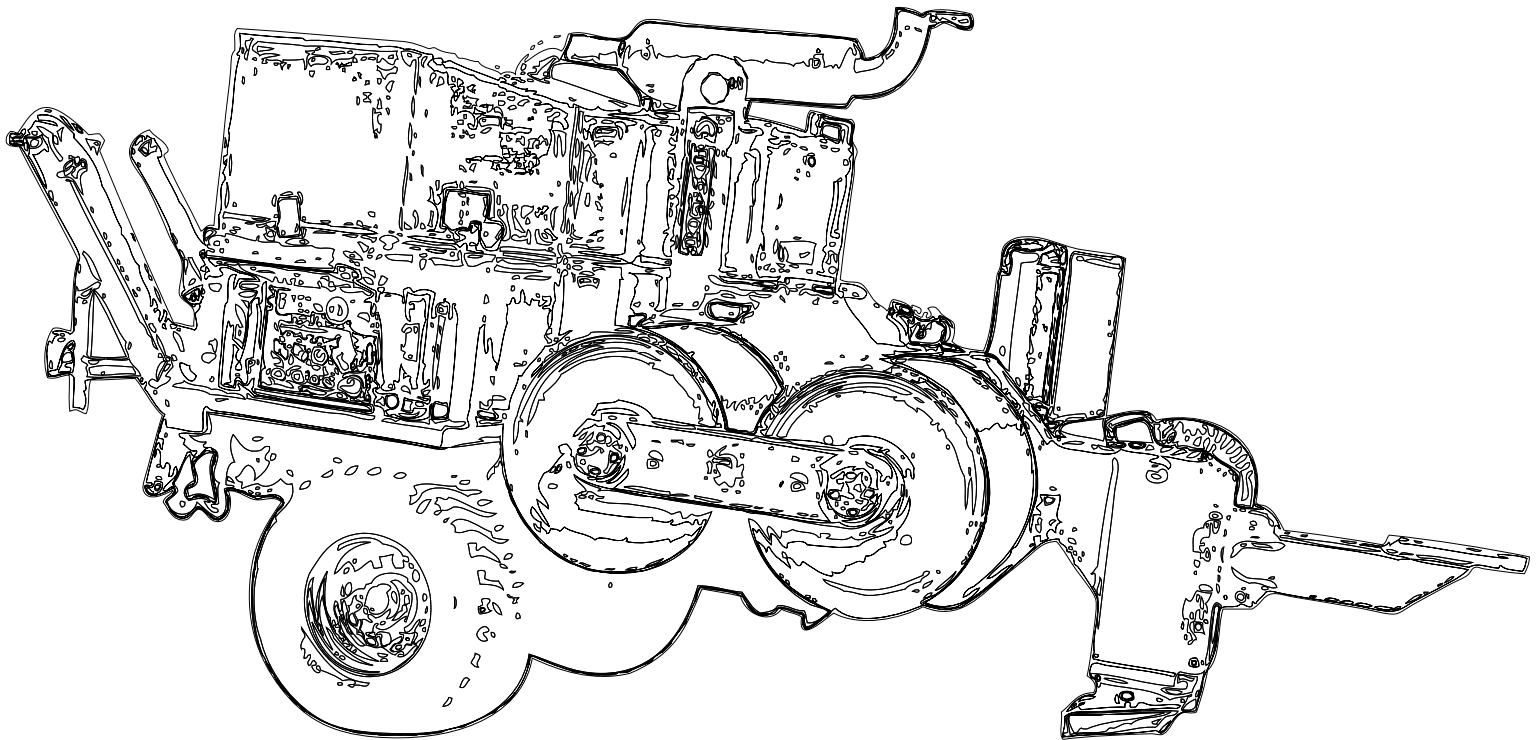


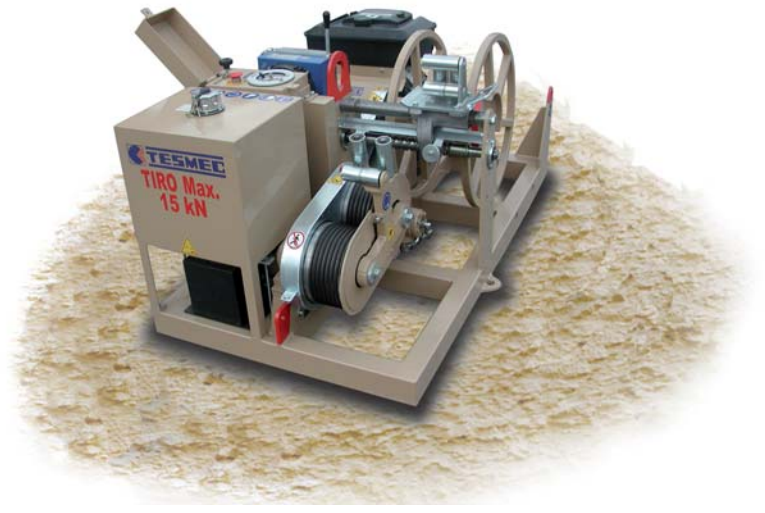
# PULLERS



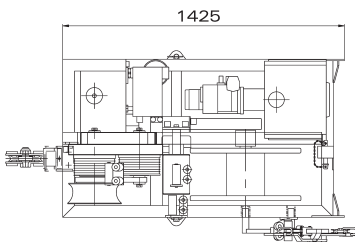
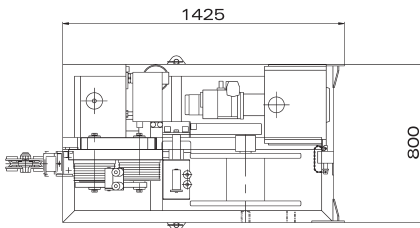
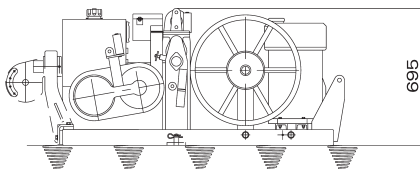
**enia**  
energy networks & industrial applications

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15231 Χαλάνδρι  
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The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel



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ISO 9001:2008



## PERFORMANCE

Max pull	15 kN
Speed at max pull	0.7 km/h
Max speed	3.6 km/h
Pull at max speed	4 kN

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

## CHARACTERISTICS

Bull-wheel diameter	200 mm
Max rope diameter	8 mm
Mass (without rope)	500 kg

## ENGINE

Gasoline	13 kW (18 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 and special reel for 500 m of Ø 8 mm rope

## ADDITIONAL DEVICES

- 102** Pulling rope locking device when capstan is used (compulsory for EC market)
- 105** Rigid axle and towing bar detachable, for manual towing
- 107** Capstan (diameter=220 mm equipped with guide rope rollers)
- 111** Cable guide pivot pulley suitable for work in manhole and into ditch
- 112** Type approved trailer for towing at max speed of 80 km/h with mechanical parking brake. Towing bar with inertial braking system and towing hook, caravan type and eye hook Ø 40 mm. Lighting system trailer

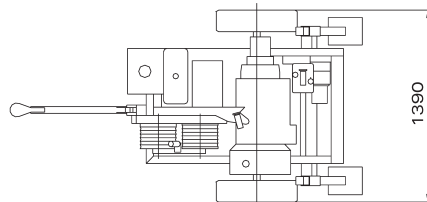
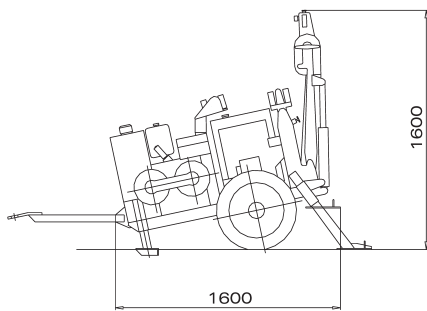
ALL 111



The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel



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## PERFORMANCE

Max pull	25 kN
Speed at max pull	1.4 km/h
Max speed	3.5 km/h
Pull at max speed	10 kN

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

## CHARACTERISTICS

Bull-wheel diameter	250 mm
Max rope diameter	10 mm
Mass	700 kg

## ENGINE

Diesel	25 kW (34 hp)
Cooling system	water
Electrical system	12 V

## 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 30 km/h

Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020

Pull pre-setting system

Equipment for electronic stringing parameter recorder

Mechanical actuated front plough stabiliser

Grounding device on board

## ADDITIONAL DEVICES

- 110** Rod with roller device for underground cables
- 111** Cable guide pivot pulley suitable for work in manhole and into ditch
- 112** Type approved trailer for towing at max speed of 80 km/h with mechanical parking brake. Towing bar with inertial braking system and towing hook, caravan type and eye hook Ø 40 mm. Lighting system trailer

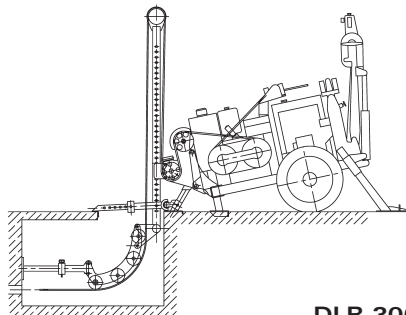
**AXR 001** Extra shaft

**DLR 300** Electronic pull and speed recorder

## HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions

## ALL 110



**DLR 300**



## ALL 111



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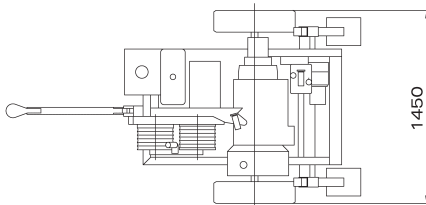
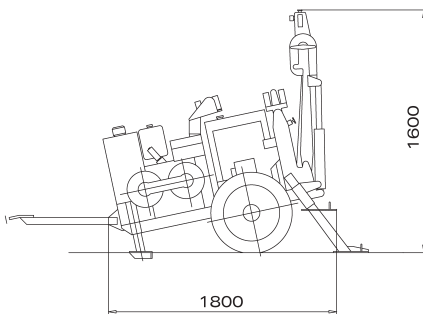
**Manufacturing facilities**  
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90 g

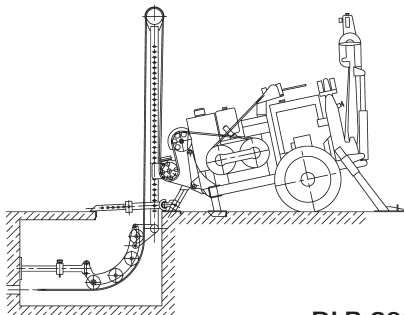
The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel



Certified Quality System  
ISO 9001:2008



## ALL 110



DLR 300



## PERFORMANCE

Max pull	35 kN
Speed at max pull	1.2 km/h
Max speed	3.6 km/h
Pull at max speed	12 kN

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

## CHARACTERISTICS

Bull-wheel diameter	325 mm
Max rope diameter	13 mm
Mass	850 kg

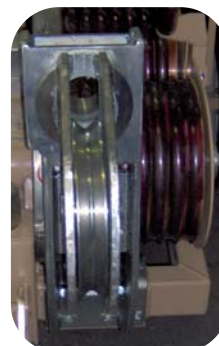
## ENGINE

Diesel	25 kW (34 hp)
Cooling system	water
Electrical system	12 V

## HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating directions

## ALL 111



## 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 30 km/h

Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020

Pull pre-setting system

Equipment for electronic stringing parameter recorder

Mechanical actuated front plough stabiliser

Grounding device on board

## ADDITIONAL DEVICES

**110** Rod with roller device for underground cables

**111** Cable guide pivot pulley suitable for work in manhole and into ditch

**112** Type approved trailer for towing at max speed of 80 km/h with mechanical parking brake.  
Towing bar with inertial braking system and towing hook, caravan type and eye hook Ø 40 mm.  
Lighting system trailer

**AXR 001** Extra shaft

**DLR 300** Electronic pull and speed recorder

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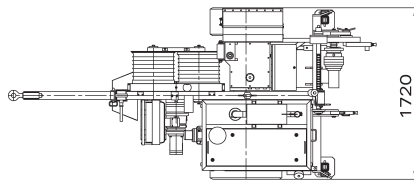
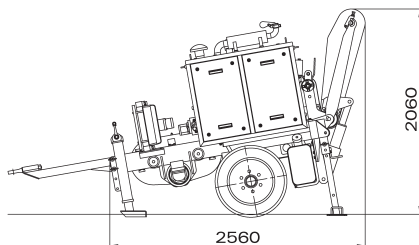
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The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel.  
The machine is completely electronically controlled



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## PERFORMANCE

Max pull	45 kN
Speed at max pull	2 km/h
Max speed	5 km/h
Pull at max speed	17.5 kN

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

## CHARACTERISTICS

Bull-wheel diameter	400 mm
Max rope diameter	16 mm
Mass	2000 kg

## ENGINE

Diesel	48 kW (64 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

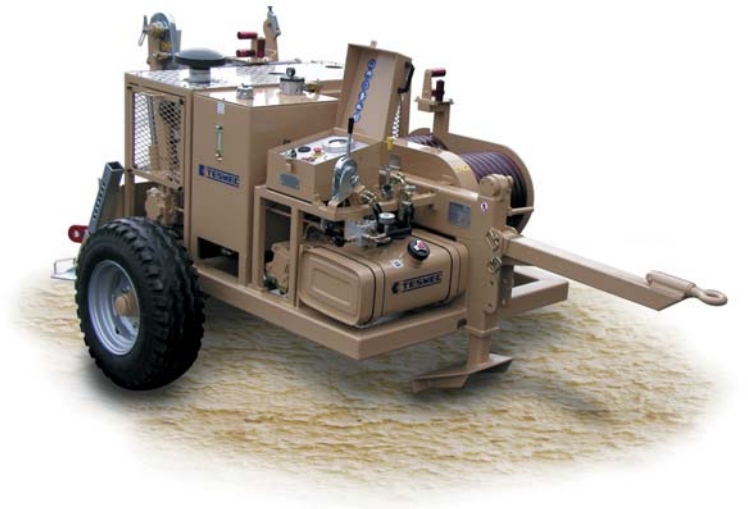
## CONFIGURATION

- Negative self-acting hydraulic brake
- Hydraulic dynamometer with set-point and automatic control of maximum pull
- Hydraulic oil cooling system
- Control instruments for hydraulic system and Diesel engine
- Rigid axle for towing at max speed of 30 km/h with mechanical parking brake
- Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020
- Equipment for electronic stringing parameter recorder
- Mechanical actuated front plough stabiliser
- Grounding device on board

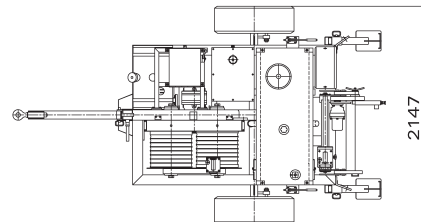
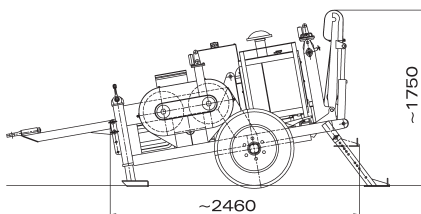
## ADDITIONAL DEVICES

- 037** Preheating device for use up to -30° C
- 051** Equipment for remote control via cable (max. L. 15 m)
- 059** Equipment for radio control
- 071** Hydraulically actuated pulling rope clamp for reel change operation
- AXR 001** Extra shaft
- DLR 300** Electronic pull and speed recorder

The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel



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## PERFORMANCE

Max pull	70 kN
Speed at max pull	1.8 km/h
Max speed	4 km/h
Pull at max speed	32 kN

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

## CHARACTERISTICS

Bull-wheel diameter	400 mm
Max rope diameter	16 mm
Mass	2100 kg

## ENGINE

Diesel	60 kW (81 hp)
Cooling system	water
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

Hydraulic oil cooling system

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 30 km/h

Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020

Pull pre-setting system

Equipment for electronic stringing parameter recorder

Mechanical actuated front plough stabiliser

Grounding device on board

## ADDITIONAL DEVICES

**037** Preheating device for use up to -30° C

**071** Hydraulically actuated pulling rope clamp for reel change operation

**111** Cable guide pivot pulley suitable for work in manhole and into ditch

**AXR 001** Extra shaft

**DLR 300** Electronic pull and speed recorder

## ALL 111



## DLR 300



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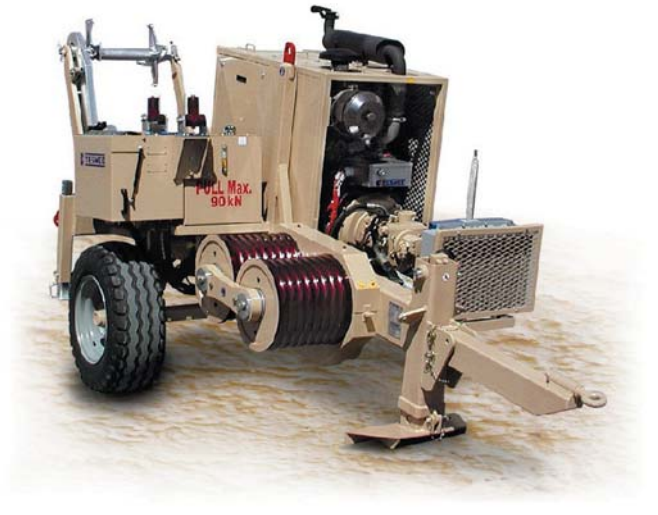
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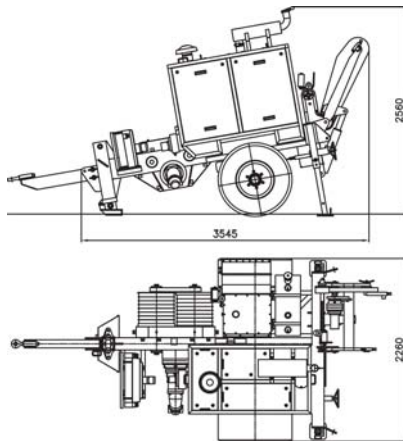
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The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel.  
The machine is completely electronically controlled



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## PERFORMANCE

Max pull	90 kN
Speed at max pull	2.4 km/h
Max speed	5 km/h
Pull at max speed	44 kN

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

## CHARACTERISTICS

Bull-wheel diameter	450 mm
Max rope diameter	18 mm
Mass	3250 kg

## ENGINE

Diesel	104 kW (140 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

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 30 km/h with mechanical parking brake

Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020

Equipment for electronic stringing parameter recorder

Hydraulically actuated front plough stabiliser

Grounding device on board

## ADDITIONAL DEVICES

**037** Preheating device for use up to -30° C

**051** Equipment for remote control via cable (max. L. 15 m)

**059** Equipment for radio control

**071** Hydraulically actuated pulling rope clamp for reel change operation

**089** Connection of multiple machines and electronic speed synchronizing system

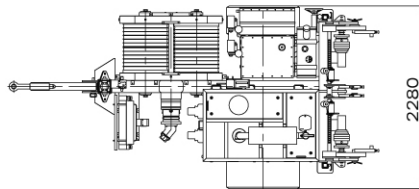
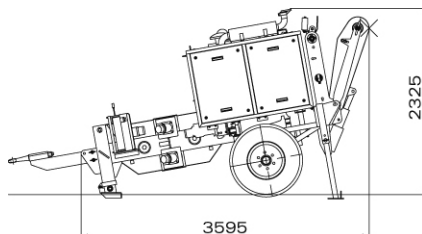
**AXR 001** Extra shaft

**DLR 300** Electronic pull and speed recorder

The machine is suitable to string one or two independent ropes. The bull-wheel grooves are made of thermally treated steel



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## PERFORMANCE

Max pull	2 x 40 kN or 1 x 80 kN
Speed at max pull	2.4 km/h
Max speed	5 km/h
Pull at max speed	2 x 15 kN or 1 x 30 kN

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

## CHARACTERISTICS

Bull-wheel diameter	540 mm
Max rope diameter	18 mm
Mass	4500 kg

## ENGINE

Diesel	82 kW (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 30 km/h with mechanical parking brake
- 2 built-in self-loading reel winders with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020
- Equipment for electronic stringing parameter recorder
- Hydraulically actuated front plough stabiliser
- Grounding device on board

## ADDITIONAL DEVICES

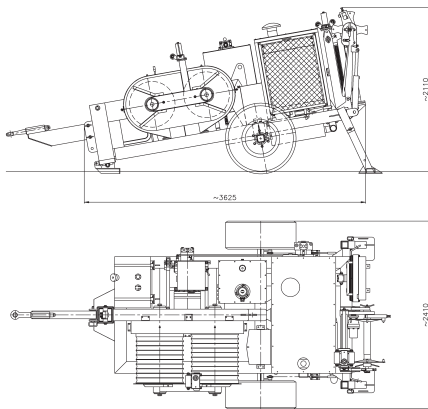
- 037** Preheating device for use up to -30° C
- 051** Equipment for remote control via cable (max. L. 15 m)
- 059** Equipment for radio control
- 071** 2 hydraulically actuated pulling rope clamps for reel change operation
- AXR 001** Extra shaft
- DLR 300** Electronic pull and speed recorder



The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel



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## PERFORMANCE

Max pull	140 kN
Speed at max pull	2 km/h
Max speed	4,5 km/h
Pull at max speed	60 kN

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

## CHARACTERISTICS

Bull-wheel diameter	600 mm
Max rope diameter	24 mm
Mass	4800 kg

## ENGINE

Diesel	129 kW (173 hp)
Cooling system	water
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

Hydraulic oil cooling system

Control instruments for hydraulic system and Diesel engine

Rigid axle for towing at max speed of 30 km/h

Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 020

Pull pre-setting system

Equipment for electronic stringing parameter recorder

Hydraulically actuated front plough stabiliser

Grounding device on board

## ADDITIONAL DEVICES

**037** Preheating device for use up to -30° C

**071** Hydraulically actuated pulling rope clamp for reel change operation

**111** Cable guide pivot pulley suitable for work in manhole and into ditch

**AXR 001** Extra shaft

**DLR 300** Electronic pull and speed recorder

## ALL 111



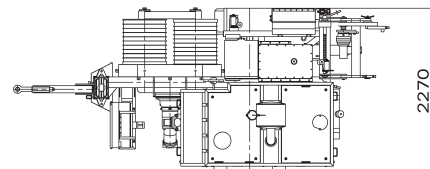
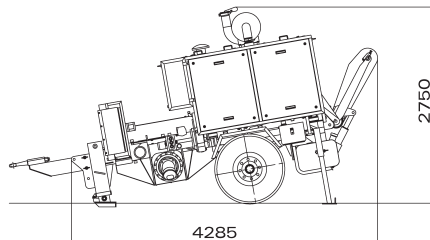
## DLR 300



The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel.  
The machine is completely electronically controlled



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### PERFORMANCE Mod. ARS 700

Max pull	160 kN
Speed at max pull	2.5 km/h

Max speed	5 km/h
Pull at max speed	80 kN

### PERFORMANCE Mod. ARS 701

Max pull	180 kN
Speed at max pull	2.2 km/h

Max speed	5 km/h
Pull at max speed	80 kN

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

### CHARACTERISTICS

Bull-wheel diameter	600 mm
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Max rope diameter	24 mm
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Mass	6000 kg
------	---------

### ENGINE

Diesel	209 kW (280 hp)
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Cooling system	water
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Electrical system	24 V
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### 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 30 km/h with mechanical parking brake  
Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020  
Hydraulically actuated front plough stabiliser  
Grounding device on board

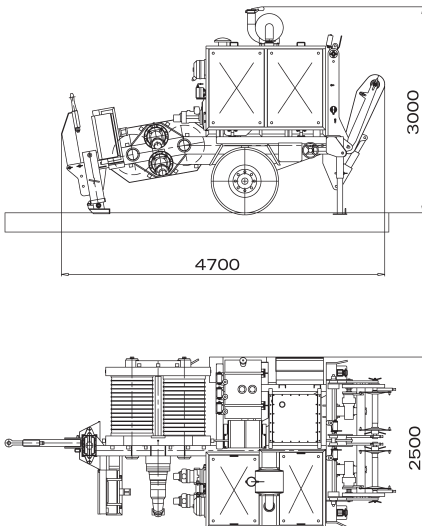
### ADDITIONAL DEVICES

- 001** Lighting system for the trailer
- 002** Pneumatic brake system for the trailer
- 010** Hydraulic power pack to control a separate reel winder
- 022** Hydraulic quick connectors to control a separate reel winder instead of the built-in one
- 037** Preheating device for use up to -30° C
- 051** Equipment for remote control via cable (max. L. 15 m)
- 053** Equipment for electronic stringing parameter recorder
- 059** Equipment for radio control
- 070** Roller device for second pulling rope
- 071** Hydraulically actuated pulling rope clamp for reel change operation
- 089** Connection of multiple machines and electronic speed synchronizing system
- AXR 001** Extra shaft
- DLR 300** Electronic pull and speed recorder

The machine is suitable to string one or two independent ropes. The bull-wheel grooves are made of thermally treated steel. The machine is completely electronically controlled



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### PERFORMANCE Mod. ARB 600

Max pull	2 x 75 kN or 1 x 150 kN
Speed at max pull	2.6 km/h
Max speed	4.5 km/h
Pull at max speed	2 x 45 kN or 1 x 90 kN

### PERFORMANCE Mod. ARB 707

Max pull	2 x 90 kN or 1 x 180 kN
Speed at max pull	2.2 km/h
Max speed	4.5 km/h
Pull at max speed	2 x 45 kN or 1 x 90 kN

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

### CHARACTERISTICS

Bull-wheel diameter	600 mm
Max rope diameter	24 mm
Mass	8500 kg

### ENGINE

Diesel	209 kW (280 hp)
Cooling system	water
Electrical system	24 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

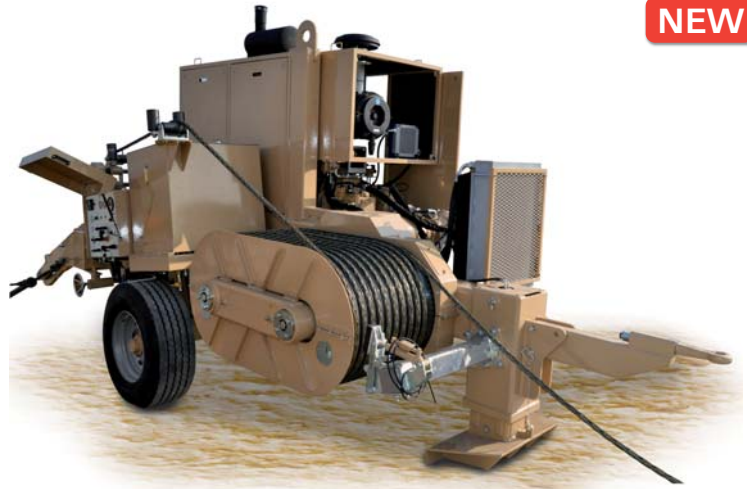
- 2 negative self-acting hydraulic brakes
- 2 hydraulic dynamometers with set-point and automatic control of maximum pull
- Hydraulic oil cooling system
- Control instruments for hydraulic system and Diesel engine
- Rigid axle for towing at max speed of 30 km/h with mechanical parking brake
- 2 built-in self-loading reel winders with automatic level wind, suitable for standard reel mod. BOF 010 and BOF 020
- Hydraulically actuated front plough stabiliser
- Grounding device on board

### ADDITIONAL DEVICES

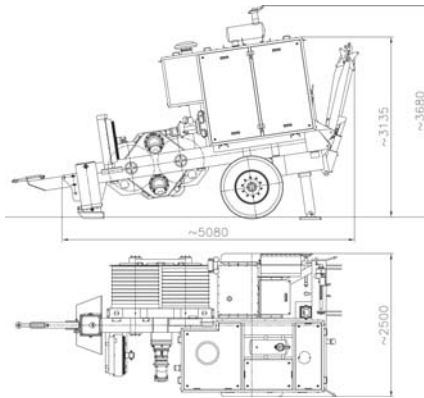
- 001** Lighting system for the trailer
- 002** Pneumatic brake system for the trailer
- 037** Preheating device for use up to -30° C
- 051** Equipment for remote control via cable (max. L. 15 m)
- 053** Equipment for electronic stringing parameter recorder
- 059** Equipment for radio control
- 071** 2 hydraulically actuated pulling rope clamps for reel change operation
- AXR 001** Extra shaft
- DLR 300** Electronic pull and speed recorder

**NEW**

The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel.  
The machine is completely electronically controlled



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## PERFORMANCE

Max pull	240 kN
Speed at max pull	2.5 km/h
Max speed	4.5 km/h
Pull at max speed	130 kN

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

## CHARACTERISTICS

Bull-wheel diameter	800 mm
Max rope diameter	32 mm
Mass	9500 kg

## ENGINE

Diesel	280 kW (375 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 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

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 30 km/h with mechanical parking brake

Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 020 and BOF 030

Hydraulically actuated front plough stabiliser

Grounding device on board

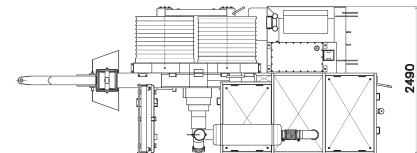
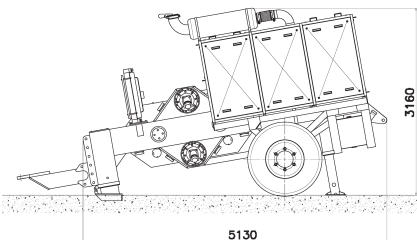
## ADDITIONAL DEVICES

- 001** Lighting system for the trailer
- 002** Pneumatic brake system for the trailer
- 010** Hydraulic power pack to control a separate reel winder
- 022** Hydraulic quick connectors to control a separate reel winder instead of the built-in one
- 037** Preheating device for use up to -30° C
- 051** Equipment for remote control via cable (max. L. 15 m)
- 053** Equipment for electronic stringing parameter recorder
- 059** Equipment for radio control
- 070** Roller device for the second pulling rope
- 071** Hydraulically actuated pulling rope clamp for reel change operation
- 089** Connection of multiple machines and electronic speed synchronizing system
- AXR 002** Extra shaft
- DLR 300** Electronic pull and speed recorder

The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel.  
The machine is completely electronically controlled



Certified Quality System  
ISO 9001:2008



## PERFORMANCE

Max pull	280 kN
Speed at max pull	2.2 km/h
Max speed	5 km/h
Pull at max speed	117 kN

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

## CHARACTERISTICS

Bull-wheel diameter	960 mm
Max rope diameter	38 mm
Mass	13500 kg

## ENGINE

Diesel	328 kW (440 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 30 km/h with mechanical parking brake

Built-in self-loading reel winder with automatic level wind, suitable for standard reel mod. BOF 020 and BOF 030

Hydraulically actuated front plough stabiliser

Grounding device on board

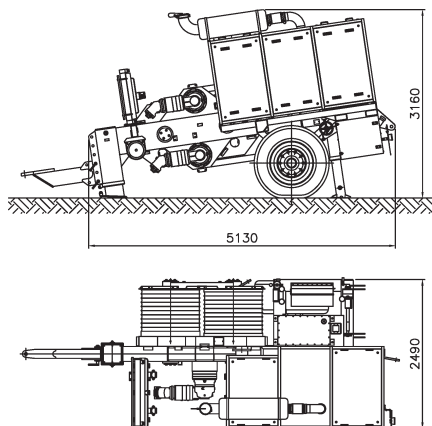
## ADDITIONAL DEVICES

- 001** Lighting system for the trailer
- 002** Pneumatic brake system for the trailer
- 010** Hydraulic power pack to control a separate reel winder
- 022** Hydraulic quick connectors to control a separate reel winder instead of the built-in one
- 037** Preheating device for use up to -30° C
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- 053** Equipment for electronic stringing parameter recorder
- 059** Equipment for radio control
- 070** Roller device for the second pulling rope
- 071** Hydraulically actuated pulling rope clamp for reel change operation
- AXR 002** Extra shaft
- DLR 300** Electronic pull and speed recorder

The machine is suitable to string one rope.  
The bull-wheel grooves are made of thermally treated steel.  
The machine is completely electronically controlled



Certified Quality System  
ISO 9001:2008



## PERFORMANCE

Max pull	360 kN
Speed at max pull	2 km/h
Max speed	4,3 km/h
Pull at max speed	160 kN

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

## CHARACTERISTICS

Bull-wheel diameter	960 mm
Max rope diameter	38 mm
Mass	14000 kg

## ENGINE

Diesel	328 kW (440 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 presetting 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 30 km/h with mechanical parking brake

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Hydraulically actuated front plough stabiliser

Grounding device on board

## ADDITIONAL DEVICES

- 001** Lighting system for the trailer
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**AXR 002** Extra shaft

**DLR 300** Electronic pull and speed recorder