ESSENTIAL MACHINES





INDEX

ESSENTIAL MACHINES						
CODE	PULL RANGE (KN)	LAYOUT	BULL WHEEL DIAMETER (mm)	GROOVES NUMBER(kN)	ENGINE POWER (kW)	
ARS522	50	Single	400	7	60	5.10
ARS519	70	Single	400	7	60	5.15
ARS500	90	Single	450	10	104	5.20
ARS612	140	Single	600	10	129	5.25
ARS700/701	160/180	Single	600	10	209	5.30
FRS404	40	Single	1500	8	25	5.35
FRS531	75	Single	1500	10	25	5.40
FRS615	140	Single	1500	16	48	5.45
FRB600	2x75	Twin	1500	20	48	5.50



ESSENTIAL MACHINES

The basic solutions

The essential machines are one of the solutions supplied by Tesmec for new line constructions.

This is the most basic and light solution, with few or no electronic components at all. The quality of these machines is tested by several years of employment on different jobsites, in every weather condition from Russia to Saudi Arabia.

The machines are extra CE/EPA, except for the pullers ARS500 and ARS700 available also in CE/ EPA version.

ESSENTIAL MACHINES: OUR VALUE PROPOSITION









THE STANDARD RANGE

Basic machines for line construction

Besides the technological improvemets developed to reach the top quality level of Stringing Machines 4.0, Tesmec keeps a light range of machines, mainly for extra CE & EPA Countries. These machines are the example of a reliable evergreen design.

TRADITIONAL USE & MAINTENANCE

Mechanical machines

The main feature of these machines is the absence or a limited use of electronic components.

This means a traditional use and maintenance of the machines: a basic and light range, simple and user friendly.

ARS522 HYDRAULIC PULLER



TEEMEL



PERFORMANCE*

Max pull	50 kN
Speed at max pull	2.5 km/h
Max speed	5 km/h
Pull at max speed	25 kN

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	400 mm
Bull-wheel material	STEEL
Max rope diameter	16 mm
Weight	2050 kg
Number of grooves	7
Suitable for	1 rope
Layout	Single

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 Control instruments for hydraulic system and Diesel engine Rigid axle 30 km/h On board reel winder with automatic level wind, suitable for standard reel mod. BOF010 and BOF020 (AXR001 included) Electronic pull and speed recorder kit (instrument not included) Pull pre-setting system Mechanical front stabiliser Grounding connection point

AVAILABLE DEVICES

ALL037	Preheating device for use up to -30°C
ALL071	Hydraulic rope clamp for reel change operations
ALL111	Swivel guide rope roller
AXR001	Extra shaft
DLR300	Electronic pull and speed recorder





DLR300

2530



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ISO 9001:2015

ISO 14001:2015

Certified Health & Safety Syster ISO 45001:2018

ARS519



HYDRAULIC PULLER \bigcirc ROPE DIAMETER MAX PULL MAX SPEED 70 kN 4 km/h 16 mm EXTRA CE/EPA LIGHT & SIMPLE COMPLETELY ELECTRONICALLY CONTROLLED

PERFORMANCE*

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

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	400 mm
Bull-wheel material	STEEL
Max rope diameter	16 mm
Weight	2100 kg
Number of grooves	7
Suitable for	1 rope
Layout	Single

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. 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 occur which may occur.

CONFIGURATION

Negative self-acting hydraulic brake Hydraulic dynamometer with set-point and automatic control of maximum pull Control instruments for hydraulic system and Diesel engine Rigid axle 30 km/h On board reel winder with automatic level wind, suitable for standard reel mod. BOF010 and BOF020 (AXR001 included) Electronic pull and speed recorder kit (instrument not included) Pull pre-setting system Mechanical front stabiliser Grounding connection point



AVAILABLE DEVICES

ALL037	Preheating device for use up to -30°C
ALL051	Cable remote control kit (instrument not included)
AXC005	Cable remote control (15 m range)
ALL059	Radio remote control kit (instrument not included)
AXH007	Radio remote control (150 m range)
ALL071	Hydraulic rope clamp for reel change operations
ALL111	Swivel guide rope roller
AXR001	Extra shaft
DLR300	Electronic pull and speed recorder





ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

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ESSENTIAL MACHINES

ARS500 HYDRAULIC PULLER





PERFORMANCE*

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

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	450 mm
Bull-wheel material	STEEL
Max rope diameter	18 mm
Weight	3800 kg
Number of grooves	10
Suitable for	1 rope
Layout	Single

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 unpurported loads according to the friction and unexpected loads which may occur.

CONFIGURATION

Negative self-acting hydraulic brake Hydraulic dynamometer with set-point and automatic control of maximum pull Control instruments for hydraulic system and Diesel engine Rigid axle 30 km/h On board reel winder with automatic level wind, suitable for standard reel mod. BOF010 and BOF020 (AXR001 included) Mechanical front stabiliser

Grounding connection point

AVAILABLE DEVICES

ALL037	Preheating device for use up to -30°C	
ALL051	Cable remote control kit (instrument not included)	
AXC005	Cable remote control (15 m range)	
ALL053	Electronic pull and speed recorder kit (instrument not included)	
ALL059	Radio remote control kit (instrument not included)	
AXH007	Radio remote control (150 m range)	
ALL071	Hydraulic rope clamp for reel change operations	
ALL089	Electronic arrangement for connection of multiple machines and for stringing synchronization	
AXR001	Extra shaft	
DLR300	Electronic pull and speed recorder	







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ISO 45001:2018

ARS612





PERFORMANCE*

Max pull	140 kN
Speed at max pull	2 km/h
Max speed	4.5 km/h
Pull at max speed	60 kN

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	600 mm
Bull-wheel material	STEEL
Max rope diameter	24 mm
Weight	4800 kg
Number of grooves	10
Suitable for	1 rope
Layout	Single

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. 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 unpurported loads according to the friction and unexpected loads which may occur.

CONFIGURATION

Negative self-acting hydraulic brake Hydraulic dynamometer with set-point and automatic control of maximum pull Control instruments for hydraulic system and Diesel engine Rigid axle 30 km/h On board reel winder with automatic level wind, suitable for standard reel mod. BOF010 BOF020 (AXR001 included) Electronic pull and speed recorder kit (instrument not included) Pull pre-setting system Hydraulic front stabiliser Grounding connection point



ALL111



ISO 9001:2015

3900

ISO 14001:2015

2180

ISO 45001:2018

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AVAILABLE DEVICES

ALL037	Preheating device for use up to -30°C	
ALL051	Cable remote control kit (instrument not included)	
AXC005	Cable remote control (15 m range)	
ALL059	Radio remote control kit (instrument not included)	
AXH007	Radio remote control (150 m range)	
ALL071	ALL071 Hydraulic rope clamp for reel chang operations	
ALL111	ALL111 Swivel guide rope roller	
AXR001	Extra shaft	
DLR300	Electronic pull and speed recorder	

ARS700/701 HYDRAULIC PULLER

ROPE DIAMETER MAX SPEED 160/180 kN 5 km/h 24 mm AVAILABLE ALSO FOR CE/EPA HIGH PERFORMANCE

COMPLETELY ELECTRONICALLY CONTROLLED



PERFORMANCE*

Max pull	160/180 kN
Speed at max pull	2.5/2.2 km/h
Max speed	5 km/h
Pull at max speed	80 kN

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	600 mm
Bull-wheel material	STEEL
Max rope diameter	24 mm
Weight	6000 kg
Number of grooves	10
Suitable for	1 rope
Layout	Single

ENGINE

Diesel	209 kW (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 unpurported loads according to the friction and unexpected loads which may occur.

CONFIGURATION

Negative self-acting hydraulic brake Hydraulic dynamometer with set-point and automatic control of maximum pull Control instruments for hydraulic system and Diesel engine Rigid axle 30 km/h On board reel winder with automatic level wind, suitable for standard reel mod. BOF010 and BOF020 (AXR001 included) Mechanical front stabiliser Grounding connection point





AVAILABLE DEVICES

ALL001	Lighting system for the trailer	
ALL002	Air brake system for the trailer	
ALL010	Hydraulic power pack to control a separate reel winder	
ALL022	Hydraulic quick connectors to control a separate reel winder instead of the built-in one	
ALL037	Preheating device for use up to -30°C	
ALL051	Cable remote control kit (instrument not included)	
AXC005	Cable remote control (15 m range)	
ALL053	Electronic pull and speed recorder kit (instrument not included)	
ALL059	Radio remote control kit (instrument not included)	
AXH007	Radio remote control (150 m range)	
ALL070	Extra rollers for an additional pilot rope	
ALL071	Hydraulic rope clamp for reel change operations	
ALL089	Electronic arrangement for connection of multiple machines and for stringing synchronization	
ALL111	Swivel guide rope roller	
AXR001	Extra shaft	
DLR300	Electronic pull and speed recorder	



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FRS404

HYDRAULIC TENSIONER



PERFORMANCE*

Max tension	40 kN
Max speed	5 km/h
Max pull back	40 kN
Speed at max pull back	0.8 km/h
t at 20%C and at see lovel	

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	34 mm
Weight	2700 kg
Number of grooves	8
Suitable for	1 or 2 ropes or bundled conductor
Layout	Single

3700

ENGINE

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

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
Mechanical meter counter
Rigid axle 30 km/h
Gearbox with 3 operating positions:

neutral position (with free bull-wheels for conductor loading and unloading)
low tension position (2 ÷ 6 kN)
nominal tension position
Hydraulic power pack to control up to 2 separate drum stands with hydraulic motor, not independent control

2765

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rtified Environmental System Cert
ISO 14001:2015

Certified Health & Safety System ISO 45001:2018

Mechanical front stabiliser Grounding connection point

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1810

AVAILABLE DEVICES

ALL037	Preheating device for use up to -30°C
ALL071	Hydraulic conductor clamp for drum change operations
ALL080	Special nylon sectors kit

FRS531 HYDRAULIC TENSIONER



COMPLETELY ELECTRONICALLY CONTROLLED



PERFORMANCE*

Max tension	75 kN
Max speed	5 km/h
Max pull back	75 kN
Speed at max pull back	0,7 km/h

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	34 mm
Weight	3400 kg
Number of grooves	10
Suitable for	1 or 2 ropes or bundled conductors
Layout	Single

ENGINE

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

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 with set-point and automatic control of maximum pull

Mechanical meter counter Control instruments for hydraulic system and

Diesel engine

Rigid axle 30 km/h Gearbox with 3 operating positions:

- neutral position (with free bull-wheels for conductor loading and unloading)
- low tension position (5 ÷ 20 kN)
- nominal tension position

Hydraulic power pack to control up to 2 reel stands with hydraulic head, not independent control

Mechanical front stabiliser

Grounding connection point





AVAILABLE DEVICES

ALL005	Hydraulic power for an external compressor		
ALL037	Preheating device for use up to -30°C		
ALL051	Cable remote control kit (instrument not included)		
AXC005	Cable remote control (15 m range)		
ALL059	Radio remote control kit (instrument not included)		
AXH007	Radio remote control (150 m range)		
ALL071	Hydraulic rope clamp for reel change operations		
ALL080	Special nylon sectors kit		
ALL089	Electronic arrangement for connection of multiple machines and for stringing synchronization		

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rtified Health & Safety System ISO 45001:2018



FRS615 HYDRAULIC TENSIONER



COMPLETELY ELECTRONICALLY CONTROLLED

PERFORMANCE*

Max tension	140 kN
Max speed	5 km/h
Max pull back	140 kN
Max speed at pull back	1.8 km/h

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	40 mm
Weight	6200 kg
Number of grooves	16
Suitable for	1, 2, 3 or 4 conductors
Layout	Single

ENGINE

-	
Diesel	48 kW (64 hp)
Cooling system	water
Electrical system	24 V

HYDRAULIC TRANSMISSION

Hydraulic 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 with set-point and automatic control of maximum pull Digital meter counter Control instruments for hydraulic system and Diesel engine Rigid axle 30 km/h Hydraulic power pack to control up to 4 reel stands with hydraulic head, not independent

control

Hydraulic front stabiliser Grounding connection point

AVAILABLE DEVICES

ALL001	Lighting system for the trailer	
ALL002	Air brake system for the trailer	
ALL005	Hydraulic power for an external compressor	
ALL037	Preheating device for use up to -30°C	
AXC005	Cable remote control (15 m range)	
ALL059	Radio remote control kit (instrument not included)	
AXH007	Radio remote control (150 m range)	
ALL071	Hydraulic rope clamp for reel change operations	
ALL071	4 hydraulic conductor clamps for drum change operations	
ALL080	Special nylon sectors kit	
ALL081	same as ALL080 but in addition instead of as an alternative	
ALL089	Electronic arrangement for connection of multiple machines and for stringing synchronization	





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FRB600 HYDRAULIC TENSIONER



TEEMEC

COMPLETELY ELECTRONICALLY CONTROLLED



PERFORMANCE*

Max tension	2x75 kN
Max speed	5 km/h
Max pull back	2x75 kN
Speed at max pull back	0,6 km/h
* -+ 20%C	

* at 20°C and at sea level

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	38 mm
Weight	7500 kg
Number of grooves	20
Suitable for	1, 2, 3 or 4 conductors
Layout	Twin

ENGINE

Diesel	48 kW (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 presetting system.

CONFIGURATION

2 negative self-acting hydraulic brakes 2 hydraulic dynamometers 2 digital meter counters 2 digital speed-meters Control instruments for hydraulic system and Diesel engine Rigid axle 30 km/h Hydraulic power pack to control up to 4 separate drum stands with hydraulic motor with 2 independent controls Hydraulic front stabiliser Grounding connection point

AVAILABLE DEVICES

ALL001	Lighting system for the trailer
ALL002	Air brake system for the trailer
ALL005	Hydraulic power for an external compressor
ALL037	Preheating device for use up to -30°C
ALL071	4 hydraulic conductor clamps for drum change operations
ALL080	Special nylon sectors kit
ALL089	Electronic arrangement for connection of multiple machines and for stringing synchronization





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