SHERMAN+REILLY®

PRODUCT CATALOG

MAY 2026

Dedication that Matches Yours

At Sherman+Reilly, we work hard to match a lineman’s dedication. From designing and manufacturing the industry’s toughest and safest equipment, to supporting our customers with the pinnacle of service, we are committed to ensuring your success.

Visit sherman-reilly.com to learn more.

SHERMAN+REILLY®

About Sherman + Reilly

Established in 1927, Sherman+Reilly has been designing, manufacturing and innovating for nearly a century. We continue to provide the safest, most reliable and highest-performing line-stringing equipment to the North American market. With safety being a cornerstone to our approach, we make it our responsibility to produce equipment and tools that make jobsites as safe as possible.

Sherman+Reilly has created an all-encompassing product portfolio with both overhead and underground equipment suitable for transmission and distribution applications. With our latest innovations like the all-electric E+ series, our on-board instructional Know+Go video system and top-of-the-line, customer-driven safety incorporations, we continue to showcase our drive for excellence.

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Follow Along

Follow Sherman+Reilly on social media and check out our YouTube page for our latest product videos, training clips and more.

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Experience S+R Training

Sherman+Reilly offers a full suite of in-depth, hands-on training for all stakeholders. Our specialized teams have trained hundreds of mechanics and thousands of linemen on topics from extensive troubleshooting to increasing machine performance and everything in between.

Learn more about S+R training at sherman-reilly.com/training

Service Excellence

At Sherman+Reilly, our Service Department is the backbone of our commitment to keeping crews safe and productive. Our team of expert technicians is readily available to assist with questions, troubleshoot issues and provide fast, reliable solutions to keep your equipment running at peak performance. Whether you're operating our equipment in the field or preparing for the next project, we're just a phone call away—ready to help.

Our service professionals are highly trained and deeply familiar with every machine and block we manufacture. From routine maintenance to complex diagnostics and repairs, they bring years of hands-on experience and OEM insight to every interaction. Customers trust us not only to get the job done right, but to explain the "why" behind every service decision, helping crews operate with greater confidence and efficiency.

In addition to customer support, our Service Department plays a critical role in maintaining the health and readiness of our extensive rental fleet. Every unit is inspected, tested and serviced with the same attention to detail and safety standards we apply to all of our equipment—because we know that reliability is everything on the job site.

With Sherman+Reilly, you're backed by a service team that's as committed to your success as you are.

Product Portfolio

Sherman+Reilly offers a full suite of line-stringing equipment for both overhead and underground applications. With comprehensive lines of tensioners, pilot line winders, pullers and puller tensioners, v-groove tensioners, reel trailers, stands and reconductoring reels, as well as an extensive collection of stringing blocks and accessories, S+R has the equipment you need, when you need it.

Tensioners

- BWT-1363H
- BWT-1424H
- BWT-1545H
- T-1608
- T-2608
- T7212

Learn More

Pilot Line Winders

- PLW-200H
- PLW-200X
- PLW-200E+
- PLW-400H
- PLW-400X
- S-785T

Learn More

Pullers & Puller Tensioners

- PT-3000H
- PT-3000
- PTX-3500
- P-6000H
- PT-7500
- P-2000X
- PTR-7230/S
- PTR-7240/S
- WB1500/2.5 Z365
- WB1500/5 Z375
- WB1500/9+4.5 Z359
- WB1800/14+7 Z366

Learn More

Underground Pullers

- DDHX-75/100
- DDHXA-75/100
- DD-75E+
- CP-50
- UD-50

Learn More

V-Groove Puller Tensioners

- PTV-4807
- PTV-6013
- TVG-1424

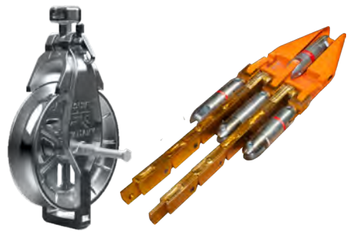
Learn More

Reel Trailers, Stands & Reconductoring Reels

- TRT-184
- TRT-284
- TRT-384
- CRT196/67
- CRT472/52
- CRS-68/44
- CRS-96/67
- CRS-108/83
- RCR-54/60/72/76
- RW-90/56-30K

Learn More

Stringing Blocks & Accessories

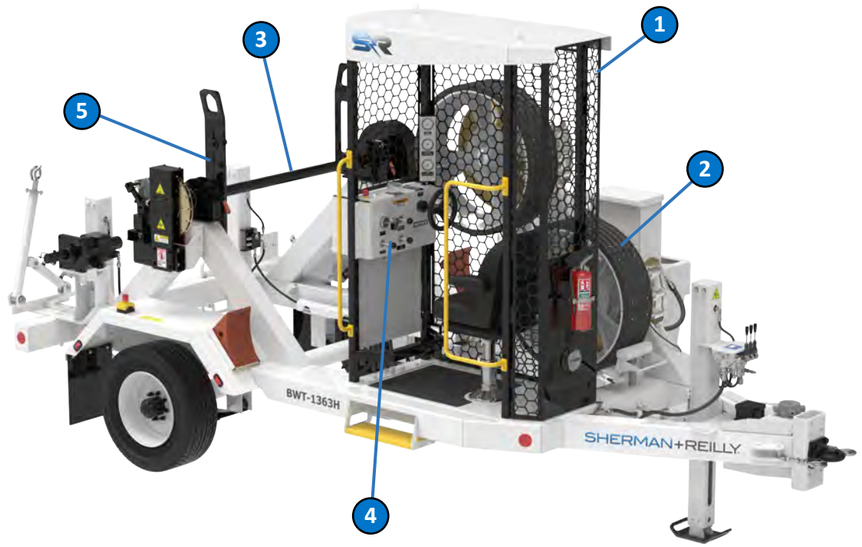


- Distribution blocks & accessories
- Transmission blocks & accessories
- Underground blocks & accessories

Learn More

BWT-1363H Heritage Bullwheel Tensioner

3,000-lb., 36-in. Bullwheel Tensioner



1. Safe-Zone® enclosure with Ocu-View™ screen
2. Set of 36-inch, 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. Seemless reel change with S+R pillow block bearing support

Features

- Tensioning capacity of 3,000 lb. built into 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 support both LH and RH lay conductor
- Available with hydraulic power pack for reel control, Spider® rewind and hydraulic jack control
- Available with Spider® pilot line system (pictured)

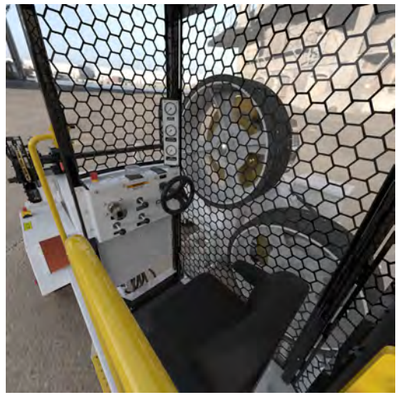
Specifications

Max. Tensioning Capacity	3,000 lb.
Max. Line Speed	4 mph
Max. Conductor Reel Size	72 in. OD x 44.5 in. W
Max. 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. dia. disc, bronze
Bullwheels	Nominal dia.: 36 in. Count: 2 each Groove count: 5 per bullwheel Groove lining: replaceable Groove radius: 0.75 in. Groove flare angle: 15° Groove depth: 0.75 in. Bottom of groove dia.: 33.98 in.
Tension Brake	27.75 in. dia. 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	Safe-Zone® open-air enclosure
Frame Construction	Steel tubing
Length (Overall, Nom.)	17 ft.
Width (Overall, Nom.)	8 ft.
Height (Overall, Nom.)	9 ft. 6 in.
Weight*	6,500 lb.
GVWR	13,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single-axle, single-wheel
Per Axle GAWR	12,000 lb. w/ tires 235/75R17.5 @ 125 psi
Brakes (Trailer)	Electric w/ break-away safety switch
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	Two (2) each w/ hooks
Bumper (SS/CS) Jacks	Manual drop & 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 levelwind **Hydraulic retriever performance: approx. 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: approx. 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
- 12V solar battery charger

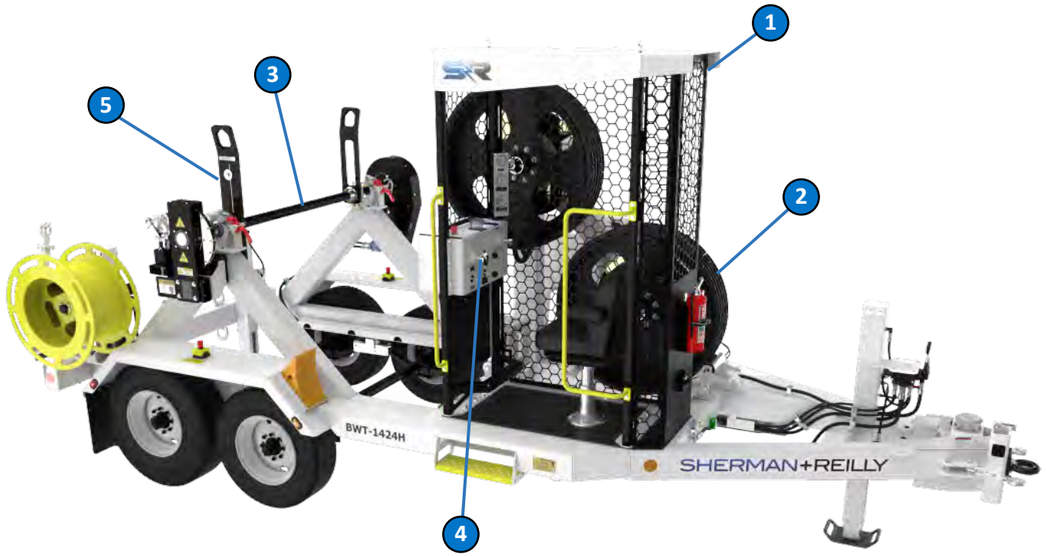


BWT-1363H Cab Interior

***Specifications are subject to change**

BWT-1424H Heritage Bullwheel Tensioner

4,000-lb., 42-in. Bullwheel Tensioner



1. Safe-Zone® enclosure with Ocu-View™ screen
2. Set of 42-inch, 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. Seemless reel change with S+R 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 support 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
- Available with Spider® pilot line system (pictured)

Specifications

Max. Tensioning Capacity	4,000 lb.
Max. Line Speed	4 mph
Max. Conductor Reel Size	84 in. OD x 52 in. W
Max. 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. dia. disc, bronze
Bullwheels	Nominal dia.: 42 in. Count: 2 each Groove count: 5 per bullwheel Groove lining: replaceable Groove radius: 0.6 in. Groove flare angle: 12° Groove depth: 0.6 in. Bottom of groove dia.: 40.73 in.
Tension Brake	27.75 in. dia. 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	Safe-Zone® open-air enclosure
Frame Construction	Steel tubing, continuous-weld
Length (Overall, Nom.)	20 ft.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	9 ft. 6 in.
Weight*	7,000 lb.
GVWR	15,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem, single-wheel
Per Axle GAWR	7,000 lb. w/ tires 235/85R16 @ 110 psi
Brakes (Trailer)	Electric w/ break-away switch
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	Two (2) each w/ hooks
Bumper (SS/CS)	Manual drop & 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

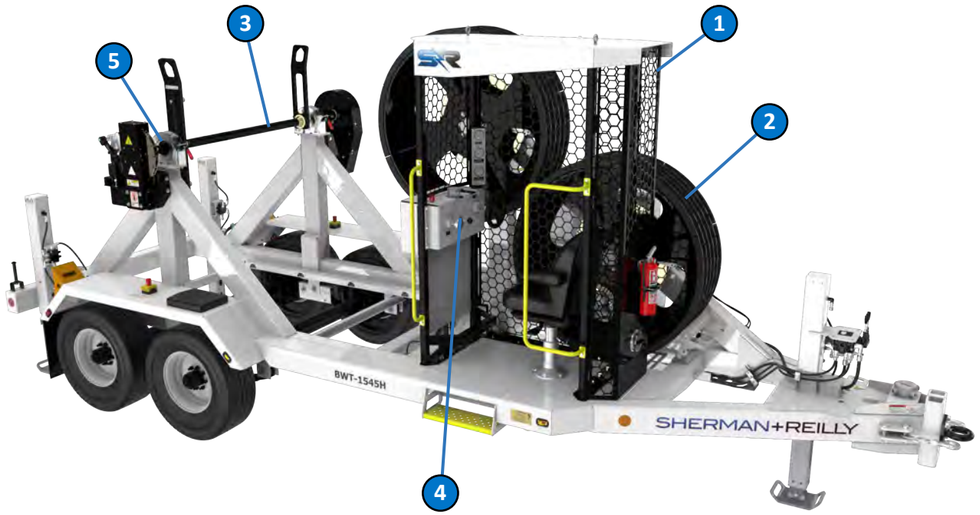
Options

- Full vinyl cover
- Bullwheel-only cover
- Payout brake cover
- Powerpack option including hydraulic jacks and hydraulic retriever **Hydraulic retriever performance: approx. 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 w/ 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. dia.) **Hydraulic retriever performance: approx. 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
- 12V solar battery charger

***Specifications are subject to change**

BWT-1545H Heritage Bullwheel Tensioner

5,000-lb., 54-in. Bullwheel Tensioner



1. Safe-Zone® enclosure with Ocu-View™ screen
2. Set of 54-inch, 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. Seemless reel change with S+R 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 support both LH and RH lay conductor
- Available with hydraulic power pack for reel control and hydraulic jack control

Specifications

Max. Tensioning Capacity	5,000 lb.
Max. Line Speed	4 mph
Max. Conductor Reel Size	96 in. OD x 54 in. W
Max. 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. dia. disc, bronze
Bullwheels	Nominal dia.: 54 in. Count: 2 each Groove count: 5 per bullwheel Groove lining: replaceable Groove radius: 1 in. Groove flare angle: 15° Groove depth: 1.13 in. Bottom of groove dia.: 51.75 in.
Tension Brake	27.75 in. dia. 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	Safe-Zone® open-air enclosure
Frame Construction	Steel tubing
Length (Overall, Nom.)	23 ft.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	10 ft. loaded w/ 96 in. reel
Weight*	9,000 lb.
GVWR	24,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem, single-wheel
Per Axle GAWR	12,000 lb. w/ tires 235/75R17.5 @ 125 psi
Brakes (Trailer)	Electric w/ break-away switch
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	Two (2) each w/ hooks
Bumper (SS/CS)	Manual drop & 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
- Air brakes
- Galvanized finish available
- RDG-2100 rotating distribution ground
- DG-4100 running ground
- 12V solar battery charger

BWT-1545H Side View

***Specifications are subject to change**

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

- Set of 60-inch, 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 two compatible tensioners
- Equipped with CAN bus technology
- Hydraulically controls one reel stand
- Standard arctic kit for cold weather operation
- 8,000 lb. of pullback to assist with sagging
- Canted bullwheels for T2 conductor

Specifications

Tensioning Capacity	600 lb. (min.) - 8,000 lb. (max.)
Max. Line Speed	4 mph
Controls	Digital w/ real-time tension monitoring and recording
Drive System	Direct drive; hydraulic motor, bullwheel
Drive System Engine	Hydraulic w/ Webasto arctic pack
Bullwheels	Core dia.: 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 gal.
Fuel Capacity	13.7 gal.
Fail Safe Brake	Spring-applied, released by hydraulic pressure
Fairlead Rollers	Front (1) and rear (1)
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
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. w/ tires 215/75 R17.5 @125 psi
Brakes (Trailer)	Electric w/ break-away switch
Towing Attachment	3 in. adjustable pintle eye w/ (2) safety chains & hooks
Tie Downs	⅝ in. dia. steel D-rings (4)
Tie Off Points	At rear; 12,000 lb. (2)
Battery	Split 12/24 VDC
Grounding	¾ in. dia. copper-clad steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white
Safety Chains	(2 each) with hooks
Tongue Jacks	Hydraulic w/ shoe
Bumper (SS/CS) Jacks	Hydraulic, vertical cylinder type, w/ shoe (2)
Electrical System	24 VDC
Lights/Navigation	US DOT, LED, 12 VDC
Lights, Work Site	Cab-top floods
Deck Cover	Non-slip surface
Synchronized Tensioning	Up to 2 machines
PLC Machine Control	CAN bus technology
Data Logging	Removable/replaceable memory card
Reel Stand Hydraulics	Front & back; 3,000 psi (2)
PTO Termination	10,000 psi

Options

- Solar battery charger
- Air brakes

*Specifications are subject to change

T-2608 Bullwheel Tensioner

Two-Conductor, 8,000-lb., 60-in. Bullwheel Tensioner

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

Features

- Two sets of 60-inch, 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 release brake
- Low-tension mode allows for fiber optic tensioning
- Synchronized tensioning; designed to work with up to three compatible tensioners
- Equipped with CAN bus technology
- Hydraulically controls two reel stands
- Canted bullwheels for T2 conductor

Specifications

Tensioning Capacity	900 lb. (min.) - 8,000 lb. (max.) - per bullwheel pair
Max. Line Speed	4 mph
Drive System	Direct drive; hydraulic motor, bullwheel
Drive System Engine	Diesel, 140 HP, water-cooled w/ Webasto arctic pack
Bullwheels	Nominal dia.: 60 in. Count: 4 each 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 gal.
Fuel Capacity	12 gal.
External Hydraulic Connections	Quick disconnect type, 2 front, 2 rear (for use w/ CRS-96/67 & CRS-108/83)
Fail Safe Brake	Spring-applied, released by hydraulic pressure
Fairlead Rollers	Front (2); rear (2)
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
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, 235/70 R17.5
Brakes (Trailer)	Electric w/ break-away switch
Towing Attachment	3 in. adjustable pintle eye w/ (2) safety chains & hooks

Bumper (SS/CS) Jacks	Hydraulic w/ shoe, anti-slide (2)
Tongue Jacks	Hydraulic w/ shoe, anti-slide (2)
Electrical System	Split 12/24 VDC
Battery	12V, 680 CCA, BCI group 48 (2)
Lights/Navigation	US DOT, LED, 12 VDC
Exterior Work Lighting	Cab-top, flood
Grounding	¾ in. dia. copper-clad steel loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white
Safety Chains	(2) w/ hooks
Reel Stand Hydraulics	Front & back; 3,000 psi (2)
PTO Termination	10,000 psi

Options

- Solar battery charger

***Specifications are subject to change**

T-7212 Bullwheel Tensioner

Two-Conductor, 12,000-lb., 72-in. Bullwheel Tensioner

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

Features

- Two canted sets of 72-inch, 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 CAN bus technology
- Hydraulically controls two reel stands
- Canted bullwheels for T2 conductor

Specifications

Tensioning Capacity	1,200 - 12,000 lb. per bullwheel set (rated maximum)
Max. Pullback Capacity	12,000 lb. per bullwheel set
Max. Line Speed	4 mph
Controls	Digital w/ real-time tension monitoring and recording
Bullwheels	Diameter: 72 in. Count: 4 Groove count: 5 Groove radius: 1⅛ 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 w/ Webasto arctic pack
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gal.
Fuel Capacity	12 gal.
External Hydraulic Connections	Quick disconnect type, (2) front, (2) rear; for use w/ CRS-96/67 & CRS-108/83
Fail Safe Brake	Spring-applied, released by hydraulic pressure
Fairlead Rollers	Front (2) & rear (2)
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
Frame Construction	Steel, continuous-weld
Jacks	Hydraulic, w/ shoe, anti-slide

Towing Attachments	**5th Wheel, 2-in. King Pin**	**3-in. 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 & Tires	Double, per axle GAWR 12,500 lb. w/ tires 275/70 R 22.5 @120 psi	Double, per axle GAWR 15,000 lb. w/ 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	1 in. dia. steel D-rings (2)	1 in. dia. steel D-rings (2)
Bumper (SS/CS) Jacks	Hydraulic, vertical cylinder type w/ shoe (2)	Hydraulic, w/ shoe, anti-slide (2)
Tongue Jacks	Hydraulic, vertical cylinder type w/ shoe (2)	Hydraulic, vertical cylinder type w/ shoe (2)
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 Lights	Cab-top, flood (2)	Cab-top, flood (2)
Grounding	¾ in. dia. copper-clad steel loops (4)	¾ in. dia. copper-clad steel loops (4)
Wheel Chocks	Standard	Standard
Fire Extinguisher	ABC	ABC
Color	S+R white	S+R white
Reel Stand Hydraulics	Front & back; 3,000 psi (2)	Front & back; 3,000 psi (2)
PTO Termination	10,000 psi	10,000 psi

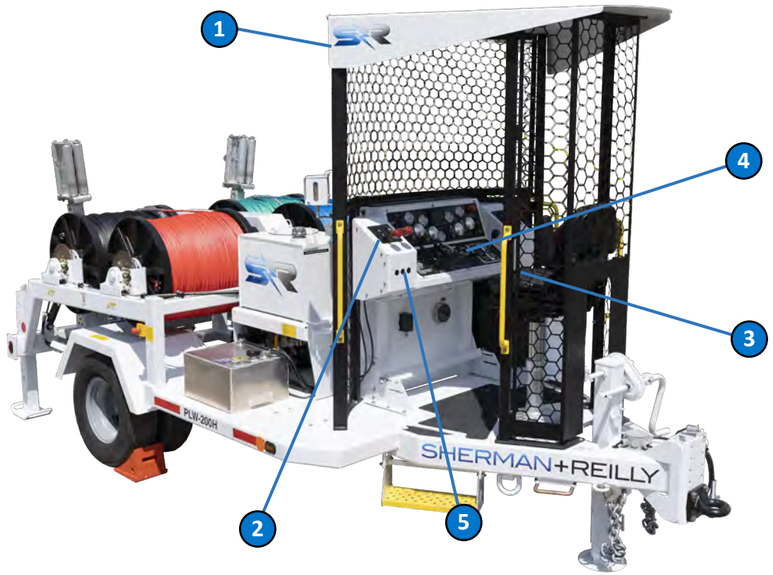
Options

- Solar battery charger

***Specifications are subject to change**

PLW-200H Pilot Line Winder

2,000-lb. Four-Drum Pilot Line Winder



1. Safe-Zone® enclosure with Ocu-View™ screen
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 four conductors simultaneously with levelwind control option
- Independent roller assemblies designed for each of the four pilot lines
- 6,000 ft. (7⁄16 in. rope) single-drum capacity

Specifications

Max. Pulling Capacity	2,000 lb. (rated at top of drum)
Max. Line Speed	4 mph (at top of drum)
Reel Capacity	6,000 ft. of 7⁄16 in. PE-12 rope
Drive System	Hydraulic motor, chain, sprocket
Engine	Turbocharged, Tier-4 final, diesel, 49 HP, water-cooled Kubota®
Fuel Capacity	13 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gal.
Payout Brake	Manually-controlled disc brakes, 12 in. dia. disc, bronze
Levelwind	Hydraulic, joystick-controlled (2)
Operator's Safety Enclosure	Safe-Zone® 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 & Tires	Dual 235/85R 16LRG; 8-6.5
Brakes (Trailer)	Electric w/ break-away switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs (4)	⅝ in. dia. steel D-rings
Bumper (SS/CS) Jacks	Manual (2), drop & pin w/ optional hydraulic w/ galvanized shoe (2)
Tongue Jack	Manual, 2-speed hand crank w/ optional hydraulic w/ galvanized shoe (1)
Electrical System	12 VDC
Battery	12V, group 27
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	¾ in. dia. copper-clad steel loops (4)
Wheel Chocks & Holders	Standard
Fire Extinguisher	ABC
Drum Covers	Vinyl
Color	S+R white or galvanized

Options

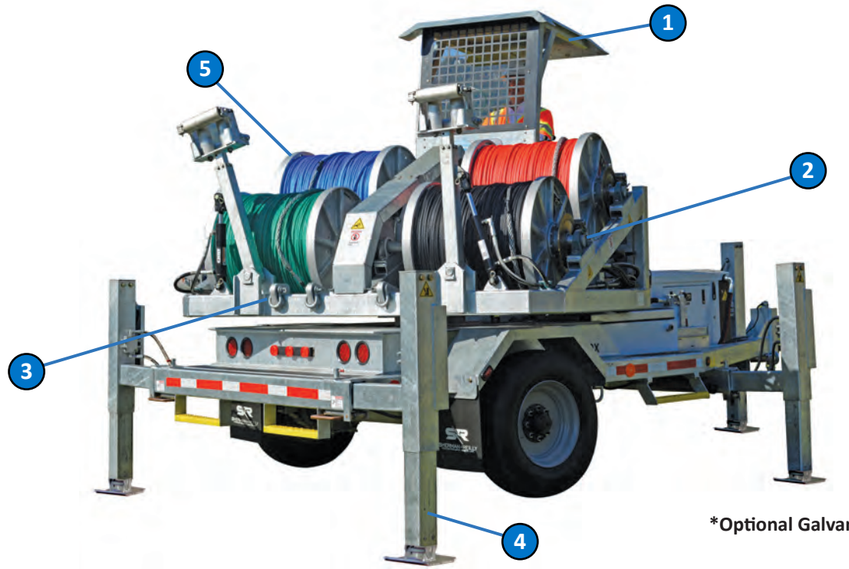
- Tongue extension
- Light bar, 12V and USB charger
- Solar charger
- Galvanized finish
- Drum covers
- Hydraulic jacks
- Air brakes
- Know+Go onboard instructional video system

PLW-200H Control Panel

***Specifications are subject to change**

PLW-200X Pilot Line Winder

2,000-lb. Four-Drum Turret Pilot Line Winder



*Optional Galvanized Finish

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 CAN bus technology and real-time self-diagnostics
- 360° continuous turret rotation for flexibility on the job site

Specifications

Max. Pulling Capacity	2,000 lb. (rated at top of drum)
Max. Line Speed	4 mph (at top of drum)
Payout Brake	Hydraulic disc-caliper, electric-over-hydraulic w/ finite PSI control
Turret Rotation	360° continuous
Reel Capacity	6,000 ft. of 7⁄16 in. PE-12 rope
Drive System	Hydraulic motor, chain, sprocket
Engine	Turbocharged, Tier-4 final, diesel, 49 HP, water-cooled Kubota®
Fuel Capacity	13 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gal.
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 w/ break-away switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	5⁄8 in. dia. steel D-rings
Tongue Jack	Hydraulic w/ galvanized shoe (1)
Stabilizing Jacks	Hydraulic w/ galvanized shoe (4)
Electrical System	12 VDC
Battery	12V, 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 & Swivels	1038 Kellems grip & B-40 swivel

*Specifications are subject to change

Options

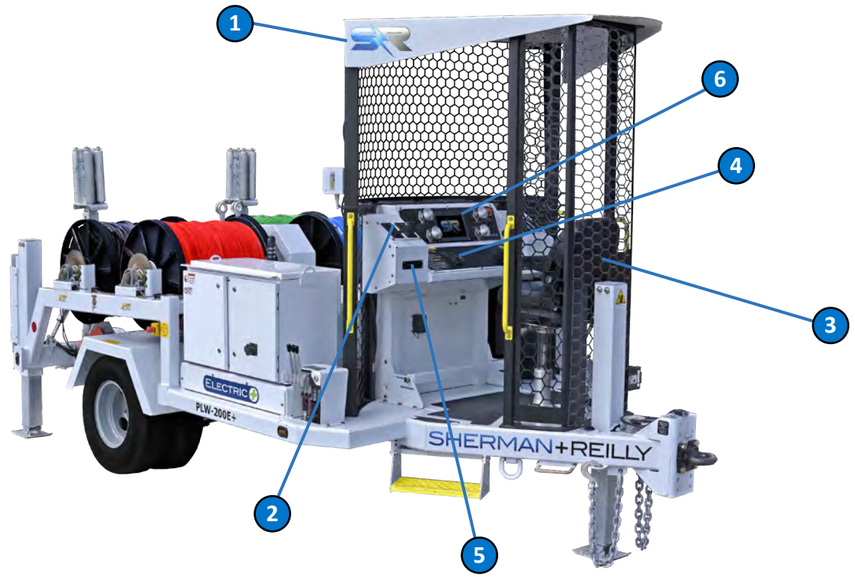
- Solar charger
- Galvanized finish

Braking System with Electric-Over-Hydraulic Activation

Ergonomic Operator's Station

PLW-200E+ Pilot Line Winder

2,000-lb. Four-Drum Electric Pilot Line Winder



1. Safe-Zone® enclosure with Ocu-View™ screen
2. Remote reel engagement
3. Ergonomic control panel with adjustable seat
4. Synchronized levelwind control
5. Light bar, USB and 12V charging
6. 10 in. touchscreen with embedded Know+Go instructional video system and operator's manual

Features

- 2,000 lb. top-of-drum pulling capacity
- All-electric drivetrain
- Automatic battery management
- S+R Telematics™ provide real-time support
- Supports the installation of four conductors simultaneously
- Independent roller assemblies designed for each of the four pilot lines
- 6,000 ft. (7⁄16 in. rope) single-drum capacity

Specifications

Max. Pulling Capacity	2,000 lb. (rated at top of drum)
Max. Line Speed	4 mph (at top of drum)
Reel Capacity	6,000 ft. of 7⁄16 in. PE-12
Drive System	48 V electric
Charging Time (Standard Battery Size)	Rapid Recharge: 50-100% = ~1 hour 0 -100% = ~2 hours Wall charger: Level 1 (120V): 0-50% = ~4-5 hours 0-100% = ~8-9 hours Level 2 (240V): 0-50% = ~2-3 hours 0-100% = ~4-5 hours
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 gal.
Payout Brake	Manually-controlled disc brakes, 12 in. dia. disc, bronze
Levelwind	Electric, joystick-controlled (2)
Operator's Safety Enclosure	Safe-Zone® 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. 9 in.
Weight (w/ Rope)	11,100 lb.
GVWR	12,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	Dual 235/85R 16LRG; 8-6.5
Brakes (Trailer)	Electric w/ break-away switch & dedicated battery
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs (4)	5⁄8 in. dia. steel D-rings
Bumper (SS/CS) Jacks	Hydraulic w/ galvanized shoe (2)
Tongue Jack	Hydraulic w/ galvanized shoe (1)
Electrical System	48/12 VDC
Lighting/Navigation	US DOT, LED, 12 VDC
Grounding	Grounding studs (2)
Wheel Chocks & Holders	Standard
Fire Extinguisher	ABC
Drum Covers	Vinyl
Color	S+R white

Options

- Tongue extension
- Solar charger
- Galvanized finish
- Additional battery options: 15.375 kWh or 20.5 kWh
- Air brakes
- J1772 plug adapters

PLW-200E+ Control Panel

The PLW-200E+ delivers all-electric operation with the Onboard Rapid Recharge system by Sherman+Reilly. This system provides superior performance and automatic battery management so the operator can focus on the job at hand. With all the capabilities of the standard PLW-200H, the E+ model has an all-electric drivetrain designed to exceed all-day use. The Onboard 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™ come standard at no additional cost, providing industry-leading support in real time. The E+ Series product line showcases the S+R commitment to transforming customer expectations for job site safety and performance.

***Specifications are subject to change**

PLW-400H Pilot Line Winder

4,000-lb. Pilot Line Winder

1. Safe-Zone® enclosure with Ocu-View™ screen
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 remotely-operated payout brakes

Features

- Capable of pulling 4,000 lb.
- Supports the installation of two conductors simultaneously with the levelwind sync control option
- Single-drum capacity (PE-12, ⅝ in.): 16,500 ft.
- Single-drum capacity (Unitrex™, .44 in.): 22,000 ft.
- Supports radio install, USB and 12V charging (optional)

Specifications

Max. Pulling Capacity	4,000 lb.
Max. Line Speed	4 mph (average)
Max. Torque	124,000 in./lb. (4,000 lb. at 29 in. drum radius)
Reel/Drum Dimensions	Count: 4 Core dia.: 24 in. Total width: 26.5 in. (inside) Flange dia.: 60 in.
Reel/Drum Capacity	16,500 ft. of ⅝ in. PE-12 rope 22,000 ft. of .44 in. Unitrex™
Drive System	Hydraulic motor, chain, sprocket
Engine	Tier-4 final, diesel, 71 HP
Fuel Capacity	30 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gal.
Hydraulic Fluid Filtration	10 micron return filters
Payout Brake	Hydraulic 24 in. disc-caliper, manual
Levelwind	Hydraulically-controlled, joystick controlled
Operator's Safety Enclosure	Safe-Zone® open-air enclosure
Frame Construction	Steel tubing, steel plate, continuous weld
Length (Overall, Nom.)	23 ft.
Width (Overall, Nom.)	8 ft. 6 in.
Height (Overall, Nom.)	11 ft. 6 in.
Estimated Weight*	20,180 lb. w/o rope 27,704 lb. w/ PE-12 x 16,500 ft. 26,076 lb. w/ Unitrex™ x 22,000 ft.
GVWR	29,500 lb.
Suspension	Leaf-spring
Axle Configuration	Tandem
Wheel Configuration & Tires	Dual 215/75R 17.5
Brakes (Trailer)	Electric w/ breakaway switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	¾ in. 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 & pin w/ crank (base model)
Tongue Jack	Manual, 2-speed crank

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

Options

- Hydraulic jacks
- Solar battery charger
- Galvanized finish
- Light bar, USB and 12V charger
- Synchronized levelwind control (2)
- Protective drum/rope covers
- Air brakes
- Know+Go instructional video system

PLW-400H Control Panel

***Specifications are subject to change**

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 CAN bus technology and real-time self-diagnostics
- S+R white with galvanized drums, levelwinds and jack feet

Specifications

Max. Pulling Capacity	4,000 lb. (rated at top of drum)
Max. Line Speed	4 mph (average; pulling)
Max. Torque	124,000 in./lb. (4,000 lb. at 31 in. drum radius)
Pulling Drum Capacity	16,500 ft. of ⅝ in. PE-12 rope 22,000 ft. of .44 in. Unitrex™
Pulling Drums	Count: 4 Core dia.: 25 in. Width: 25 in. inside Flange dia.: 62 in.
Drive System	Hydraulic motor, chain, sprocket w/ locking crown drum engagement
Engine	Turbocharged, Tier-4 final, diesel, 71 peak HP, water-cooled, DEF not required
Fuel Capacity	30 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gal.
Payout Brake	(1) per drum, (2) puck caliper at 1.5 in. each w/ 24 in. disc, manual control via ripstick
Levelwind	(1) per drum (4 total); hydraulically-driven, joystick-controlled
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
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.
Estimated Weight*	22,620 lb. w/o rope 30,186 lb. w/ PE-12 x 16,500 ft. 28,492 lb. w/ 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 w/ break-away switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	¾ in. dia. steel D-rings (4)

Bumper (SS/CS) Jacks	Hydraulic w/ galvanized shoe (2)
Tongue Jack	Hydraulic w/ galvanized shoe
Electrical System	12 VDC
Battery	(2) 12V batteries, wired parallel for 12V, group 27
Lights/Navigation	US DOT, LED, 12 VDC
Work Lights	Oval spot (2)
PLC Machine Control	CAN bus technology
Data Logging	Removable memory card
Grounding	¾ in. dia. copper-clad steel loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white

Options

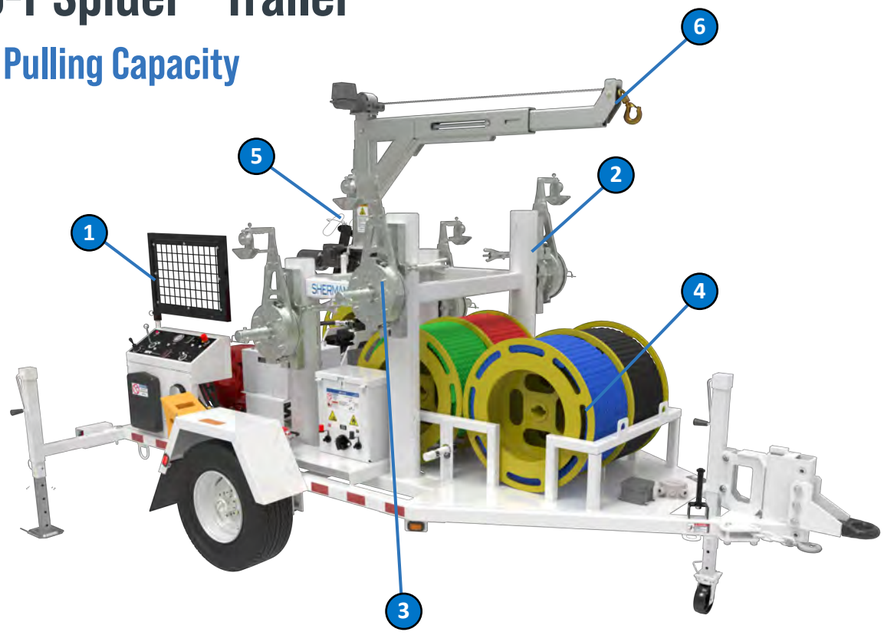
- Air brakes
- Solar battery charger
- Protective drum/rope covers

PLW-400X Control Panel

*Specifications are subject to change

S-785-T Spider® Trailer

700-lb. Pulling Capacity



1. Remote operator station
2. Spider® reel controller mounts
3. Spider® controllers
4. Spider® reel storage
5. Spider® levelwind and rewind unit with failsafe brake
6. Electric/hydraulic lifting boom and hoist

Features

- Capable of pulling 700 lb. on a 30 in. diameter reel
- Maximum pulling speed of 3.5 MPH
- Spider® levelwind and rewind
- Curbside, streetside, and tongue jacks

Specifications

Spider® Trailer	
Engine, Air-Cooled	20 HP Class (gasoline)
Fuel Capacity	13 gal.
Hydraulic Fluid	ISO 32
Hydraulic System Filtration	10 micron
Max. Hydraulic Pressure	2,750 psi
Max. Hydraulic Flow	10 gpm
Frame Construction	Solid-weld steel tubing
Axle Capacity	5,200 lb.
Suspension	Leaf-spring
Wheel Size	15x6 JJ
Tire Size	10PR 117/112L Load Range E
Brakes	Electric with breakaway safety, standard
Electric System	12 V
Safety Chains & Hooks	2 standard
Tongue Jack	Drop leg/screw-type with wheel
Bumper Jacks	Drop leg/screw-type with shoe
Trailer Hitch	3 in. pintle eye
Height	8 ft. 6 in.
Length	13 ft. 1 in.
Width	8 ft. 1 in.
Weight	3,954 lb. estimated nominal trailer weight 5,645 lb. net weight when fully loaded

Spider® Rewind	
Max. Pulling Capacity	700 lb. on a 30 in. diameter reel
Max. Pulling Speed	3.5 MPH
Hydraulic Motor	Low speed, high torque, IGR type
Spider® Levelwind	Electric actuated

Spider® 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-fre with excellent abrasion & ultraviolet (UV) resistance; easy to splice

***Specifications are subject to change**

PT-3000H Heritage Puller Tensioner

3,000-lb. Single-Drum Puller Tensioner

1. Safe-Zone® enclosure with Ocu-View™ screen
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 meet any specific need

Specifications

Pulling Capacity	3,100 lb.
Max. Tensioning Capacity	2,000 lb.
Min. Tensioning Capacity	Hydraulic, low-force tension under 200 lb. w/ manual pull-off tension under 100 lb.
Line Speed	Pulling: 3 mph; tensioning: 3 mph
Max. Conductor Reel Size	66 in. dia./38 in. width
Max. Conductor Reel Weight	Dynamic - over the road: 4,000 lb. Static - jacks extended: 6,000 lb.
Drum Dimensions	Core dia.: 18 in. Total outside width: 40 in. Flange dia.: 46 in.
Drum Capacity	6,000 ft. of ⅝ in. PE-12 6,000 ft. of ⅝ 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 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gal.
Hydraulic Fluid Filtration	10 micron return filters
Levelwind	Hydraulically-driven, Steady-Rest™ controlled
Operator's Safety 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. w/o rope 8,860 lb. w/ rope and drum
GVWR	11,000 lb.
Suspension	Leaf-spring
Axle Configuration	Single
Wheel Configuration & Tires	Dual 235/85R 16 LRE; 8-6.5
Brakes (Trailer)	Electric, w/ break-away switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	⅝ in dia. steel D-rings (2)
Tie-Off Points	Tie-off point at bumper, 3,000 lb. working load limit
Bumper (SS/CS) Jacks	Manual (2) or drop and pin
Tongue Jack	Manual, 2-speed hand crank

*Specifications are subject to change

Electrical System	12 VDC
Battery	12 V 840 CCA, BCI group 27
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	¾ in. dia. copper-clad, steel-ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white

Options

- Reconductoring reel (RCR-60): core (24-18 in. tapered), total outside width (39 in.), flanged dia. (60 in.)
- Spider® pilot line system with independent levelwind; S-75 or S-85 Spider®reels w/ 3,000 ft. or 6,000 ft.; Spider®rewind performance: min. 10,000 in./lb. (1,000 lb. of line tension at 20 in. dia.)
- Hydraulic jacks
- RDG-2100 rotating distribution ground (compatible w/ reel widths < 34.75 in.)
- DG-4100 running ground
- Underground package levelwind; UG drum; Hardline
- Premium rope (Uniline™)
- Galvanized
- Air brakes
- Know+Go on-board instructional video system

Trim Levels

Entry Level	Manual jacks; rope
Mid-Level	Hydraulic jacks (3); rope
Fully-Equipped	Hydraulic jacks (3); Spider® system; rope

Cab-operated, 16-inch Payout Brake

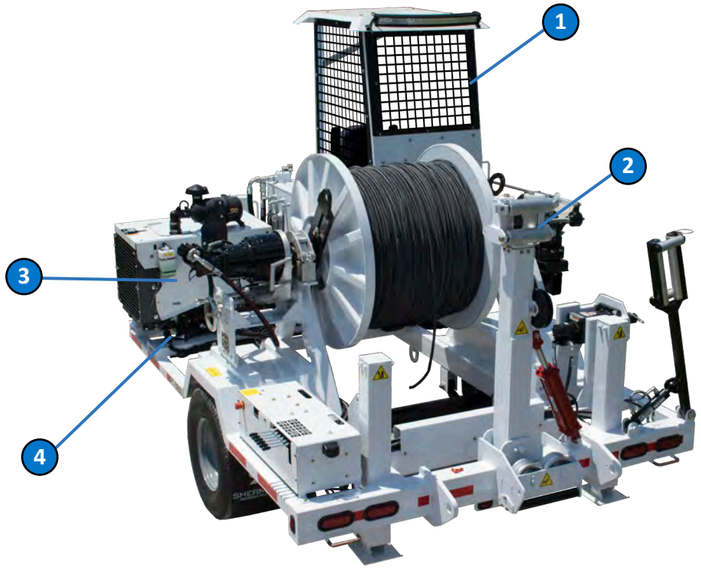
X-Change™ Coupling System

Heritage-style Ergonomic Control Panel

Spider® Pilot Line System with Independent Levelwind

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 reconductorer in one 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
- Wide range of options allows customers to configure to their specific needs
- Equipped with CAN bus technology and real-time, self diagnostics

Specifications

Pulling Capacity	3,000 lb. (rated at top of 46-in. drum) Max: 3,300 lb. (rated max.)
Tensioning Capacity	2,000 lb.
Max. Line Speed	Pulling: 4 mph
Max. Conductor Reel Size	66 in. dia./40 in. width
Max. 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 dia.: 18 in. Total outside width: 40 in. Flange dia.: 46 in.
Drum Capacity	11 mm dia. Unitrex™: 17,000 ft. ⅝ in. dia. Uniline™: 8,450 ft. *Standard rope length: 6,000 ft. of ⅝ in. Uniline
Drive System	Direct drive: single hydraulic motor, drum & drive bar/dual pin
Drive System Engine	Turbocharged, Tier-4 final, diesel, 49 HP, water-cooled Kubota®
Fuel Capacity	13 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gal.
Hydraulic Fluid Filtration	10 micron, both supply & 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, w/ break-away switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	⅝ in. dia. steel D-rings (2)
Tie-off Points	At bumper, 3,000 lb. working limit
Bumper (SS/CS) Jacks	Hydraulic w/ shoe (2)
Tongue Jack	Hydraulic w/ shoe (1)

Electrical System	12 VDC
Battery	12 V 840 CCA, BCI group 27
Lights/Navigation	US DOT, LED 12, VDC
Grounding	¾ in. dia. copper-clad, steel-ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white
Overhead Drum Core	18 in./30 in. width/ 46 in. flange
Underground Drum Core	12.75 in./31.75 in. width/24 in. flange

Options

- Hydraulic pad mount transformer attachment; capable of 7,500 lb. max. working load
- Reconductoring reel (RCR-60): core (24-18 in. tapered), Total outside width (39 in.), flanged dia. (60 in.)
- Underground levelwind for pulling underground
- Spider® pilot line system with independent levelwind; S-75 or S-85 Spider®reels w/ 3,000 ft. or 6,000 ft.; Spider®rewind performance: Min. 10,000 in./lb. (1,000 lb. of line tension at 20 in. dia.)
- RDG-2100 rotating distribution ground
- DG-4100 running ground
- Underground option w/ UG drum 24 in. OD, 31.75 in. W, ⅜ in. x 2,000 ft. 6x25 IWRC
- E-35 underground connector (3,500 lb.); E-49 underground connector (8,800 lb.)
- Solar battery charger

Underground Option

PT-3000 Control Panel

Cab-operated, 16-inch Payout Brake

Spider® Pilot Line System with Independent Levelwind

PTX-3500 Puller Tensioner

3,500-lb. Single-Drum Puller Tensioner

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

Features

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

Specifications

Pulling Capacity	Top of drum: 3,500 lb. Max.: 4,500 lb.
Max. Tension Capacity	2,000 lb.
Max. Line Speed	Pulling: 4 mph
Max. Conductor Reel Size	66 in. dia. (≤39 in. wide)/48 in. width/6,500 lb. weight Core dia.: 24 in. Total width: 48 in. Flange dia.: 44 in.
Max. 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 dia.: 24 in. Total outside width: 58 in. Flange dia.: 44 in.
Drum Capacity	11 mm Unitrex™: 21,000 ft ⅝ in. dia. Uniline™: 10,500 ft. Standard: 6,000 ft. of ⅝ in. dia. Uniline™
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 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	32 usable gal.
Hydraulic Fluid Filtration	10 microns, supply & return filters
Levelwind	Hydraulically-driven, semi-automatically controlled
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
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 w/ break-away switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks

Tie Downs	⅝ 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 w/ shoe (2)
Tongue Jack	Hydraulic w/ shoe (1)
Electrical System	12 VDC
Battery	12V, 585 CCA, BCI group 24
Lights/Navigation	US DOT, LED 12, VDC
Grounding	¾ in. dia. copper-clad steel ground loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white

***Specifications are subject to change**

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, ⅜ in. x 2,000 ft. 6x25 IWRC and E-49 connector
- RDG-2100 rotating distribution ground
- DG-4100 running ground
- Solar battery charger

PTX-3500 Control Panel

P-6000H Heritage Puller

6,000-lb. Pulling Capacity

1. Safe-Zone® enclosure with Ocu-View™ screen
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 jack option available

Features

- Capable of pulling 6,000 lb. on a 62 in. diameter reel
- Maximum line speed of 6 mph
- Drum capacity: up to 15,500 ft. of ¾ in. PE-12 or 25,000 ft. of ½ in. Ultrex™
- Ratchet dog failsafe brake

Specifications

Max. Pulling Capacity	6,000 lb. rated at 30 in. from drum center
Min. Tensioning Capacity	1,250 lb. at top of drum/3,500 lb. at core
Max. Line Speed	Pulling: 6 mph; tensioning: 30 rpm
Mechanical Payout Brake	27.75 in. bronze disc, helicopter-ready
Reconductoring Reel Size	72 in. dia./45 in. width
Max. Reel Weight	Dynamic - over the road: 6,400 lb. Static - jacks extended: 11,000 lb.
Drum Dimensions	Core dia.: 24 in. Total outside width: 36 in. Flange dia.: 62 in.
Drum Capacity	Up to 15,500 ft. of ¾ in. PE-12 or 25,000 ft. of ½ in. Ultrex™
Drive System	Chain drive: single hydraulic motor, Penta-drive coupling system w/ remote engagement
Drive System Engine	Turbocharged, Tier-4 final, diesel, 116 HP, water-cooled Kubota®
Fuel Capacity	30 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	25 gal. (32 usable gal.)
Hydraulic Fluid Filtration	10 microns, return filter
Levelwind	Hydraulically-driven, Steady-Rest™ controlled directional change
Operator's Safety Enclosure	Safe-Zone® open-air 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	13,410 lb. w/o rope 15,765 lb. w/ rope & drum
GVWR	20,500 lb.
Axle Configuration/ Suspension	Tandem/leaf-spring
Wheel Configuration & Tires	Single 235/75R 17.56 LJR
Brakes (Trailer)	Electric w/ break-away switch & visual indicator for battery charge state
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	(4) 1 in. dia. steel D-rings
Bumper (SS/CS) Jacks	Single-speed drop, pin, crank
Tongue Jack	Two-speed drop, pin, crank
Battery/Electrical System	(2) 12V/810 CCA/Group 27
Lights/Navigation	US DOT, LED 12, VDC
Grounding	Grade 5H (2)
Wheel Chocks	Standard (2)
Fire Extinguisher	ABC
Color	S+R white

Options

- Hydraulic jacks
- Light bar w/ 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

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 reconductoring capabilities
- Fully-hydraulic direct drive system
- Equipped with CAN bus technology

Specifications

Max. Pulling Capacity	7,500 lb. (rated at top of drum to core)
Max. Line Speed	4 mph (pulling)
Max. Conductor Reel Size	66 in. dia./39 in. wide
Max. Conductor Reel Weight	Dynamic - over the road: 6,000 lb. Static - jacks extended: 7,000 lb.
Drum Dimensions	Core dia.: 24 in. Total outside width: 58 in. Inside width: 64 in. Flange dia.: 48 in.
Drum Capacity	⅝ in. Uniline™: 10,500 ft. .58 dia. Unitrex™: 12,350 ft. **Additional rope capacities available upon request*
Drive System	Direct drive: dual hydraulic motor, drum/reel shaft coupler & drive bar/ dual pin
Drive System Engine	Diesel, 74 HP, water-cooled
Fuel Capacity	30 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	40 gal. (32 usable gal.)
Hydraulic Fluid Filtration	10 micron, both supply & return filters
Levelwind	Hydraulic, operator-controlled directional change
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
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 w/ break-away switch
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	1 in. dia. steel D-rings (4)

Bumper (SS/CS) Jacks	Hydraulic w/ shoe (2)
Tongue Jack	Hydraulic w/ shoe (1)
Electrical System	12 VDC
Battery	12V, 585 CCA, BCI group 24
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	¾ in. dia. copper-clad steel 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

PT-7500 Control Panel

***Specifications are subject to change**

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 Tier-4 final industrial diesel engine
4. Frame-mounted tool box
5. Four 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 CAN bus technology and real-time self diagnostics

Specifications

Max. Pulling Capacity	20,000 lb.
Max. Line Speed	Pulling: 4 mph
Controls	Digital w/ real-time tension monitoring & recording
Drum Dimensions	Core dia.: 30 in. Total outside width: 76 in. Inside width: 50 in. Flange dia.: 76 in. (84 in. optional)
Reel Capacity	0.84 in. dia. Unitrex™: 21,500 ft. 20 mm dia. anti-steel steel cable: 23,000 ft.
Drive System	Twin 22 in. bullwheels w/ direct hydraulic drive
Drive System Engine	Diesel, 175 HP, water-cooled w/ Webasto arctic pack
Fuel Capacity	12 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gal.
Hydraulic Fluid Filtration	10 micron, both supply & return filters
Levelwind	Electrically-actuated, automatically-controlled
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
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. (w/ 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. w/ tires 235/75 R17.5 @125 psi
Brakes (Trailer)	Electronic brakes w/ anti-lock features
Towing Attachment	3 in. pintle eye w/ (2) safety chains & hooks
Tie Downs	⅝ in. dia. steel D-rings (2)
Tongue Jack	Hydraulic, horizontally-folding w/ shoe
Bumper (SS/CS) Jacks	Hydraulic, vertical column, w/ shoe (2)
Electrical System	Split 12/24 VDC
Battery	12V, 720 CCA, BCI group 93 (2)
Lights/Navigation	US DOT, LED, 12 VDC
Work Lights	Cab-top floods
Grounding	¾ 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

P-2000X Safe-Zone® Cab

P-2000X

PTR-7230 | PTR-7230S Puller Tensioner Reconductorer

30,000-lb. Bullwheel Puller Tensioner Reconductorer

PTR-7230

4 PTR-7230S Split Model

1. Fully-enclosed Safe-Zone® cab with climate control
2. Horizontal automatic levelwind and fairlead
3. 0.84-inch diameter rope reel with optional 25,000 ft. of Unitrex™ synthetic rope
4. Split model unit offers the reel carrying trailer as a separate unit

Features

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

The PTR-7230S split unit is a puller tensioner and reconductorer as 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

Specifications

Pulling Capacity	30,000 lb.
Tensioning Capacity	25,000 lb.
Max. 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: 25,000 ft. of 0.84 in. dia. Unitrex™ rope:10,200 lb. total weight
Rope Reel Dimensions	84 in. dia./60 in. width/3,832 lb. Weight (empty); (opt.) 112 in. dia./60 in. width/5,173 lb. weight (empty)
Drive System	Direct drive; hydraulic motor, bullwheel
Drive System Engine	Turbocharged, diesel, 268 HP, water-cooled w/ Webasto arctic pack
Bullwheels	72 in./8-groove 1⅜ in. groove radius/molded neoprene/replaceable
Tension Brake	Hydraulically-applied, automatically-controlled per operator settings
Fuel Capacity	35 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gal.
Hydraulic Fluid Filtration	25 micron; in-tank return filters (2), pump filter (1)

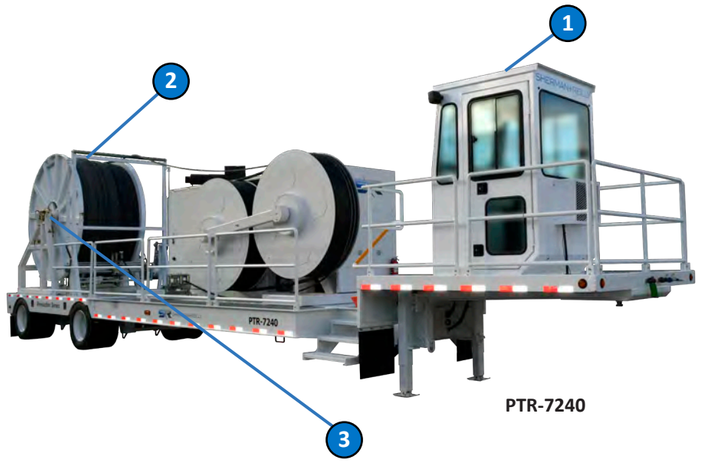
Levelwind	Hydraulically-driven, automatically-controlled
Fail Safe Brake	Spring-applied; released by hydraulic pressure
Fairlead Rollers	Single, hydraulically-driven, automatically controlled, remotely-adjustable
Operator's Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
Frame Construction	Steel, continuous-weld
Bumper (SS/CS) Jacks	Hydraulic w/ shoe (2)
Tongue Jacks	Hydraulic, vertical cylinder type with shoe (2)
Electrical System	Split 12/24 VDC
Battery	(2) 12V, 720 CCA, BCI group 93
Lights/Navigation	US DOT, LED 12 VDC
Grounding	¾ in. dia. copper-clad steel ground loops (4)
Wheel Chocks	Standard (2 per trailer w/ split model)
Fire Extinguisher	ABC (2 per trailer w/ split model)
Color	S+R white
Reel Shaft Diameter	3⅝ in.
Solar Battery Charger	Optional

	PTR-7230	PTR-7230S (split)	PTR-7230S Pintle Eye	RC-3000X Reel Trailer	RC-2500X 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 ft.	65,200 lb.	37,020 lb.	58,527 lb.	58,527 lb.
Suspension	Air ride				
Axle Configuration	Tandem				
Wheel Config. & Tires	Dual 275/70R22.5				
Brakes (Trailer)	Air				
Towing Attachment	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)				
Tie-Offs (per trailer)	1 in. dia. steel D-rings (2)			1 in. dia. steel D-rings (3)	1 in. dia. steel D-rings (2)
Grounding (per trailer)	¾ in. dia. copper-clad steel ground loops (6)	¾ in. dia. copper-clad steel ground loops (4)			
Max. Reel Size	112 in. dia.; 60 in. width	N/A		112 in. dia.; 50 in. width	112 in. dia.; 60 in. width
Max. Static Reel Weighted Capacity	30,000 lb. w/ reel	N/A		30,000 lb. w/ reel	25,000 lb. w/ reel
Max. Transport Reel Weighted Capacity	10,500 lb. w/ reel	N/A		10,500 lb. w/ reel	

***Specifications are subject to change**

PTR-7240 | PTR-7240S Puller Tensioner Reconductorer

40,000-lb. Bullwheel Puller Tensioner Reconductorer



PTR-7240

4 PTR-7240S Split Model

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

Features

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

The PTR-7240S split unit is a puller tensioner and reconductorer as 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

Specifications

Pulling Capacity	40,000 lb.
Tensioning Capacity	25,000 lb.
Max. Line Speed	Pulling: 4 mph @16,000 lb.; 2.3 mph @ 30,000 lb.
Max. Hardline Capacity	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	Turbocharged, diesel, 268 HP, water-cooled w/ Webasto arctic pack
Bullwheels	(2) 72 in./ 8-groove 1¾₁₆ in. groove radius/molded neoprene/replaceable
Tension Brake	Hydraulically-applied, automatically controlled per operator settings
Fuel Capacity	35 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gal.
Hydraulic Fluid Filtration	25 micron; in-tank return filters (2)
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	Fully-enclosed, climate-controlled Safe-Zone® cab
Frame Construction	Steel, continuous-weld
Bumper (SS/CS) Jacks	Hydraulic w/ shoe (2)
Tongue Jacks	Hydraulic, vertical cylinder type with shoe (2)
Electrical System	Split 12/24 VDC
Battery	12V, 720 CCA, BCI group 93 (2)
Lights/Navigation	US DOT, LED 12 VDC
Fire Extinguisher	ABC
Color	S+R white
Reel Trailer Jack Power	13 HP engine, hydraulic pump/reservoir
Reel Shaft Diameter	3⅝ in.
Solar Battery Charger	Optional

	PTR-7240	PTR-7240S (split)	RC-3000X 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 ft.	65,200 lb.	58,527 lb.
Suspension	Air ride		
Axle Configuration	Tandem		
Wheel Configuration & Tires	Dual 275/70R22.5		
Brakes (Trailer)	Air		
Towing Attachment	5th wheel, 2 in. king pin		
Tie Downs (per trailer)	1 in. dia. steel D-rings (2)		
Tie-Offs (per trailer)	1 in. dia. steel D-rings (2)		1 in. dia. steel D-rings (3)
Grounding (per trailer)	¾ in. dia. copper-clad steel ground loops (6)	¾ in. dia. copper-clad steel ground loops (4)	
Max. Reel Size	112 in. dia.; 60 in. width	N/A	112 in. dia.; 60 in. width
Max. Static Reel Weighted Capacity	30,000 lb. w/ reel	N/A	30,000 lb. w/ reel
Max. Transport Reel Weighted Capacity	10,500 lb. w/ reel	N/A	10,500 lb. w/ reel

***Specifications are subject to change**

WB 1500/2.5 Z365

Performance in Pulling Mode

Max. Pulling Force	5,620 lbf.
Max. Pulling Speed	5 mph
Max. Speed w/ Max. Pulling Force	1.9 mph

Performance in Tensioning Mode

Max. Tensioning Force	5,620 lb.
Max. Speed w/ Max. Tensioning Force	5 mph
Min. Tensioning Force ATS	787 lbf.

Bullwheel

Number	2
Diameter	59 1⁄16 in.
Groove Ø	1 ¾ in.
Number of Conductors	1

Dimensions

L x W x H (inches)	177 x 87 x 104
Weight	6,160 lb.

Key Facts

- Completely electronically-controlled puller tensioner for (1) conductor with (2) bullwheels (Ø 59 1⁄16 in.) with a groove dia. of 1¾ in. and a max. pulling and tensioning force of 5,620 lbf.

Engine

- Max. 75 HP (55 kW), Tier-4 final
- Liquid-cooled diesel engine w/ electronic RPM-control
- 24V system w/ high-capacity battery

Driving System

- Each bullwheel has a planetary gear and hydraulic motor; completely enclosed drive unit (highly efficient, minimal maintenance)
- Each bullwheel has an automatically-activated safety brake
- Hydraulic system w/ quick-action screw couplings to control one drum stand

Control System

- Radio remote control w/ display
- Automatic Tensioning System (ATS)
- PLC control for optimized productivity and safety
- Clearly-arranged control panel, w/ color display, for monitoring pulling and tensioning force, hydraulic drive and electric systems w/ an intelligent diagnostic and fault-recognition system
- Zeck stringing data record system w/ USB port
- Automatic hydraulic oil cooling system
- Adjustable overload protection

Equipment

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

Options

- Precleaner for engine air filter
- Printer for stringing data
- Remote diagnosis via GSM network w/ GPS modem
- Hydraulic system (700/1,000 bar) to power pressing tool
- Biodegradable hydraulic oil
- Aluminium cover, color as per RAL color table
- Special designs upon request

WB 1500/5 Z375 (134 HP)

Performance in Pulling Mode

Max. Pulling Force	11,240 lbf.
Max. Pulling Speed	4.2 mph
Max. Speed w/ Max. Pulling Force	2.2 mph

Performance in Tensioning Mode

Max. Tensioning Force	11,240 lb.
Max. Speed w/ Max. Tensioning Force	4.2 mph
Min. Tensioning Force ATS	2,520 lbf.
SLTS Approx.	225 lbf.

Bullwheel

Number	2
Diameter	59⁄16 in.
Groove Ø	1¾ in.
Number of Conductors	1; 2 optional

Dimensions

L x W x H (inches)	229 x 90 x 98
Weight	10,340 lb.

Key Facts

- Completely electronically-controlled puller tensioner for (1) conductor with (2) bullwheels (Ø 59⁄16 in.) with a groove dia. of 1¾ in. and a max. pulling and tensioning force of 11,240 lbf.

Engine

- Max. 134 HP (100 kW), Tier-4 final
- Liquid-cooled diesel engine w/ electronic RPM-control
- 24V system w/ high-capacity battery

Driving System

- Each bullwheel has a planetary gear and hydraulic motor; completely enclosed drive unit (highly efficient, minimal maintenance)
- Each bullwheel has an automatically-activated safety brake
- Hydraulic system w/ quick-action screw couplings to control one drum stand

Control System

- Radio remote control w/ display
- Automatic Tensioning System (ATS)
- PLC control for optimized productivity and safety
- Clearly-arranged control panel, w/ color display, for monitoring pulling and tensioning force, hydraulic drive and electric systems w/ an intelligent diagnostic and fault-recognition system
- Zeck stringing data record system w/ USB port
- Automatic hydraulic oil cooling system
- Adjustable overload protection

Equipment

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

Options

- Precleaner for engine air filter
- Printer for stringing data
- Remote diagnosis via GSM network w/ GPS modem
- Hydraulic system (700/1,000 bar) to power pressing tool
- Special designs upon request

***Specifications are subject to change**

WB 1500/9+4.5 Z359

Performance in Pulling Mode

Max. Pulling Force	2 x 10,115 lbf. or 1 x 20,230 lbf.
Max. Pulling Speed	3.75 mph
Max. Speed w/ Max. Pulling Force	1.2 mph

Performance in Tensioning Mode

Max. Tensioning Force	2 x 10,120 lbf. or 1 x 20,240 lbf.
Max. Speed w/ Max. Tensioning Force	3.7 mph
Min. Tensioning Force ATS	2 x 1,260 lbf. or 1 x 3,305 lbf.

Bullwheel

Number	4 (2 x 2)
Diameter	59 1⁄16 in.
Groove Ø	1.97 in.
Number of Conductors	up to 2 (1+1)

Dimensions

L x W x H (inches)	250 x 90 x 122
Weight	18,700 lb.

Key Facts

- Completely electronically-controlled puller tensioner for up to (2; 1+1) conductors with (4; 2x2) bullwheels (Ø 59 1⁄16 in.) with a groove dia. of 1.97 in. and a max. pulling and tensioning force of 2 x 10,115 lbf. or 20,230 lbf.

Engine

- Max. 136 HP (101 kW), Tier-4 final
- Liquid-cooled diesel engine w/ electronic RPM-control
- 24V system w/ high-capacity battery

Driving System

- Each bullwheel has a planetary gear and hydraulic motor; completely enclosed drive unit (highly efficient, minimal maintenance)
- Each bullwheel has an automatically-activated safety brake
- Hydraulic system w/ quick-action screw couplings to control (2) drum stands

Control System

- Radio remote control w/ display
- Automatic Tensioning System (ATS)
- PLC control for optimized productivity and safety
- Clearly-arranged control panel, w/ color display, for monitoring pulling and tensioning force, hydraulic drive and electric systems w/ an intelligent diagnostic and fault-recognition system
- Zeck stringing data record system w/ USB port
- Automatic hydraulic oil cooling system
- Adjustable overload protection

Equipment

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

Options

- Precleaner for engine air filter
- Printer for stringing data
- Remote diagnosis via GSM network w/ GPS modem
- Hydraulic system (700/1,000 bar) to power pressing tool
- Synchronization system for multi-unit operation
- Lockable toolbox
- Holding fixture for hose kit
- Arctic kit w/ preheating system for up to -22°F
- Biodegradable hydraulic oil
- Aluminium cover, color as per RAL color table
- Special designs upon request

WB 1800/14+7 Z366

Performance in Pulling Mode

Max. Pulling Force	2 x 15,750 lbf. or 1 x 31,500 lbf.
Max. Pulling Speed	4 mph
Max. Speed w/ Max. Pulling Force	1.75 mph

Performance in Tensioning Mode

Max. Tensioning Force	2 x 15,750 lbf. or 31,500 lbf
Max. Speed w/ Max. Tensioning Force	4 mph
Min. Tensioning Force ATS | SLTS Approx.	3,300 lbf. / 1,574 lbf. 450 lbf. / 330 lbf. 31,500 lbf. bullwheels /15,750 lbf. bullwheels

Bullwheel

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

Dimensions

L x W x H (inches)	297 x 94 x 134
Weight	29,700 lb.

Key Facts

- Completely electronically-controlled puller tensioner for (2; 1+1) conductor with (4; 2+2) bullwheels (71 in.) with a groove dia. of 2.36 in. and a max. pulling and tensioning force of 2x15,750 lbf. or 31,500 lbf.
- Each bullwheel can be controlled independently

Engine

- Max. 275 HP (205 kW), Tier-4 final
- Liquid-cooled diesel engine w/ electronic rpm-control
- 24V system w/ high-capacity battery

Driving System

- Each bullwheel has a planetary gear and hydraulic motor as completely enclosed drive unit (highly efficient, minimal maintenance)
- Each bullwheel has an automatically-activated safety brake
- Hydraulic system w/ quick-action screw couplings to control (2) drum stands

Control System

- Radio remote control w/ display
- Automatic Tensioning System (ATS)
- PLC control for optimized productivity and safety
- Clearly-arranged control panel, w/ color display, for monitoring pulling and tensioning force, hydraulic drive and electric systems w/ an intelligent diagnostic and fault-recognition system
- Zeck stringing data record system w/ USB port
- Automatic hydraulic oil cooling system
- Adjustable overload protection

Equipment

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

Options

- Precleaner for engine air filter
- Printer for stringing data
- Remote diagnosis via GSM network w/ GPS modem
- Hydraulic system (700/1,000 bar) to power pressing tool
- Synchronization system for multi-unit operation
- Smart load tensioning system (SLTS); machine can be used in stringing operations with low tensioning force, e.g. OPGW
- Arctic kit w/ preheating system for up to -22°F
- Biodegradable hydraulic oil
- Aluminium cover, color as per RAL color table
- Special designs upon request

ELEVATE YOUR EXPERIENCE

Leading with Innovation

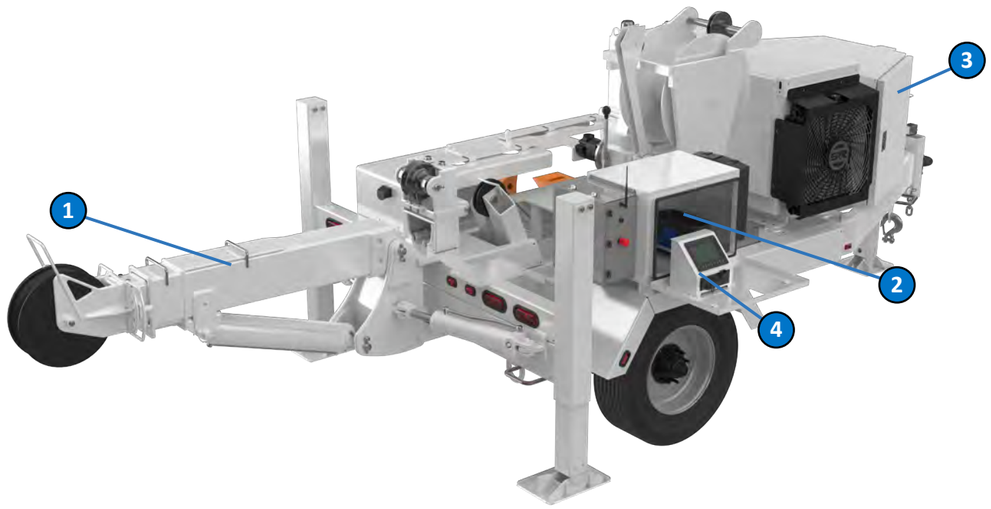
At Sherman+Reilly, innovation is in our DNA. Our products are engineered to elevate performance while putting safety first—because we know lives are on the line. From concept to the field, every detail is built to help linemen work smarter, faster and safer. With a legacy of quality and a relentless drive for progress, Sherman+Reilly keeps crews moving and protected.

Visit sherman-reilly.com to learn more.

SHERMAN+REILLY®

Duct Dawg® Underground Puller

DDXH-75 (7,500-lb. Pulling Capacity) | DDXH-100 (10,000-lb. Pulling Capacity)



1. Fully-articulating, self-supported, three-axis boom
   - Left to right: 50-degree swing arc
   - Up and down: 90-degree swing arc
   - 24 in. telescoping in and out
   - 17 in. sheave with 60-degree swivel head
2. Wireless remote contoller 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
- Compact footprint, under 17-feet
- Smooth operation with three-speed gearbox on DDXH-75 and two-speed gearbox on DDXH-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

Specifications

	DDXH-75	DDXH-100
Max. Pulling Capacity	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 (w/ Demand Payout)	1st gear: 0-60 fpm at 7,500 lb. 2nd gear: 0-120 fpm at 3,500 lb. 3rd gear: 0-285 fpm at 1,500 lb.	1st gear: 0-60 fpm at 10,000 lb. 2nd gear: 0-120 fpm at 5,000 lb.
Winch Gearbox Oil (Volume)	SAE 90 (4 liters or 4.2 quarts)	SAE 90 (6 liters or 6.2 quarts)
Drive System	Hydraulic	
Engine	49 HP (peak), diesel, water-cooled, electric start	
Fuel Capacity	13 gal.	
Pulling Rope	⅜ in., 6x25 XIP IWRC steel wire rope, 2,000 ft.	7/16 in., 6x25 XIP IWRC steel wire rope, 2,200 ft.
Boom	Hydraulic, joystick-controlled, 3-axis, 52˚ swing arc, 17 in. sheave w/ 60˚ swivel head	
Levelwind	Dual automatic fairlead sheaves	
Puller-Mounted Controls	Manual hydraulic overrides and control panel backup operation	
Puller Wireless Controls	CAN bus controller communicating w/ radio-controlled remote (300 ft. max.)	
Hydraulic Tool Circuit	Up to 3,000 psi - 8 GPM at idle/16 GPM at 2,700 RPM	
Footage Counter	Electronic, actual footage, pay-in and pay-out w/ memory	
Pulling Connectors	Rotation-resistant: (1) E-35 rated at 3,000 lb. & (1) E-49 rated at 8,800 lb.	
Frame Construction	Steel tubing, continuous-weld	
Hydraulic Fluid	ISO Grade 32	
Hydraulic Reservoir	25 gal. w/ cold weather package optional	
Length (Overall, Nom.)	15 ft. 5 in.	
Width (Overall, Nom.)	7 ft. 11 in.	
Height (Overall, Nom.)	9 ft. 8 in. (boom stored)	
Weight* (Nom.)	7,400 lb. w/ rope	7,600 lb. w/ rope
GVWR	9,500 lb.	
Suspension	Leaf-spring	
Axle Configuration	Single	
Wheel Configuration & Tires	Single, LT235/75R 17.5 Load Rating J	
Brakes (Trailer)	Electric w/ safety break-away switch	
Towing Attachment	3 in. adjustable pintle eye	
Safety Chains	Two (2) w/ hooks	
Tie Downs	⅝ in. dia. steel D-rings	
Tongue Jack	Hydraulic w/ shoe (1)	
Bumper Stabilizing Jacks	Hydraulic w/ shoe at bumper corners - 144 sq. in. of surface area	
Electrical System	12 VDC, 60 amp alternator	
Lights/Navigation	US DOT, LED, 12 VDC	
Battery	12V	
Grounding	¾ in. dia. copper-clad steel ground loops (4)	

***Specifications are subject to change**

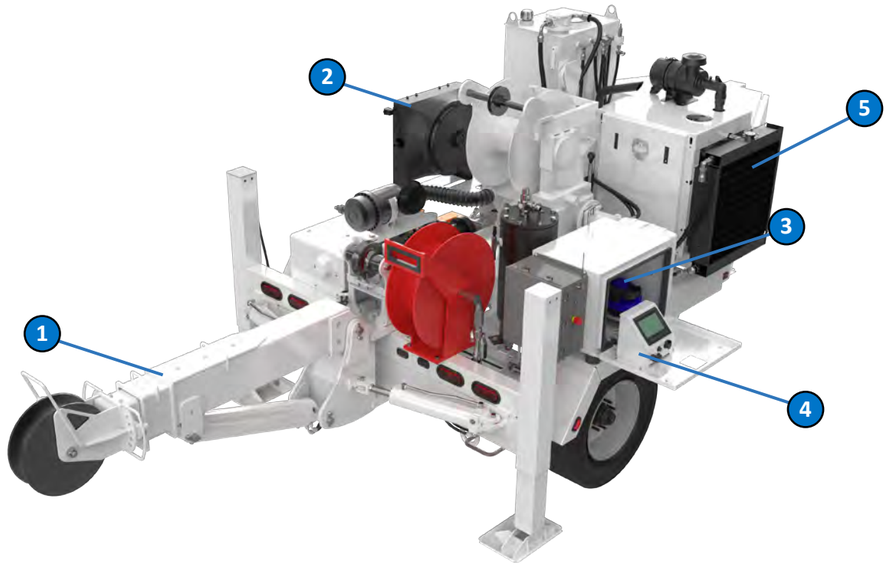
Options

- Strobe light
- Solar battery charger
- Submersible pump (self-priming, compact, high-impact trainer housing pump)
- Air adapter kits
- Underground blocks available

Duct Dawg Remote Control

Duct Dawg® Air Underground Puller

DDXHA-75 (7,500-lb. Pulling Capacity) | DDXHA-100 (10,000-lb. Pulling Capacity)



1. Fully-articulating, self-supported, three-axis boom
   - Left to right: 50-degree swing arc
   - Up and down: 90-degree swing arc
   - 24 in. telescoping in and out
   - 17 in. sheave with 60-degree swivel head
2. Equipped with an on-board air compressor to tackle multiple jobs with one machine
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
- Compact footprint, under 17-feet
- Full CAN bus compatibility
- Smooth operation with three-speed gearbox on DDXHA-75 and two-speed gearbox on DDXHA-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

	DDXHA-75	DDXHA-100
Max. Pulling Capacity	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 (w/ demand payout)	1st gear: 0-60 fpm at 7,500 lb. 2nd gear: 0-120 fpm at 3,500 lb. 3rd gear: 0-260 fpm at 1,500 lb.	1st gear: 0-60 fpm at 10,000 lb. 2nd gear: 0-120 fpm at 5,000 lb.
Winch Gearbox Oil (Volume)	SAE 90 (4 liters or 4.2 quarts)	SAE 90 (6 liters or 6.2 quarts)
Drive System	Hydraulic	
Engine	71 HP (peak), diesel, water-cooled, electric start	
Fuel Capacity	13 gal.	
Pulling Rope	⅜ in., 6x25 XIP IWRC steel wire rope, 2,000 ft.	7/16 in., 6x25 XIP IWRC steel wire rope, 2,200 ft.
Boom	Hydraulic, joystick-controlled, 3-axis, 52˚ swing arc, 17 in. sheave w/ 60˚ swivel head	
Levelwind	Dual automatic fairlead sheaves	
Puller Mounted Controls	Manual hydraulic overrides and control panel backup operation	
Puller Wireless Controls	CAN bus controller communicating w/ radio-controlled remote (300 ft. max.)	
Hydraulic Tool Circuit	Up to 3,000 psi - 8 GPM at idle/16 GPM at 2,700 RPM	
Footage Counter	Electronic, actual footage, pay-in and pay-out w/ memory	
Pulling Connectors	Rotation-resistant: (1) E-35 rated at 3,000 lb. & (1) E-49 rated at 8,800 lb.	
Frame Construction	Steel tubing, continuous-weld	
Hydraulic Fluid	ISO Grade 32	
Hydraulic Reservoir	40 gal. w/ cold weather package optional	
Length (Overall, Nom.)	15 ft. 5 in.	
Width (Overall, Nom.)	7 ft. 11 in.	
Height (Overall, Nom.)	9 ft. 8 in. (boom stored)	
Weight* (Nom.)	9,150 lb. w/ rope	9,490 lb. w/ rope
GVWR	9,500 lb.	10,000 lb.
Suspension	Leaf-spring	
Axle Configuration	Single	
Wheel Configuration & Tires	Single, LT235/75R 17.5 Load Rating J	
Brakes (Trailer)	Electric w/ safety break-away switch	
Towing Attachment	3 in. adjustable pintle eye	
Safety Chains	Two (2) w/ hooks	
Tie Downs	⅝ in. dia. steel D-rings	
Tongue Jack	Hydraulic w/ shoe (1)	
Bumper Stabilizing Jacks	Hydraulic w/ shoe at bumper corners (2)	
Electrical System	12 VDC, 90 amp alternator	
Lights/Navigation	US DOT, LED, 12 VDC	
Battery	12V	
Grounding	¾ in. dia. copper-clad steel ground loops (4)	
Fire Extinguisher	ABC	
Hose Reel	1 in. x 50 ft.	
Air Compressor	High flow: 160 cfm @ 40 psi; Low flow: 90 cfm @ 90 psi	

*Specifications are subject to change

Options

- Strobe light
- Solar battery charger
- Submersible pump (self-priming, compact, high-impact trainer housing pump)
- Air adapter kits
- Underground blocks available

Duct Dawg Remote Control

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
2. Fully-articulating, self-supporting, three-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™ provide real-time support
- Compact footprint under 17-feet
- Digital recorder to continuously measure length of cable deployed and line tension

Specifications

Max. Pulling Capacity	7,500 lb.
Bullwheels	Twin capstan, 6 in. dia., 5-groove followed by 6-groove
Gearbox and Line Speed	1st gear: 0-60 fpm; line tension up to 7,500 lb. w/ demand payout 2nd gear: 0-120 fpm; line tension up to 3,500 lb. w/ demand payout 3rd gear: 0-285 fpm; line tension up to 1,500 lb. w/ demand payout
Drive System	48V electric
Charging Time	Rapid Recharge: 50%-100% in ~1 hour; 0%-100% in ~2 hours Wall charger: 4-5 hours for 0%-50%; 8-9 hours for 0%-100%
Rapid Recharge System	Diesel, flywheel-integrated permanent magnet generator (10.1 HP)
Wall Charger Plug Type	Standard, 120V/60hz, 3-prong
Fuel Capacity	4 gal.
Pulling Rope	⅜ in., 6x25 XIP IWRC steel wire rope, 2,000 ft.
Boom	Hydraulic, joystick-controlled, 3-axis, 50˚ swing arc - 17 in. sheave w/ swivel head
Levelwind	Dual automatic fairlead sheaves
Puller-Mounted Controls	Dual redundancy electric override
Puller Wireless Controls	CAN bus controller connected to radio-controlled remote (100 ft. max. range)
Footage Counter	Electronic, actual footage, pay-in and pay-out w/ 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 gal.
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, w/ safety break-away switch
Towing Attachment	3 in. adjustable pintle eye w/ (2) safety chains & hooks
Tie Downs	⅝ in. dia. steel D-rings
Tongue Jack	Hydraulic w/ shoe - 144 sq. in. of surface area
Bumper Stabilizing Jacks	Hydraulic w/ shoe at corners - 144 sq. in. of surface area
Electrical System	48V/12V split system
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	¾ in. dia. copper-clad steel loops (4)

Options

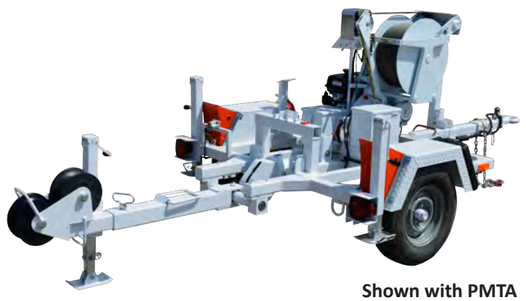
- Solar charger - 12V battery only
- Air adapter kits
- Underground blocks available
- Galvanized finish

***Specifications are subject to change**

UD-50 Underground Puller

5,000-lb. Pulling Capacity

1. Compact and rugged for remote jobsites
2. Rope entry at a fixed point for better anchorage
3. Even, constant pulling force
4. Equipped with a tension dynamometer and adjustable overload cut-off
5. Available with pad-mount transformer adapter or with A-frame adapter



Shown with PMTA

Specifications

Engine	8-10 Hp
Fuel Capacity	1.25 gal
Pulling Rope	⅜ in. dia. steel cable
Reel Capacity	1,500 ft. (⅜ in. dia.)
Skid Frame Construction	Steel tubing, continuous-weld
Wheel Configurations & Tires	14 x 5.5 drop center; ST205-75R 14BC
Brakes (Trailer)	Electric, standard
Tongue Jack	Screw type w/ wheel
Bumper (SS/CS) Jacks	Screw type w/ shoe
Width (Overall, Approx.)	63 in.
Length (Overall, Approx.)	91 in.
Height (Approx.)	48 in.
Weight (Approx.)	1,200 lb.
Frame Construction (Trailer)	Steel tubing

Options

- Air adapter kits
- Underground blocks available
- Brakes, trailer hydraulic surge

Shown with A-frame Adapter

CP-50 Compact Safety Puller

500-lb. Capstan Puller for Installation of Service Drops

1. Reduces risk of installer injury by eliminating hand pulling
2. Lightweight design (less than 40 lb.) reduces risk of injury
3. Portable for easy on-site usage
4. Powered with on-board battery or via gasoline-powered drill (sold separately; not available through S+R)
5. Adapters for various conduit sizes included

Shown with Optional PMTA

Specifications

Pulling Capacity (Rated)	500 lb. @ 70 fpm
Height (Overall, Nom.)	39 ½ in.
Width (Overall, Nom.)	17 ½ in.
Depth (Overall, Nom.)	20 ½ in.
Weight* (Nom.)	39 lb.
Frame Material	Aluminium
Tires	4.10/3.50-4 pneumatic
Spud Adapter Sizes, ID	2 in., 2 ½ in., 3 in., 4 in.
Drill Compatibility	Compatible with most gas-powered drills

*Specifications are subject to change

PTV-4807 Revolution Series

V-Groove Puller Tensioner | Pulling Capacity 7,000 lb.

1. Fully-enclosed Safe-Zone® cab with climate control
2. Self-loading reel stand with remote control
3. Automatic levelwind with trim and position control
4. 48-inch, hydraulically-driven bullwheels
5. V-groove for “wrecking” old conductor

Features

- Fully-hydraulic direct drive system
- Elevated operator’s Safe-Zone® cab with modern control panel layout and an ergonomic design focused on ease-of-use
- Conveniently-positioned tie-off points allow for quicker line/phase change over and securing drum-specific pilot lines
- Digital controls and self diagnostics
- Can be configured as a truck-mounted or trailered unit

Specifications

Max. 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. dia. 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 & parking
Drive System	Direct drive: hydraulic motor, bullwheel
Engine	74 HP diesel DEUTZ, Tier-4 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 gal.
Fuel Capacity	12 gal.
Fairlead Rollers	Tension bottom (1)
Operator’s Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
Frame Construction	Steel tubing, continuous-weld
Suspension	Leaf-spring
Axle Configuration	Tandem, 22,500 lb. per axle (2)
Wheel Configuration & Tires	Dual 4,540 lb. per wheel, 215/75R 17.5

Brakes	Trailer air brakes
Towing Attachment	3 in. adjustable pintle eye safety chains (2 each) w/ hooks
Bumper (SS/CS) Jacks	Hydraulic w/ shoe
Tongue Jack	Hydraulic w/ shoe
Electrical System	Split 12/24 VDC
Battery	12V, 720 CCA, BCI group 93 (2)
Lights/Navigation	US DOT, LED, 12 VDC
Work Lights	Work site cab-top floods
Tie Downs	4 x ¾ in. allow shackles (7-ton work load) 2 x ¾ in. allow shackles (7-ton work load)
Grounding	¾ in. dia. copper-clad steel loops (5); ¾ in. dia. grounding studs
Deck Cover	Non-slip surface
PLC Machine Control	CAN bus technology
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white

Control Panel

Remote Control

*Specifications are subject to change

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-inch 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 CAN bus technology and real-time self diagnostics
- Automatic levelwind
- Low end tension function for fiber application

Specifications

Max. Pulling Capacity	13,000 lb. per bullwheel set
Tensioning Capacity	8,000 lb. per bullwheel set Low force mode: 500-2,900 lb. High force mode: 1,900-8,000 lb.
Max. Line Speed	Pulling: 4 mph
Max. 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	Turbocharged, diesel 174 HP, Tier-4 final, CAT C4.4 ACERT L4, w/ Webasto Arctic Pack
Bullwheels	Nominal dia.: 60 in. Bottom-of-groove dia.: 59.055 in. Bullwheel count: 2 (1 pair) Bullwheel groove count: 5 per Bullwheel groove radius: 0.906 in. Groove depth: 0.512 in. Groove pitch: 1.772 in. Groove lining: Molded neoprene V-groove max. capacity: 2 in. V-groove min. capacity: ⅝ in.
Hardline	17,000 ft. of 20 mm anti-twist steel cable; 3,200 lb.
Rope Total Weight w/ Reel	17,500 ft. of .84 in Unitrex™ 6,885 lb. total weight
Tension Brake	Hydraulic, motor-driven
Brake Control	Hydraulically-applied, automatic per operator setting
Fuel Capacity	12 gal.
Hydraulic Fluid	ISO Grade 32
Hydraulic Reservoir	20 gal.
Fail Safe Brake: Bullwheel/V-Groove	Spring-applied, released by hydraulic pressure
Fairlead Rollers	Reel levelwind, bullwheel, v-groove
Operator’s Safety Enclosure	Fully-enclosed, climate-controlled Safe-Zone® cab
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	¾ in. dia. D-ring, 7-ton capacity each (4)
Tie Off Points	¾ in. dia. D-ring, 7-ton capacity each (4)
Bumper (SS/CS) Jacks	Hydraulic w/ shoe (2)
Tongue Jack	Hydraulic w/ shoe
Electrical System	Split 12/24 VDC
Battery	(2) 12V, 720 CCA, BCI group 93
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	¾ 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	CAN bus technology
Data Logging	Removable/replaceable memory card
PTO - Termination	10,000 psi
Reel Stand Hydraulics	3,000 psi

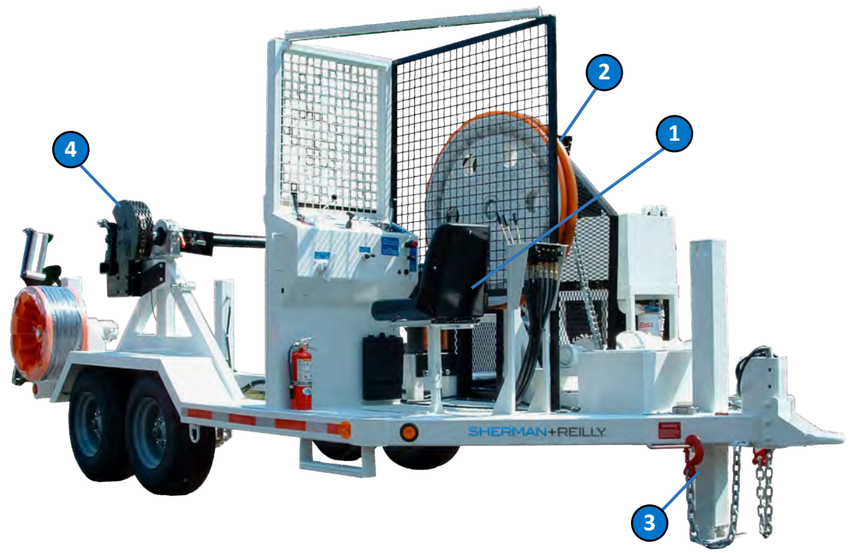
***Specifications are subject to change**

Options

- Solar battery charger
- Galvanized finish

TVG-1424 V-Groove Tensioner

4,000-lb. Multi-Role Tensioner



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

Features

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

Specifications

Max. Tensioning Capacity	4,000 lb.
Max. Pulling Capacity	3,000 lb.
Max. 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 & sprocket
Fail Safe Brake	Hydraulic-relieved/spring-applied
Directional Controls	Variable-speed, pressure and pre-set mode
Reel Capacity	1 reel carrier
Max. Reel Width	54 in.
Max. Reel Diameter	84 in.
Max. Reel Weight	8,000 lb.
Reel Shaft	2⅝ in.
Payout Brake	16 in. aluminium/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 gal.
Hydraulic Fluid & Filtration	ISO Grade 32; 10 micron
Tailing Tension Brake Control	Hydraulically-adjustable from operator console
Suspension	Leaf-spring
Axle Configuration	Tandem; 10,000 lb. each
Wheel Configuration & Tires	235/75R 17.5
Brakes (Trailer)	Electric, w/ break-away switch
Towing Attachment	3 in. pintle eye with (2) safety chains & hooks
Tie Downs (4)	⅝ in. dia. steel D-rings (2) 1 in. dia. steel D-rings (2)
Bumper (SS/CS) Jacks	Hydraulic w/ shoe (2)
Tongue Jack	Hydraulic w/ shoe (1)
Electrical System	12 VDC
Battery	12V, 840 CCA, BCI group 27
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	⅝ in. dia. copper-clad steel loops (4)
Wheel Chocks	Standard
Fire Extinguisher	ABC
Color	S+R white

***Specifications are subject to change**

Options

- Solar battery charger
- Hydraulic retriever for reel control
- Spider® pilot line system with independent levelwind, S-75 or S-85 Spider® reels with 3,000 ft. or 6,000 ft. of rope capacity
- Spider® rewind performance: in. 10,000 in./lb. (1,000 lb. of line tension at 20 in. dia.)
- 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 12V electric

TRT-184 | TRT-284 | TRT-384

Turret Reel Trailers (One, Two, Three-Reel)

TRT-184/60

TRT-384/60

TRT-284/60

1. 360˚ rotational range with reel mount on turret
2. Capable of independently orienting the direction of payout without having to repostition the trailer
3. Rotating turret may be locked at 15˚ intervals
4. Quick-release reel shaft bearings for safe and easy reel changes
5. Turret may be removed to use trailer for transporting equipment
6. Options include: hydraulically-driven retriever, electric-hydraulic payout brake, hydraulic front jack, hydraulic outriggers, gathering window with bed rollers and more

Specifications

	TRT-184/60 (one reel)	TRT-284/60 (two reels)	TRT-384/60 (three reels)
Max. Reel Weight	7,000 lb.	7,000 lb. per reel; 14,000 lb. total	Electric brake: 7,000 lb. per reel; 21,000 lb. total Air brake: 8,000 lb. per reel; 24,000 lb. total
Max. Reel Size	84 in. OD x 60 in. wide	84 in. OD x 60 in. wide each	84 in. OD x 60 in. wide each
Reel Shaft Diameter	2 ⅝ in.	2 ⅝ in.	2 ⅝ in.
Tensioning Brake	16 in. dia. disc, bronze	16 in. dia. disc, bronze	16 in. dia. disc, bronze
Turret Rotation Range	360˚; lockable in 15˚ increments	360˚; lockable in 15˚ increments	360˚, lockable in 15˚ increments
Frame Construction	Steel tubing, continuous-weld	Steel tubing, continuous-weld	Steel tubing, continuous-weld
Length (Overall, Nom.)	13 ft. 4 in.	21 ft. 6 in.	30 ft. 11 in.
Width (Overall, Nom.)	8 ft.	8 ft. 4 in.	8 ft. 6 in.
Height (Overall, Nom.)	8 ft. 9 in. (w/o reel)	8 ft. 8 in. (w/o reel)	9 ft. (w/o reels)
Weight*	4,600 lb. (w/o conductor or reel)	6,750 lb. (w/o conductor or reel)	Electric brake: 10,170 lb. (w/o conductor or reel) Air brake: 14,320 lb. (w/o conductor or reel)
GVWR	12,000 lb.	21,000 lb.	Electric brake: 33,800 lb. Air brake: 38,500 lb.
Suspension	Leaf-spring	Leaf-spring	Leaf-spring, heavy-duty
Axle Configuration	Single	Tandem	Tandem
Wheel Configuration & Tires	Single, 235/75R 17.5	Single, 215/75R 17.5	Dual, 215/75R 17.5H
Brakes (Trailer)	Electric w/ break-away switch	Electric w/ break-away switch	Electric w/ safety break-away switch or air
Tongue Jack	Manual or hydraulic w/ shoe	Manual or hydraulic, w/ shoe	Manual or hydraulic, w/ shoe
Tie-Downs	D-rings (1 ea. at platform corners)	D-rings (4 ea., 2 per side)	D-rings (4 ea., 2 per side)

Standard Features

Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 ea. w/ hook
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	¾ in. dia. copper-clad steel loops (4 ea.)
Color	S+R white

Options

- Electric-over-hydraulic payout brakes
- Hydraulic retriever (min. 25,000 in.-lb.; 2,800 lb. of line tension at 18 in. dia. - DO NOT EXCEED 12 GPM and 3,000 psi) NOTE: Some S+R products are equipped w/ retriever option that is supported by an external power source
- 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

***Specifications are subject to change**

CRT-196/67 | CRT-472/52

Reel Trailers (One-Reel & Four-Reel)

CRT-196/67

CRT-475/52

1. Conductor trailer built for transporting and tensioning
2. Equipped with an aluminium-bronze ventilated disc brake
3. Quick-release reel shaft bearings for safe and easy reel changes
4. Available in a single-reel or four-reel configurations

Specifications

CRT-196/67

Max. Reel Weight (Dynamic)	20,000 lb. fully-loaded, 3 in. reel shaft
Max. Reel Size	96 in. OD x 67 in. wide
Reel Shaft Diameter	2⅝ in.; 1 ea. & 3 in.; 1 ea. included
Reel Brake	20 in. dia. disc, aluminium-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, 215/75R 17.5H
Brakes (Trailer)	Electric
Tongue Jack	Drop-leg w/ pin & shoe
Bumper (SS/CS) Jacks	Drop-leg w/ pin & shoe (2)
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 ea. w/ hook
Lights/Navigation	US DOT, LED 12 VDC
Grounding	¾ in. dia. copper-clad steel ground loops (4 ea.)
Color	S+R white
Height w/ 96-in. Reel	11 ft. 7 in.

CRT-472/52

Max. Reel Weight (Dynamic)	6,000 lb./reel
Max. Reel Size	72 in. OD x 52 in. wide
Reel Shaft Diameter	2⅝ 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, 215/75R 17.5 H, 10-bolt 6.75HC
Brakes (Trailer)	Air
Tongue Jack	Manual
Bumper (SS/CS) bJack	Manual
Towing Attachment	3 in. adjustable pintle eye
Safety Chains	2 ea. w/ hook
Lights/Navigation	US DOT, LED, 12 VDC
Grounding	¾ in. dia. copper-clad steel grounding loops (4 ea.)
Color	S+R white
Powerpack	13 HP, hydraulic rewind *Hydraulic retriever performance: approx. 20,000 in.-lb. at 7 GPM and 2,000 psi. Do not exceed 12 GPM and 3,000 psi

Options

- Hydraulic front jack
- Rear hydraulic jacks
- 20 HP powerpack (engine HP subject to availability)
- RDG-2100 rotating distribution ground
- DG-1400 running ground
- Air brakes

***Specifications are subject to change**

CRS-68/44

Single-Reel Stationary Reel Stand; 8,000-lb. Capacity

1. Constructed with structural-grade steel tubing
2. Disc-caliper brake for controlled tail-tension
3. Quick-disconnect hydraulic fittings allow for rapid set up with purchase of hydraulic retriever package
   **Hydraulic retriever performance: approx. 20,000 in.-lb. at 7 GPM and 2,000 psi. Do not exceed 12 GPM and 3,000 psi*
4. Anchor rings and grounding bars at each corner

Specifications

Max. Reel Size	68 in. OD x 44 in. wide
Max. Reel Weight	8,000 lb. (fully-static at full width)
Payout Brake	Manual, 20 in. dia. disc; aluminium-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	¾ in. dia. copper ground loops (4)
Tie-Downs	⅝ in dia. steel D-rings (4)
Color	S+R white
Drive Bar Diameter	2⅝ in.

Options

- RDG-2100 rotating distribution ground
- DG-4100 running ground
- Hydraulic retriever:
  Performance: min. 25,000 in.-lb.; 2,800 lb. of line tension at 18 in. dia.
  NOTE: Some S+R products are equipped with a retriever option that is supported by an external power source
  NOTE: Do not exceed 12 GPM and 3,000 psi

***Specifications are subject to change**

CRS-96/67 | CRS-108/83

Single-Reel Stationary Reel Stands; 24,000-lb. & 30,000-lb. Capacities

CRS-96/67 (20K)

CRS-108/83 (30K)

1. Constructed with structural-grade steel tubing
2. When coupled with a compatible tensioner, the reel stand can be hydraulically-controlled by: T-1608, T-2608, T-7212, PTR-7230, PTR-7240
3. Disc-caliper payout brake for controlled tail-tension
4. Quick-disconnect hydraulic fittings allow for rapid set up with purchase of hydraulic retriever package **Hydraulic retriever performance: approx. 20,000 in.-lb. at 7 GPM and 2,000 psi. Do not exceed 12 GPM and 3,000 psi*
5. Anchor rings and grounding bars at each corner

Specifications

	CRS-96/67 (20K)	CRS-96/67 (24K)	CRS-108/83 (20K)	CRS-108/83 (30K)
Max. Reel Size	96 in. OD x 67 in. wide		108 in. OD x 83 in. wide	
Max. Reel Weight	20,000 lb. static at full width	24,000 lb. static at full width	20,000 lb. static at full width	30,000 lb. static at full width
Payout Brake	Manual, 20 in. dia. disc aluminium-bronze		Manual, 20 in. dia. disc aluminium	
Frame Configuration	Reinforced truss on rectangular base			
Frame Construction	Structural tubing			
Length (Overall, Nom.)	10 ft. 10 in.		11 ft. 11 in.	
Width (Overall, Nom.)	8 ft.			
Height (Overall, Nom.)	6 ft. 2 in. (w/o reel)		6 ft. 5 in.	
Weight (Overall, Nom.)	1,950 lb.	2,990 lb.	1,964 lb.	3,440 lb.
Grounding	¾ in. dia. copper ground loops (4)			
Tie-Downs	1 in. dia. steel D-rings (4)			
Color	S+R white			
Drive Bar Diameter	3 15⁄16 in.	5 in.	3 15⁄16 in.	5 in.

Options

- Hydraulic retriever [CRS-96/67 (20K) and CRS-108/83 (20K) only]:
  Performance: min. 25,000 in.-lb.; 2,800 lb. of line tension at 18 in. dia.
  NOTE: Some S+R products are equipped w/ a retriever option that is supported by an external power source
  NOTE: Do not exceed 12 GPM and 3,000 psi

***Specifications are subject to change**

RW-90/56-30K

Single-Reel Reel Winder

1. Accommodates reels of up to 90 in. OD x 56 in. wide
2. Multi-adjust levelwind for reel widths and cable sizes with manual levelwind release
3. Direct-drive eliminates chain drive
4. Oil-free hydraulic bleed button for easy hose installation
5. Toolless, quick reel removal with pin-free X-change™ drive
6. Balanced lifting bells for smooth operation and eliminating the risk of uncontrolled loads

Specifications

Maximum Reel Size (inches)	90 in. O.D. x 56 in. wide
Maximum Reel Weight (lbs.)	Over the road: 10,000 lbs. Site use (full-width): 30,000 lbs.
Failsafe Brake	Manual-hydraulic
Shaft Diameter (inches)	Standard: 4 in. Optional: 5 in. (adapter provided)
Frame Construction	Steel tubing, continuous-weld
Length x Width x Height (inches)	143 in. L x 101 in. W x 106 in. H; overall nominal
Grounding	Bronze ground stud (1)
Tie-Downs	D-rings, 1 in. dia. steel, 4 each
Lifting Points	Four (4) rated lifting points for transport of empty unit
Fork Tubes	For transporting empty unit on non-motor side
Paint	S+R white

Options

- 16mm x 25,000 ft with ø 90” x 56” reel
- 18mm x 22,000 ft with ø 90” x 56” reel
- 22mm x 22,000 ft with ø 90” x 56” reel
- ø 90” x 56” reel
- RCR-90 reconductoring reel

Optional RCR-90 Reconductoring Reel	
Reel Capacity	30,000 lb.
Reel OD	90 in.
Reel Width (outside)	56 in.
Reel Width (inside transverse)	45 in.
Reel Core Diameter	34-25 in.
Reel Weight (nom.)	1,212 lb.
Reel Hub Size	Accommodates 3-15/16 in. reel shaft
Reel Material	Steel, continuous-weld

RCR-54 | RCR-60 | RCR-72 | RCR-76

Reconductoring Reels

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 wound conductor removal
4. Banding/strapping may be inserted onto reel before winding old conductor
5. RCR-54 compatible with: P-1400X
6. RCR-60 compatible with: PT-3000, PTX-3500, PT-7500
7. RCR-72 compatible with: P-6000H
8. RCR-76 compatible with: PTV-6013, PTR-7230, PTR-7240

Specifications

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 Dia.	31.5 - 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.

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 Dia.	24 - 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-72 Reconductoring Reel

Reel Capacity	9,100 lb. of added conductor
Reel OD	72 in.
Reel Width (Outside)	45 in.
Reel Width (Inside Transverse)	37 in.
Reel Core Dia.	24 - 18.5 in.
Reel Weight (Nom.)	1,900 lb.
Reel Hub Size	P-6000H engagement only
Reel Material	Steel, continuous-weld
T-Handle Wrench	Included
Pulling Capacity	6,000 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 Dia.	40 - 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.

***Specifications are subject to change**

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.

Four Key Components

There are four key components used in an overhead distribution stringing job: 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 by the other components—if they are low-quality or undersized, they can increase the load beyond the line's safe working limit, potentially causing it to fail. 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. 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 one (1) span
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
0.98	efficiency of stringing blocks
n	number of supports or blocks

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

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

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

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.

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 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.

Know+Go

On-Board Instructional Video System

1. Know+Go video system located within the Safe-Zone® enclosure
2. Purposefully-designed box is road-ready
3. 7-inch touchscreen on Heritage Series; 10-inch touchscreen on E+ Series
4. Waterproof speakers for clear audio
5. Library of embedded instructional videos; no downloads necessary
6. Digital operator's manual included with system

Features

- IFM display is IP65 and UV-rated
- Two 3.1-inch speakers with full-range audio are IP65-rated, waterproof and saltwater-resistant
- Available as an option on Heritage Series units; standard on E+ Series units
- Accessible without cellular or wifi connection
- Instructional videos explain operator controls and features for easy on-the-job operation

Specifications

Display	7 in. touchscreen (Heritage Series) or 10 in. touchscreen (E+ Series) IFM display; ingress protection rating IP 65; UV rated ISO 4892-2. Clear 800 x 480 pixel, back-lit LED illumination with 1,000:1 contrast ratio. 16:10 aspect ratio in a durable, shock-resistant, vibration-resistant, IFP display
Case	Road-ready, purposefully-built and powdered-coated steel box located in Safe-Zone® enclouse on Heritage Series units. Sturdily-mounted for easy viewing without impeding the line of site during operation and protects the controller, amplifier and speakers
Availability	Optional on Heritage Series units; standard feature on E+ Series units. Know+Go video systems can be installed as an option on Heritage Series units by an S+R service representative
Videos	Hosts up to 12 pre-set videos that are accessible without cellular or wifi connection. Videos cover pulling, tensioning, payout, etc.
Audio	Speakers: 8 CM saltwater 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

EQUIPMENT YOUR WAY

S+R Rental Program

We offer a full lineup of high-quality equipment, accessories and blocks to meet the needs of any stringing application, whether overhead or underground. From pullers and tensioners, to reel stands and trailers, and everything in between, S+R has inventory ready to deploy.

Visit sherman-reilly.com/rental-program to learn more.

SHERMAN+REILLY®

UG-71

- Ideal for quick installation in conduit
- Slotted base allows for easy insertion and removal of pulling cable
- Available in sizes that fit 2-6 in. conduit
- Nylon sheave material
- Sheave dimensions: 7 in. OD x 4¾ in. rim width; 2⅛ 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 in.
- Slotted base allows for easy insertion and removal of pulling cable
- Available in sizes that fit 2-6 in. conduit
- Nylon sheave material
- Sheave dimensions: 7 in. OD x 4¾ in. rim width; 2⅛ in. groove radius
- Accommodates up to 4 in. diameter cable
- Net weight: 40 lb.

UG-72

UG-73

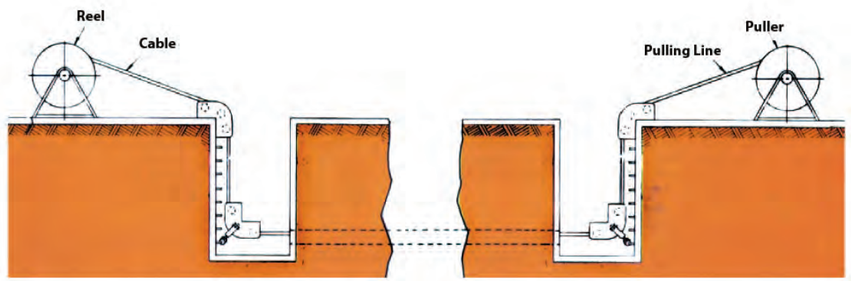
- Ideal for underground construction
- Can be mounted on edge of manhole or anchored in vault
- Available in nylon sheaves

UG-73

Specifications

- Options: available in SCH 40 (orange), SCH 80 (yellow), DB 120 (white)

	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 4¾	3	16⁷⁄₁₆	4	12,500	65
UG-103-NY-A	10 x 7¼	3	21¾	6	10,000	140
UG-104-NY-A	10 x 7¼	4	27¹³⁄₁₆	6	17,500	250
UG-104-NY-A	10 x 7¼	4	35¹³⁄₁₆	6	17,500	250



Underground Block with ‘Split’ Sheave UG-308-SS

- Taken into manholes or vaults when space is limited/restricted
- 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 working load: 3,000 lb.
- E-49-D maximum working load: 8,800 lb.
- V55D maxiumum working load: 10,000 lb.

Connectors/swivels are not designed to be pulled over sheaves or bullwheels.

Underground Pulling Rope

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

Underground Replacement Grips

Catalog No.	Cable Diameter Range (in.)	Max Working Load (lb.)	Mesh Length at Nominal Diameter (in.)	Eye Length (in.)
033-04-1091	0.75-0.99	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

Model No.	Max. 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

***Specifications are subject to change**

Air Adapter & Birds
Winch Line Blower Kits

Air Adapter & 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 creates a significantly lighter-weight bird
- Improved design enables faster overall speed

Bird Kit

- Birds for 6 different sized ducts (2 in., 2½ in., 3 in., 4 in., 5 in., 6 in.)

Air Adapter Kit

- Includes S+R air adapter and 6 different-sized duct adapters (2 in., 2½ in., 3 in., 4 in., 5 in., 6 in.) and venturi sets

Service Kit

- Kit for upgrading your existing air adapter and birds for improved efficiency and faster line out

Full Range of Bird Sizes Available

Bird Replacement Cups (Sold in Pairs)

Air Adapter Winch Line Blower Kit (Duct Adapters Included)

Ordering Information

Bird Kit	
Catalog No.	**Description**
619349	Bird conduit kit
619105	Bird 2 in.
619106	Bird 2½ in.
619107	Bird 3 in.
619108	Bird 4 in.
619109	Bird 5 in.
619110	Bird 6 in.

Bird Replacement Cups	
Catalog No.	**Description**
620927	Bird replacement cup kit 2 in.
620928	Bird replacement cup kit 2½ in.
620929	Bird replacement cup kit 3 in.
620930	Bird replacement cup kit 4 in.
620931	Bird replacement cup kit 5 in.
620932	Bird replacement cup kit 6 in.

Air Adapter Winch Line Blower Kit	
Catalog No.	**Description**
620807	S+R duct adapter kit
620479	Winch line body assy. 2-6 in.
620567	Winch line duct adapter 2 in.
620568	Winch line duct adapter 2½ in.
620569	Winch line duct adapter 3 in.
620570	Winch line duct adapter 4 in.
620571	Winch line duct adapter 5 in.
620572	Winch line duct adapter 6 in.
620480	Winch line venturi ¼-⅜ set
620702	Winch line venturi ½-⅝ set
621061	2½ in. wrench

Service Kit for Duct Dawg® Units	
Catalog No.	**Description**
620942	Bird+air adapter retrofit kit
620936	DDXHA air adapter & birds decal
620941	Air adapter manual
621061	2½ in. non-adjustable wrench
620783	Rubber bumper pad toolbox storage sleeve
620782	New toolbox weldment

Service Kit Includes:

- Air adapter and six different sized duct adapters (2 in., 2½ in., 3 in., 4 in., 5 in., 6 in.) and venturi sets for winchline from ¼ - ⅝ in.
- Birds for six different ducts (2 in., 2½ in., 3 in., 4 in., 5 in., 6 in.)
- Quick reference toolbox decal for setup and troubleshooting
- Toolbox rack with rubber padding for protective storage of duct adapters
- 2½ in. wrench for tightening the duct adapters
- Air adapter winch line blower instructional manual

***Specifications are subject to change**

Sherman+Reilly has nearly a century of experience manufacturing industry-leading stringing blocks.

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

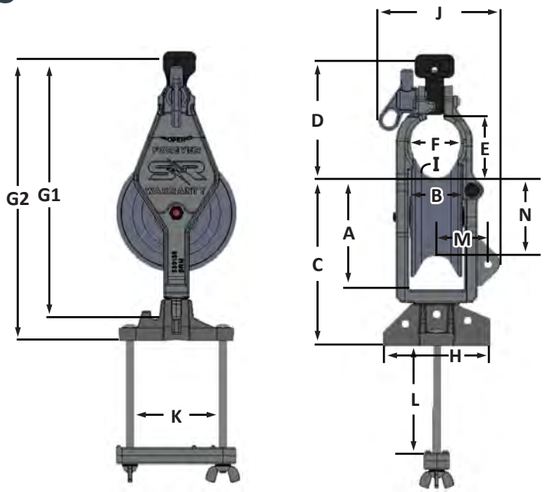
Manufactured with sealed, low-friction bearings and A356-T6 cast aluminium, S+R blocks are built to last.

Sherman+Reilly offers full-coverage warranty protection and guarantees that your products will be free of defects.

Universal Stringing Blocks

Model XS-100-B

- 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 9½ 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 operating conditions
- Four material options available for sheave/groove linings: polished-groove aluminium, urethane on aluminium, ductile iron or nylon
- Ductile iron is optimal for unusually-rugged applications due to its abrasion resistance



***Crossarm brasket sold separately**

Specifications

Size	Outside Sheave Dia. (in.)	Rim Width (in.)	Height Above Crossarm (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	9¾	6⅔	3⅜	3 1⁄16	14 11⁄16	15 5⁄16	6¼

Radius (in.)	Width at Widest Point (in.)	Max. Crossarm Size (in.)		Sheave to Mounting Hole (in.)	Bottom of Groove Dia. (in.)
I	J	K	L	M	N
1	7	5	6	3	4½

Size (in.)	Max. OD of Conductor (in.)	Max. Working Load Limit (lb.)	Block Weight (lb.)	Block Weight w/o Bracket (lb.)
7	1¾	2,500	12½	9¼


#1 Hook


#1 Hook w/ Safety Latch


#6 Oval Eye


#8 Clevis

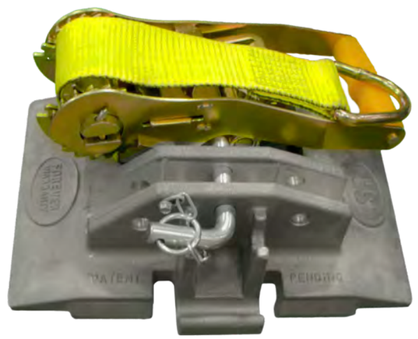

#3030 Y-Clevis

Accessories

XS-100 Fastrap® Bracket

- 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/dismount
- Strong holding force, without damage, regardless of materials

XS-100 Fastrap® Bracket	
Pulling Load (Rated)	2,500 lb., vertical; 1,500 lb., horizontal
Max. Compatible Cross-Arm Size	4 in. x 10 in.
Min. Compatible Cross-Arm Size	3½ in. x 4½ in.
Operating Mechanism	Encircling strap w/ manual tightening using a fine-tooth ratcheted lever; released by quick-release lever
Base	Aluminium, w/ slip-resistant coating
Strap	30 in. length, Polyester, woven, w/ UV inhibitors & wear indicators
Min. Strap-Assembly Breaking Strength	9,000 lb.
Ratchet Material	Steel with corrosion-resistant coating
Weight (Nom.)	6½ lb.
Dimensions (Stored, Nom.)	12 in. x 7¼ in. x 6 in.



XS-100 Fastrap® Bracket

***Specifications are subject to change**

XS-100-B Sheave Options

Polished Groove Sheave - Standard (Original)

- 7 in x 3 in. cast aluminium alloy sheave, heat-treated for strength and extended life, finished with precision machining
- Suitable for many conductor stringing and cable placement applications
- Sealed, anti-friction ball bearings, lubricated for life under normal operating conditions
- 98% efficiency during stringing; reducing the 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
- Interchangable with all XS-100 frames

Ductile Iron Sheave

- Same profile as all other 7 in. x 3 in. sizes
- Ideal for stringing steel static, new or reconductoring
- Block weight will increase approximately 7 lb.
- Not recommended for aluminium conductor
- Interchangable 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

Model XS-200

- XS-200 contains two identical sheaves
- Designed 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 of 2,500 lb.; block weight 16 ¼ lb.
- Available in polished groove, nylon or urethane

XS-200

Accessories

Adjustable Insulator Adapter

AIA-CF

- Two models available: AIA-CF and AIA-J
- Used for reconductoring on vertical tie-top post insulators
- Compatible with glass and ceramic insulators only; do not use with polymer insulators
- AIA-CF adjusts to fit most insulators with neck dia. for 2⅛ - 3½ in.
- AIA-J adjusts to fit most insulators with neck dia. for 3¼ - 4⅞ in.
- Fits all Sherman+Reilly XS-100-B stringing blocks

Horizontal Line Post Adapter

LPA-17-A

- 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° for negotiating angles

Grounding Stud

Grounding Stud

- Provides location to ground block

1210 Adapter

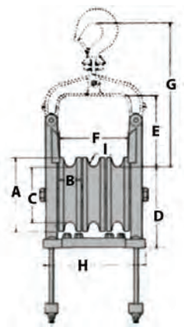
1210 Adapter

- Designed 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 ⅝ in. wire

*Specifications are subject to change

XS-707: Multi-Sheave Stringing Blocks

- Used for stringing spacer-type aerial cable
- Equipped with aluminium 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)**

Outside Sheave Dia. (in.)	Rim Width (in.)	Bottom Groove Dia. (in.)	Height Above Crossarm (in.)	Throat Height (in.)	Throat Width (in.)	Height Above Bottom of Groove (in.)	Width at Widest Point (in.)	Bottom Groove Radius (in.)	Max. Crossarm Size (in.)	
A	B	C	D	E	F	G	H	I	K	L
8	2 ½	5 ⅝	8 9⁄16	7 13⁄16	7 3⁄32	15 3⁄16	11 ⅛	1⁄16	5	6

Size (in.)	Max. OD of Conductor, Polished Groove (in.)	Max. Working Load Limit (lb.)	Block Weight (lb.)
8	1 ¼	2,500 lb.	21

Running Board RB-707

- 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 are installed at proper location between the poles, allowing for proper sag between spacers
- XS-707-3 pulls three (3) conductors at one time
- MWL: 7,500 lb.
- Proof load: 11,250 lb.

RB-707

CRB-U-975 Conduit Riser Bracket

- Secure conduit to power poles with conduit riser bracket
- Available in ⅜ in. diameter U-bolt to fit maximum 2 in. or 5 in. diameter conduit

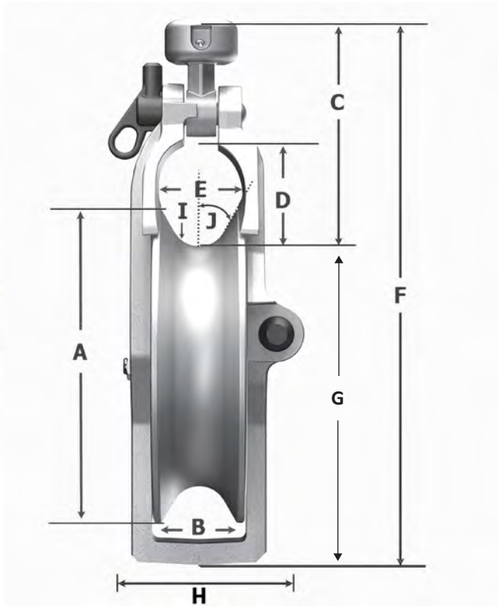
CRB-U-975

***Specifications are subject to change**

Universal Stringing Blocks

Model XL-100

- 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 operating conditions
- Protected by the Sherman+Reilly Forever Warranty® program



XL-100 Block Shown with Optional Ground

Specifications

Size	Outside Sheave Dia. (in.)	Rim Width (in.)	Inside Top of Socket to Bottom of Groove (in.)	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	3.188	20.08	9	7.263	1.063	30°

Size (in.)	Max. Working Load Limit (lb.)	Block Weight (lb.)
11.75	5,000	17.5

Ground-to-Air & Handline Blocks

- Two models available: GTA-358 (closed-side) and HLB-472 (open-side)
- Ideal for handline purposes
- Constructed of lightweight, high-strength aluminium alloy for maximum strength at minimum weight
- Ideal for synthetic ropes
- Rope size for both models: ⅜ in. - ⅝ in.

GTA-358

HLB-472

Model No.	Rope Size (in.)	Length (in.)	Width (in.)	Weight (lb.)	Max. Working Load (lb.)
GTA-358	⅜ - ⅝	7	2 ½	2.9	2,000
HLB-472	⅜ - ⅝	6 ³⁄₁₆	2 ¼	2.3	1,250

All-Purpose Snatch Block Model No. 4841

- For all types of rope, including wire rope
- Wide groove sheaves for ropes up to 1¼ in. diameter
- Aluminium-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 any position other than vertical
- Excellent hoisting block, particularly for pole-top application, due to light weight and high-strength features

4841

Model No. 4841	
Sheave Size	6½ in. OD x 2⅛ in. rim width
Hook Opening	1½ in.
Max. Rope Diameter	1¼ in.
Bearing Type	Ball bearings
Throat to Top of Sheave	8¾ in.
Weight	18½ lb.
Max. Working Load	6,000 lb.
Overall Length	17 in.

*Specifications are subject to change

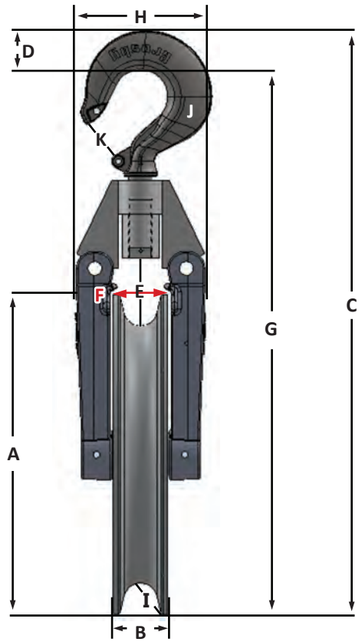
Model No. 9511

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

Materials				
Size (in.)	Max. Working Load (lb.)	Polished Groove	Ductile Iron	Urethane
6	3,000	x	x	x
8	5,000	x	x	x
12	7,500	x		x

	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 (in.)	A	B	C	D	E	F	G	H	I	J	K
6	6	1 ½	4 ½	27/32	1 13/16	1 ½	11 ⅛	4 ¼	7/16	3 31/32	31/32
8	8	1 ¾	6 ½	1 7/16	2 3/16	1 ¾	15 11/32	4 ¾	7/16	6 ⅞	1 ¾
12	12	2	10	7/16	2 ½	1 ¾	20	4 ¾	19/32	6 ⅞	1 ½

9511



Hold Down Blocks

- 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 interrupting 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

Model No.	Sheave Size (in.)	Max. Working Load (lb.)
HD-72-DIU	7	4,000
HD-142-U	14	5,000

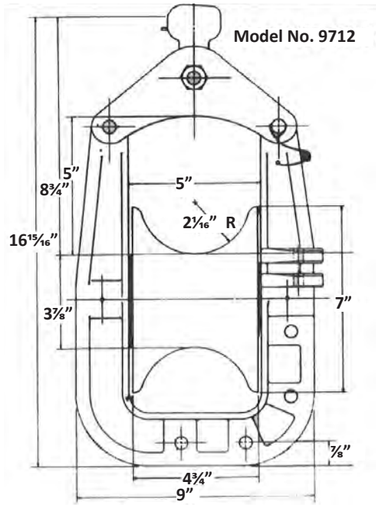
HD-72

HD-142

97 Series: Versatile T&D Block Model No. 9712

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

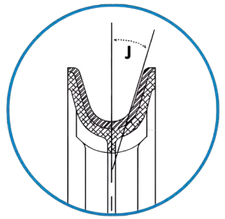
Model 9712	
Max. OD Conductor	4 in.
Max. Working Load in Suspension	5,000 lb.
Block Weight	16 lb.

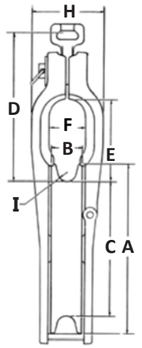


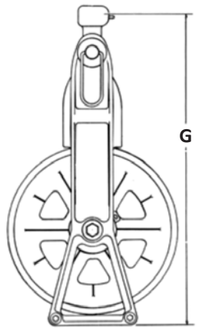
*Specifications are subject to change

74 Series Blocks

- 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 aluminium alloy sheave
- Shielded ball bearings
- Lubrication fitting







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 - Polished Groove	Height - Urethane	Width				Polished Groove	Urethane
	A	B	C		D		E		F	G	H	I	J	
10	10	1 ⅛	7 1⁵⁄₁₆	7 1⁵⁄₁₆	9 1⁵⁄₃₂	9 1⁵⁄₃₂	4 ⁵⁹⁄₆₄	4 ⁵¹⁄₆₄	2 ⅛	19 ⁷⁄₁₆	4 ¼	¹⁷⁄₃₂	13	13
12	12	2	9 ⅜	10	9 ½	9 ⁵⁄₁₆	5 ³⁄₆₄	4 ⁵⁵⁄₆₄	2 ¼	20 ¹³⁄₁₆	4 ⅛	¹⁹⁄₃₂	13	13
14	14 ¹⁹⁄₄₀	2 ⅛	11 ⁷⁹⁄₇₇	12 1¹⁄₄₆	10 ²⁹⁄₃₂	9 ³³⁄₃₅	5 ⁷⁄₁₃	5 ⁷⁄₁₇	2 ⅜	24 ¹⁄₁₆	5 ³⁄₃₂	¹³⁄₂₀	15	12
16	16 ½	2 ¼	14	14	10 ¹⁄₃₂	10 ¹⁄₃₂	5 ²⁹⁄₆₄	5 ²⁹⁄₆₄	2 ½	26 ³⁄₃₂	5 ½	²³⁄₃₂	17	15

Size (nom.)	Max. Conductor OD (in.)	Max. Working Load Limit (lb.)	Block Weight (nom.)	Material		Efficiency
				Frame	Sheave	
10	Refer to IEEE Standard 524 (2016)	6,500	11 ½	A356-T6 aluminium (virgin)		98%
12		6,500	14 ½			
14		7,500	18			
16		9,000	22			

Additional Fittings

#1 Hook

#1 Hook w/ Safety Latch

#6 Oval Eye

#8 Clevis

#3030 Y-Clevis

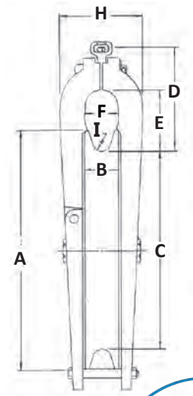
Accessories

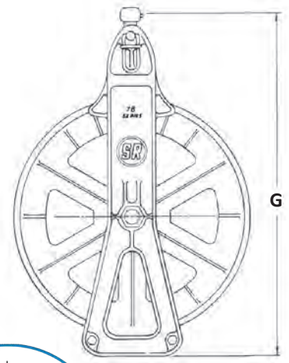
Block Grounds

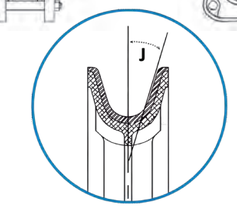
Provide direct grounding to the conductor or pulling line via an aluminium or steel sheave to maintain voltage drain for safer working conditions. This sheave applies constant contact against the conductor via spring-action from underneath the wire, which prevents the block from 'yawing.' Block grounds are available in **72, 74 and 78 Series transmission blocks**.

78 Series Blocks

- Construction of single conductor type transmission lines; industry standard
- Large enough for bigger conductors yet still light and easy to handle
- Throat section is sufficient for most sleeve and connection types encountered in new construction and reconductoring
- All aluminium 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 ¼ in. 79 Series is designed for large throat openings that allow the passing of 'dead ends' often associated with river crossings; also available in urethane







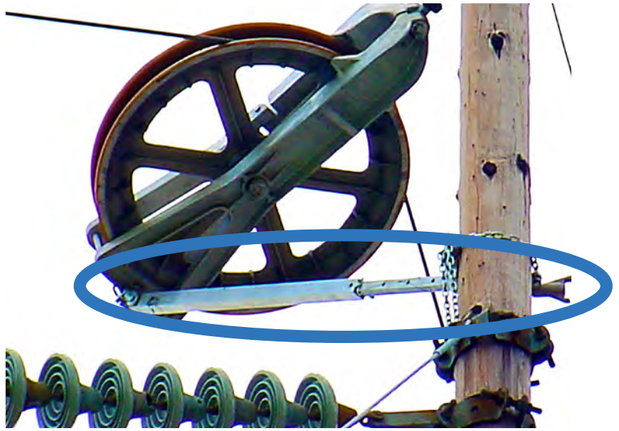
Size (nom.)	Sheave OD (in.)	Rim Width (in.)	Groove Bottom Dia. (in.)		Connection Point to Groove Bottom (in.)		Throat Dimensions (in.)			Height Overall (in.)	Width Overall (in.)	Groove Radius (in.)	Flare Angle (Degrees)	
			Polished Groove	Urethane	Polished Groove	Urethane	Height - Polished Groove	Height - Urethane	Width				Polished Groove	Urethane
	A	B	C		D		E		F	G	H	I	J	
20	20	3 ⅛	16	16 ¼	10 ⅜	10 ¼	5 ¹⁷⁄₁₆	5 ⁹⁄₁₆	3 ⅛	30 ⅛	7 ⅝	¹³⁄₁₆	15	16
22	22	3 ⅛	18	18 ⅛	10 ⅜	10 ⁹⁄₁₆	5 ¹⁷⁄₁₆	5 ⅝	3 ⅛	32	7 ⅞	¹³⁄₁₆	17	17
28	28	3 ¼	23 ¾	24	10 ¼	10 ⅜	5 ¹³⁄₁₆	5 ¹⁷⁄₁₆	3 ¼	38 ⅛	7 ¾	1	15	15
28-A	28	3 ¼	-	24	-	10 ⅜	-	5 ¹⁷⁄₁₆	3 ¼	38 ⅛	7 ¾	⅞	-	15
35	35	4	-	30 ¼	-	12 ¾	-	8 ³⁄₃₂	4 ½	47	10 ⅜	1 ⅛	-	15
42	42	4 ½	-	36	-	17 ⅜	-	9 ¾	5	58	12 ½	1 ⅛	-	17
46 ¼	42 ¼	5	-	40	-	14 ½	-	6 ¾	4	61	10	1 ⅜	-	15

Size (nom.)	Max. Conductor OD (in.)	Max. Working Load Limit (lb.)	Block Weight (nom.) (lb.)	Material		Efficiency
				Frame	Sheave	
20	Refer to IEEE Standard 524 (2016)	12,000	42	A356-T6 aluminium (virgin)		98%
22		12,000	46			
28		12,000	62			
28-A		12,000	68			
35		12,000	115			
42		17,000	155			
46 ¼		17,000	185			

***Specifications are subject to change**

BSD-748 Block Support Device

- Will adjust to fit wood, concrete, steel poles
- Capable of “floating outward” should the load and force during stringing dictate more angle
- Fits sizes 12 in. - 16 in. (74 Series) and sizes 20 in. - 35 in. (78 series) S+R single-conductor stringing blocks

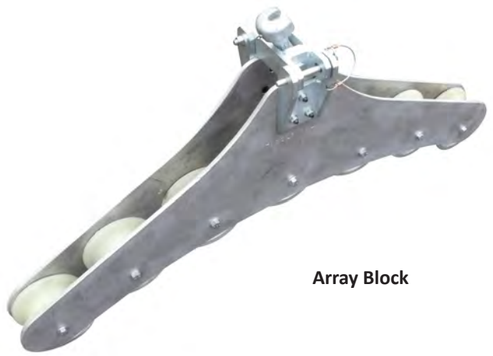


BSD-748

Array Block

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

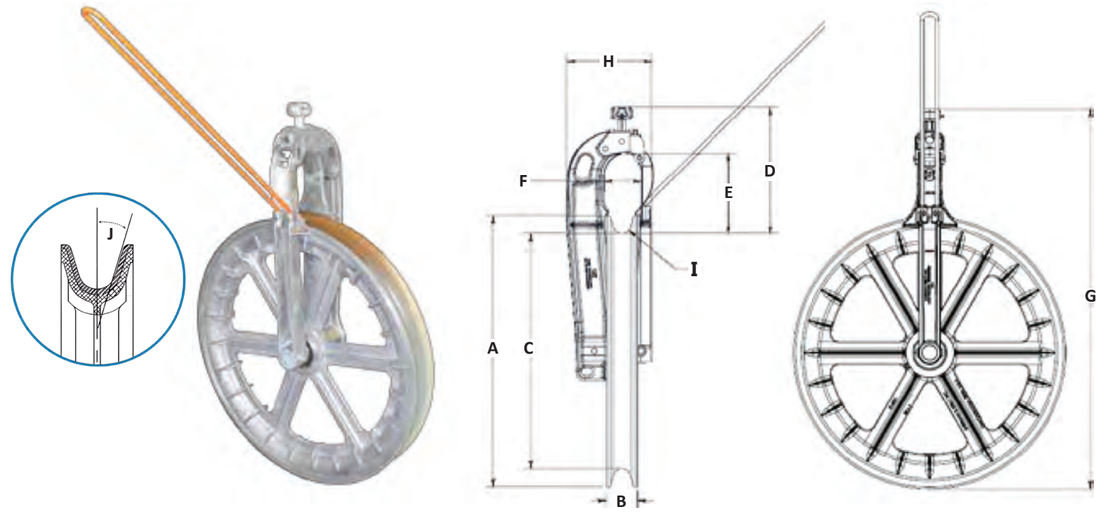


Array Block

Sheaves	Max. Work Load (lb)	Breakover Angle	Radius (in.)	Bottom of Groove Dia. (in.)	Lining	Side Frames
7	7,500	60°	60	4 ½ - 4 ⅞	Urethane or Polished Groove	Aluminium
14		90°				

72 Series Blocks

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



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 ⅛	18 ⅛	13	8 ¼	4	33 ¹⁵⁄₁₆	9 ¼	¹³⁄₁₆	17
28	28	3 ¼	24	13 ³⁄₃₂	8	3 ⁵⁄₁₆	39 ¹⁵⁄₁₆	9 ¼	1	12 ½
35	35	4	30 ¼	15 ⅝	10 ¼	4 ²³⁄₃₂	48 ¹⁵⁄₁₆	11	1 ⅛	15
42	42	4 ½	36	16 ²⁹⁄₃₂	11	5 ¹⁄₁₆	55 ¹⁵⁄₁₆	12 ³⁄₃₂	1 ⅛	17

Size (nom.)	Max. Conductor OD (in.)	Max. Working Load Limit (lb.)	Block Weight (nom.) (lb.)	Material		Efficiency
				Frame	Sheave	
22	Refer to IEEE Standard 524 (2016)	12,000	54	A356-T6 aluminium (virgin)		98%
28		12,000	65			
35		12,000	115			
42		17,000	145			

*Specifications are subject to change

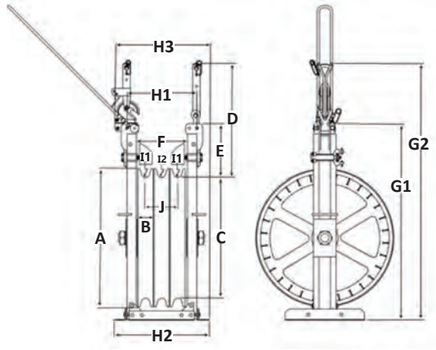
70 Series Blocks

Bundle blocks are available in various configurations, 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.

S+R bundle blocks were designed with the versatility in mind. These blocks can be easily reconfigured to meet the demands of changing stringing needs and conditions.

- Can be made in tandem to reduce break-over angle

***Shown with head bar (sold separately)**



Size (nom.)	Sheave OD (in.)	Rim Width (in.)		Groove Bottom Dia. (in.)	Con-nection 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 ¼	4 ¼	24	30 ½	13 ⅜	12 ¼	43 ⅛	61 ⅛	18	23 ¾	24 ⅛	1	1 ³⁄₃₂	8 ½	12 ½	15
32	32	3 ¼	4 ¼	28	30 ½	13 ¾	12 ¼	47 ½	64 ¼	18	23 ¾	23 ⅜	1	1 ³⁄₃₂	8 ½	12 ½	15
36 ½	36 ½	4	4	32	28 ¹⁹⁄₃₂	14 ½	13	52 ⅛	67 ½	18	24 ½	27 ⅞	1 ⅛	1 ⅛	8 ½	15	15
42	-	-	-	-	29 ¾	15 ⅜	14 ½	58 ¾	72 ¾	20 ⅛	26	26 ⅜	-	-	9 ½	-	-

Size (nom.)	Max. Conductor OD (in.)	Max. Working Load Limit (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 Aluminium-Virgin	98%
32		15,000	275	325	385			
36 ½		15,000	410	460	520			
42		12,000	427	-	-			

Accessories

- Hold down rollers
- Stands
- HWA-70 helicopter arm attachment
- Bundle block grounds
- Head bar (single or dual point suspension)

Hard Nose Running Board

S+R hard nose running boards are designed to work in tandem with all S+R bundle blocks. Other configurations available upon request.

No. of Conductors	Conductor Spacing (in.)	Front Swivel	Rear Swivel	Assembly Rating (lb.)
2	8 ½	1 x D-300 (30,000 lb.)	2 x C-100 (10,000 lb)	20,000
3			3 x C-100 (10,000 lb.)	30,000
2			2 x D-160 (16,000 lb.)	
3			3 x D-160 (16,000 lb.)	
2	9 ½		2 x D-160 (16,000 lb.)	

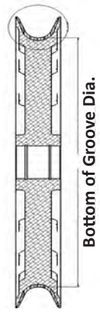
Specialty Transmission Blocks

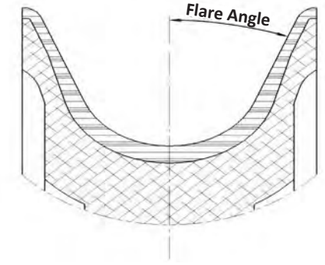
Sherman+Reilly can support your twisted pair conductor and specialty block needs.

Specially-designed conductors, like twisted pair and composite core conductor, may require special sheave sizes 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 groove diameter, profile and flare angle required by the conductor manufacturer.

With nearly a century of experience designing and manufacturing utility stringing blocks, S+R can help you meet any application need.

Contact us directly at (423) 756-5300 or sales@sherman-reilly.com





Specialty bundle block sheave groove for twisted pair conductor

72 Series Tandem Block

***Specifications are subject to change**

General Inspection Guidance for Blocks

Too often, blocks are an afterthought when preparing for a conductor pull, but they are the first item installed for the job and are an integral piece. While it is important that they blocks are adequately sized for the conductor being pulled, it is equally important that the condition of the blocks is acceptable. A block that is in good working condition will spin easily and effectively. On the other hand, a low-quality, damaged or worn-out block can increase pulling and tensioning loads and potentially create unsafe working conditions. Inspecting each and every block being used, to ensure they all spin easily and smoothly, is absolutely necessary.

Checklist for Inspecting Blocks:

1. 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, are properly connected and are fastened. Confirm the ball pen 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 passes a visual inspection, next check to make sure the block spins freely. For smaller distribution blocks, you may be able to hold it up and spin it with your hand. If it’s full-frame block, stand it up and spin. If the block is a half-frame, 72 Series, hang it from the socket connecter on something sturdy and 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 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 all 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 overtighten, 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 condition 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 pen 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 and the block to fall)

Inspecting Block Helicopter Attachment:

1. Clean the helicopter cable gate assembly of any debris/dirt. De-grease and reapply new grease
2. With the block sitting on the ground, hold hanging strap on “cable-gate” side and rotate the “pac-man” to verify smooth rotation (**WARNING:** 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 proper operation
3. Check each upper and lower spring bracket for damage that would compromise integrity
4. Check rod and tube on spring assembly for deformation
5. Check ground strap for damage; if damaged, replace
6. Each ground sheave should maintain a minimum of ¼ in. 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

***Specifications are subject to change**

Stringing Blocks

XL-100

Sheave Sizes
- 11 ¾ in.

XS-100

Sheave Sizes
- 7 in.

Sheave Materials
- Polished groove
- Urethane
- Ductile iron
- Nylon

HLB-472

Rope Sizes
- ⅜ - ⅝ in.

Snatch Block

Sheave Sizes
- 6 ½ in.

Length
- 17 in.

9511

Sheave Sizes
- 6 in.
- 8 in.
- 12 in.

XS-707

Sheave Sizes
- 8 in.

XS-100 Fastrap® Bracket

Cross-arm Sizes
- 3 ½ x 4 ½ in.
- 4 x 10 in.

Breaking Strength
- 9,000 lb.

70 Series

Sheave Sizes
- 28 in.
- 32 in.
- 36 ½ in.
- 42 in.

Sheave Count
- 2-3

72 Series

Sheave Sizes
- 28 in.
- 32 in.
- 36 ½ in.
- 42 in.

Sheave Count
- 2-4

Hold Down Blocks

Sheave Sizes
- 7 in.
- 14 in.

74 Series

Sheave Sizes
- 10-16 in.

78 Series

Sheave Sizes
- 20-46 ¼ in.

Underground Blocks

UG-71

UG-72

UG-73

Sheave Sizes
- 7 in.

Sheave Count
- 1-3

Spider® System for Distribution

The Sherman+Reilly Spider® System is an integrated set of specialty equipment, reels, rope and accessories for the fast and easy installation of pulling lines for 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 sizes, 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

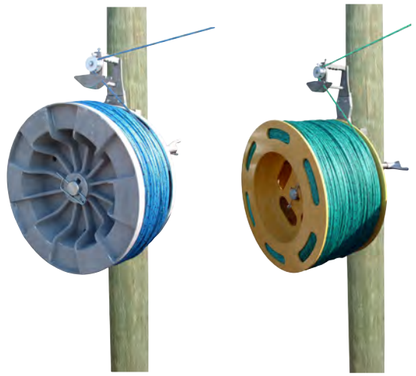
Components

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



S-7500 **S-8500**

Spiderflex Rope

- Torque-free, non-twisting; splices easily and stays flexible
- Available in red, green, blue and black

Standard Spiderflex Rope	
Size	5/16 in. recommended for Spider® systems
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

***Specifications are subject to change**

Spider® System Accessories

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 S-75-WA is manufactured out of steel and is CNC precision-machined for a more precise fit. New designs prevent “slop and lope” when pulling in the Spiderflex rope.

SST-7585 Spider® Tree

The SST-7585 Spider® storage tree is an ideal companion for both the S-7500 and S-8500 Spider® systems. It can store up to four controllers with reels (and rope) and one adapter. The lifting eye allows the storage tree to be picked up and carried by forklift and loaded on line truck with boom. This system eliminates handling individual reels and controllers and reduces breakage. It is also available with a vinyl cover for additional protection.

Features

- S-85-SR storage reel holds 6,000 ft. of 5⁄16 in. Spiderflex rope
- S-85-C controller accommodates both S-75 and S-85 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 both S-75 and S-85 storage reel
- For pulls that require 6,000 feet of rope, the S-8500 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 by simply connecting two smaller reels together
- All S-7500 and S-8500 Spider® parts are interchangeable

Kellems™ Grip for Spider® Systems

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 Spiderflex 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 will eventually fail if not inspected regularly.

The 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.

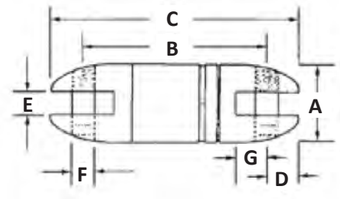
THE CONNECTION BETWEEN THE TWO ROPES ALWAYS NEEDS TO BE: TWO FLEX EYE GRIPS AND A SWIVEL

Swivels and Connectors

S+R precision-machined, alloy steel swivels and connectors are designed for overhead line stringing. Equipped with neoprene seals with stainless steel spring retainers, our accessories are compatible with various strengths of pulling line and grips.

Swivels

Specifically designed for overhead line stringing, these swivels are reliable and heavy-duty 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 resistance. Swivels should be compatible with strengths of pulling line and grips. These swivels (D-160 ¾ in.) are not recommended for underground use in conduit.



Connectors/swivels are not designed to be pulled over sheaves or bullwheels.

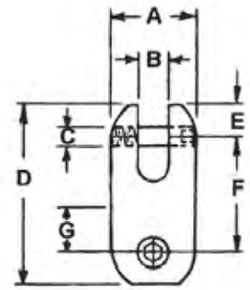
Model No.	Wire Rope Size (in.)	Max. Working Load (lb.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	Swivel Weight (lb.)
A-18	¼	1,800	⅞	2 15⁄32	3 ⅜	15⁄32	5⁄16	5⁄16	19⁄32	⅜
B-40	½	4,000	1 ¼	3 ⅔	4 ½	11⁄25	59⁄100	19⁄50	69⁄100	1
B-75	½	7,500	1 ½	4	5 ⅜	11⁄16	⅝	7⁄16	⅞	1 ¾
C-100	⅝	10,000	1 ⅞	5 7⁄16	7 1⁄16	13⁄16	¾	⅝	15⁄16	4
D-160	¾	16,000	2 ⅛	7 ⅞	10 ⅛	1 ⅛	1	⅞	1 9⁄16	8
D-300	1	30,000	2 ½	8 29⁄32	11 5⁄32	1 ⅛	1	⅞	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.

Connectors/swivels are not designed to be pulled over sheaves or bullwheels.

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 ¼	½	⅜	2 ¾	5⁄16	1 ⅞	¾
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 ⅞	¾	⅝	4 ½	13⁄16	2 ⅞	1 ⅛
L-133	20,000	2	¾	⅝	4 ¾	⅞	3	1 ⅛



*Specifications are subject to change

Dua-Pull® Pulling Grip

- Ideal for 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.

Kellems has incorporated a color-coded system identifying corresponding grips and rope/conductor. The colored sleeves, above the grip collar, represent the rope/conductor diameter range with the grip that is being used, ensuring no mistakes in selection.

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 manufacturer for more information.

Catalog No.	Color Code	Diameter Range (in.)		Max. Working Load (lb.)	Approx. Breaking Strength (lb.)	Eye Diameter (B) (in.)	Eye Length (E) (in.)	Mesh Length at Nominal Dia. (M) (in.)	Dia. Over Cable & Grip Add to Cable or Rope Dia. (in.)	Use with Swivel
		Conductor Dia.	‡ Rope Dia.							
1037	Black	0.19-0.37	0.25-0.65	1,300	6,500	0.218	10	24	0.2	A-18
1038	Green	0.38-0.62	0.50-0.90	2,800	14,000	0.375	12	36	0.28	B-40
1039	Red	0.62-0.87	0.75-1.10	4,000	20,000	0.437	13	48	0.36	B-75
1040	Blue	0.88-1.12	1-1.5	6,120	30,600	0.5	15	60	0.5	C-100
1041	Yellow	1.13-1.37	1.25-1.7	9,350	46,800	0.625	18	76	0.625	D-160
1042	Aluminium	1.38-1.90	1.5-2.1	13,300	66,500	0.750	24	89	0.75	D-300

*Specifications are approximate and subject to change

‡ 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 Dua-Pull grip sizes. The feed tubes are a one-piece assembly made of lightweight aluminium. The nose cone is tapered and the body is a thin-walled tube. A hard coat finish on the feed tube reduces friction of the metal-to-metal contact. Complete installation instructions are shipped with each feed tube.

Feed Tube Model No.	Dua-Pull Grip Model	Rope Diameter (in.)	Feed Tube Length (in.)
1043	1037	0.25-0.65	28
1044	1038	0.5-0.9	40
1045	1039	0.75-1.1	52
1046	1040	1-1.5	67
1047	1041	1.25-1.7	83
1048	1042	1.5-2.1	96

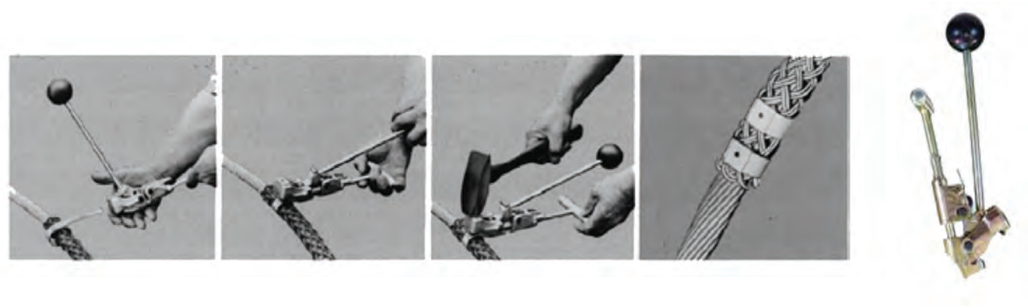
Punch-Lok® Tools and Bands

The Punch-Lok bands are applied over the tail of Dua-Pull grips to prevent the mesh from being stripped or pulled loose. It also 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.

Model No.	Grip Banding Range (in.)	Band Width (in.)	Std. Per Box
311	0.375-1	0.375	100
12	1-3	0.625	50

P-1® Locking Tool

Designed for fast, economical application of the Punch-Lok clamps, the portable P-1 weighs only 2.5 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 ⅜ clamps, is included.



***Specifications are subject to change**

Conductor Hook

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.

Hook No.	Radius (in.)	Max. Conductor (in.)	Support Length (in.)	Hole Diameter (in.)	Lining	Max. Working Load (lb.)
CH-5	1.5	2.5	8	1.0625	Urethane	12,000

Conductor Hook

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

PM-1AG

PTC-24 Pole Top Carrier

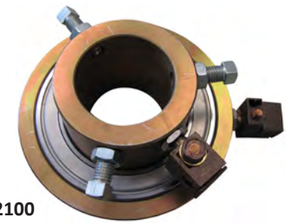
- Designed for supporting an overhead ground or shield wire
- Provides direct ground connection which can eliminate the tap required when using a porcelain insulator
- 24-inch

PTC-24

RDG-2100

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 cable
- Can also be used on bare aluminium conductor
- Fits up to 2 ⅝ inch diameter solid or pipe-type reel shafts



RDG-2100

DG4100 Running Ground

- Designed to accommodate conductors from 0.25 - 1.165 in. diameter
- Open side design enables placing or removing the ground at any point

DG4100 Running Ground

***Specifications are subject to change**

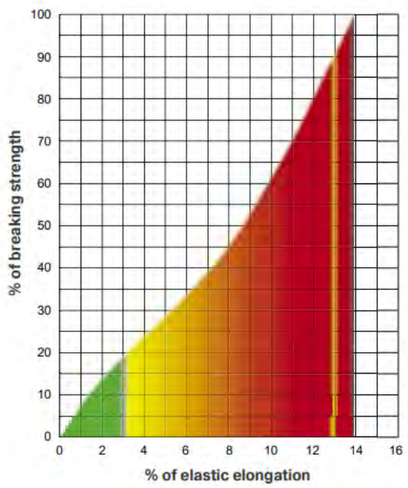
PE-12™ Single Braid Rope

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. PE-12™ comes with the same tough grades of Maxijacket™ urethane used on other 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 undamaged when rigging with swivels.

Diameter (in.)	Weight (lb.)/100 ft.	Average Spliced Break Strength (lb.)	Min. Spliced Break Strength (lb.)*
5/16	2.8	4,050	3,645
3/8	3.9	6,200	5,580
7/16	6.5	10,000	9,000
1/2	8.4	13,940	12,546
9/16	10.2	16,590	14,931
5/8	11.5	19,640	17,676
3/4	15.7	23,250	20,925
7/8	22.9	38,300	34,470
1	27.2	42,900	38,610

*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**
- **Maximum Break Strength**
- **Average Break Strength (Specific gravity: 1.38)**

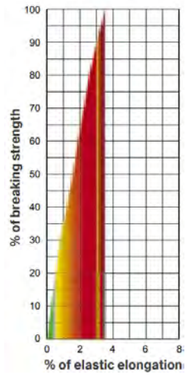
Unitrex™ Parallel-Core Rope

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. The rope's tough rubber layer protects its high-modulus Spectra core, and the outer jacket is saturated with urethane, making it the toughest Spectra rope on the market. 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

Diameter (in.)	Weight (lb.)/100 ft.	Average Spliced Break Strength (lb.)	Min. Spliced Break Strength (lb.)*
0.44	6.7	20,000	18,000
0.53	9.2	26,000	23,400
0.58	11.4	34,000	30,600
0.63	13.5	42,500	38,250
0.71	16.9	50,500	45,450
0.84	24.2	73,500	66,150
1	32.4	100,000	90,000
1.15	42.4	125,000	112,500
1.25	52.5	158,000	142,200
1.4	64.9	195,000	175,500
1.75	92.6	264,000	237,600
1.94	98.8	310,000	279,000
1.99	113.3	360,000	324,000
2.2	144	430,000	387,000

** 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**
- **Maximum Break Strength**
- **Average Break Strength (Specific gravity: 1.1)**

**Specifications are subject to change

Uniline™ Parallel-Core Cable

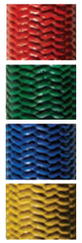
Uniline™ is a parallel-core cable of PET (polyester) filament. The Uniline core is bonded together with a rubber-based adhesive, wrapped with red rubber tape, over-braided with a tough polyester sleeve and entirely saturated with another rubber solution. The cable is then cured in an oven, causing the 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 on the market 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 ½ in. and ⅝ in. diameters and in solid orange, solid black and solid gray.

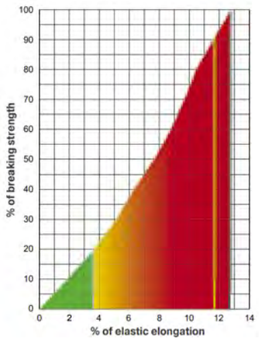
Diameter (in.)	Weight (lb.)/100 ft.	Average Spliced Break Strength (lb.)	Min. Spliced Break Strength (lb.)*
⅜	7	6,000	5,400
½	10	10,500	9,450
⅝	15.6	17,200	15,480
¾	21.7	24,200	21,780
⅞	30.6	32,800	29,520
1	38.7	42,200	37,980
1 ⅛	48.8	53,000	47,700
1 ¼	60.4	64,500	58,050
1 ⅜	73.1	78,000	70,200
1 ½	86.9	92,000	82,800
1 ⅝	102.1	108,000	97,200
1 ¾	118.4	125,000	112,500
1 ⅞	135.6	144,000	129,600
2	155	164,000	147,600

** 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.

Custom Colors

Minimum order required





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

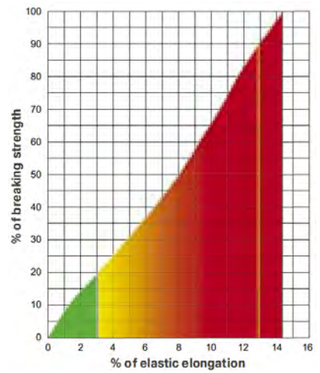
Maximum Working Load
Maximum Break Strength
Average Break Strength (Specific gravity: 1.38)

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.

Diameter (in.)	Weight (lb.)/100 ft.	Average Spliced Break Strength (lb.)	Min. Spliced Break Strength (lb.)*	Maximum Work Load 5:1 (lb.)
¼	2.5	3,300	2,970	660
5⁄16	3.1	5,350	4,815	1,070
⅜	4.1	6,600	5,940	1,320
7⁄16	6.4	11,990	10,791	2,398
½	8.4	15,370	13,833	3,074
9⁄16	10.3	18,860	16,974	3,772
⅝	11.6	20,900	18,810	4,180
¾	15.5	27,000	24,300	5,400
⅞	23	42,100	37,890	8,420
1	32.3	48,950	44,055	9,790
1 ⅛	34.6	61,600	55,440	12,320
1 ¼	38.9	72,050	64,845	14,410
1 5⁄16	46.1	82,200	73,998	16,444
1 ½	59.4	102,850	92,565	20,570
1 ⅝	82.2	123,750	111,375	24,750
1 ¾	93.1	132,000	118,800	26,400
2	115.8	146,520	131,868	29,304

** 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

Maximum Working Load
Maximum Break Strength
Average Break Strength (Specific gravity: 1.38)

***Specifications are subject to change**

Single Braid Inspection

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.

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 surfaces.
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.

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.
Repair:
Re-splice the rope correctly.

Diameter Change

After use, it is normal for a rope to lose some diameter; the repair is dependent on the level of reduction.
Cause:
A diameter change is usually due to the loss of fiber through abrasion over time.
Repair:
If the diameter is reduced by <10%, it is able to remain in service. If the diameter reduction is 11-20%, downgrade the rope. Should the diameter reduction from new to used exceed 20%, retire the rope.
Future Prevention:
It is prudent to replace rope on a calendar schedule based on your original selection criteria.

Abrasion

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 or rough surfaces. While mild abrasion is expected, abrasion that doesn't stabilize after the first few uses might mean strength loss. Inspect for excessive damage on inner and outer fibers. Powdered fiber is a sign of internal wear.
Repair:
There isn't a repair for abrasion, but you should still inspect for it. If the strength loss is minimal, 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; avoid rough surfaces and sharp edges. Keep chocks, bits, winches, drums and other surfaces in good condition and free of burrs and rust. Ensure sheaves are the right size and free to rotate. Use clamps and similar devices with extreme caution.

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.
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.

Cut Strand

When visually inspecting your rope, always look closely for any cut strands. Cut strands will cause some loss of strength, and two or more close together may mean the rope needs to be retired.
Cause:
Cut strands could be caused by abrasion, sharp edges and surfaces or cyclic tension wear.
Repair:
If possible, remove the affected section and resplice 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; avoid rough surfaces and sharp edges. Keep chocks, bits, winches, drums and other surfaces in good condition and free of burrs and rust. Make sure sheaves are the right size and free to rotate. Do not drag the rope over rough ground. Be sure to use clamps and similar devices with extreme caution.

Parallel-Core Inspection

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.

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.
Repair:
To repair a protruding strand on a parallel core rope, cut off excess strand, execute a careful heat seal and whip with twine.

Abraded Spot

Deeper abrasions through the rubber but not into the core

Deeper 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 mild abrasion is expected, abrasion that doesn't stabilize after the first few uses might mean you're losing strength.
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 deep abrasions are present through the rubber but not into the core, 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.
Repair:
To repair a rope with electrical damage, 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.

***Specifications are subject to change**

Wire Rope Inspection

The first step to ensuring the underground twisted wire rope is not damaged is to use the correct connector. Other reasons for rope damage include an excess of bending or abrasion such as pulling the rope over a small radius or sharp edge. The ideal wire rope positioning in conduit is centered and off the sidewalls. To reduce friction, it is recommended to apply a lubricant as needed during the pull. Follow the lubricant manufacturer's guidelines for the quantity of lubricant necessary based on the conduit size and length of the pull.

Prior to and during each use, visually inspect the wire rope for damage or deformation. Affected portions of rope cannot be repaired and should be taken out of service. Deformation will reduce the working load of ropes. Note that failure to repair or replace damaged rope can damage the winch bullwheels, equipment, or injure personnel.

Birdcaging

Birdcaging may occur when a free swiveling connector allows the rope strands to twist apart enough to permanently deform.

Hockling

Hockling may occur when a free swiveling connector allows the rope to untwist and folds back onto itself.

Stretching

Stretching may occur when the rope is pulled beyond its capacity resulting in elongation of the strands. Visually inspect for a visible core and measure if there is any reduction in rope OD.

Crushing

Crushing may occur when the rope is pulled over sharp edges.

Kinks

Kinks may occur when a free swiveling connector is used or the rope is pulled over sharp edges.

Pigtailing/Memory

Pigtailing/memory is spiraling in the rope and may occur when the rope is pulled over a small radius or sharp edge.

Unraveling

Unraveling may occur when a free swiveling connector allows the rope strands to twist apart.

Broken Strands

Broken strands may occur when the rope is overloaded or when some strands are pulled over sharp edges.

***Specifications are subject to change**

Standard 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.

Forever Warranty

The terms and conditions of The FOREVER WARRANTY™ apply to the Sherman+Reilly, Inc. (S+R) products consisting of distribution and transmission single conductor blocks and bundled blocks and accessories (collectively, "Products").

S+R 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. S+R' s sole liability under this Warranty will be, at its sole discretion, either to repair or to replace the Products (or any relevant part(s) thereof) which prove defective. Buyer must inform S+R of any defects in writing and without unreasonable delay. Buyer shall return defective Products subject to warranty, freight pre-paid, to S+R'S address in Chattanooga, Tennessee without unreasonable delay. S+R will investigate the reported defects and take appropriate action following receipt of the Products. Buyer acknowledges that this Warranty does not apply to any defects caused by:

- Improper use of the product
- Failure to perform regular maintenance as specified or to properly store the Products
- Alterations, modifications, repairs or any other work done on or in relation to the Products by anyone but S+R
- An energized condition

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%

***Specifications are subject to change**

Stay in Touch

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