

CITY OF HIGH POINT

AGENDA ITEM



TITLE: Purchase of Wire/Conductor Pullers for Electric Cabling	
FROM: Tyler Berrier, PE – Electric Utilities Director	MEETING DATE: April 1, 2024
PUBLIC HEARING: n/a	ADVERTISED DATE/BY: n/a
ATTACHMENTS: PLW – 200X Specs Pilot Line Winder PT – 3000H Specs Puller Tensioner DDHXA – 7,500 Specs Underground Puller	

PURPOSE: To replace the wire/conductor pulling and tensioner equipment used by the Electric Department.

BACKGROUND: The Electric Department uses 3 different pulling and tensioning rigs to install overhead and underground cabling for various projects. The equipment that the department is currently using is 29 years old and has reached the end of its usable life. This purchase will encompass the following:

- PLW – 200X Pilot Line Winder
- PT – 3000H Puller Tensioner
- DDHXA – 7,500lb Underground Puller

These new pieces of equipment have a greater capacity to pull in multiple phases at one time and will save crew time and money, creating more efficient operations for cable installation.

BUDGET IMPACT: Funds are available in the Electric capital budget to cover this purchase.

RECOMMENDATION/ACTION REQUESTED: City Staff has reviewed the contract submittal and evaluated the information provided. It is the recommendation of the Department that the City Council approve, and the department be given the ability to proceed with an award to WESCO Distribution, Inc. for \$624,600.

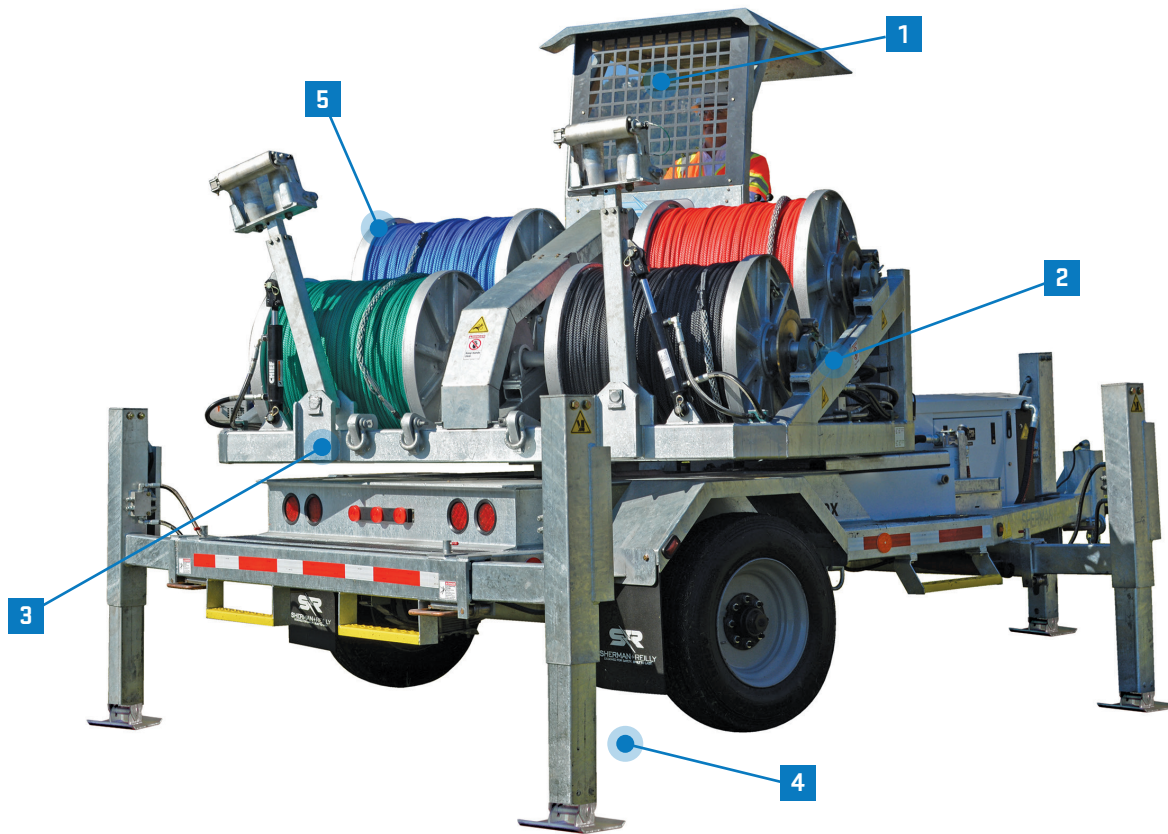




SHERMAN+REILLY®

PLW-200X PILOT LINE WINDER

2,000 LB. FOUR DRUM TURRET PILOT LINE WINDER



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

FEATURES

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

PLW-200X PILOT LINE WINDER

2,000 LB. FOUR DRUM TURRET PILOT LINE WINDER

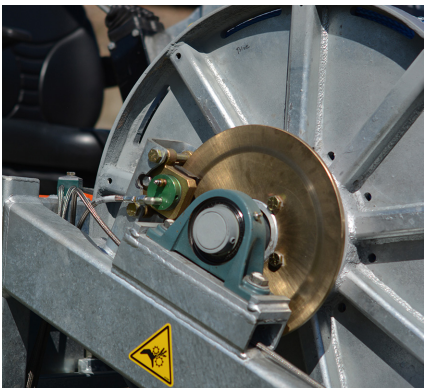
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SPECIFICATIONS

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

OPTIONS

Solar Battery Charger
Galvanized Finish



Braking system with electric over hydraulic activation



Ergonomic operator's station

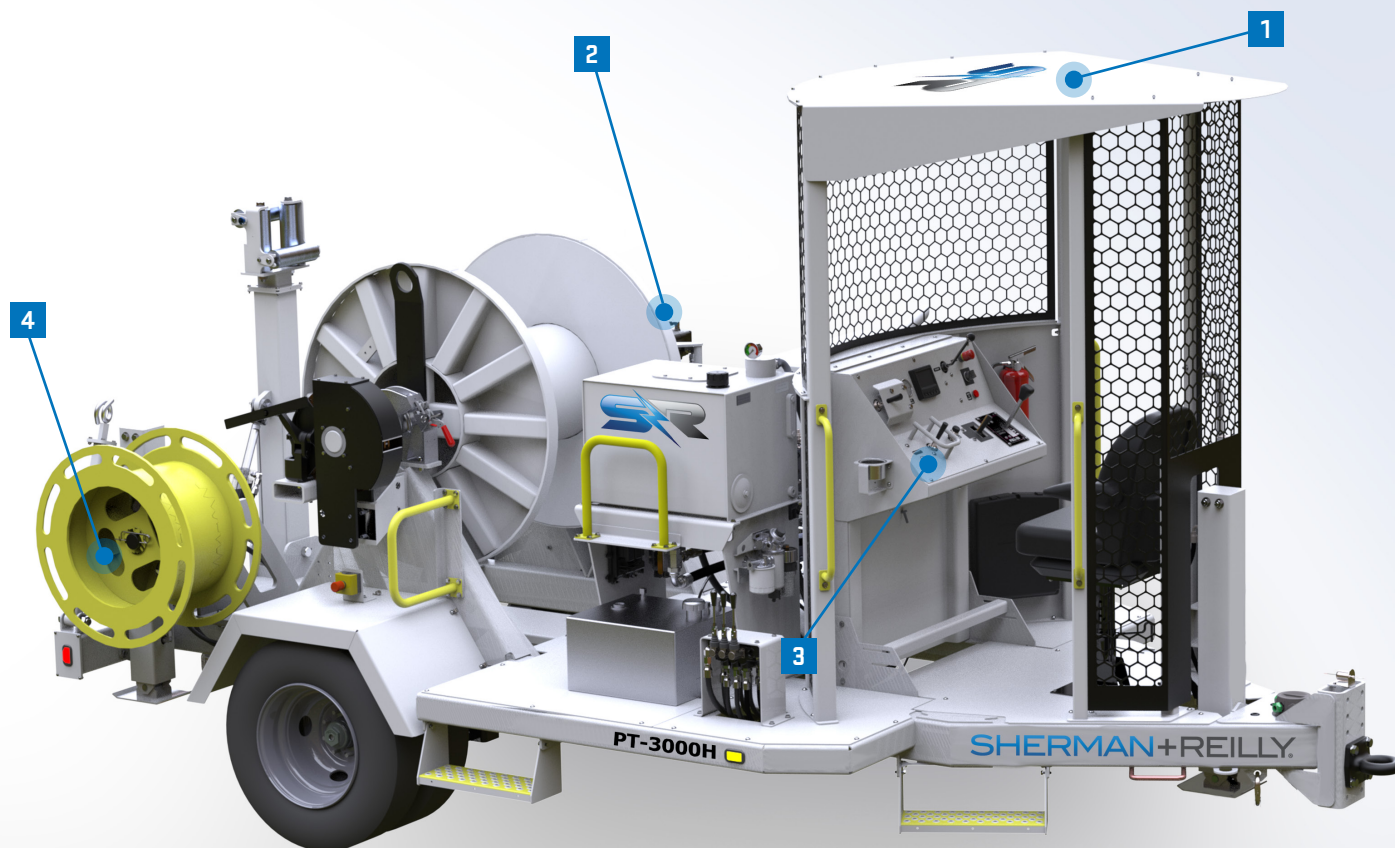


Ergonomic operator's station

*Specifications are subject to change

PT-3000H PULLER TENSIONER

3,000 LBS. SINGLE DRUM PULLER TENSIONER



- 1** Wrap-around SafeSheild™ with Ocu-View Honeycomb pattern.
- 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 lbs. and tensioning 2,000 lbs.
- Underground package capable of pulling 7,500 lbs. (optional).
- Hydraulic low-force tension < 100lbs and manual brake tension < 50lbs.
- Compact footprint with a 16.6 ft. single axle, dual tire configuration
- Multiple options to configure the unit to specific needs.

PT-3000H PULLER TENSIONER

3,000 LBS. SINGLE DRUM PULLER TENSIONER

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SPECIFICATIONS*

Pulling Capacity:	3,100 lbs.
Max. Tensioning Capacity:	2,000 lbs.
Min. Tensioning Capacity	Hydraulic Low force tension under 100lbs or manual pull off tension under 50lbs.
Line Speed:	Pulling: 3 mph, Tensioning 3 mph.
Max. Conductor Reel Size:	66 in. diameter/38 in. width
Max. Conductor Reel Weight:	Dynamic - Over the Road 4,000 lbs. Static - Jacks Extended - 6,000 lbs.
Drum Dimensions:	Core Diameter: 18 in. Total Outside Width: 40 in. Flange Diameter: 46 in.
Drum Capacity:	Standard rope length: 6,000 ft. of 5/8 in. PE-12.
Drive System:	Direct Drive: single hydraulic motor. X-Change™ Coupling System
Drive System Engine:	Turbocharged, Tier-4 Final, diesel, 49 Hp, water-cooled Kubota™
Fuel Capacity:	13 Gallon
Hydraulic Fluid:	ISO Grade 32
Hydraulic Reservoir:	25 Gallon
Hydraulic Fluid Filtration:	10 micron return filters
Levelwind:	Hydraulically driven, Steady-Rest™ controlled
Operator's Enclosure:	Safe-Zone™ Open-Air enclosure
Frame Construction:	Steel tubing, Steel plate, continuous weld
Length: (Overall, Nom.)	199.4 in.
Width: (Overall, Nom.)	102 in.
Height: (Overall, Nom.)	109 in.
Weight*:	6,110 lbs. without rope 8,860 lbs. with drum and rope
GVWR:	11,000 lbs.
Suspension:	Leaf-spring
Axle Configuration:	Single
Wheel Config. & Tires:	Dual 235/85R 16 LRE; 8-6.5
Brakes: (Trailer)	Electric, with break-away switch
Towing Attachment:	3 in. pintle eye, with 2 safety chains & hooks
Tie Downs:	5/8 in. dia. Steel D-Rings (2)
Tie Off Points:	Tie off point at bumper, 3000 lbs. working load limit
Bumper (R/L) Jacks:	Bumper (R/L) Jacks: (2) Manual, Drop and Pin
Tongue Jack:	Tongue Jack: Manual, 2 speed hand crank
Electrical System:	12 VDC
Battery:	12 V 840 CCA, BCI group 27
Lights / Navigation:	US DOT, LED, 12 VDC
Grounding:	3/4 in. dia. Copper-clad Steel ground loops (4)
Wheel Chocks:	Standard

Fire Extinguisher:	ABC
Color:	S+R White
Overhead Drum Core	18 in. / Width 30 in. / Flange 46 in.
Underground Drum Core	12.75 in. / Width 31.75 in. / Flange 24 in.

OPTIONS

Re-Conductoring Reel: RCR-60: Core: 24 in. to 18 in. tapered Total Outside Width: 39 in. (Flange Diameter: 60 in.)
Spider® Pilot Line System with independent levelwind S-75 or S-85 spider reels with 3,000 ft. or 6,000 ft.
Hydraulic Jacks
RDG-2100 Rotating Distribution Ground
DG-4100 Running Ground
Underground Package Levelwind UG Drum Hardline
Premium Rope (Uniline®)
Galvanized
Air Brakes

TRIM LEVELS

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



Heritage Style Ergonomic Control Panel



X-Change™ Coupling System



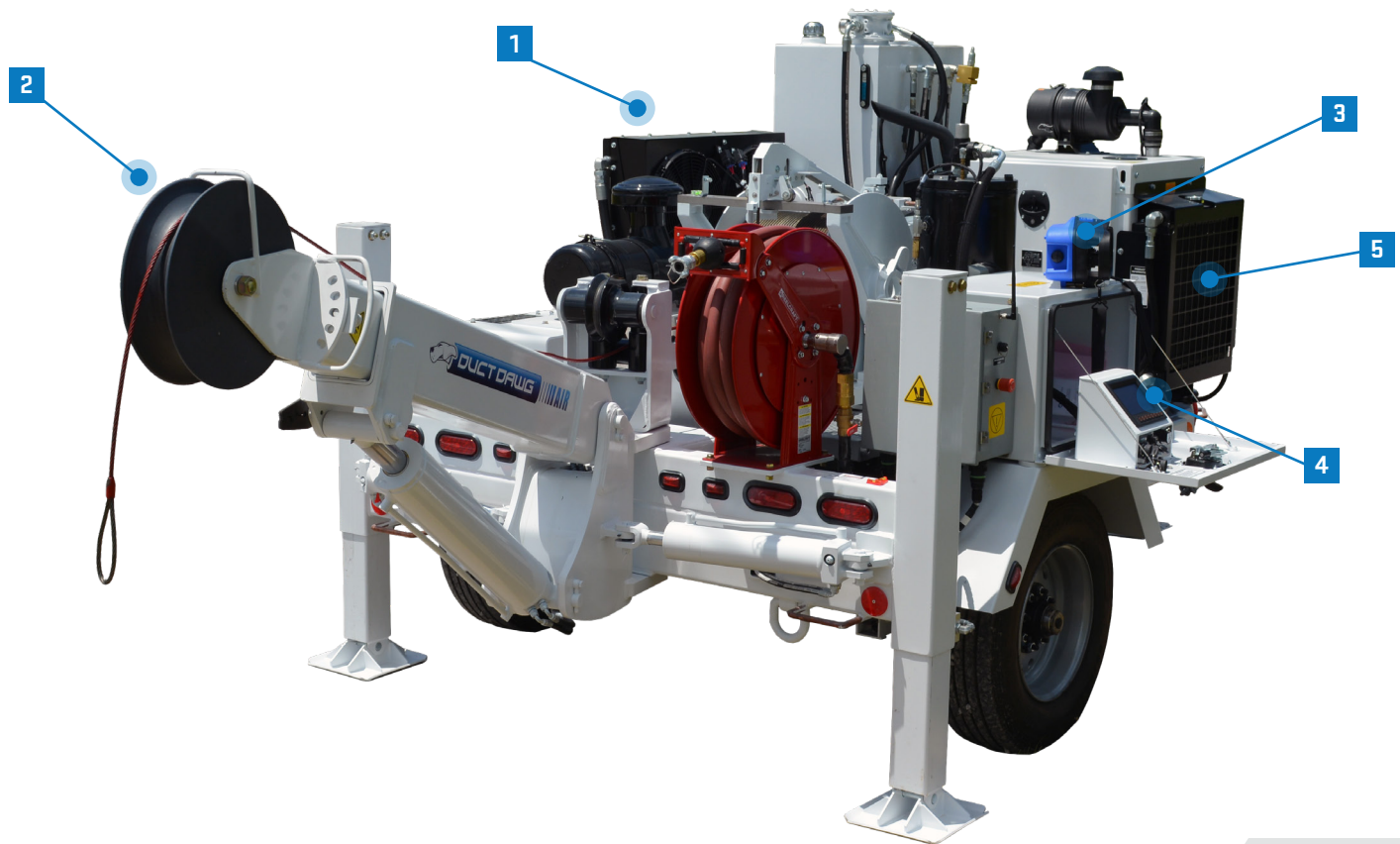
Spider® Pilot Line System with independent levelwind



SHERMAN+REILLY®

DUCT DAWG® AIR UNDERGROUND PULLER

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



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

FEATURES

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

DUCT DAWG® AIR UNDERGROUND PULLER

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

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SPECIFICATIONS

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

OPTIONS

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

Air Adapter Kits
Underground Blocks Available



Duct Dawg remote control

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