

DIGITAL STRINGING MACHINES



Tesmec is proud to introduce the Digital Stringing Machines

The stringing equipment market is becoming more competitive every year and the basic stringing technology has become accessible to manufacturers around the world.

As the market leader, we have decided to complete a massive review of the design of our stringing machines in order to provide customers with affordable solutions based on the latest technology.

We believe that we have achieved our first objective: embracing new technologies without compromising our strong tradition of quality, reliability and durability.

Today we are proud to present: Digital Stringing Machines.

Follow us to discover the next steps!



INDEX

Tesmec Numbers	4
Tesmec World	5
History of Success	6
Tesmec Integrated Value Proposition	8
New Digital Human Machine Interface	9
Re.M. (Remote Monitoring System)	10
Digital Stringing Machines in Operation	11
Digital Stringing Machines	12

MACHINES

DIGITAL PULLERS

CODE	RANGE	LAYOUT	BULL WHEEL DIAMETER	GROOVES NUMBER	ENGINE POWER	
PL1250	50 kN	Simple	400 mm	7	55,4 kW	1.10
PL1450	100 kN	Simple	525 mm	9	105 kW	1.15
PL1700	160 kN	Simple	700 mm	10	210 kW	1.20
PL1750	180 kN	Simple	700 mm	10	210 kW	1.25

DIGITAL TENSIONERS

CODE	RANGE	LAYOUT	BULL WHEEL DIAMETER	GROOVES NUMBER	ENGINE POWER	
TN1200	40 kN	Simple	1500 mm	6	25 kW	1.30
TN1350	80 kN	Simple	1500 mm	10	25 kW	1.35
TN2350	80 kN	Double	1500 mm	12	55,4 kW	1.40
TN2600	140 kN	Double	1800 mm	12	55,4 kW	1.45
TN1700	160 kN	Simple	1500 mm	16	55,4 kW	1.50

DIGITAL PULLER TENSIONERS

CODE	RANGE	LAYOUT	BULL WHEEL DIAMETER	NUMBER OF GROOVES	ENGINE POWER	
PT1250	50 kN	Simple	1500 mm	6	55,4 kW	1.55
PT1450	100 kN	Simple	1500 mm	10	105 kW	1.60
PT2450	100 kN	Double	1500 mm	12	105 kW	1.65
PT1600	140 kN	Simple	1500 mm	16	129 kW	1.70
PT2600	140 kN	Double	1800 mm	12	129 kW	1.75

SPECIAL MACHINES

1.80

65 Years / EXPERIENCE

31 Patents / SPECIFICALLY DEVELOPED

135 Countries / WORLDWIDE CHOOSE TESMEC

20.000 Machines / PRODUCED



EDISON PATENT

PATENT APPLICATION: 9 NOVEMBER 1956
PATENT APPROVED: 18 MAY 1957

Tensioner machine to allow the automatic release under continuous pull of conductors wound on reels, particularly for stringing overhead transmission lines.





TESMEC S.p.A.
Headquarter
Grassobbio (IT)



TESMEC S.p.A.
Production plant
Sirone (IT)



TESMEC S.p.A.
Production plant
Endine Gaiano (IT)



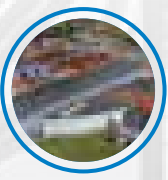
TESMEC AUTOMATION
Production plant
Padova (IT)



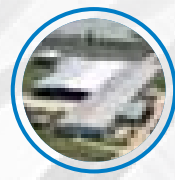
TESMEC AUTOMATION
Production plant
Patrica (IT)



TESMEC SERVICE
Production plant
Monopoli (IT)



GROUPE MARAIS
Production plant
France



TESMEC USA
Production plant
USA

8 Production plants
11 Subsidiaries
2 Joint ventures
1 Associated company

TESMEC HISTORY OF SUCCESS



**ORIGINAL BY
TESMEC**



Edison Patent for the first hydraulic tension stringing system



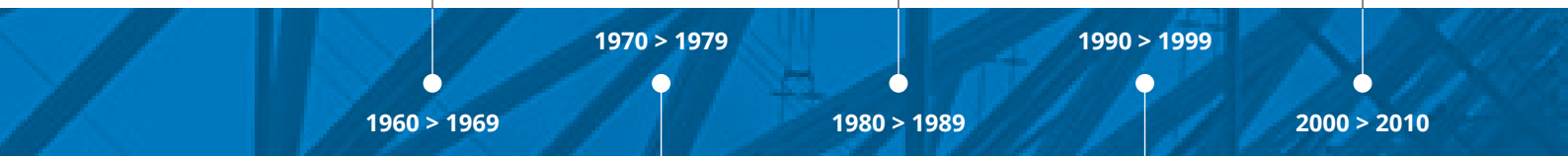
**PATENT
APPROVED**



Tesmec becomes the worldwide leader in stringing equipment



Implementation of electronic controls and management



1960 > 1969

1970 > 1979

1980 > 1989

1990 > 1999

2000 > 2010

Large scale manufacturing and reaching the worldwide market



The first truck mounted puller tensioner machine for multiple bundled conductor



2017

A New machine range: Simple, Safe, Reliable.



**PATENT
PENDING**

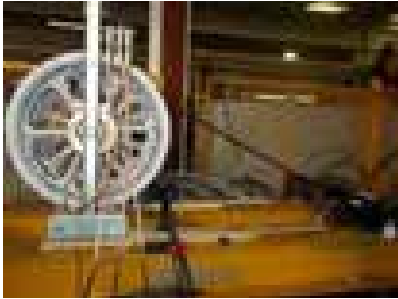
Tesmec, the pioneer in stringing solutions, introduces revolutionary stringing machines, designed for the future.

A strong tradition of quality, reliability and durability meets the new technologies generating a new concept of machines.

Digital Stringing Machines: A new machine range Simple, Safe, Reliable.



PATENT APPROVED



Blocks with grounding device in accordance to international standard



Twin puller tensioner with Ø 2 meter bull-wheels with interchangeable steel sectors and redundant hydraulic circuits



Tensioner for helicopter stringing at 20 km/h and with 4 levels safety system

2011

2012

2013

2014

2015

2016

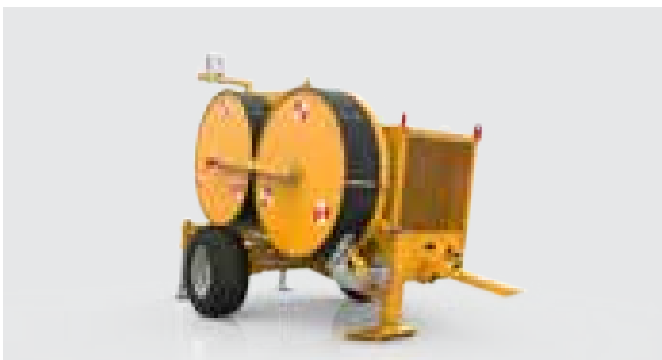
Twin puller tensioner with large bull-wheels for ACSS conductor



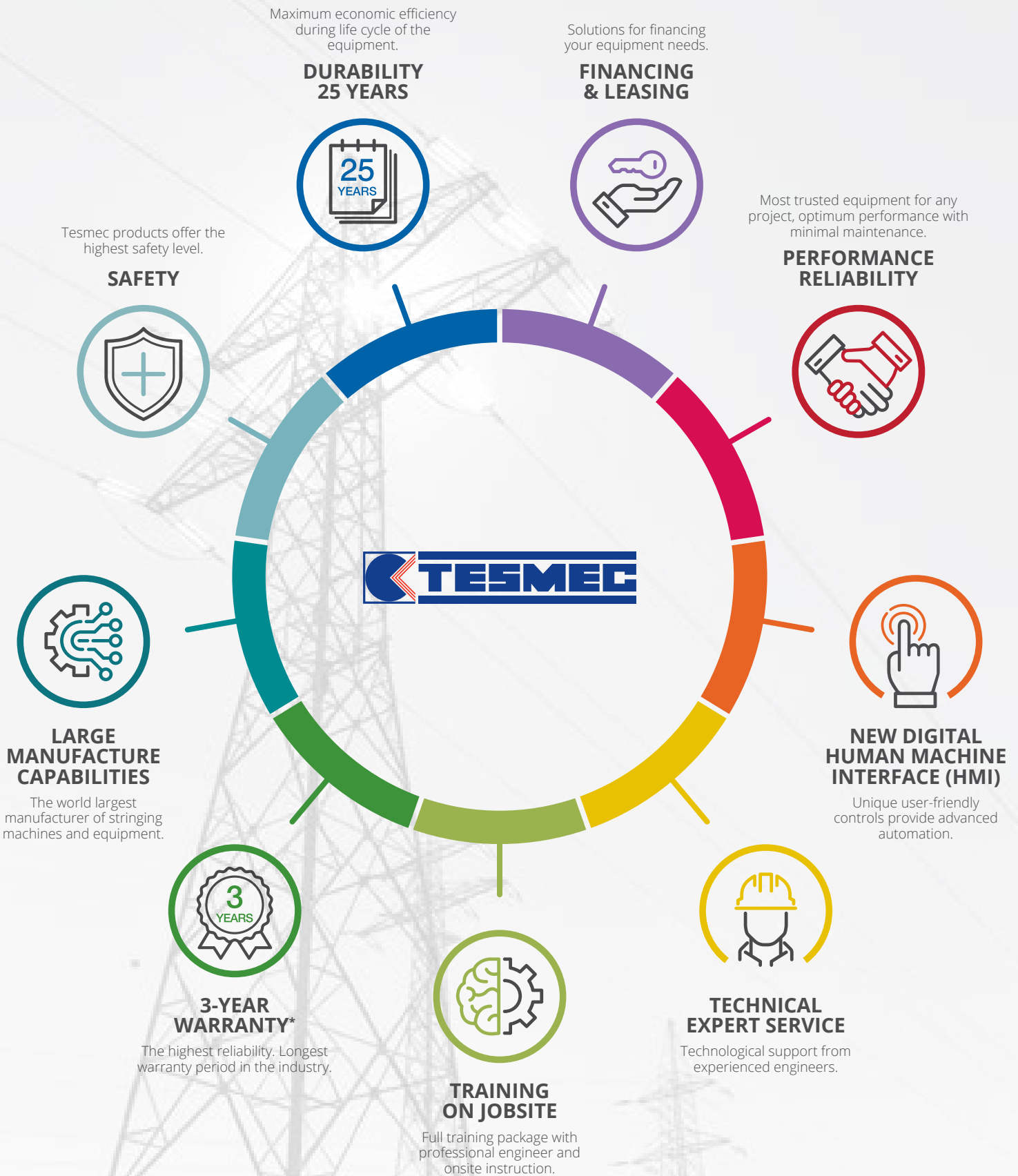
The "Dual Machine Concept" for both aerial and underground stringing operation



Twin tensioner with large bull-wheels, detachable and modular for HEXA



TESMEC INTEGRATED VALUE PROPOSITION



*According to warranty conditions.

NEW DIGITAL HUMAN MACHINE INTERFACE (HMI)



The new digital HMI (Human Machine Interface) is a significant innovation on the new digital stringing machine. The new control panel is drastically simplified!

The innovative graphic display shows all the information, including diesel engine parameters, machine performance, and diagnostic output.

This new digital technology eliminates most of the instruments and devices installed on the previous control panel.

The remote, also usable by cable connection, controls the machine and allows the operator to work from a position that offers a better overview of the jobsite, less noise and a higher degree of safety.

Note:

Pullers equipped with reel-winders feature automatic back-pull control for optimal performance and simple operation.



DIAGNOSTIC FEATURES

- + Maintenance interval scheduling, with countdown and alerts.
- + Machine alerts display errors with detailed description.
- + Alerts recording option for authorized service inspection.
- + Automatic self-diagnosis at machine start.

Re.M. (REMOTE MONITORING SYSTEM) - ALL270

Remote monitoring package for main performance and diagnostic parameters, including alarms and a GPS localization, available on demand.

EFFICIENCY

- + Automatic diesel engine rpm setting maximizes stringing speed and offers better oil cooling and fuel savings.
- + Automatic oil cooling according to oil viscosity.
- + Reduce operator errors and maximize uptime.
- + Analog Circular chart displays operating parameters and machine limits.
- + Automatic cutting pressure device, to avoid any possible overload on the machine.

INTEGRATED RECORDER

Integrated pull recorder stores the operational data. Downloadable using a simple USB flash drive. Printer also available as an option.



Re.M. (REMOTE MONITORING SYSTEM) - ALL270

All you need to use Tesmec Re.M is an internet connection and a browser!

The interface will give you all the machine information (engine parameters, pressures and temperatures), included the geofencing (GPS coordinates).

The new remote monitoring system, RE.M, acquires, analyzes and manages information from our pullers, tensioners and puller-tensioners.

This system allows a fleet management time savings of 25%.

All the information is forwarded to a cloud platform through a data connection and is available using an internet connection and browser.

The remote access option is the easiest way to check machine data.

In case of failure, service technicians can obtain the situation analysis before they reach the jobsite reducing problem resolution and next step timing.



DAILY CONTROL OF ALL MACHINES

Data collected by RE.M allow a reduction of data processing errors and a daily fleet control through:

- + Statistics of machine use,
- + Monitoring of operating parameters such as temperature, pressure of hydraulic system and working hours,
- + Monitoring machine status,
- + Monitoring of productivity.

GEOFENCING

With RE.M you can define virtual fences that allow monitoring of machines' position on jobsites and whenever a machine is leaving a geofenced area the system sends a text message and/or an email that can help tracking and recovering the machine; reducing theft related costs.

SYSTEM AVAILABILITY:

RE.M is available on all the new digital stringing machines. Following customer authorization, the system will be activated and data access will be possible through a customer private account. During machine warranty period, Tesmec S.p.A. can access and use all the data transmitted by RE.M for problems resolution or for maintenance.

On request, the system can be installed on existing machines.

PROACTIVE MAINTENANCE MANAGEMENT

- + Automatic acquisition of engine hours.
- + Reduction of time dedicated to finding equipment for maintenance.
- + Monitoring of machine status in order to prevent failure and to reduce downtime.

RELIABLE TECHNICAL ASSISTANCE

Thanks to electronic error notification, RE.M simplifies problem resolution process, reducing troubleshooting and allowing speed and focused technical assistance with the possibility of problem resolution by remote.

DIGITAL STRINGING MACHINES IN OPERATION

FRANCE - L'ARGENTIÈRE-LA-BESSÉE
NEW SINGLE LINE DOUBLE CIRCUIT AACSR PHLOX CONDUCTOR



1 PULLER TENSIONER PT1450
1 TENSIONER FRS531



USA - SAINT PAUL, MINNESOTA
3M'S ACCR TRANSMISSION SEMINAR JUNE 20-22, 2017 FIELD DEMOSTRATION

2 PULLER TENSIONERS PT1250



FINLAND - KUVOLA
NEW LINE 110 kV DOUBLE CIRCUIT WITH SINGLE AND DOUBLE CONDUCTOR Ø 22 mm



1 PULLER PL1250
1 TENSIONER TN2350



DIGITAL STRINGING MACHINES

The correct choice for a safer and more efficient jobsite



MAX PULL/TENSION

Max pull/tension performance of the machine under continuous operation.



MAX SPEED

Max speed of the machines under continuous operation.



ROPE/CONDUCTOR DIAMETER

Max rope or conductor to be used.



DIGITAL STRINGING MACHINES MAIN FEATURES



**FULL
OPTIONAL**

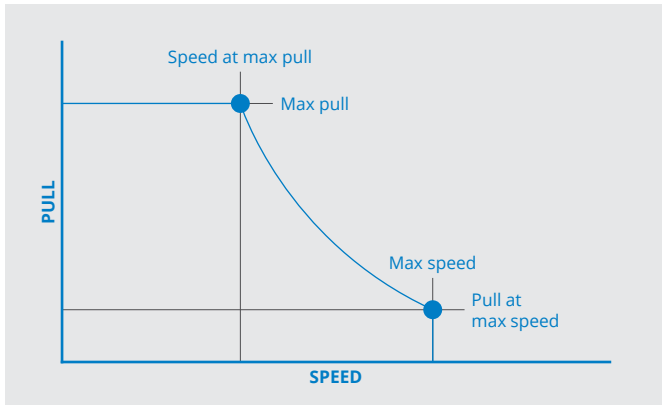
CONFIGURATION

Full package in the standard version configuration.

The standard machine includes a complete package of devices:

- + Integrated pull recorder.
- + Radio remote control.
- + Conductor clamp.
- + Low range gearbox (50 kN range).

Range of available options include: preheating device for extra cold ambient temperatures, road transportation package, electronic connection of modular machines, remote diagnosis package and low range solution (100 kN range and higher).



PERFORMANCE

Operating pull vs speed.

Unique hydraulic circuit for stepless speed variation. Automatic management of the diesel engine for highest possible operating speed depending on work conditions.



POWER UNIT

Diesel engine: Stage 4, tier 4f and Stage 5 ready for EU & US market.

Each machine is also available with engine equivalent to the previous Stage emission level for markets where ultra high grade fuel is not available.

Integral cover of the whole power unit and modularity in single components.

Integral Cover

The integral cover of the whole power unit grants:

- + Best protection of all the installed components.
- + Reduction of noise emission.

Modular design and standardized components reduces spare parts and simplifies maintenance.



MOBILITY

Two travel configurations.

The machine layout allows the installation of rigid or road axles configurations.

Road axle with EU type approved is available.

PL1250

DIGITAL PULLER



MAX PULL
50 kN



MAX SPEED
5 km/h



ROPE DIAMETER
16 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

AUTOMATIC REEL WINDER

INTEGRATED COVERS



+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max pull	50 kN
Speed at max pull	2 km/h
Max speed	5 km/h
Pull at max speed	17 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	400 mm
Bull-wheel material	STEEL
Max rope diameter	16 mm
Weight (without rope)	2500 kg
Number of grooves	7
Suitable for	1 rope
Layout	Single

ENGINE

Diesel	55,4 kW (74 hp)
Cooling system	WATER
Electrical system	12 V

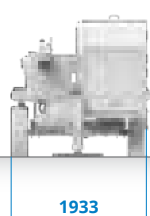
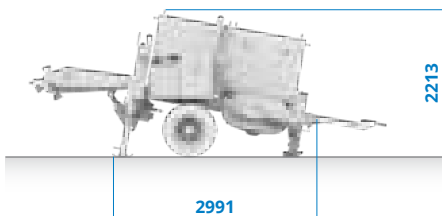
CONFIGURATION

New Tesmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
On board automatic reel winder with level wind, for reel mod. BOF010 and BOF020.
Reel shaft AXR001.

AVAILABLE DEVICES

ALL037	Preheating device up to -30°C.
ALL089	Electronic connection and synchronization between machines.
ALL111	Swivel guide rope roller.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.
AXR001	Extra shaft.



7" COLOR DISPLAY



RADIO REMOTE CONTROL

Pictures & drawings can be different according to technical specifications - updating programme variations without notice are possible.



PL1450

DIGITAL PULLER



MAX
PULL

100 kN



MAX
SPEED

4,5 km/h



ROPE
DIAMETER

21 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

AUTOMATIC REEL WINDER

INTEGRATED COVERS

+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max pull	100 kN
Speed at max pull	2,5 km/h
Max speed	4,5 km/h
Pull at max speed	53 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	525 mm
Bull-wheel material	STEEL
Max rope diameter	21 mm
Weight (without rope)	4300 kg
Number of grooves	9
Suitable for	1 rope
Layout	Single

ENGINE

Diesel	105 kW (140 hp)
Cooling system	WATER
Electrical system	24 V

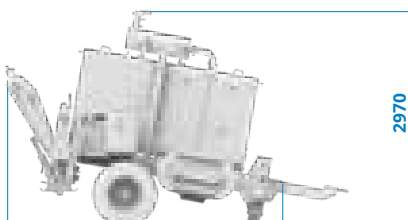
CONFIGURATION

New Tesmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

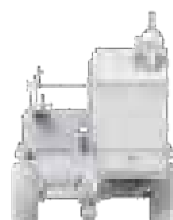
Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
On board automatic reel winder with level wind, for reel mod. BOF010 and BOF020.
Reel shaft AXR001.

AVAILABLE DEVICES

ALL037	Preheating device up to -30°C.
ALL089	Electronic connection and synchronization between machines.
ALL111	Swivel guide rope roller.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.
AXR001	Extra shaft.



3920



2270



7" COLOR DISPLAY



RADIO REMOTE CONTROL

Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018

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PL1700

DIGITAL PULLER


MAX PULL
160 kN

MAX SPEED
4,5 km/h

ROPE DIAMETER
28 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

AUTOMATIC REEL WINDER

INTEGRATED COVERS


+ SIMPLE
+ SAFE
+ RELIABLE
PERFORMANCE

Max pull	160 kN
Speed at max pull	2,8 km/h
Max speed	4,5 km/h
Pull at max speed	105 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	700 mm
Bull-wheel material	STEEL
Max rope diameter	28 mm
Weight (without rope)	7200 kg
Number of grooves	10
Suitable for	1 rope
Layout	Single

ENGINE

Diesel	210 kW (281 hp)
Cooling system	WATER
Electrical system	24 V

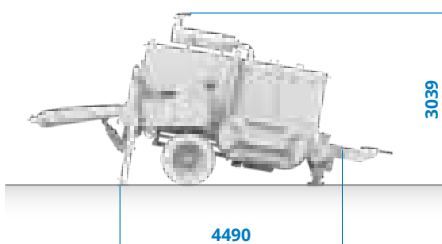
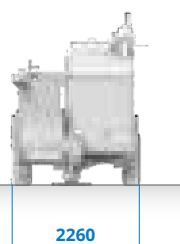
CONFIGURATION

New Tescmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
On board automatic reel winder with level wind, for reel mod. BOF020 and BOF030.
Reel shaft AXR002.

AVAILABLE DEVICES

ALL037	Preheating device up to -30°C.
ALL089	Electronic connection and synchronization between machines.
ALL111	Swivel guide rope roller.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.
AXR002	Extra shaft.


4490

2260

7" COLOR DISPLAY

RADIO REMOTE CONTROL

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PL1750

DIGITAL PULLER



MAX PULL
180 kN



MAX SPEED
4,5 km/h



ROPE DIAMETER
28 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

AUTOMATIC REEL WINDER

INTEGRATED COVERS



+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max pull	180 kN
Speed at max pull	2,5 km/h
Max speed	4,5 km/h
Pull at max speed	105 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	700 mm
Bull-wheel material	STEEL
Max rope diameter	28 mm
Weight (without rope)	7200 kg
Number of grooves	10
Suitable for	1 rope
Layout	Single

ENGINE

Diesel	210 kW (281 hp)
Cooling system	WATER
Electrical system	24 V

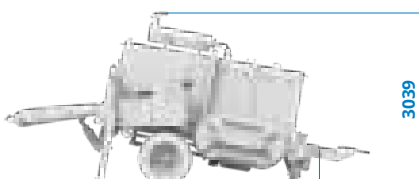
CONFIGURATION

New Tesmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
On board automatic reel winder with level wind, for reel mod. BOF020 and BOF030.
Reel shaft AXR002.

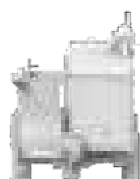
AVAILABLE DEVICES

- ALL037** Preheating device up to -30°C.
- ALL089** Electronic connection and synchronization between machines.
- ALL111** Swivel guide rope roller.
- ALL261** External printer.
- ALL270** Remote Diagnostic system with GPS localization including 3-year subscription.
- ALL280** Automatic grease pump.
- AXR002** Extra shaft.



4490

3039



2260



7" COLOR DISPLAY



RADIO REMOTE CONTROL

TN1200

DIGITAL TENSIONER



MAX TENSION
40 kN



MAX SPEED
5 km/h



CONDUCTOR DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

ROPE CLAMP



+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max tension	40 kN
Speed at max tension	3 km/h
Max speed	5 km/h
Max pull back	40 kN

HYDRAULIC TRANSMISSION

Half closed hydraulic circuit with tension pre-setting system.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	42 mm
Weight	3250 kg
Number of grooves	6
Suitable for	1 conductor
Layout	Single

ENGINE

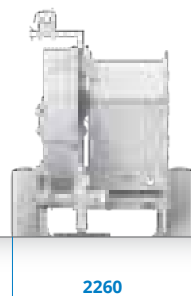
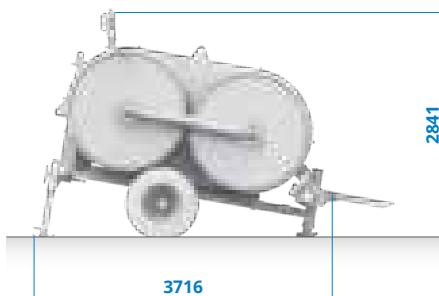
Diesel	25 kW (34 hp)
Cooling system	WATER
Electrical system	12V

CONFIGURATION

New Tesmec digital HMI.
Lockable sound proof integrated covers.
Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 1 reel stand or 1 reel winder.
Gearbox with 3 operating positions:
+ Neutral position (with free bull-wheels for conductor loading and unloading).
+ Low tension position (1 ÷ 7 kN).
+ Nominal tension position.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL080	Special kit for 2 conductors up to Ø 31mm.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



7" COLOR DISPLAY



RADIO REMOTE CONTROL

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TN1350

DIGITAL TENSIONER



MAX TENSION
80 kN



MAX SPEED
5 km/h



CONDUCTOR DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

ROPE CLAMP

+ SIMPLE

PERFORMANCE

Max tension	80 kN
Speed at max tension	3 km/h
Max speed	5 km/h
Max pull back	80 kN

HYDRAULIC TRANSMISSION

Half closed hydraulic circuit with tension pre-setting system.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	42 mm
Weight	4950 kg
Number of grooves	10
Suitable for	2 conductors
Layout	Single

+ SAFE

ENGINE

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

CONFIGURATION

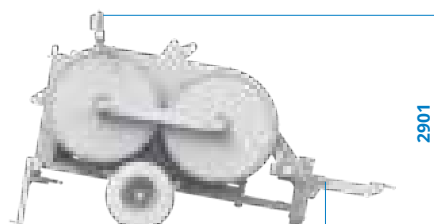
New Tesmec digital HMI.
Lockable sound proof integrated covers.
Rope clamp for reel change.

Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 2 reel stands or 2 reel winders.

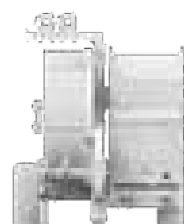
+ RELIABLE

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL080	Special kit for 3 conductors up to Ø 34mm.
ALL087	Low tension device.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



4193



2267



7" COLOR DISPLAY



RADIO REMOTE CONTROL

Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018

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TN2350

DIGITAL TENSIONER


MAX TENSION
2x40 kN

MAX SPEED
5 km/h

CONDUCTOR DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

ROPE CLAMP


+ SIMPLE
+ SAFE
+ RELIABLE
PERFORMANCE

Max tension	2x40 kN / 1x80kN
Speed at max tension	3 km/h
Max speed	5 km/h
Max pull back	2x40 kN / 1x80kN

HYDRAULIC TRANSMISSION

Half closed hydraulic circuit with tension pre-setting system.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	42 mm
Max rope diameter	21 mm
Weight	7000 kg
Number of grooves	12
Suitable for	2 conductors
Layout	Twin

ENGINE

Diesel	55,4 kW (140 hp)
Cooling system	WATER
Electrical system	12 V

CONFIGURATION

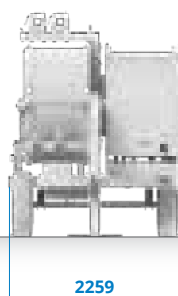
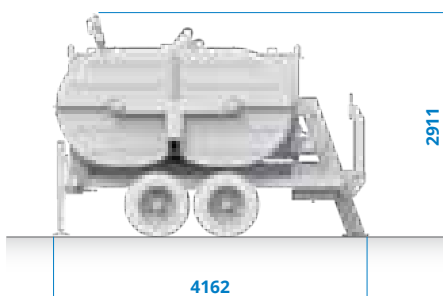
New Tesmec digital HMI.
Lockable sound proof integrated covers.
Rope clamp for reel change.

Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 2 reel stands or 2 reel winders.

Gearbox with 3 operating positions on 1 circuit:
+ Neutral position (with free bull-wheels for conductor loading and unloading).
+ Low tension position (1 ÷ 7 kN).
+ Nominal tension position.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.


7" COLOR DISPLAY

RADIO REMOTE CONTROL

Pictures & drawings can be different according to technical specifications - updating programme variations without notice are possible.

Certified Quality System

ISO 9001:2015

Certified Environmental System

ISO 14001:2015

Certified Health & Safety System

ISO 45001:2018



TN2600

DIGITAL TENSIONER



MAX TENSION
2x70 kN



MAX SPEED
5 km/h



CONDUCTOR DIAMETER
51 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

ROPE CLAMP

+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max tension	2x70 kN / 1x140kN
Speed at max tension	3 km/h
Max speed	5 km/h
Max pull back	2x70 kN / 1x140kN

HYDRAULIC TRANSMISSION

Half closed hydraulic circuit with tension pre-setting system.

CHARACTERISTICS

Bull-wheel diameter	1800 mm
Bull-wheel material	NYLON
Max conductor diameter	51 mm
Max rope diameter	25 mm
Weight	10000 kg
Number of grooves	12
Suitable for	2 conductors
Layout	Twin

ENGINE

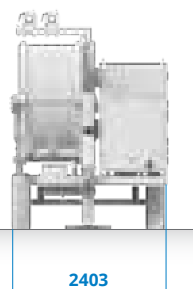
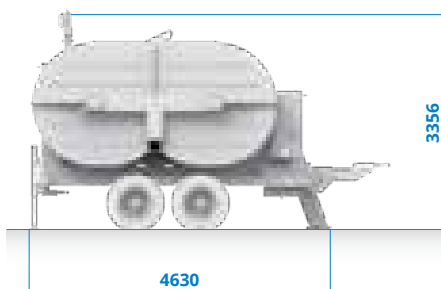
Diesel	55,4 kW (140 hp)
Cooling system	WATER
Electrical system	12 V

CONFIGURATION

New Tesmec digital HMI.
Lockable sound proof integrated covers.
Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 2 reel stands or 2 reel winders.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL087	Low tension device.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



7" COLOR DISPLAY



RADIO REMOTE CONTROL



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TN1700

DIGITAL TENSIONER



MAX TENSION
160 kN



MAX SPEED
4,5 km/h



CONDUCTOR DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

AVAILABLE FOR ROAD USE



+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max tension	160 kN
Speed at max tension	3,3 km/h
Max speed	4,5 km/h
Max pull back	160 kN

HYDRAULIC TRANSMISSION

Half closed hydraulic circuit with tension pre-setting system.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	42 mm
Weight	9000 kg
Number of grooves	16
Suitable for	4 conductors
Layout	Single

ENGINE

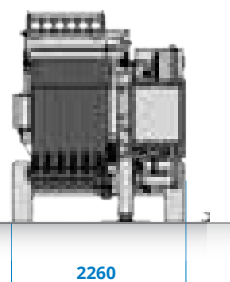
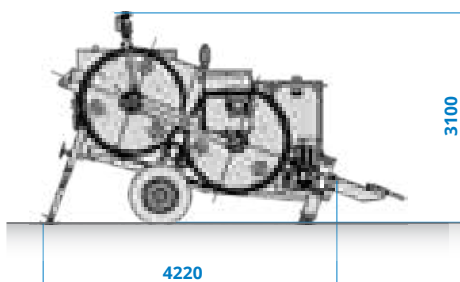
Diesel	55,4 kW (74 hp)
Cooling system	WATER
Electrical system	24 V

CONFIGURATION

New Tesmec digital HMI.
Lockable sound proof integrated covers.
Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabiliser.
Hydraulic power pack to control 6 reel stands with hydraulic head or 6 reel winders.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL080	Special kit for 6 conductors up to Ø 29 mm.
ALL089	Electronic connection and synchronization between machines.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



7" COLOR DISPLAY



RADIO REMOTE CONTROL

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PT1250

DIGITAL PULLER TENSIONER



MAX
PULL/TENSION
50 kN



MAX
SPEED
5 km/h



CONDUCTOR
DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

AVAILABLE FOR ROAD USE

+ SIMPLE

PERFORMANCE

Max pull	50 kN
Speed at max pull	1,5 km/h
Max speed	5 km/h
Pull at max speed	16 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	42 mm
Max rope diameter	16 mm
Weight	3650 kg
Number of grooves	6
Suitable for	1 rope/conductor
Layout	Single

+ SAFE

ENGINE

Diesel	55,4 kW (74 hp)
Cooling system	WATER
Electrical system	12 V

CONFIGURATION

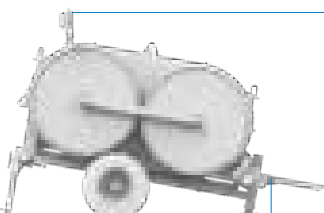
New Tesmec digital HMI.
Lockable sound proof integrated covers.
Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 1 reel stands with hydraulic head or 1 reel winders.

Gearbox with 3 operating positions:
+ Neutral position (with free bull-wheels for conductor loading and unloading).
+ Low tension position:
- 2 ÷ 12 kN as tensioner
- 0 ÷ 7 kN as puller
+ Nominal tension position.

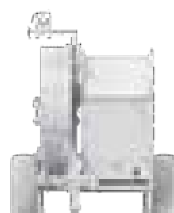
+ RELIABLE

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL080	Special kit for 2 conductors up to Ø 31mm.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



3736



2260



7" COLOR DISPLAY



RADIO REMOTE CONTROL

Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018

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PT1450

DIGITAL PULLER TENSIONER



MAX PULL/TENSION
100 kN



MAX SPEED
4,5 km/h



CONDUCTOR DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

AVAILABLE FOR ROAD USE



+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max pull / tension	100 kN
Speed at max pull / tension	2 km/h
Max speed	4,5 km/h
Pull / tension at max speed	46 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	42 mm
Max rope diameter	21 mm
Weight	5800 kg
Number of grooves	10
Suitable for	2 ropes/conductors
Layout	Single

ENGINE

Diesel	105 kW (140 hp)
Cooling system	WATER
Electrical system	24V

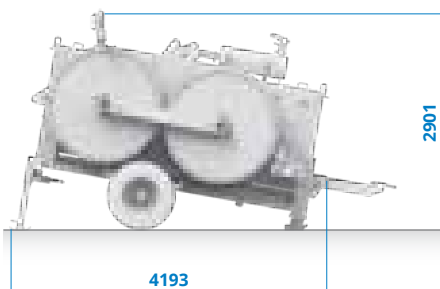
CONFIGURATION

New Tesmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 2 reel stands or 2 reel winders.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL080	Special kit for 3 conductors up to Ø 34mm.
ALL087	Low tension device.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



7" COLOR DISPLAY



RADIO REMOTE CONTROL

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Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018



PT2450

DIGITAL PULLER TENSIONER



MAX
PULL/TENSION
2x50 kN



MAX
SPEED
5 km/h



CONDUCTOR
DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

AVAILABLE FOR ROAD USE

+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max pull / tension	2x50 kN / 1x100kN
Speed at max pull / tension	2 km/h
Max speed	5 km/h
Pull / tension at max speed	2x20 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel diameter	NYLON
Max conductor diameter	42 mm
Max rope diameter	21 mm
Weight	8000 kg
Number of grooves	12
Suitable for	2 ropes/conductors
Layout	Twin

ENGINE

Diesel	105 kW (140 hp)
Cooling system	WATER
Electrical system	24V

CONFIGURATION

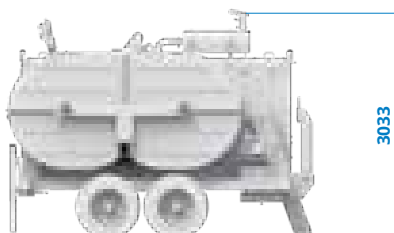
New Tesmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 2 reel stands or 2 reel winders.

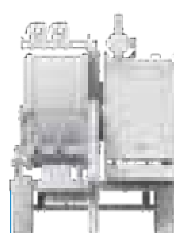
Gearbox with 3 operating positions on 1 circuit:
+ Neutral position (with free bull-wheels for conductor loading and unloading).
+ Low tension position:
- 4 ÷ 17 kN as tensioner
- 0 ÷ 17 kN as puller
+ Nominal tension position.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



4162



2259



7" COLOR DISPLAY



RADIO REMOTE CONTROL

Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018

Pictures & drawings can be different according to technical specifications - updating programme variations without notice are possible.

PT1600

DIGITAL PULLER TENSIONER



MAX PULL/TENSION
140 kN



MAX SPEED
4,5 km/h



CONDUCTOR DIAMETER
42 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

AVAILABLE FOR ROAD USE



+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max pull / tension	140 kN
Speed at max pull / tension	1,6 km/h
Max speed	4,5 km/h
Pull / tension at max speed	50 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	1500 mm
Bull-wheel material	NYLON
Max conductor diameter	42 mm
Max rope diameter	25 mm
Weight	9000 kg
Number of grooves	16
Suitable for	4 ropes/ conductors
Layout	Single

ENGINE

Diesel	129 kW (145 hp)
Cooling system	WATER
Electrical system	24 V

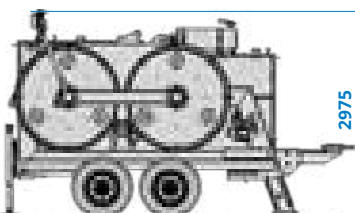
CONFIGURATION

New Tesmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

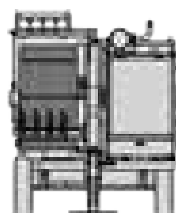
Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 4 reel stands or 4 reel winders.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



4255



2450



7" COLOR DISPLAY



RADIO REMOTE CONTROL

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Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018



PT2600

DIGITAL PULLER TENSIONER



MAX PULL/TENSION
2x70 kN



MAX SPEED
5 km/h



CONDUCTOR DIAMETER
51 mm

NEW TESMEC DIGITAL HMI:
7" color display.
Radio remote control.
Data Recorder.

INTEGRATED COVERS

AVAILABLE FOR ROAD USE

+ SIMPLE

+ SAFE

+ RELIABLE

PERFORMANCE

Max pull / tension	2x70 kN / 1x140 kN
Speed at max pull / tension	2 km/h
Max speed	5 km/h
Pull / tension at max speed	2x25 kN

HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

CHARACTERISTICS

Bull-wheel diameter	1800 mm
Bull-wheel material	NYLON
Max conductor diameter	51 mm
Max rope diameter	25 mm
Weight	11000 kg
Number of grooves	12
Suitable for	2 ropes/conductors
Layout	Twin

ENGINE

Diesel	129 kW (175 hp)
Cooling system	WATER
Electrical system	24V

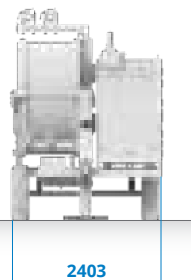
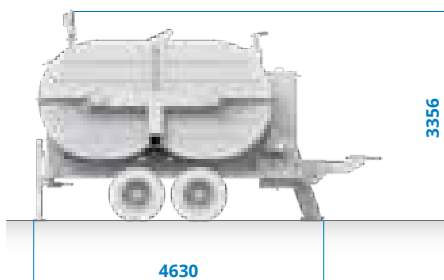
CONFIGURATION

New Tesmec digital HMI.
Automatic reel winder.
Lockable sound proof integrated covers.

Rope clamp for reel change.
Negative self-acting hydraulic brake.
Rigid axle 30 km/h.
Grounding connection point.
Hydraulic front stabilizers.
Power pack to control 2 reel stands or 2 reel winders.

AVAILABLE DEVICES

ALL005	Hydraulic power for compressor.
ALL037	Preheating device up to -30°C.
ALL087	Low tension device.
ALL089	Electronic connection and synchronization between machines.
ALL112	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
ALL261	External printer.
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump.



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PL1350

DIGITAL PULLER


MAX PULL
70 kN

MAX SPEED
4,2 km/h

ROPE DIAMETER
21 mm

Bull-wheel diameter	525 mm
Weight	4300 kg
Diesel	75 kW (102 hp)
Speed at max pull	1,9 kN
Suitable for	1 rope
Layout	Single



PL1751

DIGITAL PULLER


MAX PULL
190 kN

MAX SPEED
4,5 km/h

ROPE DIAMETER
28 mm

Bull-wheel diameter	700 mm
Weight	7200 kg
Diesel	210 kW (281 hp)
Speed at max pull	2,3 kN
Suitable for	1 rope
Layout	Single



TN140X

DIGITAL TENSIONER


MAX PULL
90 kN

MAX SPEED
5 km/h

CONDUCTOR DIAMETER
42 mm

Bull-wheel diameter	1500 mm
Weight	5100 kg
Diesel	55 kW (75 hp)
Speed at max pull	3 km/h
Suitable for	2 conductors
Layout	Single





TN1750

DIGITAL TENSIONER



MAX
PULL

180 kN



MAX
SPEED

4,5 km/h



CONDUCTOR
DIAMETER

38 mm

Bull-wheel diameter	1500 mm
Weight	9000 kg
Diesel	55,4 kW (74 hp)
Speed at max pull	3 km/h
Suitable for	6 conductors
Layout	Single



PT1252

DIGITAL PULLER-TENSIONER



MAX
PULL/TENSION

50 kN



MAX
SPEED

5 km/h



CONDUCTOR
DIAMETER

51 mm

Bull-wheel diameter	1800 mm
Weight	4200 kg
Diesel	55,4 kW (74 hp)
Speed at max pull/tension	1,5 km/h
Suitable for	1 rope/ conductor
Layout	Single



PT1300

DIGITAL PULLER-TENSIONER



MAX
PULL/TENSION

65 kN



MAX
SPEED

5 km/h



CONDUCTOR
DIAMETER

31 mm

Bull-wheel diameter	1500 mm
Weight	4300 kg
Diesel	75 kW (102 hp)
Speed at max pull/tension	1,8 km/h
Suitable for	2 ropes/ conductors
Layout	Single

PT1350

DIGITAL PULLER-TENSIONER



MAX PULL/TENSION
70 kN



MAX SPEED
4,2 km/h



CONDUCTOR DIAMETER
42 mm

Bull-wheel diameter	1500 mm
Weight	5300 kg
Diesel	75 kW (102 hp)
Speed at max pull/tension	1,9 km/h
Suitable for	2 ropes/ conductors
Layout	Single



PT1451

DIGITAL PULLER-TENSIONER



MAX PULL/TENSION
100 kN



MAX SPEED
4,5 km/h



CONDUCTOR DIAMETER
51 mm

Bull-wheel diameter	1800 mm
Weight	9000 kg
Diesel	105 kW (175 hp)
Speed at max pull/tension	2 km/h
Suitable for	2 ropes/ conductors
Layout	Single



PT1601

DIGITAL PULLER-TENSIONER



MAX PULL/TENSION
140 kN



MAX SPEED
4 km/h



CONDUCTOR DIAMETER
51 mm

Bull-wheel diameter	1800 mm
Weight	9000 kg
Diesel	129 kW (175 hp)
Speed at max pull/tension	1,8 km/h
Suitable for	3 ropes/ conductors
Layout	Single



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Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018

