CONDUX®

To our knowledge, all products and other information in this catalog are accurate at the time of printing. Condux International reserves the right to change products and other information without prior notice.

Tools shown in this catalog are designed for their intended use and should only be operated by trained craftspeople. Before using any Condux International tool, make certain you have read and understand any safety, operating and maintenance instruction for that tool. Call or write for any additional product information required for operation.

CONDUX

CONDUX INTERNATIONAL, INC.
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CONDUX

BASIC PRINCIPLES

Basic method is, as a rule, to employ pullers, tensioners or puller - tensioners, pulling ropes and blocks, blocks are mounted on the towers, the rope is mounted in the blocks, to the pulling rope is connected the conductor, the puller recovers the pulling rope, while the tensioner controls the tension used to string the conductors.

Why use Condux Stringing Equipment?

FEATURES & BENEFITS

Standard on all equipment

- Completely hydraulically controlled for smooth speed variation. This helps eliminate rope and conductor galloping.
- Negative brake that keeps tension on the line if the machine is shut off.

Pullers

- Integrated dynamometer which manages line tensions
- Low noise emissions
- Ability to use wireless remote control capability
- Built-in reel winder

Tensioners

- Nylon and steel bullwheels which allows the conductor to slip in the groove. The reeving process is always the same regardless of conductor lay.
- High and low tension settings for more control
  - Low tension is for installing OPGW and fiber optics
  - High tension is for installing conductor
- Integrated dynamometer which manages line tension
- Hands free operation - once tension is set the operator does not need to touch the machine until the pull is complete

Puller/Tensioners

- Nylon and steel bullwheels allow the conductor to slip in the groove. The reeving process is always the same regardless of conductor lay.
- High and low tension settings for more control
  - Low tension is for installing OPGW and fiber optic
  - High tension is for installing conductor
- Can tension and pull at the same speed and force
- Integrated dynamometer which manages line tension
- Hands free operation - once the tension is set the operator does not need to touch the machine until the pull is complete.

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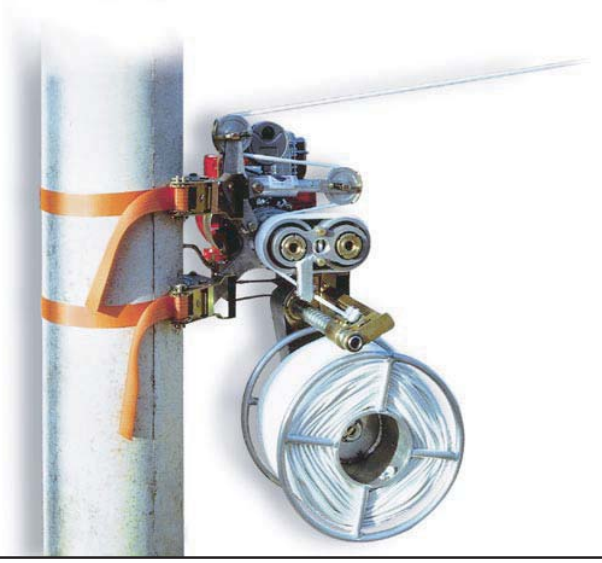
CONDUX

HYDRAULIC PULLERS
Mod. ARS 001 Condux Part # 21001410
Mod. ARS 002 Condux Part # 21001415

The Condux ARS001 has been designed to string low voltage overhead lines. It is manufactured of modular sections to allow for easier transport.



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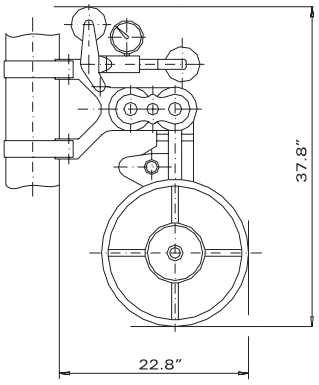

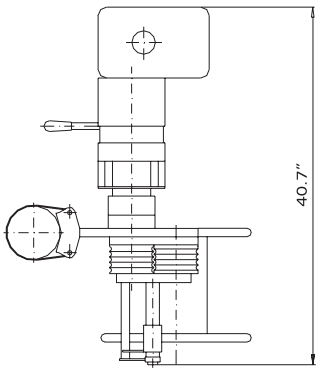

Weight = 176 lbs

PERFORMANCE

Max pull	562 lbs
Continuous pull	450 lbs
Max speed	20 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	4 3/4 in
Max nylon rope diameter	5/16 in

ENGINE

Gasoline	3.5 HP
Cooling system	air
Starting system	by handle

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions.

CONFIGURATION

Mechanical self-acting brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Built-in reel winder with automatic level wind and reel for 1641 ft of Ø 5/16 in rope

OPTIONAL MODEL

21001415

The puller completely isolated is suitable for work in live conditions for 591 ft of Ø 9/16 in polymeric isolated rope. In this version the reel is isolated.

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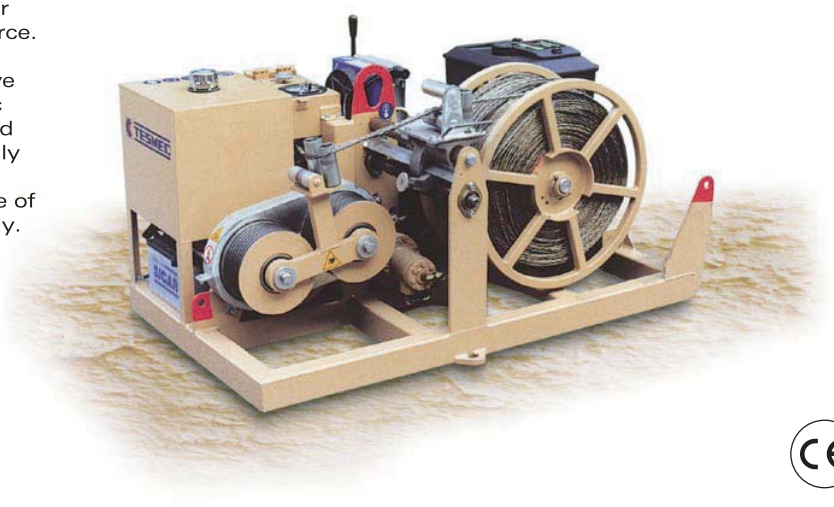
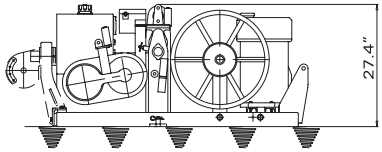
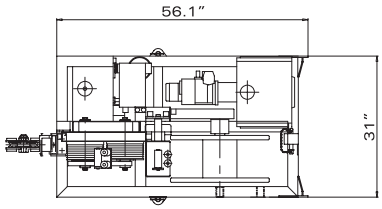
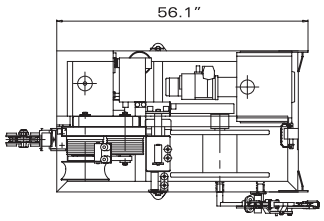
HYDRAULIC PULLER
Mod. ARS 200
Condux Part # 21001420

The Condux ARS200 Hydraulic Puller provides up to 3300 lbs of pulling force. Designed for installing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, air cooling system and built-in reel. The ARS200 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.









Weight = 1102 lbs
(without rope)

PERFORMANCE

Max pull	3300 lbs
Continuous pull	2700 lbs
Speed at continuous pull	0.74 mph
Max speed	2.24 mph
Pull at max speed	900 lbs

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	7 in
Max rope diameter	5/16 in

ENGINE

Gasoline	17 HP
Cooling system	air
Electrical system	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions.

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Built-in reel winder with automatic level wind & special reel for 1641 ft of Ø 5/16 in rope

OPTIONS

21001424	Pulling rope locking device when capstan is used (compulsory for EC market)
21001421	Rigid axle and towing bar detachable, for manual towing
21001422	Capstan (diameter= 9 in equipped with guide rope rollers)
21001423	Cable guide pivot pulley suitable for work in manhole and into ditch

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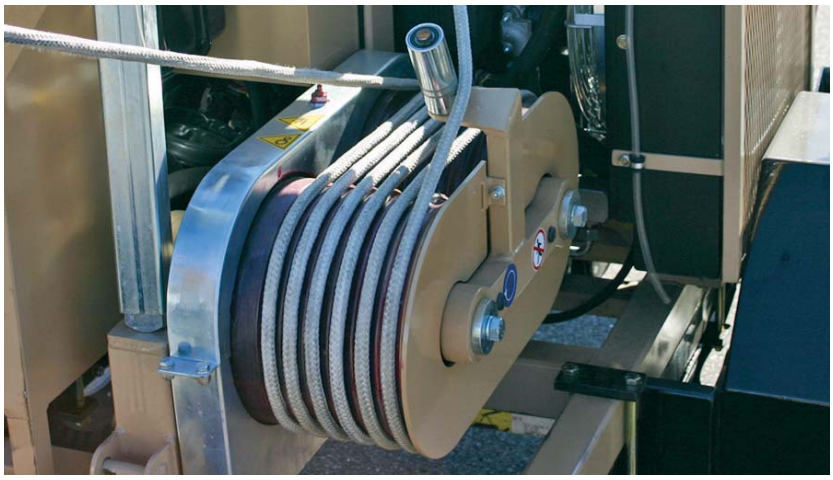
HYDRAULIC PULLER
Mod. ARS 301
Condux Part # 21031525

ARS301 Hydraulic Puller

The Condux ARS301 Hydraulic Puller provides up to 5,600 lbs of pulling force. Designed for stringing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built-in self-loading reel winder and control instruments for hydraulic and diesel engine. The ARS301 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.

CE

Built-in self-loading reel winder.



Bull wheel grooves are manufactured of heat treated steel.

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CONDUX

HYDRAULIC PULLER
Mod. ARS 301
Condux Part # 21031525

General Specifications:

PERFORMANCE

Max pull	5600 lbs
Continuous pull	4496 lbs
Speed at continuous pull	1.05 mph
Max speed	2.17 mph
Pull at max speed	2248 lbs

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	10 in
Max rope diameter	3/8 in

ENGINE

Diesel	33 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for step less speed variation in both rotating directions.

STANDARD EQUIPMENT

- Negative self-acting hydraulic brake
- Hydraulic dynamometer
- Hydraulic oil cooling system
- DOT Approved Trailer with Electric Brakes with Break Away Kit and Torsion Axle
- Control instruments for hydraulic system and Diesel engine
- Rigid axle for towing at max speed of 18.6 mph
- Built-in self-loading reel winder with automatic level wind, suitable for standard reel 21009150 and 21009000
- Mechanical actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021500 PRESET,PULLER-ARS301
21001426 Equipment for electronic firing parameter recorder
21009010 Extra shaft
21001930 Electronic firing parameter recorder

GENERAL SPECIFICATIONS

Net Weight	1800 lbs
Overall Length	86 in
Overall Width	56 in
Height	65 in
Maximum Gross Weight (Dual Axle)	2,000 lbs
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye

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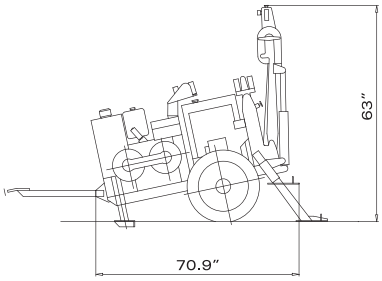
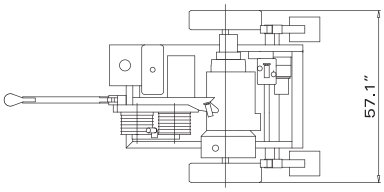
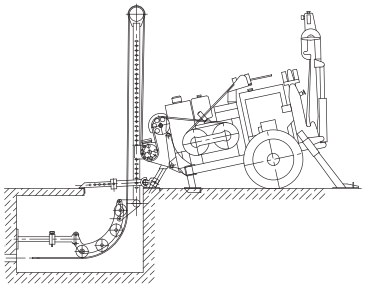
HYDRAULIC PULLER
Mod. ARS 403
Condux Part # 21001436

The Condux ARS403 Hydraulic Puller provides up to 7800 lbs of pulling force. Designed for installing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, self-loading reel winder and control instruments for hydraulic and diesel engine. The ARS403 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.





Weight = 1874 lbs



21001402

PERFORMANCE

Max pull	7800 lbs
Continuous pull	6744 lbs
Speed at continuous pull	0.93 mph
Max speed	2.24 mph
Pull at max speed	2698 lbs

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	13 in
Max rope diameter	1/2 in

ENGINE

Diesel	33 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions.

21001930

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Hydraulic oil cooling system

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph

Built-in self-loading reel winder with automatic level wind, suitable for standard reel 21009150 and 21009000

Mechanical actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021502	PRESET,PULLER-ARS403
21021506	KIT,ELEC RECRDER-ARS403
21001402	Rod with roller device for underground cables
21009010	Extra shaft
21001930	Electronic firing parameter recorder

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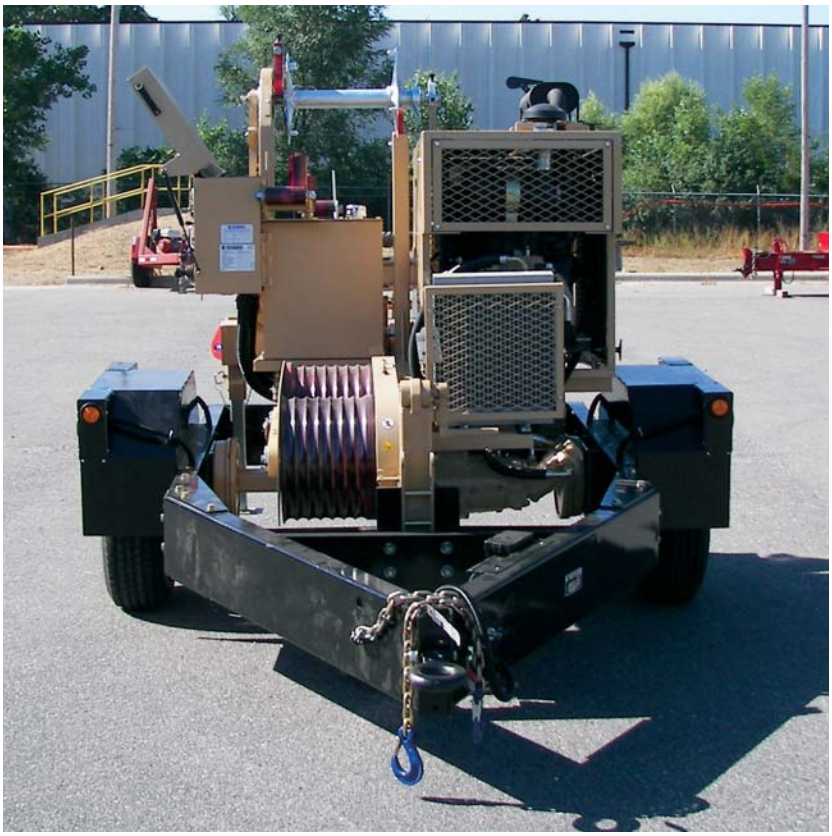
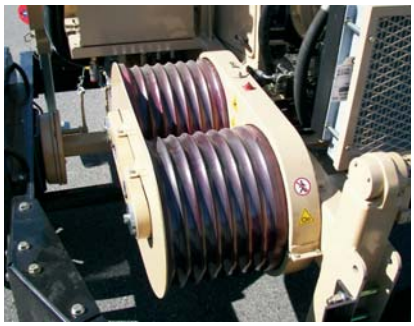
HYDRAULIC PULLER
Mod. ARS 400
Condux Part # 21031900

ARS400 Hydraulic Puller

The Condux ARS400 Hydraulic Puller provides up to 10,000 lbs of pulling force. Designed for stringing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built-in self-loading reel winder and control instruments for hydraulic and diesel engine. The ARS400 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.





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CONDUX

HYDRAULIC PULLER
Mod. ARS 400
Condux Part # 21031900

General Specifications:

PERFORMANCE

Max pull	10000 lbs
Continuous pull	7868 lbs
Speed at continuous pull	1.61 mph
Max speed	3.1 mph
Pull at max speed	3934 lbs

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	15 in
Max rope diameter	5/8 in

ENGINE

Diesel	60 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions. This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

- Negative self-acting hydraulic brake
- Hydraulic dynamometer with setpoint and automatic control of maximum pull
- Hydraulic oil cooling system
- Control instruments for hydraulic system and Diesel engine
- Built-in self-loading reel winder with automatic level wind, suitable for standard reel 21009150 and 21009000
- Mechanical actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021558	KIT,ARCTIC-ARS400
21021516	KIT,CABLE CNTRLARS400
21001441	Equipment for electronic firing parameter recorder
21001812	Equipment for radio control
21001442	Hydraulically actuated pulling rope clamp for reel change operation
21009010	Extra shaft

GENERAL SPECIFICATIONS

Net Weight	4700 lbs
Overall Length	155 in
Overall Width	94 in
Height	76 in
Maximum Gross Weight (Single Axle)	5,000 lbs
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye

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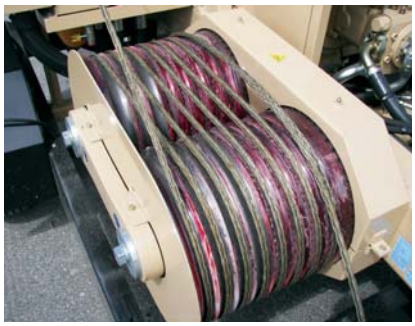
HYDRAULIC PULLER
Mod. ARS 510
Condux Part # 21001495

ARS510 Hydraulic Puller

The Condux ARS510 Hydraulic Puller provides up to 15,000 lbs of pulling force. Designed for stringing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built in selfloading reel winder and control instruments for hydraulic and diesel engine. The ARS510 hydraulic control system helps eliminate conductor galloping, making this one of the safest pullers on the market today.



Bull-wheel grooves are manufactured of heat treated steel.

Built-in self-loading reel winder.

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HYDRAULIC PULLER
Mod. ARS 510
Condux Part # 21001495

General Specifications:

PERFORMANCE

Max Pull	15000 lbs
Speed at Max Pull	1.5 mph
Max Speed	2.5 mph
Pull at Max Speed	7000 lbs

CHARACTERISTIC

Bull-Wheel Diameter	16 in
Max Rope Diameter	3/4 in

ENGINE

Diesel	80 hp
Cooling System	water
Electrical System	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for step less speed variation in both rotating directions. This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

STANDARD EQUIPMENT

- Negative Self-Acting Hydraulic Brake
- Hydraulic Dynamometer
- Hydraulic Oil Cooling System
- DOT Approved Single Axle Trailer with Electric Brakes, Break Away Kit and Torsion Axle
- Control Instruments for Hydraulic System and Diesel Engine Built-In Self-Loading Reel Winder With Automatic level Wind, Suitable for Standard Reel 21009150 and 21009000
- Hydraulically Actuated Front Plow

OPTIONAL EQUIPMENT

21021504	Pull pre-setting system
21021508	Equipment for electronic firing parameter recorder
21001940	Electronic firing parameter recorder

GENERAL SPECIFICATIONS

Net Weight	7890 lbs
Overall Length	140 in
Overall Width	94 in
Height	82 in
Maximum Gross Weight (Single Axle)	8,000 lbs
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye

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HYDRAULIC PULLER
Mod. ARS 500
Condux Part # 21031800

ARS500 Hydraulic Puller

The Condux ARS500 Hydraulic Puller provides up to 18,000 lbs of pulling force. Designed for stringing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built in selfloading reel winder and control instruments for hydraulic and diesel engine. The ARS500 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.

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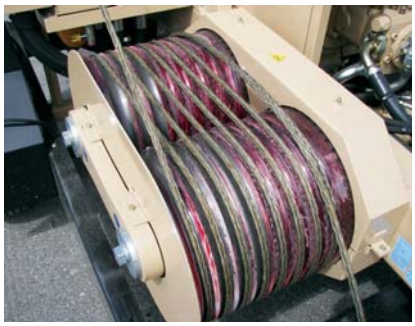

Bull-wheel grooves are manufactured of heat treated steel.

Built-in self-loading reel winder.

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CONDUX

HYDRAULIC PULLER
Mod. ARS 500
Condux Part # 21031800

General Specifications:

PERFORMANCE

Max Pull	18000 lbs
Continuous Pull	15737 lbs
Speed at Continuous Pull	1.36 mph
Max Speed	3.1 mph
Pull at Max Speed	6744 lbs

CHARACTERISTIC

Bull-Wheel Diameter	18 in
Max Rope Diameter	11/16 in

ENGINE

Diesel	119 hp
Cooling System	water
Electrical System	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for step less speed variation in both rotating directions. This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

STANDARD EQUIPMENT

- Negative Self-Acting Hydraulic Brake
- Hydraulic Dynamometer
- Hydraulic Oil Cooling System
- DOT Approved Trailer with Electric Brakes with Break Away Kit and Torsion Axle
- Control Instruments for Hydraulic System and Diesel Engine Built-In Self-Loading Reel Winder With Automatic level Wind, Suitable for Standard Reel 21009150 and 21009000
- Hydraulically Actuated Front Plow

OPTIONAL EQUIPMENT

21021562	KIT,ARCTIC-ARS500
21021518	KIT,CABLE CNTRL-ARS500
21021510	KIT,ELEC RECRDER-ARS500
21021538	KIT,REMOTE CNTRL-ARS500
21001501	Hydraulically actuated pulling rope clamp for reel change operation
21009010	Extra shaft

GENERAL SPECIFICATIONS

Net Weight	7890 lbs
Overall Length	140 in
Overall Width	94 in
Height	82 in
Maximum Gross Weight (Single Axle)	8,000 lbs
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye

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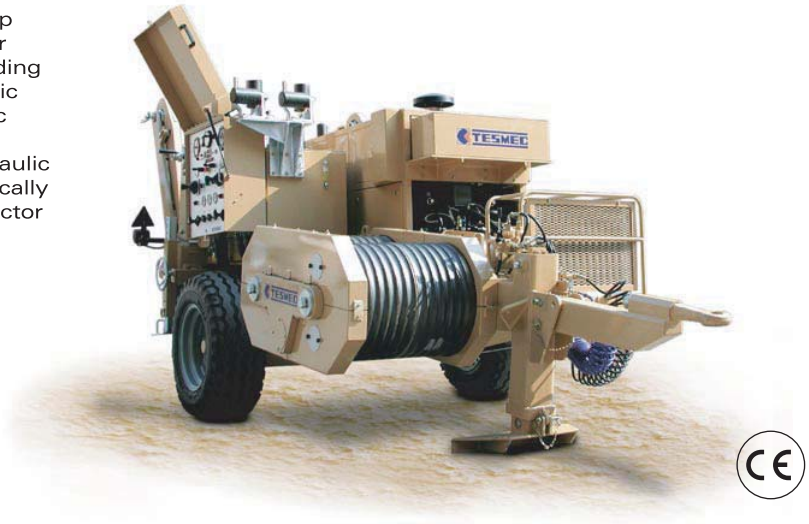
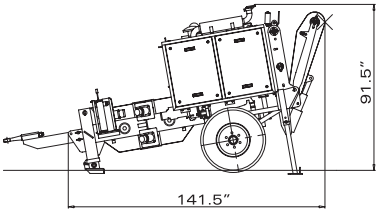
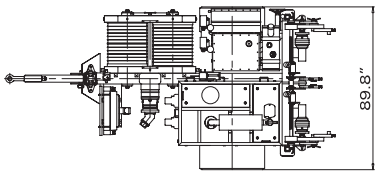
HYDRAULIC PULLER
Mod. ARB 501
Condux Part # 21001445

The ARB501 Hydraulic Puller provides up to 9000 lbs of pulling force. Designed for stringing one or two ropes. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built-in self-loading reel winder and control instruments for hydraulic and diesel engine. The ARB501 hydraulically controlled system helps eliminate conductor galloping, making this on e of the safest pullers on the market today.







Weight = 9921 lbs

PERFORMANCE

Max pull	2 x 9000 lbs
or	1 x 18000 lbs
Continuous pull	2 x 7868 lbs
or	1 x 15737 lbs
Speed at continuous pull	1.36 mph
Max speed	3.1 mph
Pull at max speed	2 x 3372 lbs
or	1 x 6744 lbs

Note: the basic machine performance is calculated at 68°F and at sea level.

CHARACTERISTICS

Bull-wheel diameter	21 in
Max rope diameter	11/16 in

ENGINE

Diesel	110 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

2 closed hydraulic circuits for stepless speed variation in both rotating directions.
This machine is provided with 2 pull pre-setting systems that maintain the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

2 negative self-acting hydraulic brakes

2 hydraulic dynamometers with set-point and automatic control of maximum pull

Hydraulic oil cooling system

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

2 built-in self-loading reel winders with automatic level wind, suitable for standard reel 21009150 and 21009000

Hydraulically actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021564	KIT,ARCTIC-ARB501
21021520	KIT,CABLE CNTRL-ARB501
21021512	KIT,ELEC RECRDER-ARB501
21021540	KIT,REMOTE CNTRL-ARB501
21001446	Hydraulically actuated pulling rope clamp for reel change operation
21009010	Extra shaft

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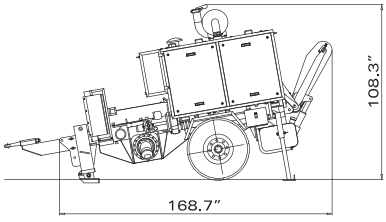
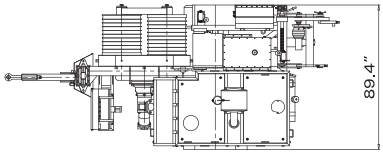
HYDRAULIC PULLER
Mod. ARS 700
Condux Part # 21001460

The ARS700 Hydraulic Puller provides up to 35000 lbs of pulling force. Designed for stringing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built in self-loading reel winder and control instruments for hydraulics and diesel engine. The ARS700 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.





Weight = 12345 lbs

PERFORMANCE

Max pull	35000 lbs
Continuous pull	33721 lbs
Speed at continuous pull	1.6 mph
Max speed	3.1 mph
Pull at max speed	17985 lbs

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	24 in
Max rope diameter	15/16 in

ENGINE

Diesel	280 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions. This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Hydraulic oil cooling system

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Built-in self-loading reel winder with automatic level wind, suitable for standard reel 21009150 and 21009000

Hydraulically actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021572	KIT,HYD PWRPAK-ARS700
21021578	PULLEY,SGL CON GROUNDED CAS800
21021566	DRIVER,FIX WDGE-CVI810
21021522	KIT,CABLE CNTRL-ARS700
21021514	KIT,ELEC RECRDER-ARS700
21021542	KIT,REMOTE CNTRL-ARS700
21001463	Roller device for second pulling rope
21001461	Hydraulically actuated pulling rope lamp for reel change operation
21009010	Extra shaft

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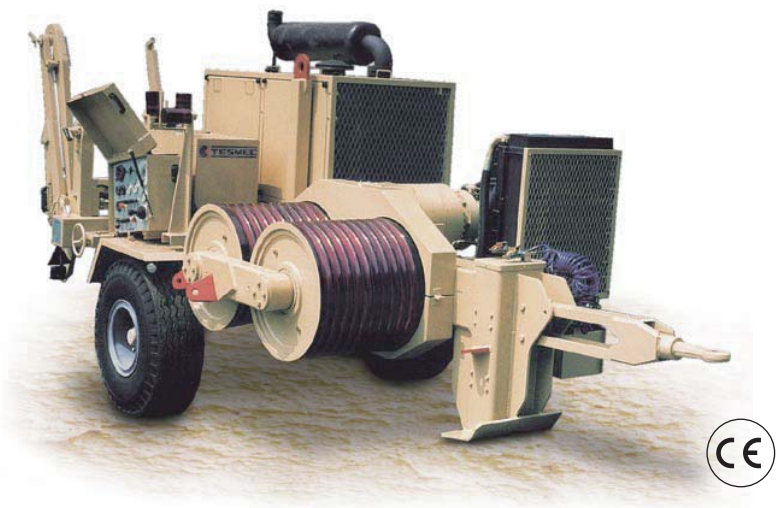
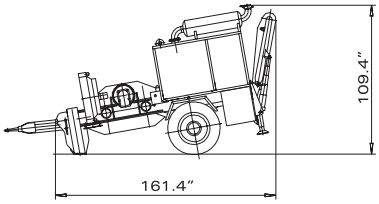
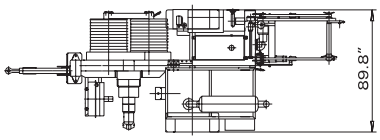
HYDRAULIC PULLER
Mod. ARS 800
Condux Part # 21001510

The ARS800 Hydraulic Puller provides up to 44000 lbs of pulling force. Designed for stringing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built-in self-loading reel winder and control instruments for hydraulics and diesel engine. The ARS800 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.







Weight = 15432 lbs

PERFORMANCE

Max pull	44000 lbs
Continuous pull	40466 lbs
Speed at continuous pull	1.6 mph
Max speed	3.1 mph
Pull at max speed	24055 lbs

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	28 in
Max rope diameter	1/8 in

ENGINE

Diesel	295 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions. This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Hydraulic oil cooling system

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Built-in self-loading reel winder with automatic level wind, suitable for standard reel 21009000 and 21009100

Hydraulically actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021574 KIT,HYD PWRPAK-ARS800

21021580 KIT,HYD QUICKCON-ARS800

21021524 KIT,CABLE CNTRL-ARS800

21021544 KIT,REMOTE CNTRL-ARS800

21001513 Roller device for the second pulling rope

21001511 Hydraulically actuated pulling rope clamp for reel change operation

21009015 Extra shaft

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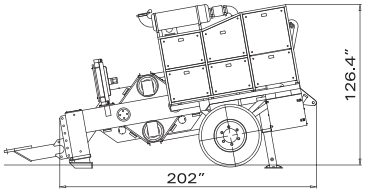
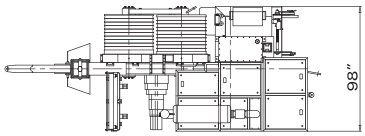
HYDRAULIC PULLER
Mod. ARS 907
Condux Part # 21001470

The ARS907 Hydraulic Puller provides up to 62000 lbs of pulling force. Designed for stringing one rope. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system, built-in self-loading reel winder and control instruments for hydraulics and diesel engine. The ARS907 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest pullers on the market today.





Weight = 26901 lbs

PERFORMANCE

Max pull	62000 lbs
Continuous pull	56202 lbs
Speed at continuous pull	1.5 mph
Max speed	3.1 mph
Pull at max speed	26303 lbs

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	38 in
Max rope diameter	1 1/2 in

ENGINE

Diesel	425.10 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions.
This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Hydraulic oil cooling system

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Built-in self-loading reel winder with automatic level wind, suitable for standard reel 21009000 and 21009100

Hydraulically actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021576	KIT,HYD PWRPAK-ARS907
21021582	KIT,HYD QUICKCON-ARS907
21021526	KIT,CABLE CNTRL-ARS907
21021546	KIT,REMOTE CNTRL-ARS907
21021612	KIT,RLLR-2NDROPE-ARS907
21021614	CLAMP,PULL ROPE-ARS907
21009015	Extra shaft

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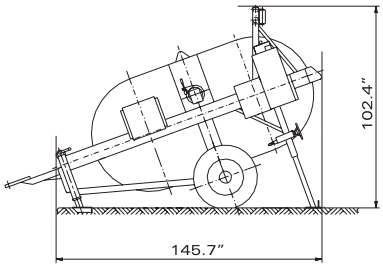
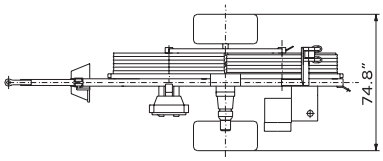
HYDRAULIC TENSIONER
Mod. FRS 301
Condux Part # 21001520

The Condux FRS301 hydraulic Tensioner provides up to 5600 lbs of tensioning force. Designed for stringing one rope, conductor or OPGW line. Industry leading features like Negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRS301 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.





Weight = 4299 lbs

PERFORMANCE

Max tension	5600 lbs
Continuous tension	4496 lbs
Max speed	3.1 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 7/16 in

HYDRAULIC TRANSMISSION

Hydraulic open circuit that provides very sensitive tensioning control and negligible deviations of tension in case of speed change

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer

Hydraulic oil cooling system

Mechanical footage counter

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Gearbox with 3 operating positions:
- neutral position (with free bull-wheels for conductor loading and unloading)
- low tension position (337-1124 lbs)
- nominal tension position

Mechanical actuated front plow stabilizer

OPTIONAL MODEL

21001525

With bull-wheels made up of wear-proof interchangeable nylon sectors suitable to string Elicord cable, max diameter 3 in

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HYDRAULIC TENSIONER
Mod. FRS 403
Condux Part # 21031450

FRS403 Hydraulic Tensioner

The Condux FRS403 Hydraulic Tensioner provides up to 9,000 lbs of tensioning force. Designed for stringing one or two ropes or bundled conductors. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. The FRS403 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.

CE

Interchangeable Nylon Sectors.

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HYDRAULIC TENSIONER
Mod. FRS 403
Condux Part # 21031450

PERFORMANCE

Max tension	9000 lbs
Continuous tension	7868 lbs
Max speed	3.1 mph

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 5/16 in

HYDRAULIC TRANSMISSION

Hydraulic open circuit that provides very sensitive tensioning control and negligible deviations of tension in case of speed change

STANDARD EQUIPMENT

- Negative Self-Acting Hydraulic Brake
- Hydraulic Dynamometer
- Hydraulic Oil Cooling System
- DOT Approved Trailer with Electric Brakes with Break Away Kit and Tandem Torsion Axles
- Gearbox with 3 Operating Positions:
  - Neutral Position (with free bull-wheels for conductor loading and unloading)
  - Low Tension Position (450-1349 lbs)
  - Nominal Tension Position
- Mechanical Actuated Front Plow

OPTIONAL EQUIPMENT

Hydraulic Power Pack to Control Up to 2 Separate Reel Stands with Hydraulic Head

GENERAL SPECIFICATIONS

Net weight	6100 lbs
Overall length	168 in
Overall width	89 in
Height	104 in
Maximum gross weight (dual axle)	10,000 lbs
Brakes	Electric
Electric System	12 V
Towing	Adjustable pintle eye

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HYDRAULIC TENSIONER
Mod. FRS 404
Condux Part # 21031460

FRS404 Hydraulic Tensioner

The Condux FRS404 hydraulic Tensioner provides up to 9000 lbs of tensioning force. Designed for stringing one rope, conductor or OPGW line. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRS404 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.

FRS404 shown with CVI600 Reel Stand

Interchangeable Nylon Sectors.

CVI600 Reel Stand can be operated from the FRS404 Tensioners Control Panel.

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HYDRAULIC TENSIONER
Mod. FRS 404
Condux Part # 21031460

PERFORMANCE

Max tension	9000 lbs
Continuous tension	7868 lbs
Max speed	3.1 mph

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 5/16 in

Note: The basic machine performance is calculated at 68°F and at sea level.

ENGINE

Diesel	30 hp

HYDRAULIC TRANSMISSION

A hydraulic open circuit provides very sensitive tensioning control and negligible deviations of tension in case of speed change.

STANDARD EQUIPMENT

- Negative Self-Acting Hydraulic Brake
- Hydraulic Dynamometer
- Hydraulic Oil Cooling System
- DOT Approved Trailer with Electric Brakes with Break Away Kit and Tandem Torsion Axles
- Gearbox with 3 Operating Positions
  - Neutral Position (with free bull-wheels for conductor loading and unloading)
  - Low Tension Position (450-1349 lbs)
  - Nominal Tension Position
- Mechanical Actuated Front Plow

OPTIONAL EQUIPMENT

Hydraulic Power Pack to Control Up to 2 Separate Reel Stands with Hydraulic Head

21001541 Nylon sectors bull-wheel lining set for using with only 1 conductor, max Ø 1 9/16 in

GENERAL SPECIFICATIONS

Net weight	7977 lbs
Overall length	168 in
Overall width	89 in
Height	104 in
Maximum gross weight (dual axle)	10,000 lbs
Brakes	Electric
Electric System	12 V
Towing	Adjustable pintle eye

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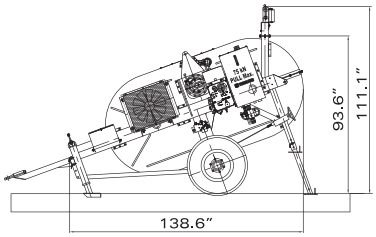
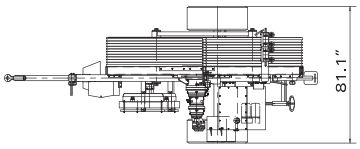
HYDRAULIC TENSIONER
Mod. FRS 506
Condux Part # 21001565

The Condux FRS506 hydraulic Tensioner provides up to 17000 lbs of tensioning force. Designed for stringing one or two ropes or bundled conductors. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRS506 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.





Weight = 6393 lbs

PERFORMANCE

Max tension	17000 lbs
Continuous tension	15737 lbs
Max speed	3.1 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	15/16 in

HYDRAULIC TRANSMISSION

Hydraulic open circuit that provides very sensitive tensioning control and negligible deviations of tension in case of speed change.

21001575

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer

Hydraulic oil cooling system

Mechanical footage counter

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Gearbox with 3 operating positions:
- neutral position (with free bull-wheels for conductor loading and unloading)
- low tension position (1124-4496 lbs)
- nominal tension position

Mechanical actuated front plow stabilizer

OPTIONAL EQUIPMENT

21001566 Nylon sectors bull-wheel lining set for using with only 1 conductor, max Ø 1 9/16 in

OPTIONAL MODEL

21001575

With diesel engine (34 HP) for pulling-back operation with the following performance:

Max pull	17000 lbs
Weight	6834 lbs

Complete with hydraulic power pack to control up to 2 separate reel stand with hydraulic head, not independent control.

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HYDRAULIC TENSIONER
Mod. FRB 501
Condux Part # 21031300

FRB501 Hydraulic Tensioner

The Condux FRB501 hydraulic Tensioner provides up to 16800 lbs of tensioning force. Designed for stringing one or two ropes or bundled conductors with two sets of independently controlled bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRB501 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.

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HYDRAULIC TENSIONER
Mod. FRB 501
Condux Part # 21031300

TENSIONER PERFORMANCE

Max tension	2 x 8430 lbs or 1 x 16800 lbs
Continuous tension	2 x 8430 lbs or 1 x 16800 lbs
Max speed	3.1mph

PULL-BACK PERFORMANCE

Max pull	2 x 8430 lbs or 1 x 16800 lbs
Max speed	2 x 0.2 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	19/16 in

ENGINE

Diesel	33 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

2 hydraulic half-closed circuits that allow very sensitive tensioning control and negligible deviations of tension in case of speed change. The machine is provided with tension pre-setting system.

CONFIGURATION

- 2 negative self-acting hydraulic brakes
- 2 hydraulic dynamometers
- Hydraulic oil cooling system
- 2 mechanical footage counters
- Control instruments for hydraulic system and Diesel engine
- Hydraulically actuated front plow stabilizer
- Hydraulic power pack to control up to 2 separate reel stands with hydraulic head

OPTIONAL EQUIPMENT

21021584	KIT,HYDPWR T/OFRB501
21001586	2 gearboxes with 3 operating positions: - neutral position (with free bull-wheels for conductor loading and unloading) - low tension position (674-2698 lbs) - nominal tension position
21021618	KIT,DUAL CONNECTFRB501

GENERAL SPECIFICATIONS

Net Weight	10,141lbs
Overall Length	198 in
Overall Width	100 in
Height	109 in
Maximum Gross Weight (Dual Axle)	12,000 lbs
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye

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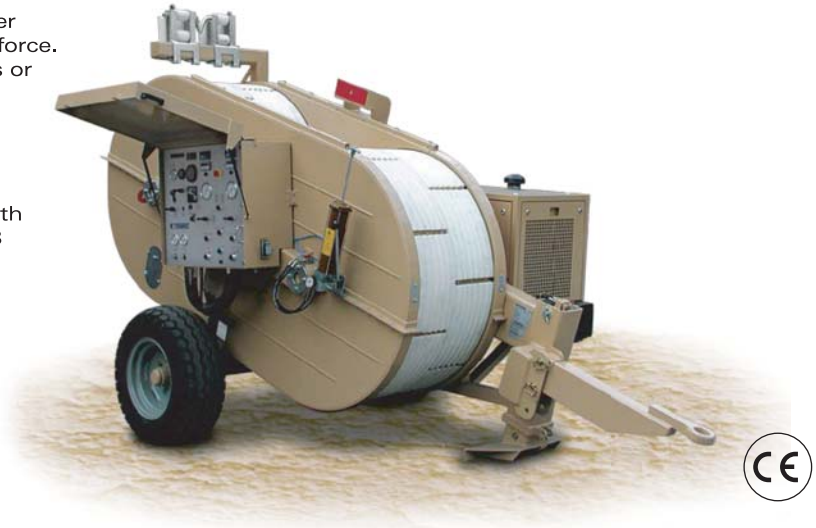
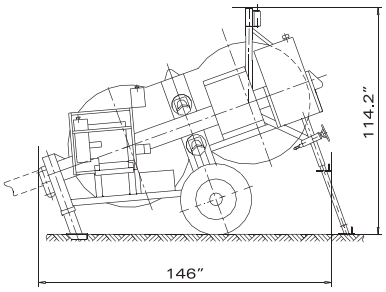
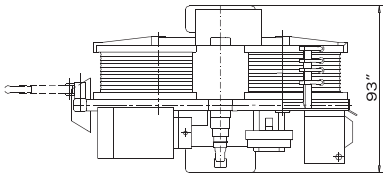
HYDRAULIC TENSIONER
Mod. FRB 518
Condux Part # 21001552

The Condux FRB518 hydraulic Tensioner provides up to 22000 lbs of tensioning force. Designed for stringing one or two ropes or bundled conductors with two sets of independently controlled bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRB518 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.







Weight = 11025 lbs

TENSIONER PERFORMANCE

Max tension	2 x 11000 lbs
or	1 x 22000 lbs
Continuous tension	2 x 9000 lbs
or	1 x 22000 lbs
Max speed	3.1mph

PULL-BACK PERFORMANCE

Max pull	2 x 11000 lbs
or	1 x 22000 lbs
Max speed	2 x 0.2 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 9/16 in

ENGINE

Diesel	45 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

2 hydraulic half-closed circuits that allow very sensitive tensioning control and negligible deviations of tension in case of speed change.
The machine is provided with tension pre-setting system.

CONFIGURATION

2 negative self-acting hydraulic brakes

2 hydraulic dynamometers

Hydraulic oil cooling system

2 digital footage counters

2 digital speed meters

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Hydraulically actuated front plow stabilizer

Hydraulic power pack to control up to 2 separate reel stands with hydraulic head

OPTIONAL EQUIPMENT

21021586 KIT,HYDPWR T/O-FRB518

21021630 GEARBOX,3POS-FRB518:
- neutral position (with free bull-wheels for conductor loading and unloading)
- low tension position (674-2698 lbs)
- nominal tension position

21021620 KIT,DUAL CONNECT-FRB518

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Toll free number 1-800-533-2077 (U.S. & Canada)

ISO 9001:2000 CERTIFIED

HYDRAULIC TENSIONER
Mod. FRT 607
Condux Part # 21001592

FRT607 Hydraulic Tensioner

The Condux FRT607 hydraulic Tensioner provides up to 18000 lbs of tensioning force. Designed for stringing one, two or three ropes or bundled conductors with three sets of independently controlled bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRT607 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.

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HYDRAULIC TENSIONER
Mod. FRT 607
Condux Part # 21001592

TENSIONER PERFORMANCE

Max tension	3 x 8992 lbs or 1 x 18000 lbs + 1 x 8992 lbs
Continuous tension	3 x 7868 lbs or 1 x 15737 lbs + 1 x 7868 lbs
Max speed	3.1 mph

PULL-BACK PERFORMANCE

Max pull	3 x 8992 lbs or 1 x 18000 lbs + 1 x 8992 lbs
Max speed	3 x 0.3 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 9/16 in

ENGINE

Diesel	61 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

3 half-closed hydraulic circuits that allow very sensitive tensioning control and negligible deviations of tension in case of speed change. The machine is provided with tension pre-setting system.

CONFIGURATION

- 3 negative self-acting hydraulic brakes
- 3 hydraulic dynamometers
- Hydraulic oil cooling system
- 3 digital footage counters
- 3 digital speed-meters
- Control instruments for hydraulic system and Diesel engine
- Rigid axle for towing at max speed of 19 mph with mechanical parking brake
- Hydraulically actuated front plow stabilizer
- Hydraulic power pack to control up to 3 separate reel stands with hydraulic head

OPTIONAL EQUIPMENT

21021588	KIT,HYDPWR T/OFRT607
21021622	KIT,DUAL CONNECTFRT607

GENERAL SPECIFICATIONS

Net Weight	21,000 lbs
Overall Length	235 in
Overall Width	102 in
Height	120 in
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye

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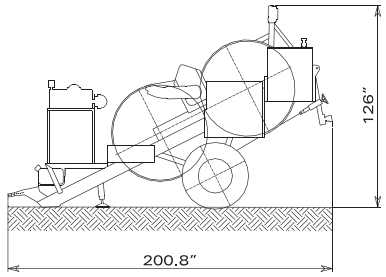
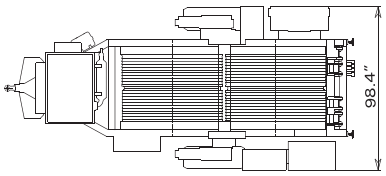
HYDRAULIC TENSIONER
Mod. FRB 600
Condux Part # 21001560

The Condux FRB600 hydraulic Tensioner provides up to 16800 lbs of tensioning force. Designed for stringing one, two, three or four ropes or bundled conductors with two pairs of independently controlled bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRB600 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.





Weight = 16535 lbs

TENSIONER PERFORMANCE

Max tension	2 x 16800 lbs
Continuous tension	2 x 15737 lbs
Max speed	3.1 mph

PULL-BACK PERFORMANCE

Max pull	2 x 16800 lbs
Max speed	0.3 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 1/2 in

ENGINE

Diesel	64 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

2 hydraulic half-closed circuits that allow very sensitive tensioning control and negligible deviations of tension in case of speed change.
The machine is provided with tension pre-setting system.

CONFIGURATION

2 negative self-acting hydraulic brakes

2 hydraulic dynamometers

Hydraulic oil cooling system

2 digital footage counters

2 digital speed-meters

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Hydraulically actuated front plow stabilizer

Hydraulic power pack to control up to 4 separate reel stands with hydraulic head with 2 independent controls

OPTIONAL EQUIPMENT

21021590 KIT,HYDPWR T/O-FRB600

21021568 KIT,ARCTIC-FRB600

21001561 Nylon sectors bull-wheel lining set for using with only 2 conductors max Ø 1 9/16 in

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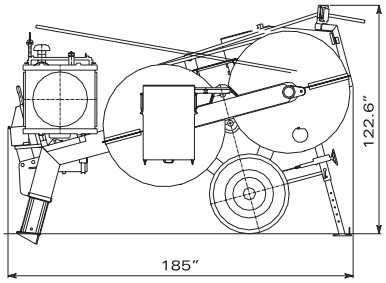
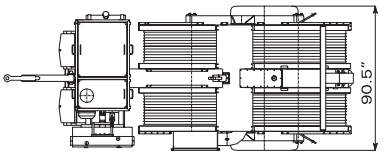
HYDRAULIC TENSIONER
Mod. FRQ 601
Condux Part # 21001590

The Condux FRQ601 hydraulic Tensioner provides up to 16800 lbs of tensioning force. Designed for stringing one, two, three or four ropes or bundled conductors with four pairs of independently controlled bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRQ601 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.





Weight = 22046 lbs

TENSIONER PERFORMANCE

Max tension		4 x 8430 lbs
	or	2 x 16800 lbs
Continuous tension		4 x 7868 lbs
	or	2 x 15737 lbs
Max speed		3.1 mph

PULL-BACK PERFORMANCE

Max pull		4 x 8430 lbs
	or	2 x 16800 lbs
Max speed		4 x 0.2 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 9/16 in

ENGINE

Diesel	64 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

4 half-closed hydraulic circuits that allow very sensitive tensioning control and negligible deviations of tension in case of speed change.
The machine is provided with tension pre-setting system.

CONFIGURATION

4 negative self-acting hydraulic brakes

4 hydraulic dynamometers

Hydraulic oil cooling system

4 digital footage counters

4 digital speed-meters

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Hydraulically actuated front plow stabilizer

Hydraulic power pack to control up to 4 separate reel stands with hydraulic head

OPTIONAL EQUIPMENT

21021592 KIT,HYDPWR T/O-FRQ601

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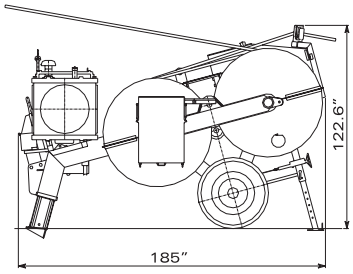
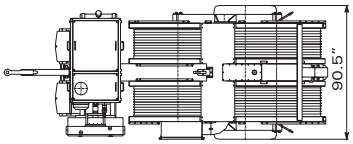
HYDRAULIC TENSIONER
Mod. FRQ 702
Condux Part # 21001595

The Condux FRQ702 hydraulic Tensioner provides up to 20000 lbs of tensioning force. Designed for stringing one, two, three or four ropes or bundled conductors with four pairs of independently controlled bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRQ702 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.





Weight = 23148 lbs

TENSIONER PERFORMANCE

Max tension		4 x 10000 lbs
	or	2 x 20000 lbs
Continuous tension		4 x 8430 lbs
	or	2 x 17000 lbs
Max speed		3.1 mph

PULL-BACK PERFORMANCE

Max pull		4 x 10000 lbs
	or	2 x 20000 lbs
Max speed		4 x 0.6 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 9/16 in

ENGINE

Diesel	110 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

4 half-closed hydraulic circuits that provide very sensitive tensioning control and negligible deviations of tension in case of speed change. The machine is provided with tension pre-setting system.

CONFIGURATION

4 negative self-acting hydraulic brakes

4 hydraulic dynamometers

Hydraulic oil cooling system

4 digital footage counters

4 digital speed-meters

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Hydraulically actuated front plow stabilizer

Hydraulic power pack to control up to 4 separate reel stands with hydraulic head

OPTIONAL EQUIPMENT

21021594 KIT,HYDPWR T/O-FRQ702

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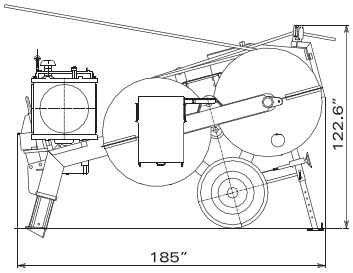
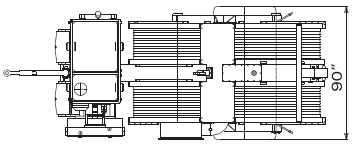
HYDRAULIC TENSIONER
Mod. FRQ 800
Condux Part # 21001567

The Condux FRQ800 hydraulic Tensioner provides up to 22000 lbs of tensioning force. Designed for stringing one, two, three or four ropes or bundled conductors with four pairs of independently controlled bull-wheels. When using a ring system the FRQ800 can recover the pulling rope when stringing a line with three bundled conductors. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. FRQ800 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.





Weight = 25152 lbs

TENSIONER PERFORMANCE

Max tension		4 x 11240 lbs
	or	2 x 22000 lbs
Continuous tension		4 x 10116 lbs
	or	2 x 20233 lbs
Max speed		3.1 mph

PULL-BACK PERFORMANCE

Max pull		4 x 11240 lbs
	or	2 x 22000 lbs
Max speed		4 x 0.50 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	19/16 in

ENGINE

Diesel	110 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

4 half-closed hydraulic circuits that provide very sensitive tensioning control and negligible deviations of tension in case of speed change. The machine is provided with tension pre-setting system.

CONFIGURATION

4 negative self-acting hydraulic brakes

4 hydraulic dynamometers

Hydraulic oil cooling system

4 digital footage counters

4 digital speed-meters

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Hydraulically actuated front plow stabilizer

Hydraulic power pack to control up to 4 separate reel stands with hydraulic head

OPTIONAL EQUIPMENT

21021596	KIT,HYDPWR T/O-FRQ800

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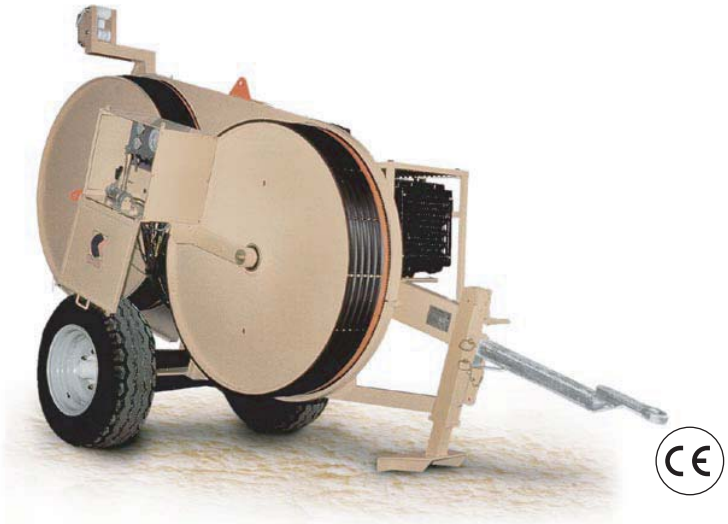
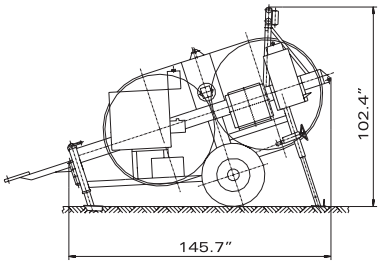
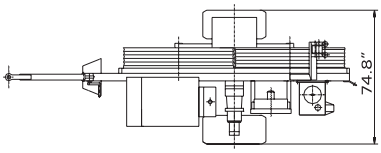
HYDRAULIC PULLER-TENSIONER
Mod. AFS 301
Condux Part # 21001110

The AFS301 Hydraulic Puller/Tensioner provides up to 5600 lbs of pulling force and tensioning force. Designed for stringing one rope or conductor. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. AFS301 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest puller/tensioners on the market today.







Weight = 5071 lbs

PULLER PERFORMANCE

Max pull	5600 lbs
Continuous pull	4496 lbs
Speed at continuous pull	1.05 mph
Max speed	3.1 mph
Pull at max speed	1798 lbs

TENSIONER PERFORMANCE

Max tension	5620 lbs
Continuous tension	4496 lbs
Max speed	3.1 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	17/16 in
Max rope diameter	3/8 in

ENGINE

Diesel	33 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions. This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Hydraulic oil cooling system

Mechanical footage counter

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Gearbox with 3 operating positions:
- neutral position (with free bull-wheels for conductor loading and unloading)
- low tension position (337 lbs)
- nominal tension position

Hydraulic power pack to control 1 reel stand with hydraulic head or 1 reel winder

Mechanical actuated front plow stabilizer

OPTIONAL EQUIPMENT

21021598	KIT,HYDPWR T/O-AFS301
21001112	Equipment for electronic firing parameter recorder

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HYDRAULIC PULLER-TENSIONER
Mod. AFS 404
Condux Part # 21031400

AFS404 Hydraulic Tensioner

The Condux AFS404 Hydraulic Puller/Tensioner provides up to 10,000 lbs of pulling and tensioning force. Designed for stringing one or two ropes or bundled conductors. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, hydraulic cooling system and 3-position gearbox. The AFS404 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest tensioners on the market today.

Interchangeable Nylon Sectors.

CVI600 Reel Stand can be operated from the AFS404 Puller/Tensioners Control Panel.

AFS404 shown with CVI600 Reel Stand.

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HYDRAULIC PULLER-TENSIONER
Mod. AFS 404
Condux Part # 21031400

General Specifications:

PULLER PERFORMANCE

Max Pull	10000 lbs
Continuous Pull	7868 lbs
Max Speed	3.1 mph

TENSIONER PERFORMANCE

Max Pull	10000 lbs
Continuous Pull	7868 lbs
Max Speed	3.1 mph

CHARACTERISTIC

Bull-Wheel Diameter	60 in
Max Conductor Diameter	2.35 in

ENGINE

Diesel	84 hp

HYDRAULIC TRANSMISSION

Closed hydraulic system that allows stepless speed variation in both directions.

STANDARD EQUIPMENT

- Negative Self-Acting Hydraulic Brake
- Hydraulic Dynamometer
- Hydraulic Oil Cooling System
- DOT Approved Trailer with Electric Brakes with Break Away Kit and Tandem Torsion Axles
- Gearbox with 3 Operating Positions Neutral Position (with free bull-wheels for conductor loading and unloading)

  Low Tension Position (225-1574 lbs)

  Nominal Tension Position (1400-1900 lbs)
- Mechanical Actuated Front Plow

OPTIONAL EQUIPMENT

21021600	KIT,HYDPWR T/O-AFS404 power a hydraulic press
21021570	KIT,ARCTIC-AFS404
21021528	KIT,CABLE CNTRL-AFS404
21001142	Equipment for electronic firing parameter recorder
21021548	KIT,REMOTE CNTRL-AFS404
21021616	CLAMP,PULL ROPE-ARS404
21021628	KIT,NYLON SECTOR-AFS404

GENERAL SPECIFICATIONS

Net Weight	8600 lbs
Overall Length	174 in
Overall Width	92 in
Height	91 in
Maximum Gross Weight (Dual Axle)	10,000 lbs
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye

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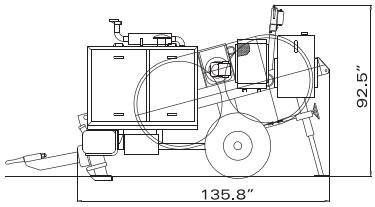
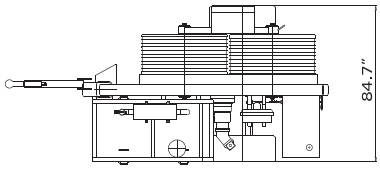
HYDRAULIC PULLER-TENSIONER
Mod. AFS 507
Condux Part # 21001180

The AFS507 Hydraulic Puller/Tensioner provides up to 20000 lbs of pulling force and tensioning force. Designed for stringing one or two ropes or bundled conductors. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. AFS507 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest puller/tensioners on the market today.





Weight = 10143 lbs

PULLER PERFORMANCE

Max pull	20000 lbs
Continuous pull	17000 lbs
Speed at continuous pull	1.24 mph
Max speed	3.1 mph
Pull at max speed	6744 lbs

TENSIONER PERFORMANCE

Max tension	20000 lbs
Continuous tension	17000 lbs
Max speed	3.1 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	1 9/16 in
Max rope diameter	11/16 in

ENGINE

Diesel	110 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions. This machine is provided with a pull pre-setting system that maintains the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

Negative self-acting hydraulic brake

Hydraulic dynamometer with set-point and automatic control of maximum pull

Hydraulic oil cooling system

Mechanical footage counter

Control instruments for hydraulics system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Hydraulically actuated front plow stabilizer

Hydraulic power pack to control up to 2 reel stands with hydraulic head or 2 reel winders

OPTIONAL EQUIPMENT

21021604	KIT,HYDPWR T/O-AFS507
21021530	KIT,CABLE CNTRL-AFS507
21021550	KIT,REMOTE CNTRL-AFS507
21021632	GEARBOX,3POS-AFS507 positions: - neutral position (with free bull-wheels for conductor loading and unloading) - low tension position (1349-4946 lbs) - nominal tension position

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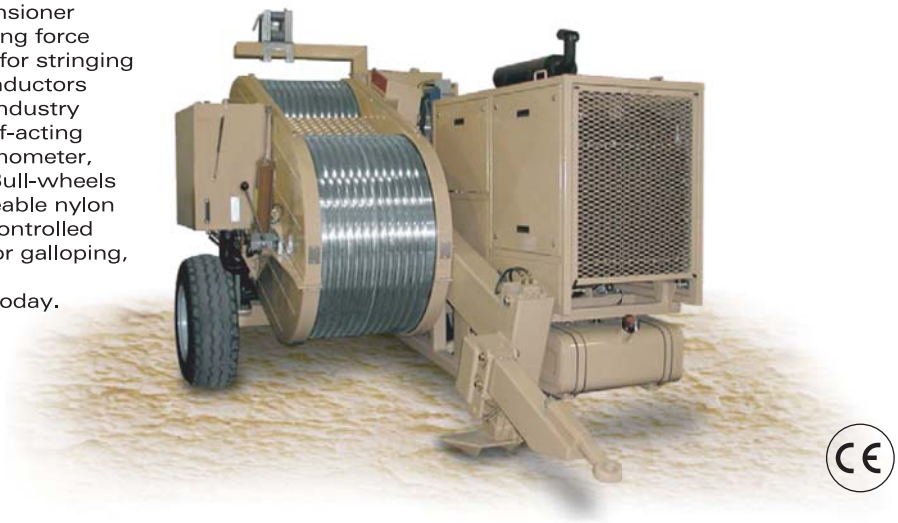
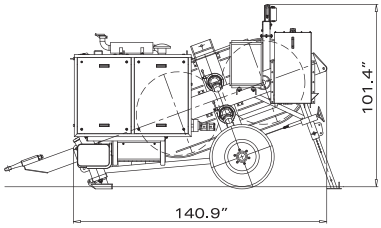
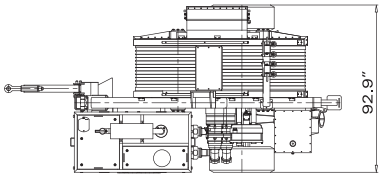
HYDRAULIC PULLER-TENSIONER
Mod. AFB 501
Condux Part # 21001160

The AFB501 Hydraulic Puller/Tensioner provides up to 20000 lbs of pulling force and tensioning force. Designed for stringing one or two ropes or bundled conductors with two pairs of bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. AFB501 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest puller/tensioners on the market today.







Weight = 12128 lbs

PULLER PERFORMANCE

Max pull		2 x 10000 lbs
	or	1 x 20000 lbs
Continuous pull		2 x 8430 lbs
	or	1 x 17000 lbs
Speed at continuous pull		1.55 mph
Max speed		3.1 mph
Pull at max speed		2 x 3372 lbs
	or	1 x 6744 lbs

TENSIONER PERFORMANCE

Max tension		2 x 10000 lbs
	or	1 x 20000 lbs
Continuous tension		2 x 8430 lbs
	or	1 x 17000 lbs
Max speed		3.1 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	48 in
Max conductor diameter	1 5/16 in
Max rope diameter	11/16 in

ENGINE

Diesel	119 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

2 closed hydraulic circuits for stepless speed variation in both rotating directions. This machine is provided with 2 pull pre-setting systems that maintain the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

2 negative self-acting hydraulic brakes

2 hydraulic dynamometers with set-point and automatic control of maximum pull

Hydraulic oil cooling system

2 mechanical footage counters

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 19 mph with mechanical parking brake

Hydraulically actuated front plow stabilizer

Hydraulic power pack to control up to 2 reel stands with hydraulic head or 2 reel winders with independent controls

OPTIONAL EQUIPMENT

21021606	KIT,HYDPWR T/O-AFB501
21021532	KIT,CABLE CNTRL-AFB501
21001162	Equipment for electronic firing parameter recorder (for one rope or conductor)
21021552	KIT,REMOTE CNTRL-AFB501
21001164	2 gearboxes with 3 operating positions: - neutral position (with free bull-wheels for conductor loading and unloading) - low tension position (674-3174 lbs) - nominal tension position
21001163	Synchronizing mechanism

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HYDRAULIC PULLER-TENSIONER
Mod. AFB 506
Condux Part # 21031650

AFB506 Hydraulic Puller-Tensioner

The AFB506 Hydraulic Puller/ Tensioner provides up to 20000 lbs of pulling force and tensioning force. Designed for stringing one or two ropes or bundled conductors with two pairs of completely independent bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. AFB506 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest puller/tensioners on the market today.

Interchangeable Nylon Sectors.

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HYDRAULIC PULLER-TENSIONER
Mod. AFB 506
Condux Part # 21031650

PULLER PERFORMANCE

Max pull	2 x 10116 lbs or 1 x 20000 lbs
Continuous pull	2 x 8430 lbs or 1 x 16861 lbs
Speed at continuous pull	1.55 mph
Max speed	3.1 mph
Pull at max speed	2 x 3372 lbs or 1 x 6744 lbs

TENSIONER PERFORMANCE

Max tension	2 x 10116 lbs or 1 x 20000 lbs
Continuous tension	2 x 8430 lbs or 1 x 16861 lbs
Max speed	3.1 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	60 in
Max conductor diameter	15/16 in
Max rope diameter	11/16 in

ENGINE

Diesel	120 HP
Cooling system	water
Electrical system	12 V

HYDRAULIC TRANSMISSION

2 closed hydraulic circuits for stepless speed variation in both rotating directions. This machine is provided with 2 pull pre-setting systems that maintain the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line

CONFIGURATION

- 2 negative self-acting hydraulic brakes
- 2 hydraulic dynamometers with set-point and automatic control of maximum pull
- Hydraulic oil cooling system
- 2 digital footage counters
- Control instruments for hydraulic system and Diesel engine
- Rigid axle for towing at max speed of 19 mph with mechanical parking brake
- Hydraulically actuated front plow stabilizer
- Hydraulic power pack to control up to 2 reel stands with hydraulic head or 2 reel winders with independent controls

OPTIONAL EQUIPMENT

21021608	KIT,HYDPWR T/O AFB506
21021534	KIT,CABLE CNTRL AFB506
21001125	Equipment for electronic firing parameter recorder (for one rope or conductor)
21021554	ROPE,TIRFIR 11.5MMX40M
21021634	GEARBOX,3POS-AFB506 positions: - neutral position (with free bull-wheels for conductor loading and unloading) - low tension position (674-3147 lbs) - nominal tension position
21021636	MECHANISM,SYNC AFB506

GENERAL SPECIFICATIONS

Net Weight	16,600 lbs
Overall Length	213 in
Overall Width	102 in
Height	113 in
Brakes	Electric
Electric System	12 Volt
Towing	Adjustable Pintle Eye
Maximum Gross Weight (Dual Axle)	12,000 lbs

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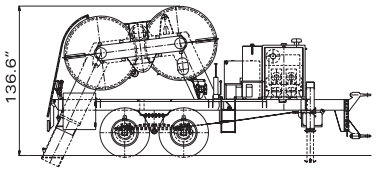
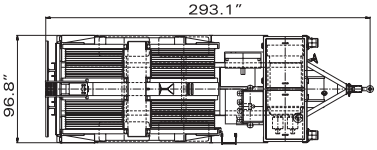
HYDRAULIC PULLER-TENSIONER
Mod. AFQ 800
Condux Part # 21001000

The AFQ800 Hydraulic Puller/Tensioner is designed for stringing one, two, three or four ropes or bundled conductors with four pairs of completely independent bull-wheels. Industry leading features like negative self-acting hydraulic brake, hydraulic dynamometer, and hydraulic cooling system. Bull-wheels come standard with interchangeable nylon sectors. AFQ800 hydraulically controlled system helps eliminate conductor galloping, making this one of the safest puller/tensioners on the market today.





Weight = 38588 lbs

PULLER PERFORMANCE

Max pull	4 x 10791 lbs
or	3 x 14000 lbs
Continuous pull	4 x 8430 lbs
or	3 x 11240 lbs
Speed at continuous pull	1.24 mph
Max speed	3.1 mph
Pull at max speed	4 x 3372 lbs
or	3 x 4496 lbs

TENSIONER PERFORMANCE

Max tension	4 x 10791 lbs
or	3 x 14000 lbs
Continuous tension	4 x 8430 lbs
or	3 x 11240 lbs
Max speed	3.1 mph

Note: the basic machine performance is calculated at 68°F and at sea level

CHARACTERISTICS

Bull-wheel diameter	62 in
Max conductor diameter	1 12/16 in
Max rope diameter	11/16 in

ENGINE

Diesel	280 HP
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

4 closed hydraulic circuits for stepless speed variation in both rotating directions. This machine is provided with 4 pull pre-setting systems that maintain the pre-set pulling value (also when the speed is reduced to "0") by automatically adjusting the operation speed according to the friction and unexpected loads which may develop along the line.

CONFIGURATION

4 negative self-acting hydraulic brakes

4 hydraulic dynamometers with set-point and automatic control of maximum pull

Hydraulic oil cooling system

4 digital footage counters

Control instruments for hydraulic system and Diesel engine

Double axles bogie for towing at max speed of 19 mph with mechanical parking brake

Hydraulic brake system for the trailer

Lighting system for the trailer

Hydraulically actuated front plow stabilizer

2 hydraulically actuated real stabilizers

Hydraulic power pack to control up to 4 reel stands with hydraulic head or 4 reel winders with independent controls

4 hydraulically actuated pulling rope clamps

Triple synchronizing electronic device

OPTIONAL EQUIPMENT

21021610	KIT,HYDPWR T/O- AFQ800 a hydraulic press
21021536	KIT,CABLE CNTRL-AFQ800
21021556	KIT,REMOTE CNTRL-AFQ800

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CABLE REMOTE CONTROL
Mod. AXC

The cable control device allows wireless remote operation of machine controls listed below:

- Setting the pull/tension limit values
- Control of the bull wheel direction and speed
- Control of engine speed
- Stop all machine systems

TECHNICAL CHARACTERISTICS

These devices will operate machines up to a maximum distance of 49 feet.

Engineered plastic, anti-shock case grade IP65.

APPLICABILITY

All Condux Pullers and Puller-Tensioners with capacity equal or over 9000 lbs (Hydraulic pumps with electronic cards required)

DIMENSIONS

23 x 6 x 11 in

WEIGHT

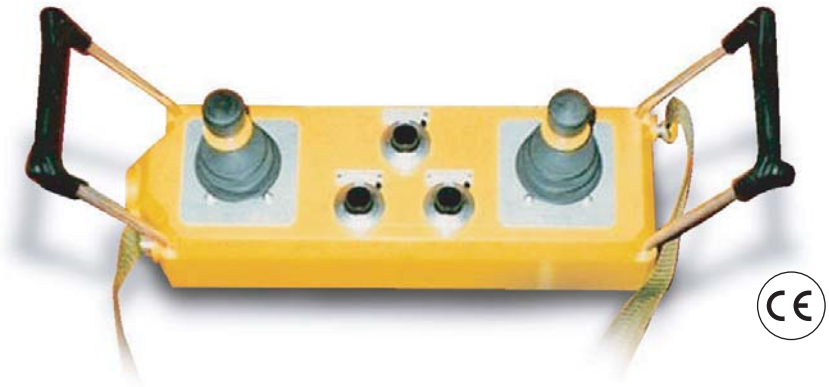
10 lbs

SINGLE CABLE CONTROL DEVICE 21001900

21001900

This is a single cable control with the following devices:

- Potentiometer for the pull regulation;
- Electric joy-stick to control the bull wheels rotation;
- Electric joy-stick to control the Diesel engine rpm;
- Emergency stop button



DOUBLE CABLE CONTROL DEVICE 21001905

21001905

This is a twin cable control device with the following devices:

- 2 potentiometers for the pull regulation
- 2 electric joy-sticks to control the bull wheels rotation
- Electric joy-stick to control the Diesel engine rpm
- Emergency stop button
- Selector for the use as single/twin

Available also for three and four independent hydraulic circuits machines

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RADIO REMOTE CONTROL
Mod. AXH

The cable control device allows wireless remote operation of machine controls listed below:

- Setting the pull/tension limit values
- Control of the bull wheel direction and speed
- Control of engine speed
- Stop of all machine systems

TECHNICAL CHARACTERISTICS

These devices will operate machines up to a maximum distance of 500 feet.

Engineered plastic, anti-shock case grade IP65.

APPLICABILITY

All Condux Pullers and Puller-Tensioners with capacity equal or over 9000 lbs (Hydraulic pumps with electronic cards required)

DIMENSIONS

9 x 6 x 6 in

WEIGHT

5 lbs

RADIO CONTROL SINGLE 21001910

21001910

Single radio control without display and with the following devices:

- Potentiometer for the pull regulation;
- Electric joy-stick to control the bull wheels rotation;
- Electric joy-stick to control the Diesel engine rpm;
- Emergency stop button

21001920

Same as **21001910** with display to visualize pull, stringing speed and strung footage value

RADIO CONTROL DOUBLE WITH DISPLAY 21001915

21001915

This is a twin radio control without display and with the following devices:

- 2 Potentiometers for the pull regulation;
- 2 Electric joy-sticks to control the bull wheels rotation;
- Electric joy-stick to control the Diesel engine rpm;
- Emergency stop button;
- Selector for the use as single/twin

21001925

Same as **21001915** with display to visualize 2 pull values and strung footage values

** Available also for three and four independent hydraulic circuits machines

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ELECTRONIC PULL AND SPEED RECORDING
Mod. DLR

Electronic recorders 21001940 (connected to the machine by cable) and 21001935 (connected to the machine by radio modem), are electronic devices that allow the monitoring of stringing operations by collecting characteristics data:

- Applied pull, with the exceeding control of a limit value;
- Stringing speed;
- Stringing length.

The unit can register the following information for any single pull:

- Date and hour of monitoring start;
- Value for the limiting control value;
- Sampling distance time;
- Date and hour of monitoring end

In addition there is a printer for monitoring printing, either in real time or later on; it is also possible to print a qualitative graphic of the carried out monitoring.
It is possible to connect the unit to the PC for downloading the data

CABLE ELECTRONIC RECORDER 21001940

RADIO ELECTRONIC RECORDER 21001935

TECHNICAL CHARACTERISTICS

Voltage	12 V or 24 V
Display	2 rows with 16 digits

APPLICABILITY

All Condux machines predisposed

DIMENSIONS

15 x 5 x 7 in

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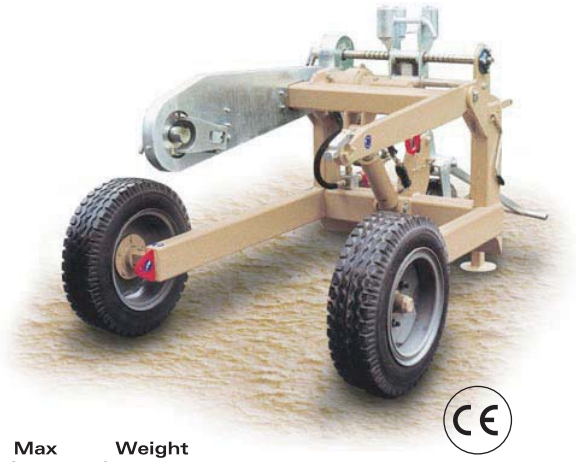
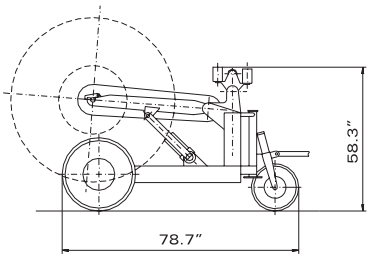
REEL WINDERS
Mod. RV

The reel winders are suitable to work with any hydraulic power unit, in particular with pullers and puller-tensioners, and operate as separated winding systems.
They are equipped with automatic level wind and negative self-acting hydraulic brake.
The frame is made of welded steel with protective coating.
The reel winders can lift the reel by hydraulic jacks powered by the same hydraulic source.





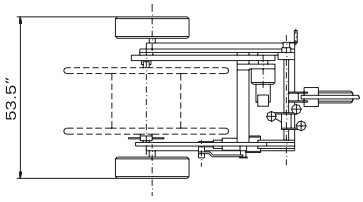
21009445

Part Number	Max capacity [lbs]	Max torque [lbfx ft]	Max rotating speed [rpm]	Weight [lbs]
21009445	4496	736,000	50	233
21009450	15737	2000	35	520

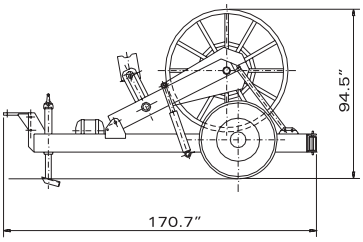
The reel winder 21009445 is also equipped with rigid semiaxles for manual towing and can operate with the standard reels 21009150 and 21009000.
The capacities are indicated in the following table

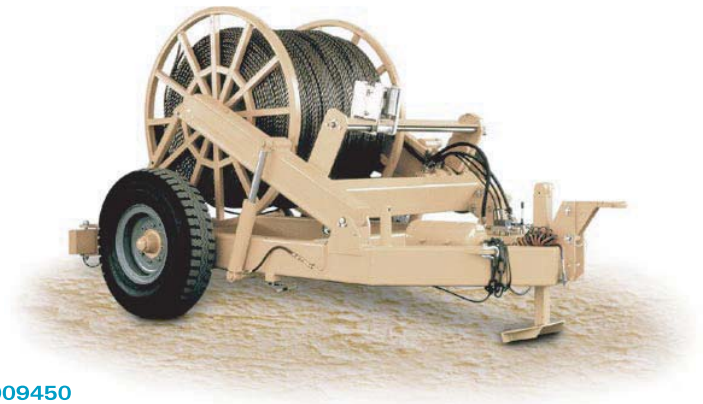
Kit of connecting hoses
(only for **21009445**)

21005325 length 23 ft
21005330 length 33 ft
21005335 length 49 ft



Reel 21009150 Ø rope [in]	3/8	1/2	1/2	9/16	5/8	11/16	13/16	7/8	15/16
Rope capacity [ft]	7800	5243	5243	3600	2900	–	–	–	–
Reel 21009000 Ø rope [in]	3/8	1/2	1/2	9/16	5/8	11/16	13/16	7/8	15/16
Rope capacity [ft]	11800	7800	7800	7200	5900	3900	3200	2900	2600

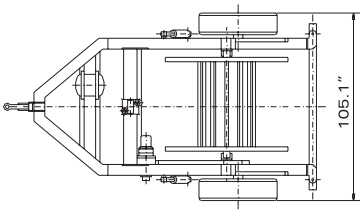




21009450

The reel winder 21009450 is also equipped with:

- Steel reel 21009050 with capacity indicated in the following table
- Manual front plough stabilizer
- Connecting hoses kit 49 ft length
- Lighting system
- Pneumatic brake system
- Rigid semiaxles for towing at max speed of 18.6 mph with mechanical parking brake



OPTIONAL

21009050 Reel with antitwist rope

Built-in reel Ø rope [in]	3/8	1/2	1/2	9/16	5/8	11/16	13/16	7/8	15/16	1	11/8
Rope capacity [ft]	62000	44000	36000	31000	23000	18000	13000	11000	10000	6800	7800

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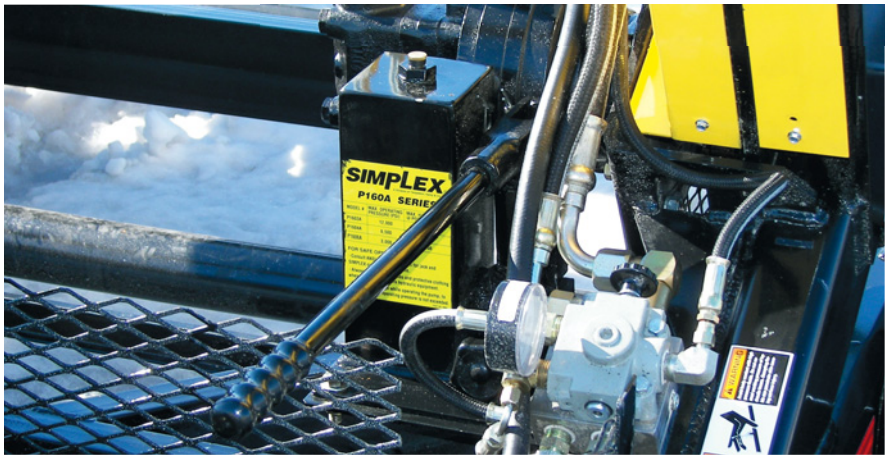
UNIVERSAL REEL WINDER TRAILER
Mod. URW24
Condux Part # 21032400

URW24 Universal Hydraulic Reel Trailer

The Condux URW24 Hydraulic Reel Trailer/Winder is designed to work with the Condux Pullers & Puller/Tensioners, and operate as separate winding system. It is a equipped with automatic level wind and negative self-acting hydraulic brake. The URW24 can be used with the following: The Condux optional Fixed Steel reel, optional Detachable Reel or a Steel Conductor Reel.

Steel Conductor Reel Capacity:
90" x 45"



Hydraulic controls for complete control of the reel

Built in Levelwind

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UNIVERSAL REEL WINDER TRAILER
Mod. URW24
Condux Part # 21032400

REEL CAPACITY

Fixed Steel Reel Capacity	
Rope Diameter (in)	11/16
Rope Capacity (ft)	18000

STANDARD EQUIPMENT

- Front Plow Stabilizer
- Connecting Hoses Kit 40 ft length
- Built in Levelwind
- Grounding Attachment
- Anchoring Points
- Wheel Chocks
- Safety Chains
- Storage Basket

OPTIONAL EQUIPMENT

21031775 Detachable Reel for Wire Recovery 75" x 45"
21031760 Fixed Steel Reel for Wire Rope 75" x 45"

TRAILER SPECIFICATIONS

Net Weight	4,500 lbs
Overall Length	207 in
Overall Width	100 in
Height	85 in
Maximum GVW	24,000 lbs
Brakes	Electric
Electric System	12 V
Towing	Adjustable pintle eye

Detachable Reel 21031775

Fixed Steel Reel 21031760

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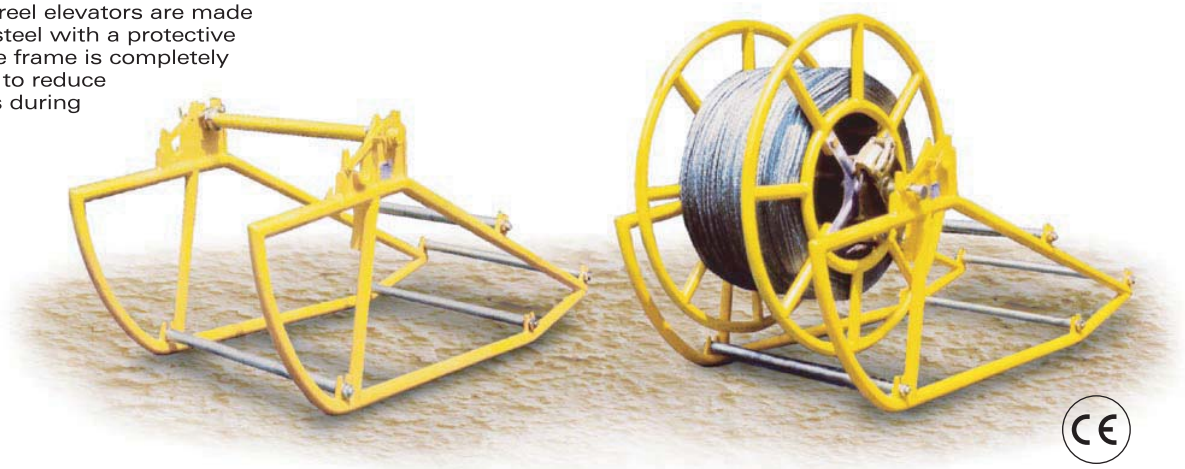
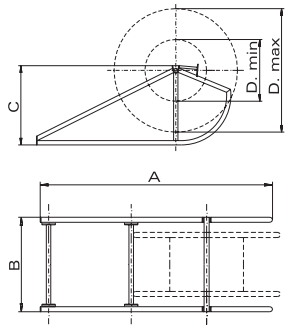
CRADLE REEL ELEVATORS
Mod. CVC

The cradle reel elevators are made of welded steel with a protective coating; the frame is completely detachable to reduce dimensions during transport.





Part Number	Dimensions [in]					Capacity [lbs]	Weight [lbs]
	A	B	C	Dmin	Dmax		
21009410	100	52	42	43	55	4400	187
21009400	118	42	44	-	74	5800	330

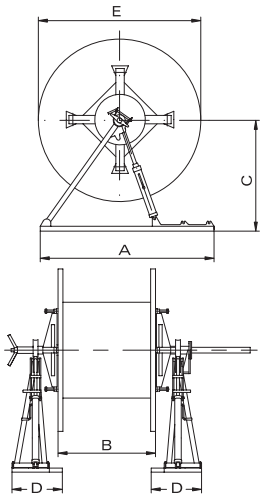
OPTIONAL

21009415 Disk brake device for 21009410

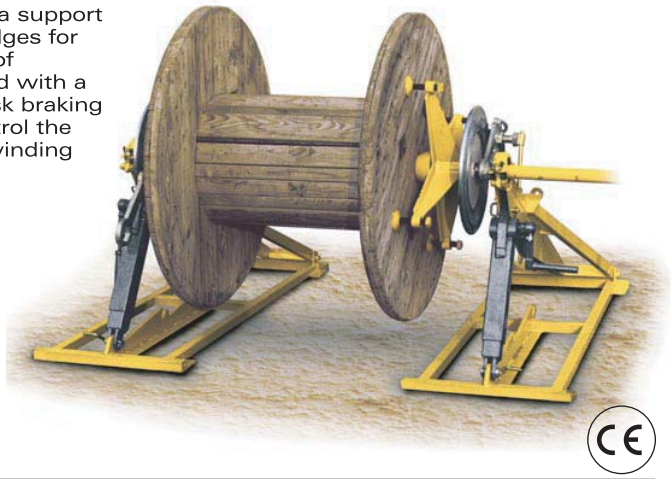
21009405 Disk brake device for 21009400

MECHANICAL REEL ELEVATORS
Mod. CVM

The reel elevators are made of welded steel with a protective coating; the frame is completely detachable to reduce dimensions during transport.



Each reel elevator is provided with a support with fixed wedges for wooden reels of conductors and with a mechanical disk braking system to control the reel when unwinding the conductor.



Part Number	Dimensions [in]								Capacity [lbs]	Weight [lbs]
	A	Bmin	Bmax	Cmin	Cmax	D	Emin	Emax		
21009420	53	19	47	13	27	24	29	39	4400	410
21009425	62	39	55	27	43	24	57	78	9000	487

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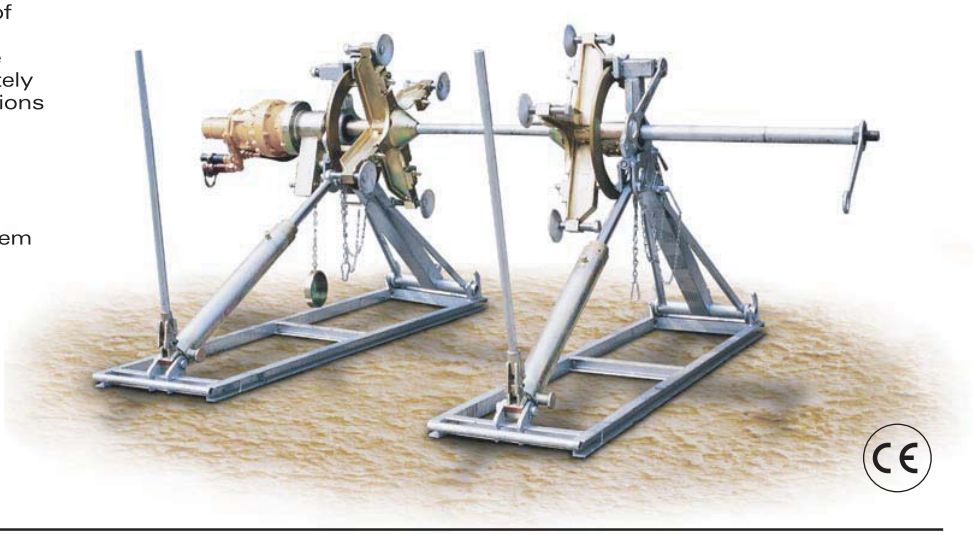
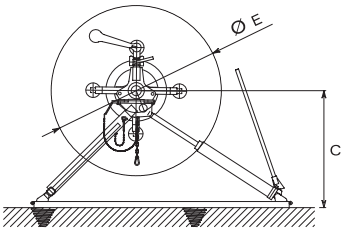
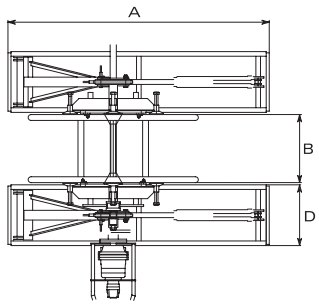
HYDRAULIC REEL ELEVATORS
Mod. CVI

The reel elevators are made of welded steel (zinced for 21009435), with a protective coating; the frame is completely detachable to reduce dimensions during transport.
Each reel elevator is provided with a support with fixed wedges for wooden reels of conductors and with a mechanical disk braking system to control the reel when unwinding the conductor.







Part Number	Dimensions [in]								Capacity	Weight
	A	Bmin	Bmax	Cmin	Cmax	D	Emin	Emax	[lbs]	[lbs]
21009430	64	23	60	20	43	21	43	78	13489	626
21009435	84	20	60	20	55	20	29	98	15737	728

Included in the 21009435

OPTIONAL 21009435

21009482 Adapter for steel rope standard reels

21009436 Fast assembling hydraulic head for control of the reel winding and unwinding

Max Torque [lbfxft]	Max rotating speed [RPM]	Weight [lbs]
1326	45	172

21009436

Kit of connecting hoses

21005325 length 23 ft, weight 24 lbs
21005330 length 33 ft, weight 33 lbs
21005335 length 49 ft, weight 50 lbs

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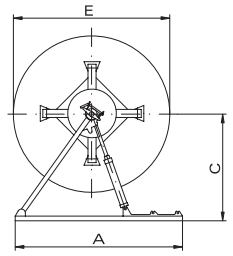
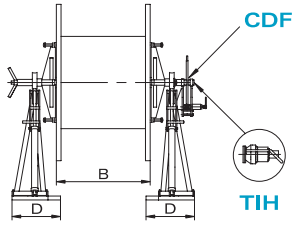
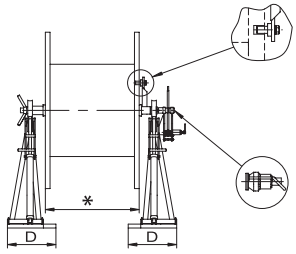
HYDRAULIC REEL ELEVATOR HEAVY DUTY
Mod. CVI 600
Condux Part # 21009440

The reel elevator is made of welded steel with a protective coating; the frame is completely detachable to reduce dimensions during transport.
The reel elevator includes only the main frame with a mechanical disk braking system and should be completed with the optional **21009488** or **21009490**.
The picture shows the **21009440** with the **21009488** and the **21009441**.





21009440 + **21009488**



21009440 + **21009490** (*)

Part Number	Dimensions [in]								Capacity	Weight
	A	Bmin	Bmax	Cmin	Cmax	D	Emin	Emax	[lbs]	[lbs]
21009440	84	20	60	23	53	25	47	98	16000	948

CONFIGURATION

One manual disk brake CDF
(Max torque 225 lbs x ft)

Kit of connecting hoses

21005325 length 23 ft, weight 24 lbs
21005330 length 33 ft, weight 33 lbs
21005335 length 49 ft, weight 51 lbs

OPTIONAL EQUIPMENT

21009488 Support with self-locking fixing wedges for wooden conductor reels

21009490 Special driver with fixed wedges for steel conductor reels (reel drawing is required) (*)

21009480 Adapter for steel rope standard reel

21009484 Automatic level wind for standard steel rope reels (B = 22 in)

21009439 BRAKE,DISC KIT-CVI600 (Max torque 1600 lbf x ft)

TIH Fast assembling hydraulic head for control of the reel winding and unwinding

21009441 - **21009444**

Part Number	Max torque [lbfxft]	Max rotating speed [RPM]	Weight [lbs]
21009441	1300	45	168
21009444	1600	32	172

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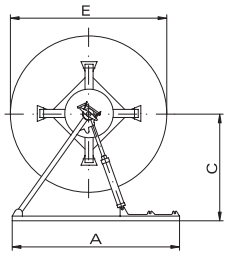
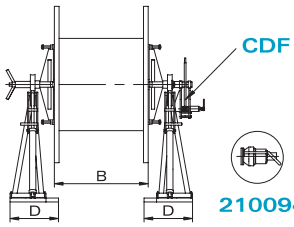
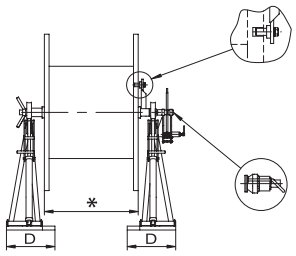
HYDRAULIC REEL ELEVATOR HEAVY DUTY
Mod. CVI 810
Condux Part # 21009470

The reel elevator is made of welded steel with a protective coating; the frame is completely detachable to reduce dimensions during transport.
The reel elevator includes the main frame with a mechanical disk braking system and should be completed with the optional 21009472 or CDT.
The picture shows the 21009470 with the 21009472 and the 21009471.





21009470 + 21009472



21009470 + 21009490 (*)

Part Number	Dimensions [in]								Capacity	Weight
	A	Bmin	Bmax	Cmin	Cmax	D	Emin	Emax	[lbs]	[lbs]
21009470	98	31	72	28	68	29	60	126	22000	1213

CONFIGURATION

One manual disk brake CDF
(Max torque 500 lbs x ft)

Kit of connecting hoses

21005325 length 23 ft, weight 24 lbs
21005330 length 33 ft, weight 33 lbs
21005335 length 49 ft, weight 51 lbs

OPTIONAL EQUIPMENT

21009472 Support with self-locking fixing wedges for wooden conductor reels

21009490 Universal driver with fixed wedges for steel conductor reels (reel drawing is required) (*)

21009475 Adapter for steel rope standard reel

21009471 Fast assembling hydraulic head for control of the reel winding and unwinding

21009471

Max torque [lbfxft]	Max rotating speed [RPM]	Weight [lbs]
1700	32	172

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REEL CARRIER TRAILER
Mod. CVT

The reel carrier is made of welded steel with protective coating.
Two hydraulic jacks powered by a manual pump are used to lift the reel.
One disc brakes acting on the reel shaft is designed to control the unwinding tension.
Special models with different characteristics can be designed according to customer's needs.

21009460

CONFIGURATION

Manual front plow stabilizer
Lighting system
Pneumatic brake system
Amortized semiaxles with mechanical parking brake

Part Number	Max Capacity	Reel Dimensions			Max Towing Speed	Overall dimension			Weight
		Max Diam	Min Diam	Width		Length	Width	Height	
	[lbs]	[in]	[in]	[in]	[mph]	[in]	[in]	[in]	[lbs]
21009456	6700	86	47	51	50	165	98	90	3219
21009458	11000	118	47	59	50	177	98	90	3638
21009460	16000	118	47	53	25	192	98	85	2646
21009462	18000	118	47	59	12	177	98	90	3939

21009460

complete with hydraulic winding system

21009456

21009458

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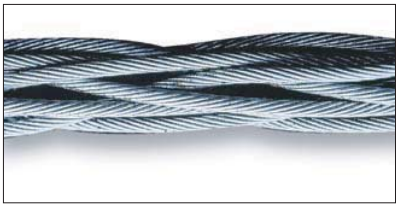
ANTITWISTING BRAIDED ROPE
Mod. FUX

Antitwisting galvanized steel rope, made up of braiding strands.

Advantages:

- high flexibility
- no rotation
- homogeneous distribution of pressure between the elementary wires
- increased efficiency during stringing operations



Mod. FUX
Note: Sections are supplied with spliced eyes in the following models:
- **21000020** for diameters 1/4-1/2 in
- **21000030** for diameters 1/2-11/16 in
- **21000010** for diameters 13/16-11/8 in

Mod. COA
Note: The spliced eyes with clamp are available in the following models:
- **21000050** for diameters 2/16-3/8 in
- **21000060** for diameters 1/2-9/16 in
- **21000070** for diameters 5/8-13/16 in

Part Number	Nominal diameter mass [in]	Indicative lubrificated mass rope [lbs/ft]	Breaking load [lbs]	Standard length [ft]
21000105	1/4	0.07	4900	5906-11811
21000115	5/16	0.15	9400	5250
21000125	3/8	0.23	15000	3937
21000130	1/2*	0.33	20000	2625-5250
21000135	1/2	0.37	24000	2625-5250
21000110	9/16*	0.41	26000	2625-5250
21000140	5/8	0.56	36000	2953
21000100	11/16	0.81	51000	2625
21000145	13/16	0.83	60000	3281
21000155	7/8	1.02	72000	2953
21000120	15/16	1.18	84000	2625
21000165	1*	1.33	92000	2297
21000170	11/8*	1.57	108000	1969

* Warehouse stock are not available for these diameters

NYLON ROPE
Mod. COA

The rope is made up of an external polyester mesh sock joint and a high strength nylon core.

Part Number	Diameter [in]	Rope mass [lbs/ft]	Elongation with 30% of breaking load [%]	Breaking load [lbs]	Standard length [ft]
21000192	1/4	0.03	7.5	1700	3281
21000194	5/16	0.04	7.5	2700	3281
21000175	3/8	0.05	7.5	4500	3281
21000180	1/2	0.08	7.5	7900	3281
21000185	9/16	0.11	7.5	9700	3281
21000160	5/8	0.13	7.5	11000	3281
21000150	11/16	0.15	7.5	13000	3281
21000190	13/16	0.19	7.5	15000	3281

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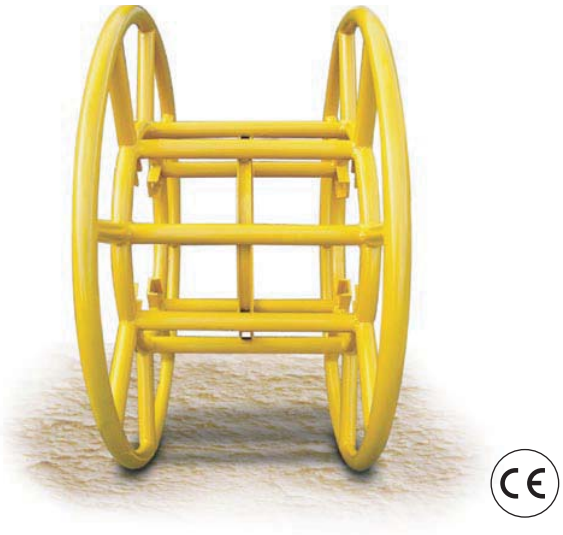
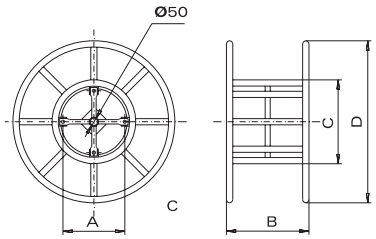
FIXED REELS
Mod. BOF

The reels are made of welded steel with protective coating.



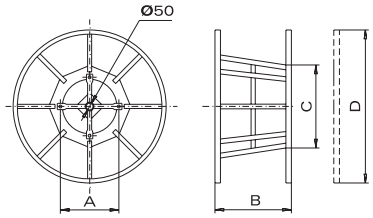


Fixed reels

Part Number	Dimensions [in]				Weight
	A	B	C	D	[lbs]
21009150	16	22	22	43	143
21009000	16	22	22	55	231
21009100	16	22	22	74	297

DETACHABLE REELS
Mod. BOC

The reels are made of welded steel with protective coating.
A detachable side and the conical drum facilitate removal of rope or conductor coil.



Detachable reels

Part Number	Dimensions [in]				Weight
	A	B	C	D	[lbs]
21009200	16	22	23	43	159
21009300	16	22	23	55	247
21009350	23	48	29	75	402

REEL CAPACITY FOR STANDARD SECTIONS OF ANTITWISTING BRAIDED ROPE [ft]

Ø Rope	Reels			
	21009150 21009200	21009000 21009300	21009100	21009350
1/4	23000	47000	70000	116000
5/16	10000	21000	31000	78000
3/8	7800	11000	23000	55000
1/2	5000	7800	23000	32000
1/2	5000	7800	15000	–
9/16	2600	5000	13000	26000
5/8	2900	5900	11800	21000
11/16	–	2600	7800	17000
13/16	–	3000	6500	12000
7/8	–	2900	5900	10000
15/16	–	2600	5000	10000
1	–	–	4500	8000
11/8	–	–	3900	4000

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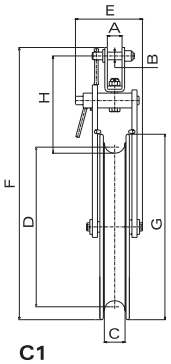
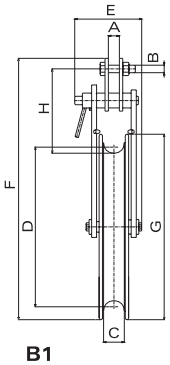
GUARD ROPE PULLEYS
Mod. CGA

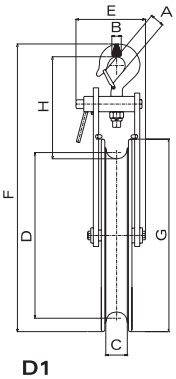
The pulley wheels are made of galvanized steel and mounted on ball bearings; the pulley frames are made of galvanized steel. The pulleys can be supplied with three types of connections: fixed (B1) swivel-type (C1) or with hook provided with safety lock (D1).



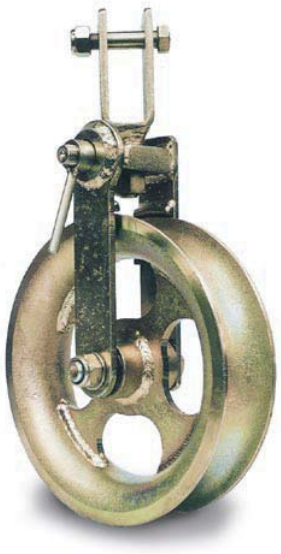
C1



B1



D1



Part Number	Type of connection	Dimensions [in]								Breaking load [lbs]	Weight [lbs]
		A	B	C	D	E	F	G	H		
21002010	B1	1	11/16	29/16	9	57/8	18	11	71/2	16000	24
21002020	C1	13/8	11/16	29/16	9	57/8	20	11	811/16	16000	24
21002030	D1	15/16	13/16	29/16	9	57/8	18	11	75/16	16000	24

ANTI-LIFTING AUTOMATIC RELEASE PULLEY
Mod. CAA 202
Condux Part # 21002000

The anti-lifting automatic release pulley is a special device that prevents the pulling rope lifting with respect to the theoretical line, specifically in case of towers with considerable height differences. It is equipped with an automatic release system to facilitate recovery operations. The wheel is made of galvanized steel and mounted on ball bearings; the pulley frame is made of galvanized steel.

CHARACTERISTICS

Breaking load	18000 lbs
Weight	44 lbs

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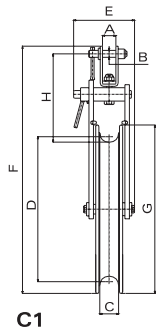
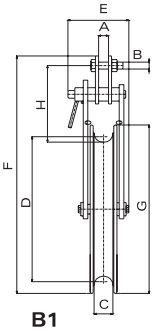
SINGLE CONDUCTOR PULLEYS
Mod. CAS

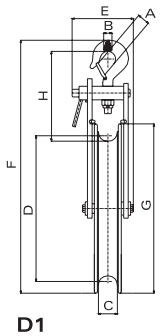
The pulley wheels are made of aluminum alloy mounted on ball bearings; the groove is lined by a neoprene ring or by wear-proof interchangeable nylon sectors, or aluminum sectors. The frame is made of galvanized steel. The pulleys can be supplied with three types of connections: fixed (B and B1), swivel-type (C and C1) or with a hook supplied with safety lock (D and D1). Grounding device or complete conductive sheaves can be supplied on demand.



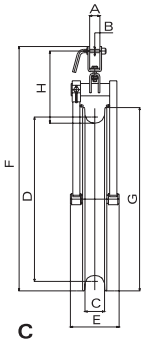
C1



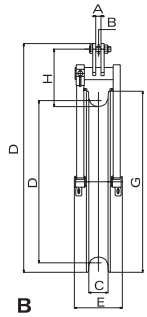
B1



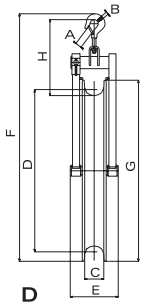
D1



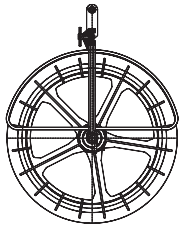
C



B



D



Part Number		Type of connection	Dimensions [in]								Breaking load [lbs]	Weight [lbs]
Neoprene	Nylon		A	B	C	D	E	F	G	H		
	21007005	C1	1	5/8	115/16	9	5	18	12	6	18000	15
	21007010	D1	1	3/4	115/16	9	5	19	12	6	18000	15
21007015	21007020	B1	1	11/16	21/8	13	5	23	17	7	16000	24
21007025	21007030	C1	13/8	11/16	21/8	13	5	25	17	8	16000	26
21007035	21007040	D1	11/4	13/16	21/8	13	5	24	17	9	16000	26
21007045		B	1	13/16	211/16	15	7	31	20	12	22000	42
21007500		C	19/16	13/16	211/16	15	7	33	20	14	22000	44
21007055		D	11/4	15/16	211/16	15	7	34	20	14	22000	48
21007050	21007060	B	1	13/16	211/16	19	7	33	24	10	22000	48
21007600	21007065	C	19/16	13/16	211/16	19	7	35	24	12	22000	55
21007070	21007075	D	11/4	15/16	211/16	19	7	36	24	12	22000	53
21007000	21007000NY	B	1	13/16	211/16	25	7	39	30	10	22000	62
21007700	21007085	C	19/16	13/16	211/16	25	7	41	30	12	22000	64
21007090	21007095	D	11/4	15/16	211/16	25	11	42	30	12	22000	66
21007100	21007105	B	1	13/16	33/4	25	8	39	30	10	27000	70
21007800	21007110	C	19/16	13/16	33/4	25	8	41	30	12	27000	70
21007115	21007120	D	11/4	15/16	33/4	25	8	43	30	13	27000	75
21007125	21007125NY	B	1	13/16	211/16	31	7	45	34	10	27000	70
21007900	21007135	C	19/16	13/16	211/16	31	7	41	34	12	27000	72
21007140	21007145	D	11/4	15/16	211/16	31	7	46	34	12	27000	75
21007150	21007155	B	1	13/16	33/4	31	8	44	35	10	27000	84
21007160	21007165	C	19/16	13/16	33/4	31	8	46	35	12	27000	86
21007170	21007175	D	11/4	15/16	33/4	31	8	47	35	13	27000	88
	21007180	B	1	13/16	33/4	39	8	52	43	10	27000	108
	21007185	C	19/16	13/16	33/4	39	8	54	43	12	27000	110
	21007190	D	11/4	15/16	33/4	39	8	55	43	13	27000	112
Aluminum												
21007000AL		B	1	13/16	211/16	26	7	39	30	10	22000	62
21007125AL		B	1	13/16	211/16	31	7	45	34	10	27000	70

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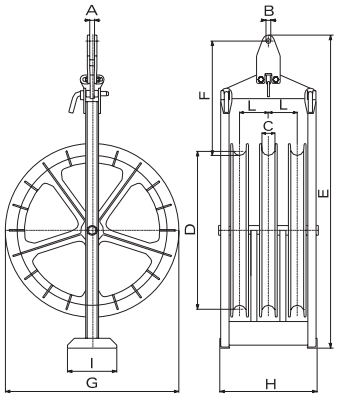
TWO OR THREE BUNDLED CONDUCTORS PULLEYS Mod. CAT

The pulleys are suitable for stringing two or three bundled conductor lines.
The wheels are made of aluminum alloy; the lateral ones are mounted on ball bearings with groove lined by a neoprene ring; the central one is mounted on double-row ball bearings with grooves made up of wear-proof interchangeable nylon sectors. The frame is made of galvanized steel. The pulleys are supplied with fixed connection. Grounding device or complete conductive sheaves can be supplied on demand.

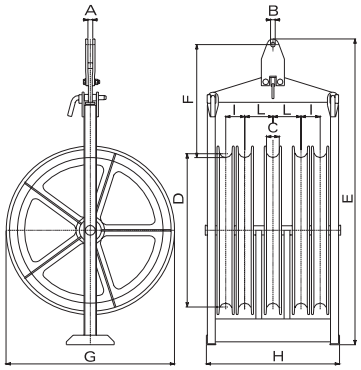


Part Number	Dimensions [in]										Breaking load	Weight
	A	B	C	D	E	F	G	H	I	L	[lbs]	[lbs]
21007205	1	15/16	211/16	19	50	22	24	19	9	5	27000	209
21007200	1	15/16	211/16	25	56	22	30	19	9	5	27000	242
21007300	1	15/16	33/4	25	56	22	30	22	9	6	40000	287
21007210	1	15/16	211/16	31	60	22	34	19	9	5	40000	276
21007215	1	15/16	33/4	31	60	22	35	22	9	6	40000	353
21007400*	1	15/16	33/4	39	68	22	43	22	9	6	45000	437

* Lateral wheels with nylon lining

FOUR BUNDLED CONDUCTORS PULLEYS Mod. CAQ

The pulleys are suitable for stringing four bundled conductor lines.
The wheels are made of aluminum alloy; the lateral ones are mounted on ball bearings with groove lined by a neoprene ring; the central one is mounted on double-row ball bearings with grooves made up of wear-proof interchangeable nylon sectors.
The frame is made of galvanized steel. The pulleys are supplied with fixed connection. Grounding device or complete conductive sheaves can be supplied on demand.



Part Number	Dimensions [in]										Breaking load	Weight
	A	B	C	D	E	F	G	H	I	L	[lbs]	[lbs]
21007410	1	15/16	211/16	19	50	23	24	27	3	5	27000	291
21007420	1	15/16	211/16	25	56	23	30	27	3	5	27000	342
21007430	1	15/16	33/4	25	56	23	30	32	5	6	40000	419
21007440	1	15/16	211/16	31	60	23	34	27	3	5	40000	397
21007450	1	15/16	33/4	31	60	23	35	32	5	6	40000	496
21007460*	1	15/16	33/4	39	68	23	43	32	5	6	45000	595

* Lateral wheels with nylon lining

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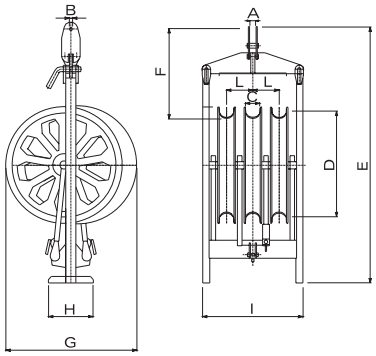
TWO OR THREE BUNDLED CONDUCTORS DETACHABLE PULLEYS Mod. CST

The pulleys are suitable for stringing two or three bundled conductor lines. The pulleys are made up of a special galvanized steel frame and three single pulleys. The single pulleys can be used separately. The wheels are made of aluminum alloy mounted on ball bearings; the lateral ones have the groove lined by a neoprene ring; the central one has the groove made up of wear-proof interchangeable nylon sectors.
The pulleys are supplied with fixed connection. Grounding device or complete conductive sheaves can be supplied on demand.

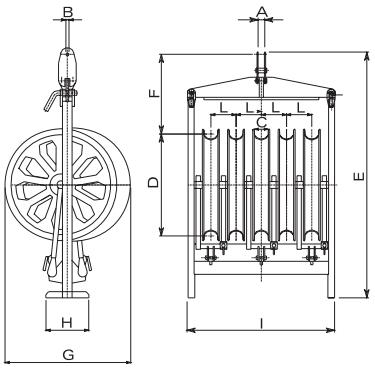


Part Number	Dimensions [in]										Breaking load	Weight
	A	B	C	D	E	F	G	H	I	L	[lbs]	[lbs]
21007220	1	15/16	211/16	19	59	23	27	9	22	5	27000	300
21007225	1	15/16	211/16	25	61	23	33	9	22	5	27000	333
21007230	1	15/16	33/4	25	65	23	33	9	26	7	40000	366
21007235	1	15/16	211/16	31	69	23	37	9	22	5	40000	366
21007240	1	15/16	33/4	31	70	23	37	9	26	7	40000	419
21007245*	1	15/16	33/4	39	78	23	46	9	26	7	45000	503

* Lateral wheels with nylon lining

FOUR BUNDLED CONDUCTORS DETACHABLE PULLEYS Mod. CSQ

The pulleys are suitable for stringing four bundled conductor lines.
The pulleys are made up of a special galvanized steel frame and five single pulleys. The single pulleys can be used separately. The wheels are made of aluminum alloy mounted on ball bearings; the lateral ones have the groove lined by a neoprene ring; the central one has the groove made up of wear-proof interchangeable nylon sectors. The pulleys are supplied with fixed connection. Grounding device or complete conductive sheaves can be supplied on demand.



Part Number	Dimensions [in]										Breaking load	Weight
	A	B	C	D	E	F	G	H	I	L	[lbs]	[lbs]
21007415	1	15/16	211/16	19	59	23	27	9	34	5	27000	467
21007425	1	15/16	211/16	25	65	23	33	9	34	5	27000	518
21007435	1	15/16	33/4	25	67	23	33	9	40	7	40000	569
21007445	1	15/16	211/16	31	69	23	37	9	34	5	40000	551
21007455	1	15/16	33/4	31	72	23	37	9	40	7	40000	650
21007465*	1	15/16	33/4	39	80	23	46	9	40	7	45000	761

* Lateral wheels with nylon lining

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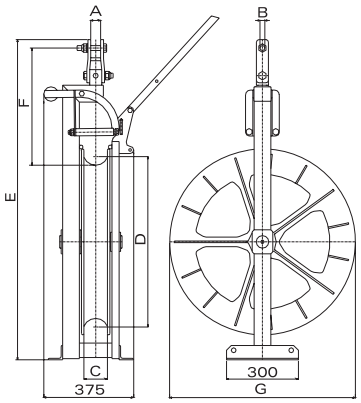
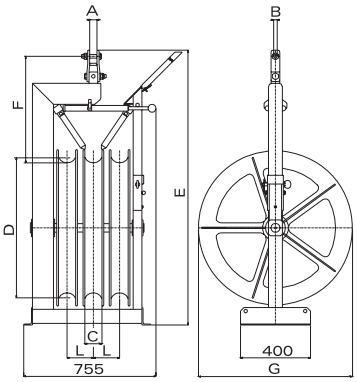
PULLEYS FOR HELICOPTER STRINGING
Mod. CES-CET

The pulleys are suitable for stringing the pilot rope by a helicopter.
The pilot rope is automatically positioned in the (central) wheel. Special guides ensure the correct positioning of the rope during stringing operations. The wheels are made of aluminum alloy mounted on ball bearings; the lateral ones have the groove lined by neoprene ring; the central one has the groove made up of wear-proof interchangeable nylon sectors.
The frame is made of galvanized steel.
The pulleys are supplied with fixed connection. Grounding device or complete conductive sheaves can be supplied on demand.



SINGLE PULLEYS Mod. CES

Part Number	Dimensions [in]							Breaking load	Weight
	A	B	C	D	E	F	G	[lbs]	[lbs]
21003600	1	15/16	211/16	25	49	16	30	27000	106
21003700	1	15/16	33/4	25	49	16	30	27000	137
21003800	1	15/16	211/16	31	54	16	35	27000	143
21003900	1	15/16	33/4	31	54	16	35	27000	154
21003400	1	15/16	33/4	39	62	16	43	45000	187



TWO OR THREE BUNDLED CONDUCTORS PULLEYS Mod. CET

Part Number	Dimensions [in]								Breaking load	Weight
	A	B	C	D	E	F	G	L	[lbs]	[lbs]
21003050	1	15/16	211/16	25	65	30	30	5	40000	353
21003300	1	15/16	33/4	25	65	30	30	6	40000	388
21003000	1	15/16	211/16	31	69	30	35	5	40000	392
21003100	1	15/16	33/4	31	69	30	35	6	40000	436
21003200*	1	15/16	33/4	39	77	30	43	6	45000	516

* Lateral wheels with nylon lining

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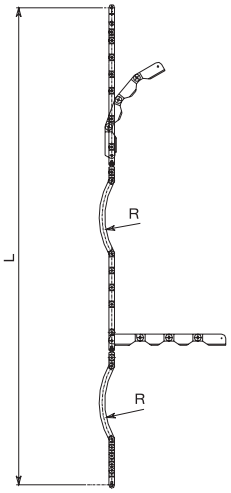
FIBER OPTIC CABLES HEAD BOARDS Mod. RFF

Specifically designed to connect the pulling rope with a fiber optic cable. They are composed of several jointed rods and two arched rods (to facilitate the passage on the pulley), and two drawback counterweights (to avoid cable twisting)



Part Number	Dimensions [in] L	R	Breaking load [lbs]	Weight [lbs]	For pulleys Ø [in]
21000200	153	12	6700	132	15 19 25
21000202	169	19	6700	137	31 39

TWO OR THREE BUNDLED CONDUCTORS HEAD BOARDS Mod. RB-RF

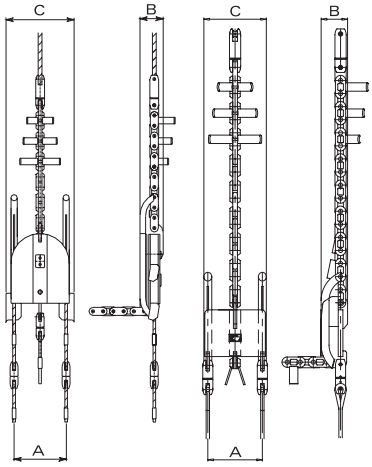
Specifically designed to connect the pulling rope, max 15/16 in diameter, with 2 or 3 bundled conductors. The equipment includes the necessary rope lengths and swivel joints; quantity and models are indicated in the following tables.

BALANCING HEAD BOARDS Mod. RB

Part Number	Dimensions [in] A	B	C	Breaking load [lbs]	Weight [lbs]	For pulleys Part #	Equipment: Swivel joints 21000335	Swivel joints 21000345	Steel rope section Ø11/16	Bundled type	Note
21000220	1 1/2	5/16	1 3/8	63000	297	21007205 21007200	2	1	No. 1-98.5 ft	2 con-ductors	
21000225	1 1/2	5/16	1 3/8	63000	346	21007210 21007220 21007225 21007235	3	1	No. 1-98.5 ft No.1-49.3 ft	3 con-ductors	balan. 1-3
21000212	1 1/2	5/16	1 3/8	63000	346		3	1	No. 1-98.5 ft No.1-49.3 ft	3 con-ductors	balan. 1-2
21000230	13 11/16	6 15/16	16 5/16	63000	315	21007300 21007215	2	1	No. 1-98.5 ft	2 con-ductors	
21000210	13 11/16	6 15/16	16 5/16	63000	364	21007400 21007230 21007240 21007245	3	1	No. 1-98.5 ft No.1-49.3 ft	3 con-ductor	balan. 1-3
21000205	13 11/16	6 15/16	16 5/16	63000	364		3	1	No. 1-98.5 ft No.1-49.3 ft	3 con-ductors	balan. 1-2

FIXED HEAD BOARDS Mod. RF

Part Number	Dimensions [in] A	B	C	Breaking load [lbs]	Weight [lbs]	For pulleys Part #	Equipment: Swivel joints 21000335	Swivel joints 21000345	Steel rope section Ø11/16	Bundled type
21000215	1 1/2	5 11/16	1 3/16	63000	214	21007205 21007200 21007210	2	1	No.2-11.5 ft	2 conductors
21000235	1 1/2	5 11/16	1 3/16	63000	229	21007220 21007225 21007235	3	1	No.3-11.5 ft	3 conductors
21000240	13 11/16	5 11/16	1 3/16	63000	220	21007300 21007215 21007400	2	1	No.2-11.5 ft	2 conductors
21000245	13 11/16	5 11/16	1 3/16	63000	234	21007230 21007240 21007245	3	1	No.3-11.5 ft	3 conductors



Mod. RB Mod. RF

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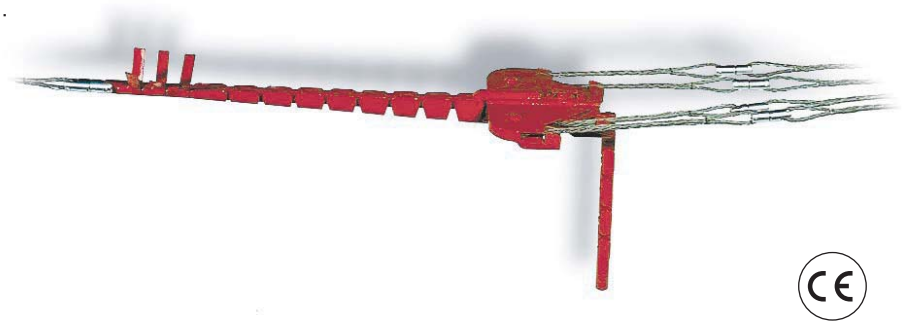
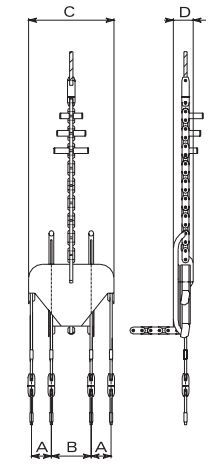
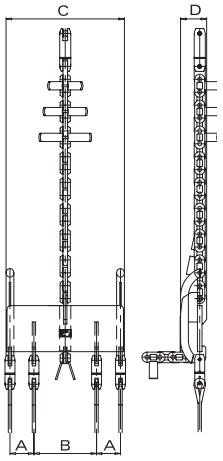
FOUR BUNDLED CONDUCTORS HEAD BOARDS Mod. RB - RF

Specifically designed to connect the pulling rope, max 1 in diameter, with 4 bundled conductors. The equipment includes the necessary rope lengths and swivel joints; quantity and models are indicated in the following tables.





Mod. RB



Mod. RF

BALANCING HEAD BOARDS Mod. RB

Part Number	Dimensions [in]				Breaking load	Weight	For pulleys	Equipment		
								Swivel joints		Steel rope section
	A	B	C	D	[lbs]	[lbs]	Part #	21000335	21000345	Ø18
21000250	315/16	111/2	211/4	65/16	63000	419	21007410 21007420 21007440	4	1	No.2-98.5 ft
21000255	51/8	133/8	251/8	65/16	63000	452	21007430 21007450 21007460	4	1	No.2-98.5 ft
21000260	513/16	113/4	253/16	65/16	63000	452	21007415 21007425 21007445	4	1	No.2-98.5 ft
21000260	7	14	2915/16	65/16	63000	463	21007435 21007455 21007465	4	1	No.2-98.5 ft
21000270	51/8	133/8	259/16	67/8	169000	529	21007430 21007450 21007460	4	21000355 — 1	No.2-98.5 ft

FIXED HEAD BOARDS Mod. RF

Part Number	Dimensions [in]				Breaking load	Weight	For pulleys	Equipment		
								Swivel joints		Steel rope section
	A	B	C	D	[lbs]	[lbs]	Part #	21000335	21000345	Ø18
21000275	315/16	111/2	137/8	511/16	63000	276	21007410 21007420 21007440	4	1	No.4-11.5 ft
21000280	51/8	133/8	255/16	511/16	63000	293	21007430 21007450 21007460	4	1	No.4-11.5 ft
21000285	513/16	113/4	251/16	511/16	63000	291	21007415 21007425 21007445	4	1	No.4-11.5 ft
21000290	7	14	293/4	511/16	63000	300	21007435 21007455 21007465	4	1	No.4-11.5 ft
21000295	51/8	133/8	259/16	67/8	169000	907	21007430 21007450 21007460	4	21000355 — 1	No.4-11.5 ft

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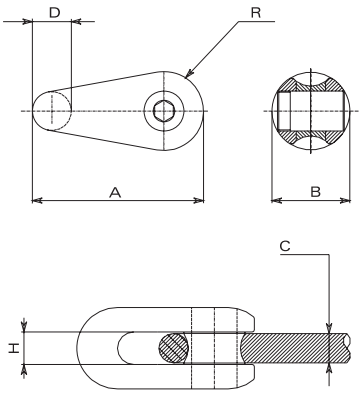
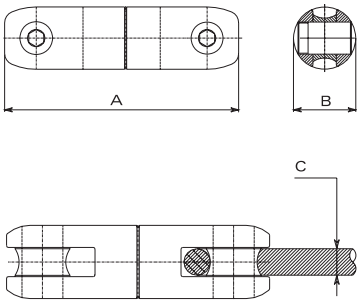
The fixed joints are specifically designed to connect pilot rope lengths or pulling rope lengths and to pass over the puller or puller-tensioner bull wheels. The special profile minimizes the overload on the rope spliced eyes during this passage. They are made of highly tensile galvanized steel.



FIXED JOINTS Mod. GFT

Part Number	Dimensions [in]						Breaking load [lbs]	Weight [lbs]
	A	B	C max	D	H	R		
21000300	25/16	11/8	3/8	9/16	7/16	7/16	16000	0.28
21000310	27/8	15/8	1/2	3/4	9/16	9/16	25000	0.72
21000320	39/16	115/16	5/8	13/14	3/4	11/16	36000	1.16
21000330	4	23/16	11/16	7/8	3/4	13/16	49000	1.65
21000340	43/4	23/8	15/16	11/16	1	7/8	81000	2.26
21000350	67/8	3	11/8	15/8	13/16	11/4	169000	6.67
21000360	73/16	31/4	11/4	15/8	15/16	13/8	169000	7.50

The swivel joints are suitable to connect the pulling rope to the mesh sock joint mounted on the conductor; they are mounted on thrust bearings and they are designed to avoid torsion strain accumulation. They are made of highly tensile galvanized steel; the special design can bear the high radial loads, which occur during the passage over the pulleys.



SWIVEL JOINTS Mod. GGT

Part Number	Dimensions [in]			Breaking load [lbs]	Weight [lbs]
	A	B	C max		
21000305	43/16	11/8	3/8	16000	0.44
21000315	55/8	19/16	1/2	25000	2.04
21000335	71/4	21/8	11/16	49000	4.74
21000345	93/16	23/8	15/16	81000	7.5
21000355	1211/16	31/16	11/8	169000	18
21000365	131/4	33/16	11/4	169000	19.18

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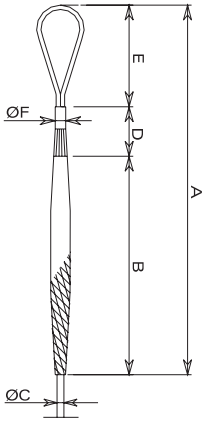
TEMPORARY MESH SOCK JOINTS
Mod. GCT

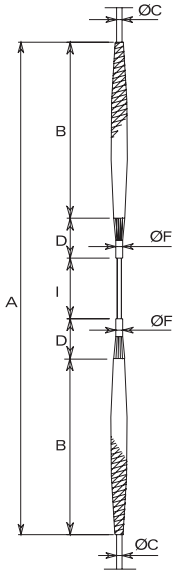
The head-type temporary mesh sock joints are specifically designed to temporarily connect the aluminum, steel or copper conductor to the pulling rope. They consist of variable pitch steel wires, which effectively distribute the gripping effect on the conductor.



HEAD-TYPE TEMPORARY MESH SOCK JOINTS

Part Number	Ø C Conductor [in]	Dimensions [in]					Identifying color	Breaking load	Weight
		A	B	D	E	F		[lbs]	[lbs]
21000500	5/16 - 11/16	55	43	51/2	6	7/8	yellow	7900	1.5
21000510	11/16 - 11/8	66	53	65/16	7	7/8	red	19000	2.9
21000520	11/8 - 11/2	74	57	77/8	9	7/8	green	29000	4.6
21000530	11/2 - 115/16	89	71	77/8	9	7/8	black	40000	6

The double head-type temporary mesh sock joints are specifically designed to temporarily connect the aluminum, steel or copper conductors. They consist of variable pitch steel wires, which effectively distribute the gripping effect on the conductor.



DOUBLE HEAD-TYPE TEMPORARY MESH SOCK JOINTS

Part Number	Ø C Conductor [in]	Dimensions [in]					Identifying color	Breaking load	Weight
		A	B	D	F	I		[lbs]	[lbs]
21000550	5/16 - 11/16	105	43	5	7/8	7	yellow	7800	2.5
21000560	11/16 - 11/8	127	53	6	11/8	7	red	19000	5
21000570	11/8 - 11/2	139	57	7	13/16	7	green	29000	7.9
21000580	11/2 - 115/16	166	71	7	15/16	7	black	40000	10.5

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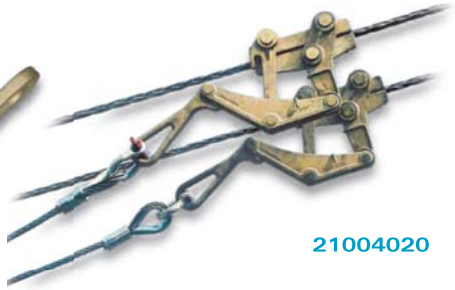
SELF GRIPPING CLAMPS
Mod. MOT

The self-gripping clamps can be used whenever a conductor, a cable or a rope made of aluminum, aluminum/steel, copper or steel, even if insulated, has to be stretched.
The body is made of high-strength hot forged steel, in order to minimize weight in comparison with the working load.
The galvanization treatment on the surface protects from oxidation.
According to the final model, the clamps are made with machined body clamps or body clamps sizes on demand, as per the following tables.
The most important characteristic of the clamp with interchangeable jaws is the possibility to use the same clamp for working on conductors or ropes or fiber optic cable of different diameters only by changing the jaws; this feature makes it possible to reduce the operating costs.
The characteristic of this new Condux clamp is to allow a large range of ropes and conductors diameters by using a small number of interchangeable or machined jaws.

21004040

21004070



21004020

21004060

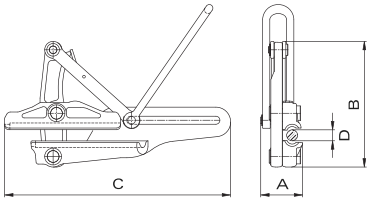
21004030

Part Number	Dimensions [in]				Breaking load [lbs]	Weight [lbs]	Use		
	A	B	C	D			Steel rope	Conductor Interchangeable Jaws	Conductor Machined body clamps
21004070	-	-	-	4/16-10/16	14000	5	-	yes	-
21004040	3	8	14	5/16-11/16	28000	17	yes	-	-
21004060	3	8	14	5/16-11/16	28000	15	-	yes	-
21004030	3	11	21	5/16-11/16	50000	26	yes	yes	yes
21004020	3	11	15	5/16-11/16	50000	38	yes	yes	-

INTERCHANGEABLE JAWS

xxx Specify the diameter on the order

Clamp Part Number	Jaws Part Number	D [in]	Use
21004070	21004070-007	0.28 – 0.39	Aluminum conductor
	21004070-010	0.39 – 0.51	Aluminum conductor
	21004070-013	0.51 – 0.63	Aluminum conductor
	21004070-OPGW	0.28 – 0.51	OPGW
21004060	21004060-014	0.55 – 0.67	Aluminum conductor
	21004060-017	0.67 – 0.79	Aluminum conductor
	21004060-020	0.79 – 0.91	Aluminum conductor
	21004060-OPGW	0.47 – 0.91	OPGW
21004030	21004032	0.90 – 1.02	Aluminum conductor
	21004034	1.02 – 1.14	Aluminum conductor
	21004036	1.14 – 1.26	Aluminum conductor
21004020	21004022	Specify	Aluminum or copper conductors
	21004024	the diameter	Round steel rope
	21004026	on the order	Antitwisting Braided rope



MACHINED BODY CLAMPS DIMENSIONS

Clamp Part Number	Type	D [in]	Use
21004030-024	-	0.71 – 0.94	Steel Rope
21004030-026	26	0.90 – 1.02	Aluminum conductor
21004030-029	29	1.02 – 1.14	Aluminum conductor
21004030-032	32	1.14 – 1.26	Aluminum conductor
21004030-036	36	1.26 – 1.42	Aluminum conductor

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SELF GRIPPING CLAMPS
Mod. MOR

The self-gripping clamps can be used whenever a conductor, a cable or a rope made of aluminum, aluminum/steel, copper or steel, even if insulated, has to be stretched.
The body is made of high strength hot forged steel, in order to minimize weight in comparison with the working load. The galvanization treatment on the surface protects from oxidation.
The most important characteristic is the possibility to use the same clamp for working on conductors or ropes of different diameters only by changing the jaws; this feature makes it possible to reduce operating costs.

21004100

21004120

21004160

Part Number	Max safe load [lbs]	Jaws (interchangeable)	Diameter range [in]					Weight [lbs]
			Aluminum conductor	Braided steel rope	Spiroidal steel rope	Copper conductor	Copper wire	
21004100	4496	No			1/8-9/16	1/8-9/16		3
21004120	26977	Yes	7/8-19/16	5/8-11/8*	13/16-11/8*	7/8-19/16		37
21004160	8992	Yes	Conductor lifting 1/4-11/2					17

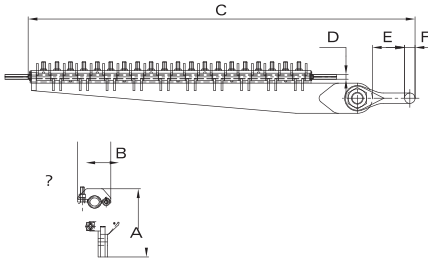
* Specify the exact diameter on the order

RADIAL LOCKING CLAMP
Mod. MOS
Condux Part # 21004090

The radial locking clamp can be used whenever a conductor or a rope made of aluminum, aluminum/steel, copper or steel has to be stretched.
The body is made of high-strength steel. It is made up of a series of hinged elements, which can be locked by nuts.
A special hook is provided at one end. The galvanization treatment on the surface protects from oxidation.

Specify the following data on the order:

D = conductor diameter



Max Breaking load [lbs]	Number of eyebolts	Dimensions [in]					Approx Weight [lbs]
		A	B	C	E	F	
40466	6	min 61/4 – max 615/16	min 51/16 – max 61/8	281/8	25/8	1	61.7
49458	7	min 61/4 – max 615/16	min 51/16 – max 61/8	305/8	25/8	1	72.8
56202	8	min 61/4 – max 615/16	min 51/16 – max 61/8	339/16	25/8	1	83.8
101164	14	min 61/4 – max 615/16	min 51/16 – max 61/8	475/8	33/4	11/4	101.4
134885	20	min 71/4 – max 811/16	min 51/16 – max 61/8	653/4	51/2	13/4	110.3

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The hydraulic presses, mainly implemented in press forged steel, have the following characteristics:

- excellent weight/power ratio
- very short pressing cycle (all the presses have an hydraulically-driven piston release)
- each power unit or manual hydraulic pump (and hoses) is interchangeable with any hydraulic press

21005120

21005110

CE

Part Number	Piston return	Max compression force [lbs]	Max pressure [PSI]	Max hexagon "ch" [in]	Max stroke [in]	Press Weight [lbs]	Die Weight [lbs]	Dimensions (bxlxh) [in]
21005110	Hydraulic	143878	10000	1 3/4	1 1/16	58	2	13 3/4 7 1/16 16 1/8
21005120	Hydraulic	413648	10000	3 9/16	1 3/4	319	12	23 5/8 16 15/16 23 5/8

The hydraulic presses, implemented in press forged steel, has the following characteristics:

- excellent weight/power ratio additionally improved as compared to the previous version
- very short pressing cycle thanks to the hydraulically-driven piston release
- each die, power unit and manual hydraulic pump (and hoses) are interchangeable with previous Condux version

CE

Part Number	Piston return	Max compression force [lbs]	Max pressure [PSI]	Max hexagon "ch" [in]	Max stroke [in]	Press Weight [lbs]	Die Weight [lbs]	Dimensions (bxlxh) [in]
21005000	Hydraulic	269771	10000	2 9/16	1 5/16	114	4	20 1/2 11 17 11/16

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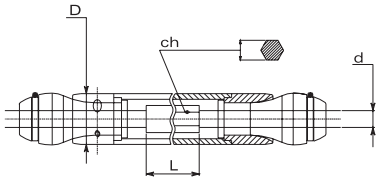
COVER JOINTS
Mod. PG

The cover joints are specifically designed to protect the mid span joint, made at the "tensioner station", during conductor stringing operations.
The cover joints consist of two shells made of galvanized steel with shaped ends to house the rubber noses, which protect the mid span joint during the passage over the pulleys.
The shells are coupled together by socket screws and the rubber noses are clipped together by belts.

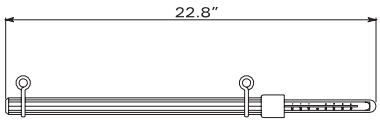


Part Number	Application	ch max [in]	L max [in]	Weight max [lbs]	Breaking load (at the edges) [lbs]
21005500	For pulley with 2 1/8 in groove	1 1/8	17 11/16	24	4500
21005510	For pulley with 2 11/16 in groove	1 7/16	31 1/2	33	4500
21005520	For pulley with 3 3/4 in groove	2 3/16	49 3/16	51	4500

Specify the following data on the order:
1) **L** = joint length after compression
2) **d** = conductor diameter
3) **ch** = the hexagon dimension of mid span joint after compression

THERMOMETERS
Mod. TET
Condux Part # 21005530

The thermometers are made of an aluminium bulb that reproduces the conductor's surface.



GENERAL CHARACTERISTICS

Weight (indicative)	1.3 - 2.2 lbs
Length	1.9 ft

Specify the diameter "d" of the conductor on the order

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Hydraulic power unit

HYDRAULIC POWER UNITS 21005200

Part Number	Engine	Power [HP]	Max pressure [PSI]	Max delivery [gall/min.]	Tank capacity [gall]	Weight [lbs]	Dimensions (bxlxh) [in]
21005200	Gasoline	6.03	10000	0.5	2.7	119	20 7/8 13 3/8 14 9/16
21005210	ELECTRICAL 220V-50HZ	2.95	10000	0.5	2.7	110	20 7/8 13 3/8 14 9/16

Note: the performance is calculated at 20°C and at sea level

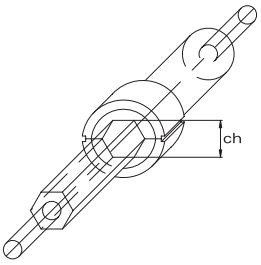
Manual pump

MANUAL PUMP 21005220

Part Number	Max pressure [PSI]	Delivery [gall/cycle] 1st stage	2nd stage	Capacity [gall]	Weight without oil [lbs]	Dimensions (bxlxh) [in]
21005220	10000	0.0035	0.0007	0.52	19	21 5/8 6 5/16 6 11/16

KIT OF CONNECTING HOSES Mod. TUP

Part Number	Length [in]
21005305	9
21005300	19
21005310	33
21005315	49
21005320	98



Hexagon ch

DIES FOR CONDUCTORS Mod. PDM

Press Part Number		Joint material	Die Part Number
21005110	(143000 lbs)	Steel Aluminum Almelec	21005460 21005462 21005464
21005100 21005000	(269000 lbs) (269000 lbs)	Steel Aluminum Almelec	21005472 21005474 21005476
21005120	(413000 lbs)	Steel Aluminum Almelec	21005466 21005468 21005470

DIES FOR COUPLING Mod. PDM

Part Number	Dies
21005110	/
21005100 21005000	21005450 21005450
21005120	21005455

STRAIGHTENING JOINT DEVICES Mod. PDR

Press Part Number		Straightening joint device Part #
21005110	(143000 lbs)	21005430
21005100 21005000	(269000 lbs) (269000 lbs)	21005435 21005435
21005120	(413000 lbs)	21005445

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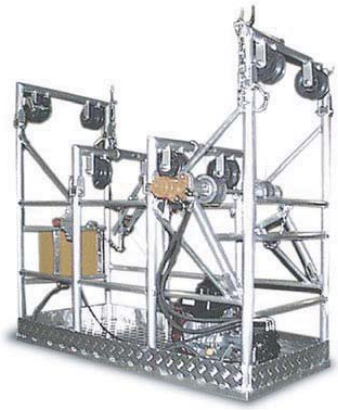
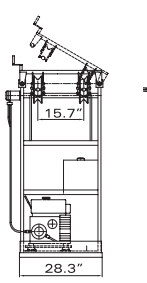
INSPECTION TROLLEYS
Mod. CR

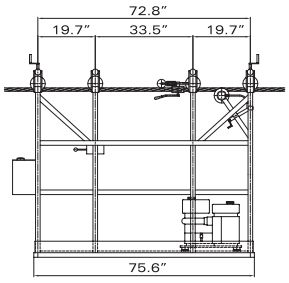
21006030

21006040



21006055





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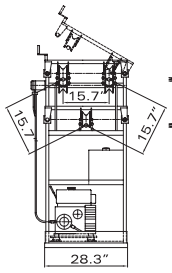

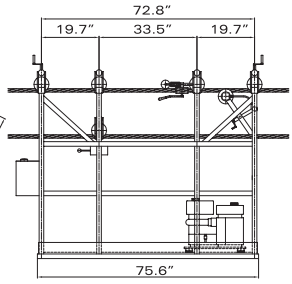

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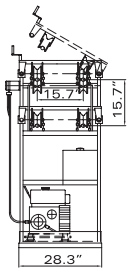

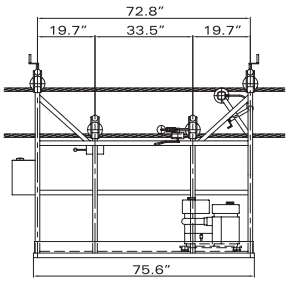

21006055

Aluminum alloy inspection trolleys that allow two persons in erected position to inspect two, three and four bundled conductor lines.
The trolleys are equipped with spacer and insulators surmounting device, stationary brakes, meter counter. Special models with different characteristics can be designed according to customer's needs.

21006035

Inspection trolleys for two bundled conductors lines

Spacing	15 3/4 in
Capacity	562 lbs
Weight	176 lbs

21006030

Inspection trolleys for two bundled conductors lines, motorized version

Weight	243 lbs

ENGINE

Gasoline	4 HP
Cooling system	air
Starting system	by handle

21006045

Inspection trolleys for three bundled conductors lines

Spacing	15 3/4 in
Capacity	562 lbs
Weight	198 lbs

21006040

Inspection trolleys for three bundled conductors lines, motorized version

Weight	265 lbs

ENGINE

Gasoline	4 HP
Cooling system	air
Starting system	by handle

21006050

Inspection trolleys for four bundled conductors lines

Spacing	15 3/4 in
Capacity	562 lbs
Weight	209 lbs

21006055

Inspection trolleys for four bundled conductors lines, motorized version

Weight	276 lbs

ENGINE

Gasoline	4 HP
Cooling system	air
Starting system	by handle

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INSPECTION TROLLEYS
Mod. CRS-CRB

21006010/21006015

The inspection trolley is made of light aluminum alloy and allows one person to inspect single conductor lines.
The 21006015 is provided with a footrest and a stationary brake.

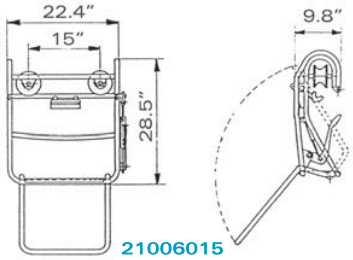
CHARACTERISTICS

	21006010	21006015
Capacity	225 lbs	225 lbs
Weight	15 lbs	29 lbs

OPTIONAL

21006016 Footage counter

21006017 Safety belt



21006015

21006015

21006000

The inspection trolley is made of light aluminum alloy and allows two persons to inspect two bundled conductor lines. It is provided with a footrest and a stationary brake.

Note: Specify the distance between the conductors on the order.

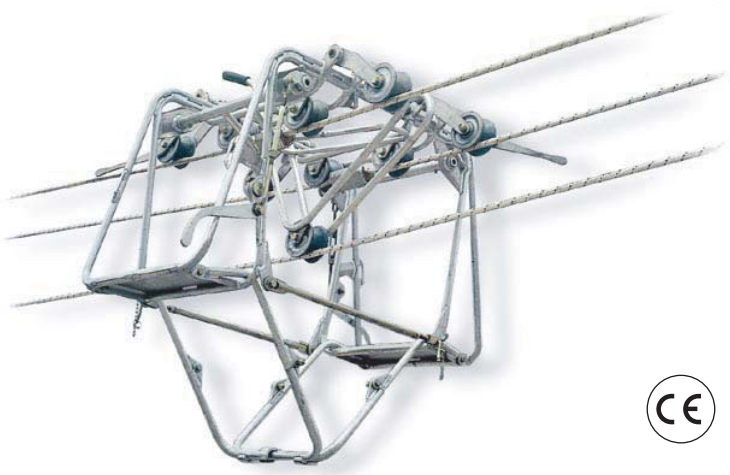
CHARACTERISTICS

Capacity	450 lbs
Weight	95 lbs

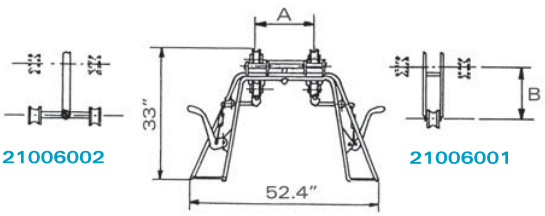
OPTIONAL MODEL

21006001 Device that makes possible to use the trolley with three bundled conductors lines

21006002 Device that makes possible to use the trolley with four bundled conductors lines



21006000 + 21006001



21006002 21006001

21006000

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OVERHEAD LINES BICYCLES
Mod. BI

The bicycles are suitable to fit aircraft warning spheres on single lines and to fit spacers on two, three and four bundled conductor lines.
By pedalling forward the bicycle moves backward in order to provide the operator with necessary working space.
The bicycles are equipped with a disc brake on the driving wheel and with an additional safety clamp, which brakes directly on the conductor.
A footage counter and safety chains are also provided.
For models 21006155 and 21006140 the distance between conductors can be set from 13.77 in up to 23.62 in with pitch of 1.94 in.
Special models with different characteristics can be designed according to customer's needs.

Note: Specify the distance between the conductors on the order

21006100
In alloy-light for single lines

Weight 42 lbs

OPTIONAL

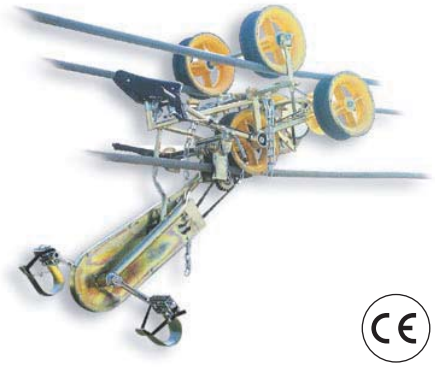
21006105 Basket for working devices

21006155
In alloy-light for two bundled conductor lines

Weight 75 lbs

OPTIONAL

21006156 Basket for working devices

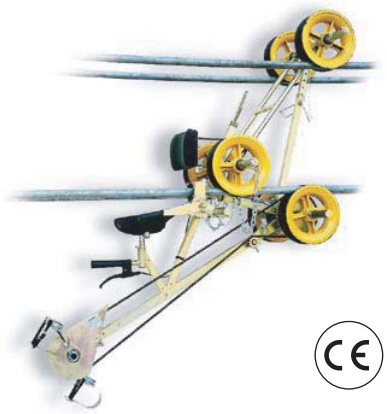


21006120 (l= 15 3/4 in)
21006130 (l= 17 11/16 in)
for three bundled conductor lines

Weight 121 lbs

OPTIONAL

21006126 Basket for working devices



21006140
for four bundled conductor lines

Weight 141 lbs

OPTIONAL

21006141 Basket for working devices

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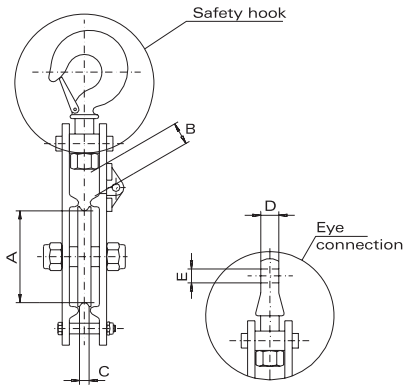
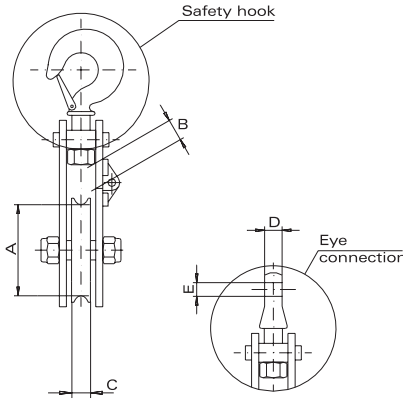
SERVICE SNATCH BLOCKS
Mod. CZA-CZL

The service snatch blocks can be opened at one side. The wheels are mounted on ball bearings.



STEEL SERVICE SNATCH BLOCKS

Swivel connection		Dimensions [in]					Breaking load	Weight [lbs]	
Safety hook connection	Eye connection	A	B	C	D	E	[lbs]	Safety hook connection	Eye connection
21008025	21008030	4	19/16	9/16	13/16	11/16	20000	11	11
21008000	21008005	5	19/16	9/16	11/16	13/16	40000	21	19
21008010	21008040	7	23/16	13/16	13/16	1	56000	26.5	26.5



ALUMINUM ALLOY SERVICE SNATCH BLOCKS

Swivel connection		Dimensions [in]					Breaking load [lbs]	Weight [lbs]
Safety hook connection	Eye connection	A	B	C	D	E		Sagety hook and eye connection
21008050	21008055	3	13/16	7/8	9/16	11/16	6700	4
21008060	21008065	5	19/16	1	5/8	11/16	13000	6

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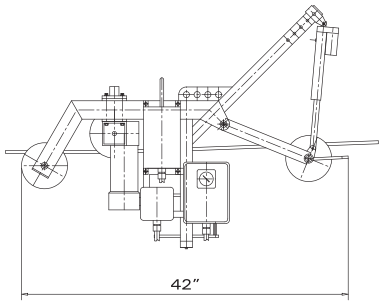
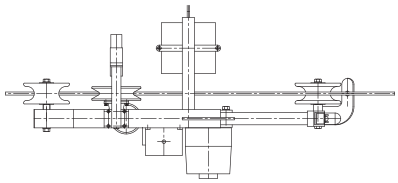
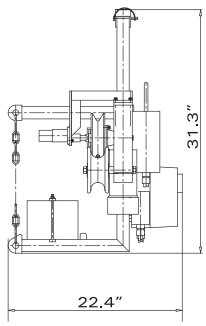
TRACTION MACHINE
Mod. ABR 037
Condux Part # 21006175

The traction machine is made of light alloy with two nylatron wheels and one aluminum vulcanized lining wheel.
The machine is powered by an electric motor and it is designed for the traction of the fiber optic trolleys mod. 21008070.
The machine is equipped with an un-lock device to recover it in case of stop in bay.
The machine needs a radio control as per the model here below.







Weight = 62 lbs

PERFORMANCE

Max traction force	56 lbs
Max slope	15° -26%
Traction max speed	54 ft/min

CHARACTERISTICS

Wheels internal diameter	3 in
Max allowable cable diameter	13/16 in

ENGINE

Electric	0,17 HP
Electric system	12V
Autonomy	2h

21006176

RADIO CONTROL

21006176

Made of:
- palmar push-button transmission up to 820 ft with extractable on-off driver and key
- stop button
- start/clacson button
- 6 buttons
- 1 lever selector
- receiver
- battery charge
- 2 extractable rechargeable batteries

Weight (button panel)	1 lbs

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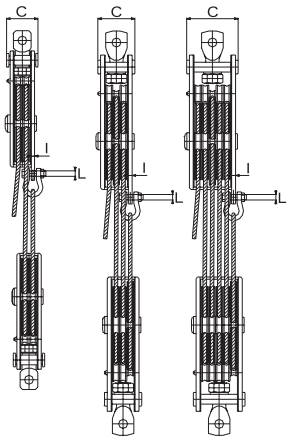
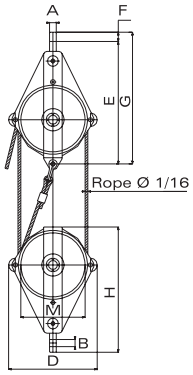
LIFTING TACKLES
Mod. TAP

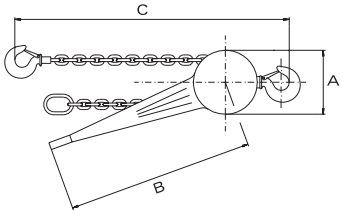




The lifting tackles are suitable for Ø 35 in steel rope; the wheels are mounted on ball bearings.
The frame is made of galvanized steel.

Part Number	Dimensions [in]											Breaking load	Weight
	A	B	C	D	E	F	G	H	I	L	M	[lbs]	[lbs]
21008075	7/8	13/16	25/8	91/2	131/8	13/16	137/8	131/16	5/16	7/16	71/16	33000	37
21008080	7/8	14/16	33/8	119/16	1415/16	11/8	161/16	153/16	3/8	5/8	71/16	56000	40
21008085	7/8	1	43/4	119/16	1515/16	13/8	175/16	165/16	3/8	7/16	71/16	90000	93

LIFTING HOIST
Mod. PAX



The lifting hoists are made of steel and equipped with mechanical brake; they are designed to facilitate and accelerate chain positioning operations. Chains with different lengths are available on request.

Part Number	Dimensions [in]			Hook travel	Pulling force with full load	Capacity	Weight
	A	B	C min	[ft]	[lbs]	[lbs]	[lbs]
21008100	6	11	11	4.9	45	1700	15
21008110	6	11	11	9.8	45	1700	20
21008120	6	11	11	19.7	45	1700	31
21008200	6	16	14	4.9	47	3400	24
21008210	6	16	14	9.8	47	3400	31
21008220	6	16	14	19.7	47	3400	44
21008300	7	16	19	4.9	74	6700	44
21008310	7	16	19	9.8	74	6700	40
21008320	7	16	19	19.7	74	6700	93
21008400	9	16	23	4.9	79	13500	66
21008410	9	16	23	9.8	79	13500	82
21008420	9	16	23	197	79	13500	114

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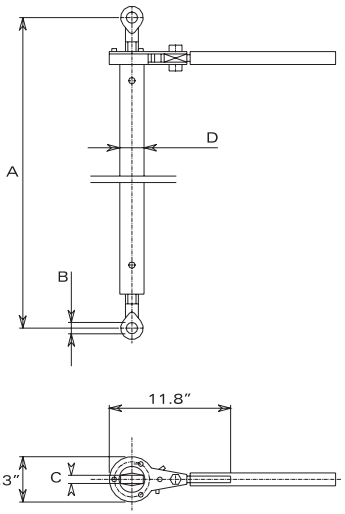
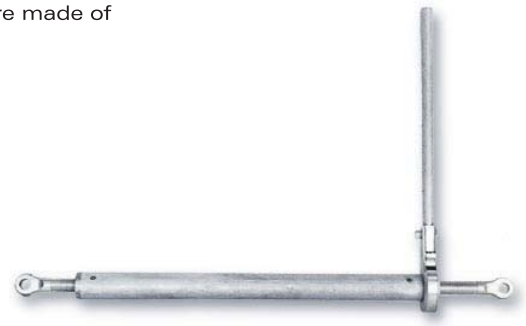
RATCHET TURNBUCKLES
Mod. TCT



The ratchet turnbuckles are made of galvanized steel.



Part Number	Dimensions [in] A min.	A max.	B	C	D	Breaking load [lbs]	Weight [lbs]
21008430	23	36	11/16	13/16	2	20000	20
21008440	26	42	13/16	15/16	21/8	40000	26
21008450	37	61	7/8	7/8	23/8	67000	33
21008460	54	94	7/8	7/8	23/8	67000	49

TIRFOR
Mod. TFX

The Tirfor units are designed to stretch or lift ropes, conductors or weights.

Part Number	Lifting [lbs]	Pulling capacity [lbs]	Rope Ø capacity [in]	A [in]	B [in]	Breaking load [lbs]	Weight [lbs]
21008500	1800	2000	5/16	20	11	10800	15
21008510	3600	5600	7/16	21	12	21600	30
21008520	7200	11000	5/8	26	14	43000	52

ROPE FOR TIRFOR
Mod. TDF

Part Number	Rope length [ft]	Rope Ø [in]	Breaking load [lbs]
21008525	32	5/16	10800
21008530	32	7/16	21600
21008535	32	5/8	43000
21008540	65	5/16	10800
21008545	65	7/16	21600
21008550	65	5/8	43000
21008555	98	5/16	10800
21008560	98	7/16	21600
21008565	98	5/8	43000
21008570	131	5/16	10800
21008575	131	7/16	21600
21008580	131	5/8	43000

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CONDUX

UNIVERSAL STRETCHER (TIRVIT)
Mod. TVX

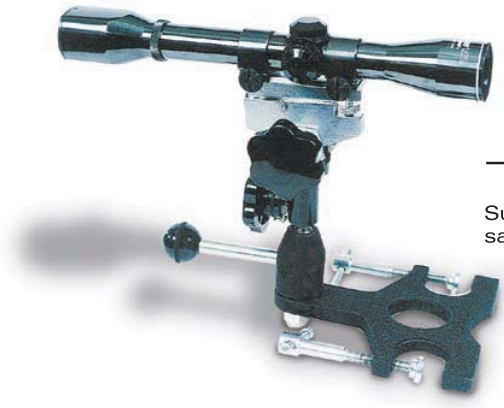
These devices are composed by 2 self-gripping clamps for tensioning cables and conductors.

Part Number	Cable Ø [in]	Max pull [lbs]	Weight [lbs]	Additional bench	Anchor cable
21008470	1/16 - 5/16	900	8	21008472	21008474
21008480	1/4 - 9/16	1300	11	21008482	21008484
21008490	9/16 - 3/4	1800	13	21008492	21008494

SHEARS
Mod. TN

These devices are suitable for cutting ropes or conductors.

Part Number	Ø max steel ropes R = 2.8 kN/mm² [in]	Ø max conductors aluminum-steel/aluminum/copper [in]	Type
21005540	13/16	9/16	Hydraulic
21005550	3/8	1/4	Mechanical



ZOOM SAG-SCOPE
Mod. TGP 001
Condux Part # 21005560

Suitable for accurate conductor sag measurements.

Equipped with a special anchoring support for steel tower.

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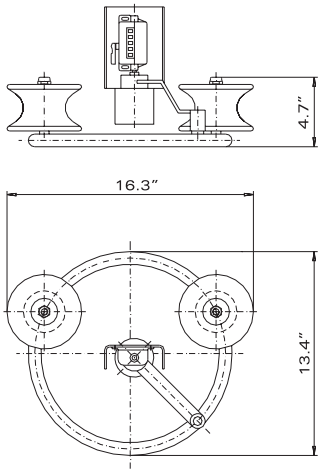
METER COUNTER DEVICE
Mod. DLC 001
Condux Part # 21005570

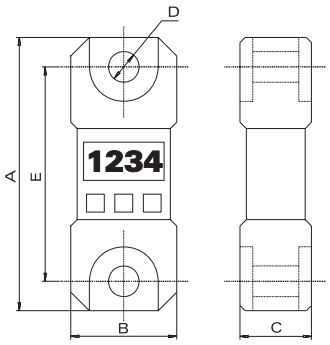


This device is suitable to measure the length of the conductors or the stringing ropes.

CHARACTERISTICS

Weight	13 lbs

ELECTRONIC DYNAMOMETERS
Mod. DLE

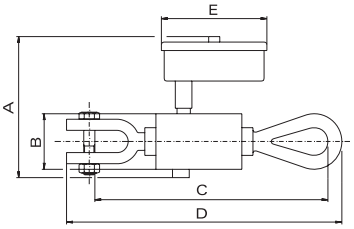


These devices are suitable to measure the force accurately.

Part Number	Capacity [lbs]	Dimensions [in] A	B	C	D	E	Weight [lbs]
21000710	1100	7	3	2	5/8	5	3
21000720	2800	7	3	2	5/8	5	3
21000730	5600	8	3	2	15/16	6	3
21000740	11000	8	3	2	1 1/4	6	4
21000750	28000	12	4	2	1 7/8	7	8
21000760	56000	14	5	2	2 3/16	8	15
21000770	112000	17	6	3	2 13/16	10	33

CE

HYDRAULIC DYNAMOMETER
Mod. DLI 080
Condux Part # 21000780



This device is suitable to measure the force accurately.

Part Number	Capacity [lbs]	Dimensions [in] A	B	C	D	E	Weight [lbs]
21000780	12000	4	2	8 1/4	9 3/4	3 11/16	9

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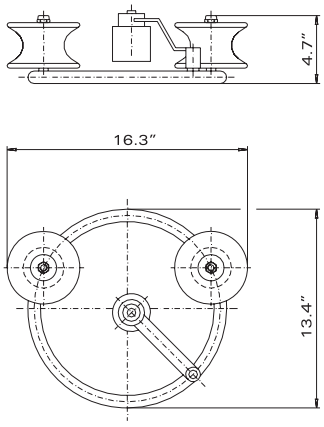
GROUNDING DEVICES
Mod. MT
Condux Part # 21000900

Grounding device designed for ropes and conductors during stringing operations.
It is equipped with a copper grounding wire (1.97 in 2 section, 20 ft long) for connection to the ground.



21000900

CHARACTERISTICS

Weight	13 lbs

Mod. MTF

21000922
for high tension line (130/220 kV)

The device consists of:

- 3 light aluminum alloy screw pliers for clamping conductors with diameter of 3/16 - 1 3/16 in
- 3 lengths of flexible copper rope, insulated with transparent thermoplastic material, section 1x1 15/16 in^2, total length of 19.7 ft each
- 3 ground clamps
- 1 high insulating fiber glass stick, total length 9.9 ft

21000924
for extra high tensions line (400/500 kV)

The device consists of:

- 3 light aluminum alloy screw pliers for clamping conductors with diameter of 3/16 - 2 3/8 in
- 3 lengths of flexible copper rope, insulated with transparent thermoplastic material, section 1x1 15/16 in^2, total length of 19.7 ft each
- 3 ground clamps
- 1 high insulating fiber glass stick total length 14.8 ft

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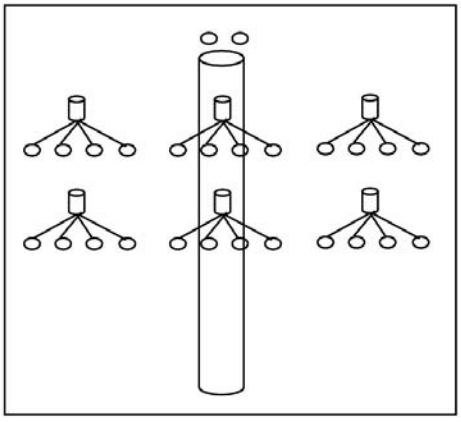
❑ **New Construction** ❑ **Re-Conductor** ❑ **ACSR**
❑ **ACSS** ❑ **T-2** ❑ **OPGW**

Please Quote:

❑ **Puller-Tensioner** ❑ **Puller** ❑ **Tensioner** ❑ **Hard-Line/Rope**

❑ **Blocks** ❑ **Swivels** ❑ **Grips/Clamps** ❑ **Rolling Ground**

*Gound Wires _____ (1 or 2)
*Number Circuits _____
*Conductors per Phase _____ (1,2,3 or 4
Total # Conductors



*Conductor Code Name _____
Available Site Power _____ Hydraulic or Electric
*Tower Height _____ ft.
*Span Between Towers _____ ft
*SAG _____ ft.
*Conductor Length per Reel _____ ft.
*Reel Width _____ in.
*Reel Diameter _____ in.
Max Pull Distance _____ ft.
*AVG Pull Distance _____ ft.
*Number of Phases per Pull _____
*Pull Type _____ Helicopter/Ground
*Pulley Liner _____ Nylon / Neoprene
Final Conductor Tension _____ lbs.force
*# Construction Crews _____
*Required

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