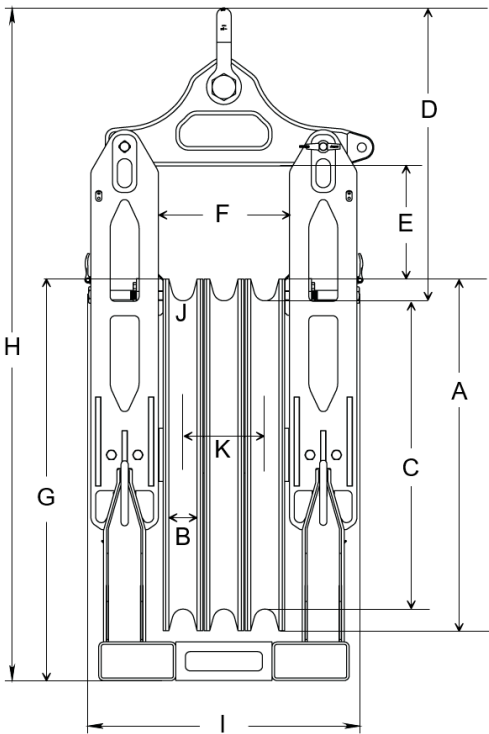
60,000 LB. WLL D&A STRINGING BLOCK

FEATURES

- Can be used for large running angles and dead-ends where topography or land-use limit set-up options.
- Removable base.
- Light-duty helicopter compatible.
- 3 conductor bundle block.
- High-capacity.

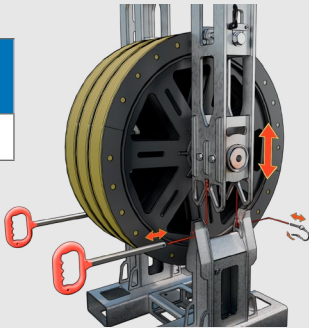


Detail: gap closure device



SIZE SHEAVE (NOMINAL)	RIM WIDTH IN.	BOTTOM GROOVE DIA. IN.	CONNECTION POINT TO GROOVE BOTTOM IN.	THROAT DIMENSIONS IN.		HEIGHT OVERALL IN.		WIDTH OVERALL IN.	GROOVE RADIUS IN.	CENTER POINT IN.	FLARE ANGLE DEGREES
				HEIGHT	WIDTH	BLOCK	UPPER MOUNT				
A	B	C	D	E	F	G	H	I	J	K	L
36 1/2	4 1/8	32	30 7/16	11 3/4	13 5/8	41 5/8	69 13/16	28 1/8	1 1/8	8 1/2	15°

MAX WORKING LOAD LIMIT, LB. *DESIGN FACTOR MIN. 2:1	BLOCK WEIGHT, LB.	BLOCK WEIGHT WITHOUT BASE, LB.
60,000	1,150	1,030



Removable base



SHERMAN+REILLY®

SPECIALTY TRANSMISSION BLOCKS

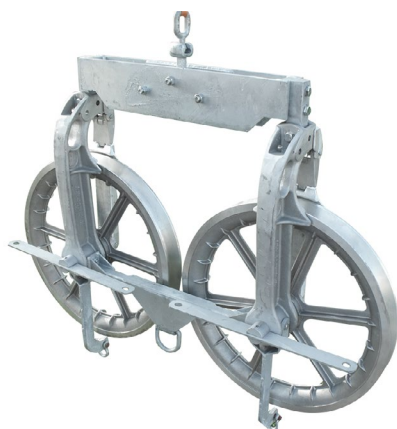
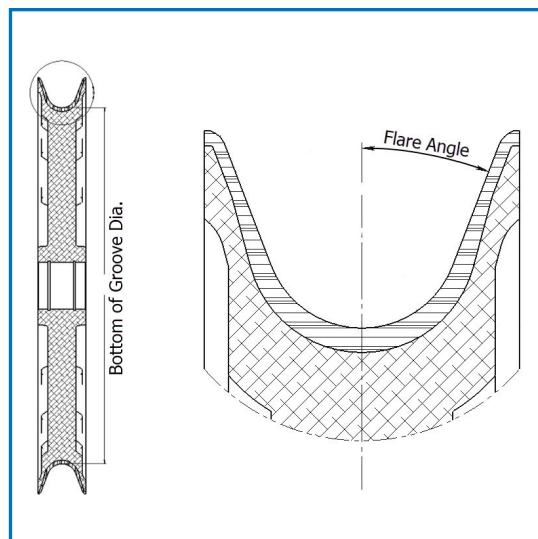
Sherman+Reilly can support your twisted pair conductor and specialty block needs. Contact us at 423.756.5300 or via email at sales@sherman-reilly.com.

Specially designed conductors, like twisted pair and composite core conductor, may require special sheave size and groove geometry or a specific sheave lining to protect the conductor. Sherman+Reilly is experienced in providing specialty sheave grooves and liners for both single and twisted pair conductor configurations, and can help ensure you are compliant with the bottom of groove diameter, profile, and flare angle required by the conductor manufacturer.

We have been designing and building utility stringing blocks for over 80 years. Contact us for your specialty block needs. We can help you with your next transmission project.



Specialty bundle block sheave groove for twisted pair conductor



72 Series Tandem Block

We can also support your needs for tandem and high-working load blocks to help eliminate concerns for large breakover angles and dead-ends.

Contact us for assistance with a specialty block quote.

STRINGING BLOCKS

MODEL XL-100

Sheave Size

- 11.75"



XS-100

Sheave Size

- 7"

Sheave Materials

- Polished Groove
- Urethane
- Ductile Iron
- Nylon



HLB-472

Rope Sizes

- 3/8" to 5/8"



SNATCH BLOCK

Sheave Size

- 6.5"

Length

- 17"



9511

Sheave Size

- 6"
- 8"
- 12"



XS-707

Sheave Size

- 8"
- 10"



XS-100 FASTRAP®

Cross-Arm Sizes

- 3.5" x 4.5"
- 4" x 10"

Breaking Strength

- 9,000 lb.



70 SERIES

Sheave Size

- 28" ▪ 36.5"
- 32" ▪ 42"

Sheave Count

- 2 to 6



HOLD DOWN BLOCKS

Sheave Size

- 7"
- 14"



74 SERIES

Sheave Size

- 10" to 16"



78 SERIES

Sheave Size

- 20" to 46.25"



UNDERGROUND BLOCKS



UG-72



UG-71



UG-73

Sheave Size

- 7"

Sheave Count

- 1 to 3

SPIDER SYSTEM FOR DISTRIBUTION

The Sherman + Reilly Spider System is an integrated set of special equipment, special reels, rope, and accessories for the fast and easy installation of pulling lines for the installation of distribution-class conductors.

- Increases productivity by eliminating extra climbs and set up time normally associated with “finger lines.”
- Increases safety and reduces liability and vandalism by eliminating dangling “finger lines.”
- Facilitates concurrent deployment of up to four lines.
- Main elements consist of a positive braking controller, a storage reel, and a Spiderflex Rope.
- Available in two series, S-7500 and S-8500, supporting 3,000 and 6,000 feet of rope, respectively.
- Spider Storage Reel can also be used with a pole mounted winch or line truck for pulling in the pulling line.
- **Maximum working load: 500 lb.**



Spider Braking Controller

COMPONENTS

- Spider Positive Braking Controllers
 - Brake permits pulling of rope but engages when rope is slack, no overspin
 - Mounts to wood poles with single lag screw, or any material with adjustable chain mount.
- Spider Storage Reels
 - Stores pilot line rope
 - Designed for use with Spiderflex Rope
 - S75SR - 3,000 ft. rope capacity
 - S85SR - 6,000 ft. rope capacity
- Spiderflex Rope
 - Torque-free, non-twisting, splices easily, stays flexible
 - Available in red, green, blue, and black



S-7500



S-8500

STANDARD SPIDERFLEX ROPE

STANDARD SPIDERFLEX ROPE	
Size	5/16 in.*
Material	Polyester Over Polyolefin
Construction	Single Braid, 12 Strand
Pounds/100 ft.	2.3 lb.
Breaking strength	3,240 lb.
Coating	Polyurethane
Characteristics	Low stretch, torque-free with excellent abrasion and ultraviolet (UV) resistance. Easy to splice.

* Only 5/16 in. rope recommended for use with Spider Systems



SPIDER SYSTEM ACCESSORIES

The Sherman + Reilly S-8500 Series Spider System offers the same features of the S-7500 Spider in addition to holding 6,000 feet of rope, which is twice the length of the conventional Spider.

S-75-WA SPIDER WINCH SHAFT ADAPTER

The S-75-WA winch shaft adapter can be used with a line truck winch and an S-7500 or S-8500 Spider reel to take up Spider rope instead of using a puller outfitted with a hydraulic Spider rewind. The new Sherman + Reilly S-75-WA is manufactured out of steel and is CNC precision machined for a more precise fit. The newer version has less “slop and lope” when pulling in the Spiderflex rope than the older cast winch shaft adapter.



SST-7585 SPIDER® TREE

The SST-7585 Spider Storage Tree is an ideal companion for either the S-7500 or S-8500 Spider Systems. It can store up to four controllers with reels (and rope) and one adapter. Easy to locate in the warehouse and immediately ready to go to the job site. Accommodates either the S-7500 or the S-8500 series complete. The lifting eye allows Storage Tree to be picked up and carried by fork lift and loaded on line truck with boom. The Spider Tree eliminates handling of individual reels and controllers and reduces breakage. Available with or without vinyl cover.

FEATURES

- S-85-SR Storage Reel holds 6,000 ft. of 5/16 in. Spiderflex rope.
- S-85-C Controller accommodates either S-85 or S-75 Storage Reels.
- S-85-SR Storage Reel will not fit existing conventional S-75-C Controller.
- S-75-C Controllers can be factory-modified to accept either reel. S+R controllers require no adjustments for braking during operation.
- S-75-WA Winch Adapter fits either S-85 or S-75 Storage Reel.
- If you have construction requirements for pulls requiring 6,000 feet of rope, the S-8500 Series Spider System is ideal. However, two S-7500-SR Storage Reels (each with 3,000 feet of rope) can be used for pulls requiring 6,000 feet of rope also. This is done simply by connecting two smaller reels together.
- All S+R S-7500 and S-8500 Spider parts are interchangeable. We have an operator's and parts manual available for your Spider System.



Spider Storage Reel Assemblies with Rope mounted to a pole

KELLEMS™ GRIP FOR SPIDERS

Typically, most customers who receive new Spider Reels with 5/16 in. Spiderflex rope will splice a very simple eye in the end of the rope to serve as a connection point. When the installation is finished, the end of the rope (with the simple eye) is attached to the larger 5/8 in. rope on the pulling machine. The method of connection is with a standard pulling swivel. One end of the swivel is attached to the Dua-pull grip on the 5/8 in. pulling rope and the other end directly to the eye splice in the 5/16 in. Spiderflex rope.

The attachment of the 5/16 in. Spiderflex rope directly to the swivel presents a problem: The Spider rope will get excessive wear from being attached to the swivel pin, as well as rubbing on the edges of the slot in the ends of the swivel, and eventually fail if not inspected regularly!

Solution: Install a Dua-pull grip on the 5/16 in. rope with two Punch-Lok clamps securely holding the tail. This step will dramatically reduce the potential hazardous condition.

THE CONNECTION BETWEEN THE TWO ROPES ALWAYS NEEDS TO BE: TWO FLEX EYE GRIPS AND A SWIVEL

SWIVELS AND CONNECTORS

FEATURES

- Designed for overhead line stringing
- Neoprene seals with stainless steel spring retainers
- Precision machined, alloy steel
- Compatible with strengths of pulling line and grips

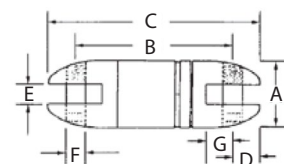


SWIVELS

Specifically designed for overhead line stringing, these swivels are reliable, heavy duty product with adequate load rating for tension stringing, yet small enough in diameter to pass through conductor stringing blocks. Swivels should never be passed through bullwheels. Be sure to check the diameter of the swivel against the dimension on the blocks, etc. Swivels are precision machined, alloy steel and heat-treated for maximum strength and wear. Swivels should be compatible with the strengths of pulling line and grips. These swivels D-160 3/4 in. are not recommended for underground use in conduit.

SWIVEL DIMENSIONS

Model No.	Wire Rope Size in.	Max Working Load, lb.	A in.	B in.	C in.	D in.	E in.	F in.	G in.	Swivel Wt., lb.
A-18	1/4	1,800	7/8	2 15/32	3 3/8	15/32	5/16	5/16	19/32	3/8
B-40	1/2	4,000	1.25	3.66	4.51	.44	.59	.38	.69	1
B-75	1/2	7,500	1 1/2	4	5 3/8	11/16	5/8	7/16	7/8	1 3/4
C-100	5/8	10,000	1 7/8	5 7/16	7 1/16	13/16	3/4	5/8	15/16	4
D-160	3/4	16,000	2 2/16	7 7/8	10 1/8	1 1/8	1	7/8	1 9/16	8
D-300	1	30,000	2 1/2	8 29/32	11 5/32	1 1/8	1	7/8	1 9/16	9

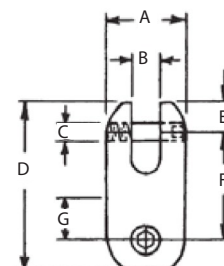


CONNECTORS

Sherman + Reilly connectors are a convenient, economical way to connect when rotation is not needed or is detrimental. These connectors do not rotate. They are not intended as a swivel replacement if rotation is desired. These connectors provide a fast, cost-effective method of connecting pulling lines and conductors. Constructed of high-strength, heat-treated steel, connectors are short and light with a contoured nose to allow easy passage through sheaves.

CONNECTOR DIMENSIONS

Model No.	Max Working Load, lb.	A in.	B in.	C in.	D in.	E in.	F in.	G in.
L-40	4,000	1 1/4	1/2	3/8	2 3/4	5/16	1 7/8	3/4
L-75	7,500	1 7/16	9/16	7/16	3 5/16	9/16	2 3/16	27/32
L-100	10,000	1 7/8	3/4	5/8	4 1/2	13/16	2 7/8	1 1/8
L-133	13,300	2	3/4	5/8	4 3/4	7/8	3	1 1/8
L-160	16,000	2 7/16	1	7/8	6 1/8	1 1/8	3 7/8	1 9/16



DUA-PULL® PULLING GRIP (KELLEMS™)

- Ideal for Sherman + Reilly Uniline™ rope
- Up to 200% stronger than other high-strength pulling grips
- Dua-Pull mesh design offers improved holding power
- Recommended for pulling bare or insulated conductor, cable, wire rope, and synthetic ropes

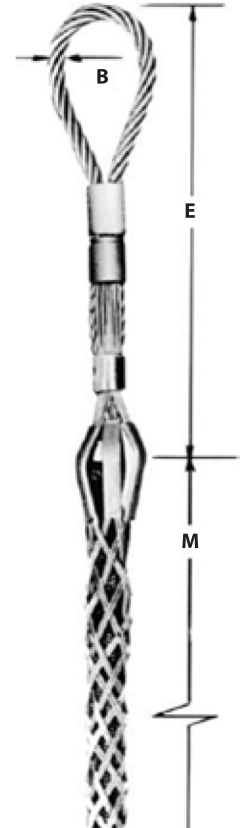
Dua-Pull grips from KELLEMS are the highest strength pull grips manufactured for overhead transmission line stringing applications. They have a dual function of working with both bare and insulated conductors and synthetic rope which is not provided by any other grips.

Key to the exceptional strength and gripping ability of the Dua-Pull grips is its two under-two over mesh design. This puts more steel mesh in contact with the surface of the conductor or rope, thereby increasing gripping ability even on slick, stretchy synthetic ropes. Dua-Pull strengths and gripping have been increased over conventional high-strength pull grips by as much as 200 percent. Dua-Pull grips are as strong or stronger than most of the high-strength conductors and ropes made.

Only six sizes are needed when selecting a grip. Dua-Pull fits conductor diameter ranges from .19 in. to 1.90 in. and rope diameter ranges from .25 in. to 2.10 in. with approximate breaking strength ranges from 6,500 lb. to 66,500 lb. This range covers most utility and high line stringing operations. Larger sizes will be manufactured to meet specific requirements.

In answer to the need for a simplified way to select the correct grip to fit rope or conductor, Kellems has color-coded each of the Dua-Pull grips. Color has been applied to a sleeve above the grip collar representing the rope or conductor diameter range with which the grip is to be used. There can be no mistake in selecting the correct grip for the job. With the help of the hand Dua-Pull selector chart, job site grip selection is accurate, easy and fast.

Sherman + Reilly swivels and the pulling line connectors are available for matching Dua-Pull grips for line stringing applications. The swivel provides completely independent rotation between the conductor and the pulling line. The connector is designed for applications where swiveling action is not desired. Dua-Pull grips will also accommodate the self-dampening conductors (SDC), but special installation is required. Consult the conductor manufacturers for information.



GRIP DIMENSIONS

Dimensions, weights, and capabilities are approximate. Manufacturer's specifications subject to change without notice. All dimensions shown are in inches unless otherwise specified.

Catalog No.	Color Code	Diameter Range		Max Working Load, lb.	Approx. Breaking Strength, lb.	Eye Dia. (B)	Eye Length (E)	Mesh Length at Nominal Dia. (M)	Dia. Over Cable & Grip Add to Cable or Rope Dia.	Use with Swivel
		Conductor Dia.	Rope Dia. ‡							
1037	Black	.19 - .37	.25 - .65	1,300	6,500	.218	10	24	.200	A-18
1038	Green	.38 - .62	.50 - .90	2,800	14,000	.375	12	36	.280	B-40
1039	Red	.62 - .87	.75 - 1.10	4,000	20,000	.437	13	48	.360	B-75
1040	Blue	.88 - 1.12	1.00 - 1.50	6,120	30,600	.500	15	60	.500	C-100
1041	Yellow	1.13 - 1.37	1.25 - 1.70	9,350	46,800	.625	18	76	.625	D-160
1042	Aluminum	1.38 - 1.90	1.50 - 2.10	13,300	66,500	.750	24	89	.750	D-300

‡ For rope, select the smallest size grip that meets the required working load. Double braided rope, as 2-in-1 type, should be back spliced for approximately 2/3 of the mesh length for best results.
NOTE: Do not run grips or swivels over bullwheels while under tension. Banding is required for maximum reliability and to guard against accidental release.

DUA-PULL® FEED TUBE

The KELLEMS™ Dua-Pull Feed Tube is used when assembling synthetic rope into the Dua-Pull grip. It is required on the largest two sizes of Dua-Pull grips. Feed Tubes are available for use on all size Dua-Pull grips. The Feed Tubes are a one-piece assembly made of lightweight aluminum construction. The nose cone is tapered and the body is a thin-walled tube. A hard coat finish is on the Feed Tube to reduce friction of the metal to metal contact. Complete installation instructions are shipped with each Feed Tube.

KELLEMS DUA-PULL FEED TUBE

Dimensions, weights, and capabilities are approximate. Manufacturer's specifications subject to change without notice. All dimensions shown are in inches unless otherwise specified.

Feed Tube Model No.	Dua-Pull Grip Model	Rope Dia.	Feed Tube Length
1043	1037	.25 - .65	28
1044	1038	.50 - .90	40
1045	1039	.75 - 1.10	52
1046	1040	1.00 - 1.50	67
1047	1041	1.25 - 1.70	83
1048	1042	1.50 - 2.10	96

PUNCH-LOK® TOOLS AND BANDS

The Punch-Lok bands are applied over the tail of Dua-Pull Grips to prevent the mesh from being stripped or pulled loose. Also, it ensures full gripping action by locking the mesh of the tail in tight contact with the cable or rope. When a Grip is used such that the tail is a leading end, the Bands are particularly important to prevent an accidental release caused from tripping by any obstruction. A conductor-to-conductor (double-socking) pulling operation is a good example, where two grips are used to connect two connectors together to form a temporary splice. Two bands should be double wrapped to the ends of the Grips. It is also common practice to tape over the banded tail area to ensure smooth passage through the sheaves.

Note: Two Punch-Lok Bands shall be firmly attached approximately one inch and two inches from the Grip's tail.

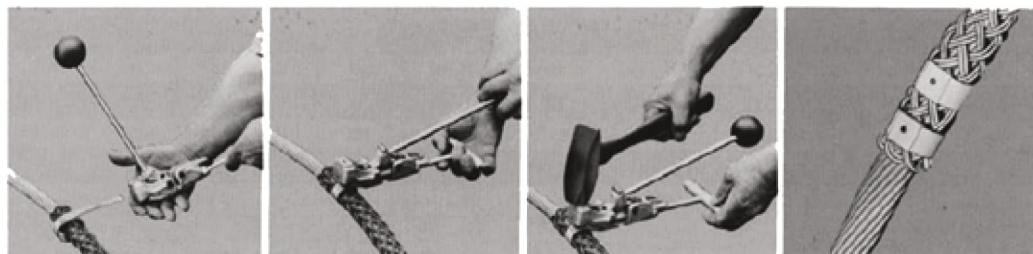
PUNCH-LOK BANDS

Dimensions, weights, and capabilities are approximate. Manufacturer's specifications subject to change without notice. All dimensions shown are in inches unless otherwise specified.

Model No.	Grip Banding Range	Band Width	Std. Per Box
311	3/8 - 1	.375	100
12	1 - 3	.625	50

P-1® LOCKING TOOL

Designed for fast, economical application of the Punch-Lok clamps, the portable P-1 weighs only 2-1/2 lb. It is drop forged and double plated tempered steel and has a comfortable ball handle for tensioning clamps. The Model D-229 Adapter that fits under pusher nose to apply 3/8 clamps, is included.



CONDUCTOR HOOK

FEATURES

- Urethane covered hook.
- Large diameter hole at top.

The Sherman + Reilly Conductor Lifting Hook is formed from high quality steel and designed to allow lifting of the conductor in a balanced plane to prevent “tipping.” The groove of the hook is covered with urethane to prevent damage to the conductor. There is a large diameter hole at the top for attachment to the chain hoist hook.

Conductor Hook



CONDUCTOR HOOK

Hook No.	Radius in.	Maximum Conductor in.	Support Length in.	Hole Diameter in.	Lining	Maximum Working Load, lb.
CH-5	1 1/2	2 1/2	8	1 1/16	Urethane	12,000

NB-200 NEUTRAL BRACKET BLOCK

This system concept eliminates stringing the neutral wire outside of the neutral bracket and later transferring it into place.

- Designed to fit a standard neutral bracket.
- Incorporates horizontal rollers to support pulling line and neutral wire.
- Easily slides into place with locking pin.
- After sagging the conductor, install tie wires and remove the block to complete the job.

NB-200



PM-1AG POLE TO TOP BLOCK

Ideal for light duty, pole top phase construction of small conductors

- Equipped with two polished aluminum alloy rollers.
- Supports conductor during straight stringing and angles up to 10 degrees.
- Fits onto standard NEMA 1 in. pin and with adapter, screws directly onto standard 1 in. NEMA pin.
- Clamp top keeps wire or pulling line from coming out at an uplift.

PM-1AG



PTC-24 POLE TOP CARRIER

- Designed for supporting an overhead ground or shield wire.
- Provides direct ground connection which can eliminate the tap required when using a porcelain insulator.
- 24."

PTC-24



RDG-2100

The RDG-2100 rotating distribution ground is designed to provide a continuous ground when mounted on the reel shaft and connected to the "pigtail" of the conductor reel.

- Allows reel and shaft free rotation while maintaining electrical ground.
- Ideal for situations when pulling insulated cable; Grounding accomplished to:
 - Installing RDG-2100 on the "pigtail" of the cable, anchored to the reel
 - Cutoff insulation on the end of the conductor exposing bare stranding
 - Provides a continuous electrical ground as the reel turns, paying out the cable
- Can also be used on bare aluminum conductor.
- Fits up to 2-5/8 in. diameter solid or pipe-type reel shafts.



RDG-2100

DG4100 RUNNING GROUND

- Available with steel sheaves.
- Designed to accommodate conductors from .250 in. diameter through 1.165 in.
- Open side design enables placing or removing the ground at any point.



DG4100 Running Ground

PE-12™



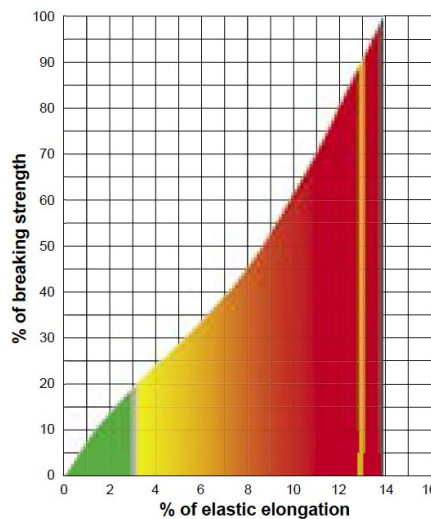
PE-12™ has been re-engineered, boosting its strengths significantly. Using the same high-tenacity fiber used in the value-packed Portland Braid, this polyester single braid offers a single-end-per-carrier construction, which keeps the rope from flattening out in service and self centers in sheaves beautifully. PE-12™ comes with the same tough grades of Maxijacket™ urethane used on more expensive products. PE-12™ is easy to splice, and field repairs are easily accomplished. It is available in unlimited lengths and brilliant colors for easy identification. PE-12™ is torque free and is undamaged when rigging with swivels.

SPECIFICATIONS

DIAMETER, IN.	WEIGHT LB./100FT	AVERAGE SPLICED BREAK STRENGTH* LB.	MINIMUM SPLICED BREAK STRENGTH* LB.	MAXIMUM** WORK LOAD 5:1 LB.
5/16	2.8	4,050	3,645	810
3/8	3.9	6,200	5,580	1,240
7/16	6.5	10,000	9,000	2,000
1/2	8.4	13,940	12,546	2,788
9/16	10.2	16,590	14,931	3,318
5/8	11.5	19,640	17,676	3,928
3/4	15.7	23,250	20,925	4,650
7/8	22.9	38,300	34,470	7,660
1	27.2	42,900	38,610	8,580

* Knots and abrupt bends significantly reduce the strength of all ropes and lower maximum working load.

** Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's rated working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.



ENERGY ABSORPTION

The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

- Green working 406 ft. lb./lb.
- Red ultimate 8,738 ft. lb./lb.

DIELECTRIC STRENGTH

The maximum allowable leakage for clean, dry PE-12 is 100 micro-amperes when tested at 100kV per Yale Method 712-1701 Rev 1 "Routine Production Test." Absorbed and entrained moisture or impurities will increase rope's conductivity dramatically.

Approved Splice Technique: #1001510

- Maximum Working Load
- Minimum Break Strength
- Average Break Strength

Specific Gravity: 1.38

UNITREX™



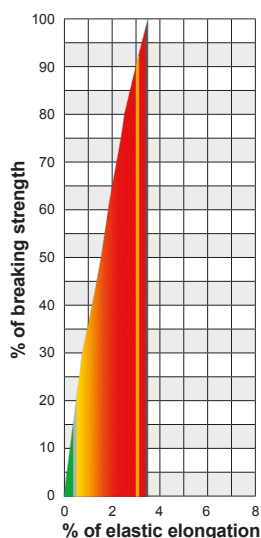
Unitrex™ XS Max Wear, Uniline's high-tech cousin, is a parallel-core rope of Honeywell Spectra®, wrapped with a neoprene tape and over-braided with a tough jacket of high-tenacity polyester. The result is a synthetic cable, somewhat stiffer than your usual rope, which is much like wire in its stretch characteristics. Unlike wire, it is much lighter and easily handled. Due to its toughness, Yale is comfortable assigning it a higher working load rating, which is 25% of its breaking strength. Unitrex™ XS Max Wear has high strength retention in service, which is supported by field studies and Yale's long-standing track record with Uniline™ polyester. Unitrex's™ tough rubber layer protects its high-modulus Spectra core, and the outer jacket is saturated with urethane, making it the toughest Spectra rope you can buy. All of Yale's parallel-core ropes are torque free, with bonded cores preventing contamination of the internal strength member. Unitrex™ XS can be quickly terminated and/or joined with a TechEye2 or TechJoin2.

Honeywell Spectra® Fiber

SPECIFICATIONS

DIAMETER, IN.	AVERAGE SPLICED BREAK STRENGTH, LB.	MINIMUM SPLICED BREAK STRENGTH, LB.	MAXIMUM** WORK LOAD 4:1, LB.	WEIGHT LB./100 FT.
0.44	20,000	18,000	5,000	6.7
0.53	26,000	23,400	6,500	9.2
0.58	34,000	30,600	8,500	11.4
0.63	42,500	38,250	10,625	13.5
0.71	50,500	45,450	12,625	16.9
0.84	73,500	66,150	18,375	24.2
1.00	100,000	90,000	25,000	32.4
1.15	125,000	112,500	31,250	42.4
1.25	158,000	142,200	39,500	52.5
1.40	195,000	175,500	48,750	64.9
1.75	264,000	237,600	66,000	92.6
1.94	310,000	279,000	77,500	98.8
1.99	360,000	324,000	90,000	113.3
2.20	430,000	387,000	107,500	144.0

** Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's rated working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.



ENERGY ABSORPTION

The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

- Green working 247 ft. lb./lb.
- Red ultimate 6,893 ft. lb./lb.

DIELECTRIC STRENGTH

The maximum allowable leakage for clean, dry Unitrex™ is 50 micro-amperes when tested at 100kV per Yale Method 712-1701 Rev 1 "Routine Production Test". Absorbed and entrained moisture or impurities will increase rope's conductivity dramatically.

Approved Splice Technique: #10018010, #10018008.

- Maximum Working Load
- Minimum Break Strength
- Average Break Strength

Specific Gravity: 1.10

UNILINE™

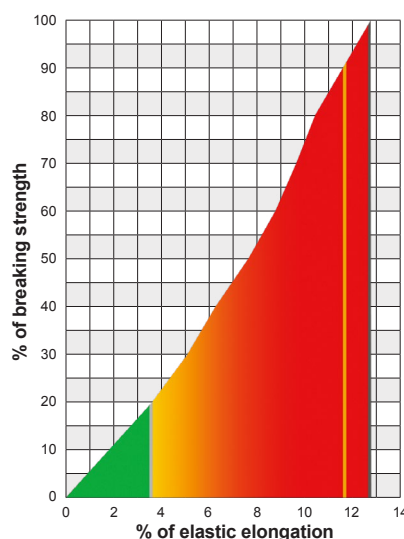
Uniline™ is a parallel-core cable of PET (polyester) filament. The Uniline™ core is bonded together with a rubber-based adhesive, wrapped with red rubber tape, over-braided with a tough polyester sleeve and entirely saturated with another rubber solution. The cable is then cured in an oven, causing the rubber to advance to a solid layer with very tough mechanical properties. The red rubber layer not only acts as a moisture barrier, but is also a wear indicator. This cable carries a 4:1 workload rating for overhead work and a 3:1 rating for underground work. Uniline™ is the toughest conventional polyester stringing line you can buy and minimizes the elasticity and stretchiness seen in polyester ropes. Ropes removed from machines having seen 20 years of service regularly test at 75% of the original strength and above. Uniline™ can be spliced both in eyes and as a running splice, delivering the full strength as cataloged. Alternately, Uniline™ can be terminated and/or end-for-end joined together with Yale's Techeye3 and Techjoin3 products. Uniline™ Lifeline is a specialized construction utilizing a solution-dyed polyester sleeve and no additional external coating. This product is available in only 1/2 in. and 5/8 in. diameters in the following color options - solid orange, solid black and solid gray.

SPECIFICATIONS

DIAMETER, IN.	AVERAGE SPLICED BREAK STRENGTH, LB.	MINIMUM SPLICED BREAK STRENGTH, LB.	MAXIMUM** WORK LOAD 4:1, LB.	WEIGHT LB./100 FT.
3/8	6,000	5,400	1,500	7.0
1/2	10,500	9,450	2,625	10.0
5/8	17,200	15,480	4,300	15.6
3/4	24,200	21,780	6,050	21.7
7/8	32,800	29,520	8,200	30.6
1	42,200	37,980	10,550	38.7
1-1/8	53,000	47,700	13,250	48.8
1-1/4	64,500	58,050	16,125	60.4
1-3/8	78,000	70,200	19,500	73.1
1-1/2	92,000	82,800	23,000	86.9
1-5/8	108,000	97,200	27,000	102.1
1-3/4	125,000	112,500	31,250	118.4
1-7/8	144,000	129,600	36,000	135.3
2	164,000	147,600	41,000	155.0



** Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's rated working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.



ENERGY ABSORPTION

The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

- Green working 262 ft. lb./lb.
- Red ultimate 5,230 ft. lb./lb.

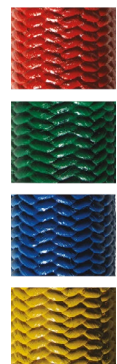
DIELECTRIC STRENGTH

The maximum allowable leakage for clean, dry Uniline™ is 50 micro- amperes when tested at 100kV per Yale Method 712-1701 Rev 1 "Routine Production Test". Absorbed and entrained moisture or impurities will increase rope's conductivity dramatically.

Approved Splice Technique: #10018010, #10018051.

- Maximum Working Load
 - Minimum Break Strength
 - Average Break Strength
- Specific Gravity: 1.38

Custom colors for Uniline™ (Minimum order required)





SHERMAN+REILLY®

SINGLE BRAID ROPE

SARLEX

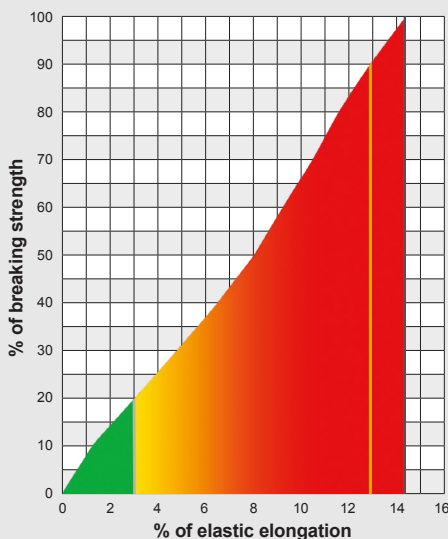


Sarlex is a single-braid 12-strand rope constructed of specially lubricated 1W81 high-tenacity polyester. Sarlex's two-end-per-carrier structure creates a larger void in the middle of the rope, which makes it easier to splice and makes used-rope splicing much easier to perform. Sarlex is always coated with Yale's Maxijacket™ urethane coating, which reduces the new rope's tendency to snag, greatly enhances abrasion resistance, and is a great way to color code ropes for application or load rating.

SPECIFICATIONS

DIAMETER, IN.	AVERAGE SPLICED BREAK STRENGTH, LB.	MINIMUM SPLICED BREAK STRENGTH, LB.	MAXIMUM** WORK LOAD 5:1, LB.	WEIGHT LB./100 FT.
1/4	2,500	2,250	500	2.2
5/16	4,000	3,600	800	2.8
3/8	6,000	5,400	1,200	4.0
7/16	10,900	9,810	2,180	6.5
1/2	13,600	12,240	2,720	8.7
9/16	16,500	14,850	3,300	11.2
5/8	18,500	16,650	3,700	12.1
3/4	24,000	21,600	4,800	17.0
7/8	35,500	31,950	7,100	25.6
1	43,000	38,700	8,600	32.3
1-1/8	56,000	50,400	11,200	34.9
1-1/4	65,500	58,950	13,100	39.3
1-5/16	74,750	67,275	14,950	46.6
1-1/2	93,500	84,150	18,700	60.0
1-5/8	112,500	101,250	22,500	83.0
1-3/4	120,000	108,000	24,000	94.0
2	133,200	119,880	26,640	117.0

** Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's rated working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.



ENERGY ABSORPTION

The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

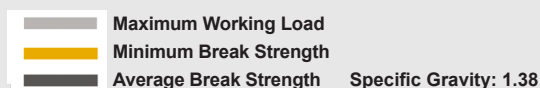
■ Green working 409 ft. lb./lb.

■ Red ultimate 10,700 ft. lb./lb.

DIELECTRIC STRENGTH

The maximum allowable leakage for clean, dry Sarlex is 100 micro-amperes when tested at 100kV per Yale Method 712-1701 Rev 1 "Routine Production Test." Absorbed and entrained moisture or impurities will increase rope's conductivity dramatically.

Approved Splice Technique: #10015101.



SINGLE BRAID

Yale's single braids expose their strength to abrasive attack from the day they are put into service. For that reason, regardless of fiber, they need to be inspected regularly, then downgraded, repaired or replaced to maintain their design factor.

SINGLE BRAID INSPECTION



PROTRUDING STRAND

Often, a strand will get snagged or pulled out from the rest of the rope. As long as the strand isn't broken, this is a repairable issue.

CAUSE

Protruding strands are generally caused by pulling or snagging on equipment or surfaces.

THE REPAIR

Work the strand back into the rope as soon as you notice it by carefully tugging on adjacent strands until the excess is distributed evenly. A protruding strand in service could easily snag or break, causing further complications.



ABRASION

Not all abrasion is harmful. When small surface fibers break on a rope, they create a fuzzy texture known as "mild abrasion." This is normal and can even protect the rope from further wear. Extreme abrasion, though, should be monitored and addressed.

CAUSE

Excessive abrasion can be caused by repeated contact with sharp edges or rough surfaces. While you should expect mild abrasion as you break in your rope, abrasion that doesn't stabilize after the first few uses might mean you're losing strength. Inspect for excessive damage by looking closely at the inner and outer fibers. Powdered fiber is a sign of internal wear.

THE REPAIR

There isn't a repair for abrasion, but you should still inspect for it. If the strength loss is minimal, go ahead and continue use. If the strength loss is moderate, consult Yale or retire the rope. If it's excessive, always retire.

FUTURE PREVENTION

Always use slings when lifting, and avoid abrasive situations whenever possible, including rough surfaces and sharp edges. Keep your chocks, bits, winches, drums and other surfaces in good condition and free of burrs and rust. Make sure sheaves are the right size and are free to rotate. Don't drag the rope over rough ground. Be sure to use clamps and similar devices with extreme caution.



INCORRECT END-TO-END SPLICE

An incorrect end-to-end splice creates a disruption in the rope, to the extent that the rope's strength would be markedly reduced.

CAUSE

In this case, the user spliced the rope in the field without the benefit of proper splicing instructions, causing an incorrect end-to-end splice and significant disruption in the rope.

THE REPAIR

Re-splice the rope correctly.



MELTING OR GLAZING

When fibers are melted or fused, it's generally the result of rope abuse, and this type of damage can compromise strength. Look for visibly charred fibers or strands and stiffness that is unchanged by flexing.

CAUSE

Melting or glazing is generally caused by excessive load weights, exposure to heat or rapid descents/shock loading.

THE REPAIR

If possible, remove the affected section and re-splice with an end-for-end splice. Otherwise – or if you suspect the rope has experienced shock loading – retire the rope.

FUTURE PREVENTION

Avoid shock loads. Always work within the energy absorption range of your rope, and be sure you're using the right rope for the job. Shock loading sometimes happens by accident – for example, if a loaded rope jumps over a wrap of the winding spool. Using the winch line (instead of pole jacks) to pull pole butts can also result in shock loading.

NEW

USED



DIAMETER CHANGE

After use, it is normal for a rope to lose some of its diameter due to fiber abrasion. The appropriate repair is dependent on the level of reduction.

CAUSE

A diameter change is usually due to the loss of fiber through abrasion over time.

THE REPAIR

If the diameter is reduced by less than 10 percent, it is still able to remain in service. If the diameter reduction is 11–20 percent, downgrade the rope. Should the diameter reduction from new to used exceed 20 percent, retire the rope.

FUTURE PREVENTION

It is prudent to replace rope on a calendar schedule based on your original selection criteria.



CUT STRAND

When visually inspecting your rope, always look closely for any cut strands. Any cut strands will cause some loss of strength, and two or more close together may mean the rope needs to be retired. This particular rope should be discarded due to its heavy abrasion.

CAUSE

Cut strands could be caused by abrasion, sharp edges and surfaces, or cyclic tension wear.

THE REPAIR

If possible, remove the affected section and re-splice with an end-for-end splice. If re-splicing is not possible, retire the rope. As a general rule, 12-strand ropes should be retired when more than three broken strands are visible.

FUTURE PREVENTION

Always use slings when lifting, and avoid abrasive situations whenever possible, including rough surfaces and sharp edges. Keep your chocks, bits, winches, drums and other surfaces in good condition and free of burrs and rust. Make sure sheaves are the right size and are free to rotate. Don't drag the rope over rough ground. Be sure to use clamps and similar devices with extreme caution.



PARALLEL CORE

Yale's parallel core ropes depend on their core's integrity to maintain breaking strength. Most damage to the outside of the line is not serious but should still be addressed to prevent further damage.

PARALLEL CORE INSPECTION



PROTRUDING STRAND

Often, a strand will get snagged or pulled out from the rest of the rope.

CAUSE

Protruding strands are generally caused by pulling or snagging on equipment or surfaces.

THE REPAIR

To repair a protruding strand on a parallel core rope, you'll need to cut off excess strand, execute a careful heat seal and whip with twine.

Abraded spot



Deep abrasions through the rubber but not into the core



Deep abrasions through the rubber and damaging the core



ABRASION

Not all abrasion is harmful. It's important to evaluate the level of abrasion to ensure proper repair.

CAUSE

Excessive abrasion can be caused by repeated contact with sharp edges or rough surfaces. While you should expect mild abrasion as you break in your rope, abrasion that doesn't stabilize after the first few uses might mean you're losing strength.

THE REPAIR

To repair an abraded spot, evaluate the depth of the abrasion. If the rubber jacket is not compromised, whip and return to service. If you notice deep abrasions through the rubber but not into the core, you can repair the rubber layer and then whip the area. Abrasions and cuts through the rubber layer and damaging the core should be cut out and repaired with a TechJoin.

FUTURE PREVENTION

Always use slings when lifting, and avoid abrasive situations whenever possible, including rough surfaces and sharp edges. Keep your chocks, bits, winches, drums and other surfaces in good condition and free of burrs and rust. Make sure sheaves are the right size and are free to rotate. Don't drag the rope over rough ground. Be sure to use clamps and similar devices with extreme caution.

ELECTRICAL DAMAGE

Should a rope come into contact with an energized line in such a way that a current enters the line, your rope will display surface damage indicative of electrical damage.

CAUSE

Electrical damage is caused by currents entering and exiting the line. The exit damage may appear hundreds or even thousands of feet from the entry damage. You may have to section the rope to see internal melting, an indication that the rope was acting as a conductor.

THE REPAIR

To repair a rope with electrical damage, you will have to cut out all affected areas and re-splice or use a TechJoin. If you cannot find any exit damage, break test or proof load areas adjacent to the entry to make sure the line has not been compromised.

FUTURE PREVENTION

Always have adequate protection for the underbuilds and avoid direct contact with an energized line.

T1 & TMAX FORMULAS

There are several rather simple formulas that you should become familiar with for calculating both tension and pulling forces. They are known as the T1 and Tmax formulas.

THE FIRST, FOR T1 IS:

$$T_1 = \frac{WL^2}{8D}$$

T = Tension in Conductor before entering first sheave
W = Weight Per Foot of Conductor
L = Span Length in Feet
D = Sag in Feet during stringing (not final sag)

This formula allows you to calculate the tension required to support a conductor in a static condition in one span.

THE SECOND, FOR TMAX IS:

$$T_{MAX} = \frac{T_1}{.98^N}$$

Tmax = Tension after passing over N supports
.98 = Efficiency of Stringing Block
N = Number of Support Points

This formula allows you to calculate the actual pulling force required for any given situation using the inefficiency of the stringing block or traveler and the number of support points. With a 2-percent loss the value for "n" is .98, for a 3-percent loss use .97, etc. Examples for several conductors and span lengths along with different inefficiencies are shown on the following pages. Each one is based on 20 support points or 19 spans.

In the examples you will quickly notice what happens to the pulling force as the efficiency of the system drops. It is unlikely that the .90 figure would ever be realized. It is only listed to show what can happen and how the required force would rapidly increase. Each example shows the calculations for 20 support points and 4 different efficiency values.

The last chart includes the values for 2 through 20 support points with 4 different figures for efficiency. Notice that with only a 2-percent loss at each support, which is about normal, after 20 supports the loss totals one third of the pulling force.

WIRE ROPE

$$L = (A+B) \times A \times B \times K \text{ (feet)}$$

K = Constant as tabulated below and is obtained by dividing 0.2618 ft/in³ by the oversize wire diameter squared*

FIBER ROPE

$$L = \frac{B(H^2 - D^2)}{15.2d^2} \text{ (feet)}$$

d = Rope diameter
L = Length of rope (A)

A, B, D, H and d are in inches

NOMINAL WIRE DIAM., IN.	K, FT/IN ³	NOMINAL WIRE DIAM., IN.	K, FT/IN ³	NOMINAL WIRE DIAM., IN.	K, FT/IN ³
1/16	49.81	1/2	.925	1-3/8	.127
3/32	23.49	9/16	.741	1-1/2	.107
1/8	13.65	5/8	.607	1-5/8	.0886
5/32	8.72	11/16	.506	1-3/4	.0770
3/16	6.14	3/4	.428	1-7/8	.0675
7/32	4.59	13/16	.354	2	.0597
1/4	3.29	7/8	.308	2-1/8	.0523
5/16	2.21	1	.239	2-1/4	.0467
3/8	1.58	1-1/8	.191	2-3/8	.0419
7/16	1.19	1-1/4	.152	2-1/2	.0380

*Values of K allow for normal oversize. Clearance shown on sketch should usually be two inches unless fittings require greater clearance.

The formula is based on uniform winding and will not give correct results if wound non uniformly. It is based on the same number of wraps in each layer which is not strictly correct, but which does not result in appreciable error unless the traverse of the reel is quite small compared with the flange diameter (H).

**WARRANTY**

Warranty is limited to defects in material and workmanship for a period of one (1) year from date of shipment, unconditionally.

The seller makes no representation or warranty to the purchaser as to the suitability or fitness of the material or products for the particular use intended or made by the purchaser. Such determination having been made exclusively by the purchaser, and all risk of damage or delay caused by the unfitness or unsuitability of the material or products or any part of same, for any particular use made by the purchaser or the breakdown or malfunction of same during the course of such use shall be exclusively upon the purchaser. The seller makes no warranty of merchantability to purchaser in the sale of goods ordered herewith.

Seller's warranty is limited to the replacement of parts or material, excluding shipping charges, labor or service and handling charges.

E+ SERIES PRODUCTS – POWERTRAIN BATTERY WARRANTY

Sherman+Reilly Inc. provides a prorated warranty for E+ powertrain batteries for a term covering the first 3 years of ownership. Any unauthorized changes to the battery, electrical system, or control box voids the warranty.

- Year 1: 100%
- Year 2: 67%
- Year 3: 33%

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

LINE STRINGING BLOCKS



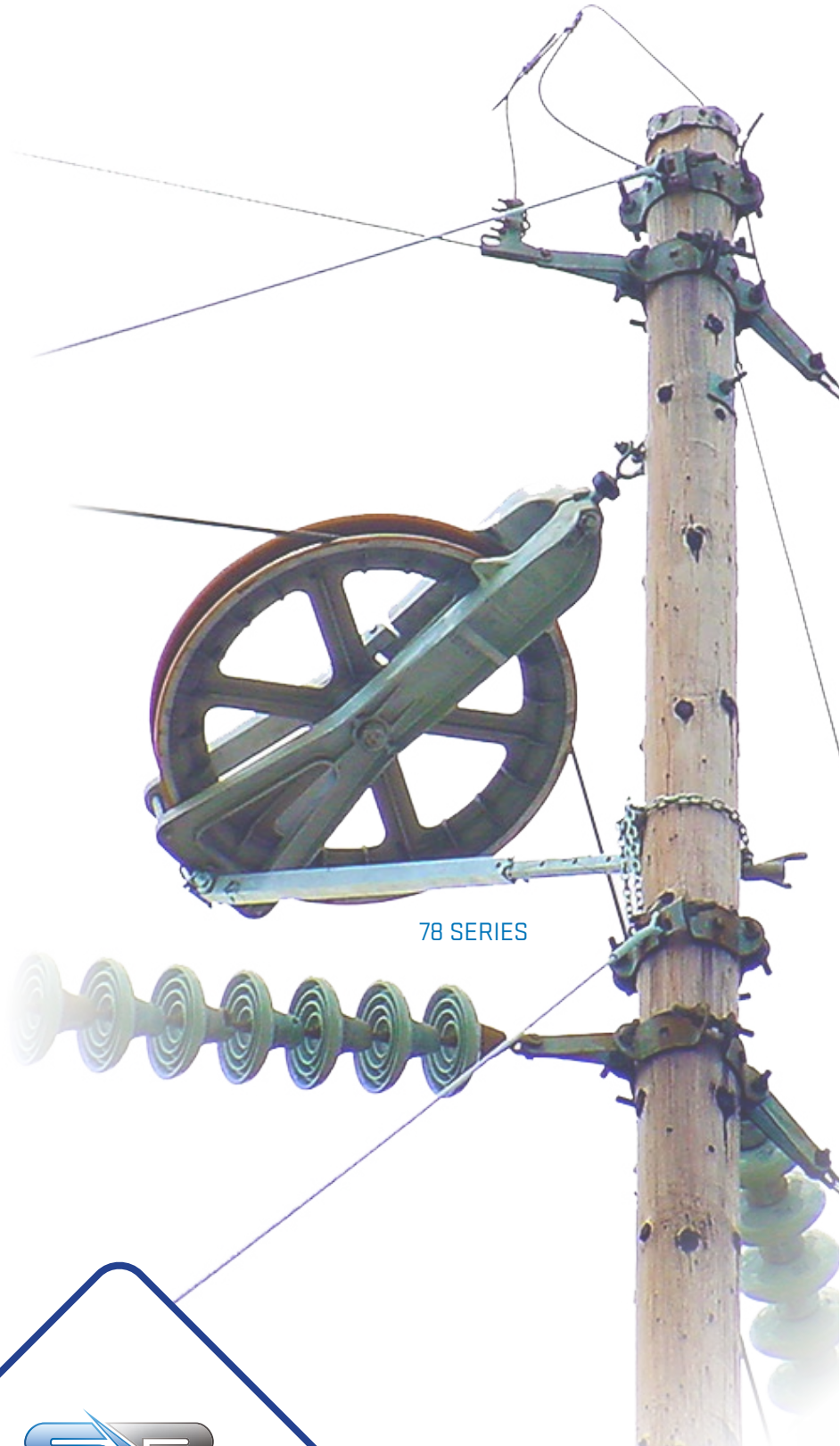
XS-100



70 SERIES



74 SERIES



78 SERIES



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