TESMEC

TESMEC
ENERGY CABLES SOLUTIONS

TESMEC

TRENCHING THE PATH TO THE FUTURE

We make it **faster**, thanks to our technology efficiency.

We make it **easier**, thanks to our people expertise.

We make it **cleaner**, containing noise levels and dust.

We reduce the overall **costs**, limiting people and machinery.

We make it **safer**.

We respect the **environment**.

TESMEC

TESMEC

Tesmec S.p.A.
Grassobbio (Italy)

Saudi Tesmec
Riyadh (Saudi Arabia)

Tesmec USA
Alvarado, TX (USA)

Marais Laying NZ
Wellington, New Zealand

Tesmec SA
Edenvale (South Africa)

Tesmec Guinea
Conakry (République de Guinée)

Groupe Marais
Durtal (France)

Tesmec Peninsula
Doha (Qatar)

Tesmec Australia
Mount Druitt, NSW (Australia)

Tesmec Energy
Algeri, Algeria

Tesmec Maroc
Casablanca (Morocco)

Marais Cote D'Ivoire
Bietry (Cote D'Ivoire)

Tesmec New Technology
Beijing (China)

THE HISTORY

1951-1960

Pioneer in stringing solutions

Establishment of "CRF-Officina Meccanica di Precisione" Edison patent for the new tension stringing system

1984

TRENCHER product line development

Establishment of Tesmec USA Inc. in Texas, USA

2010

From family to public company

Entry in the Italian Stock Exchange (STAR segment)

2012

Expansion strategy in the RAILWAY business

Leasing of AMC2 S.r.l (Monopoli - Italy)

2015

Acquisition of the French Group Marais

Tesmec Automation as a single Company

2017

Investments & acquisitions to complete the portfolio for SMART GRIDS

Opening of the new Tesmec Rail s.r.l. production site (Monopoli – Italy)

2018

Investments in R&D and DIAGNOSTICS

4Service, a Company dedicated to the rental business

Share capital increase

2020

Strengthening the Service and Rental Business

2021

ENERGY TRANSITION
DIGITALIZATION
SUSTAINABILITY

2024

TESMEC ADVANTAGES VS TRADITIONAL METHODS

Productivity

Experience unmatched productivity with Tesmec trenching and mechanical laying machines. One trencher can outperform multiple traditional machines, making your projects faster and more efficient. Achieve high performances in all rock conditions, including long-distance projects even in the most challenging conditions

Quality and accuracy

Thanks to Tesmec technology, it is possible to achieve a regular trench shape with constant depth and width throughout the entire project, high precision in the laying of cables and conduits, and high accuracy in the positioning of backfill material around them

Overall cost reduction

Simplify your operations and reduce costs with our trenching technology. Fewer machines and manpower are required, leading to lower logistics expenses, lower fuel costs, and easier site management

Safety

Ensure safer operations on site for both personnel and cables. No personnel is the in the trench and interactions with the equipment are minimized. In addition, attention to the integrity of the cable installation further increases the reliability of the entire system

Sustainability

By using our machines and methodology, you'll reduce CO_2 emissions and fuel consumption. In addition, our trenching technology allows for a reduction in excavated volumes, less imported material for backfilling and a drastic reduction in the disturbance

Traceability

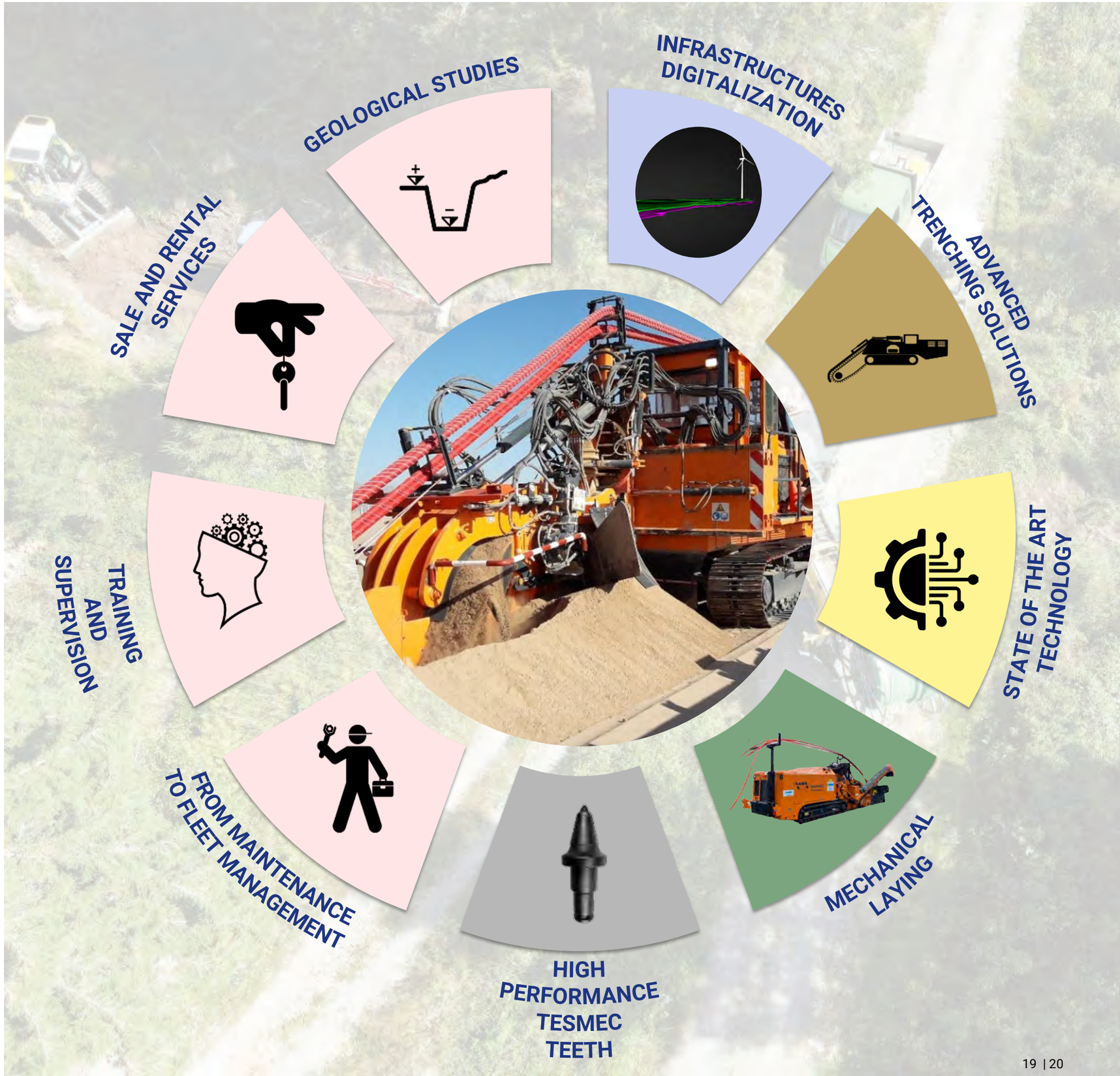
Stay in control of your projects with real-time traceability and georeferenced data of the laid cables, and successfully manage your site operations

INTEGRATED VALUE PROPOSITION

Tesmec offers **clean and fast solutions** designed to facilitate the installation of underground energy cables for power grids and renewable energy systems, overcoming environmental and safety issues, increasing productivity, speed of implementation and overall quality, site management and cost savings.

Tesmec provides, manages and supervises an **integrated value chain system,** complemented by:

- Consultancy
- Geology analysis
- Underground utilities detection and mapping
- Reel preparation and transport, cables unwinding and wrapping
- Trench opening, cleaning and levelling
- Precise and safe installation of cables
- Cables bedding, installation of PET/PVC cover, warning tap and backfilling
- Site management and supervision

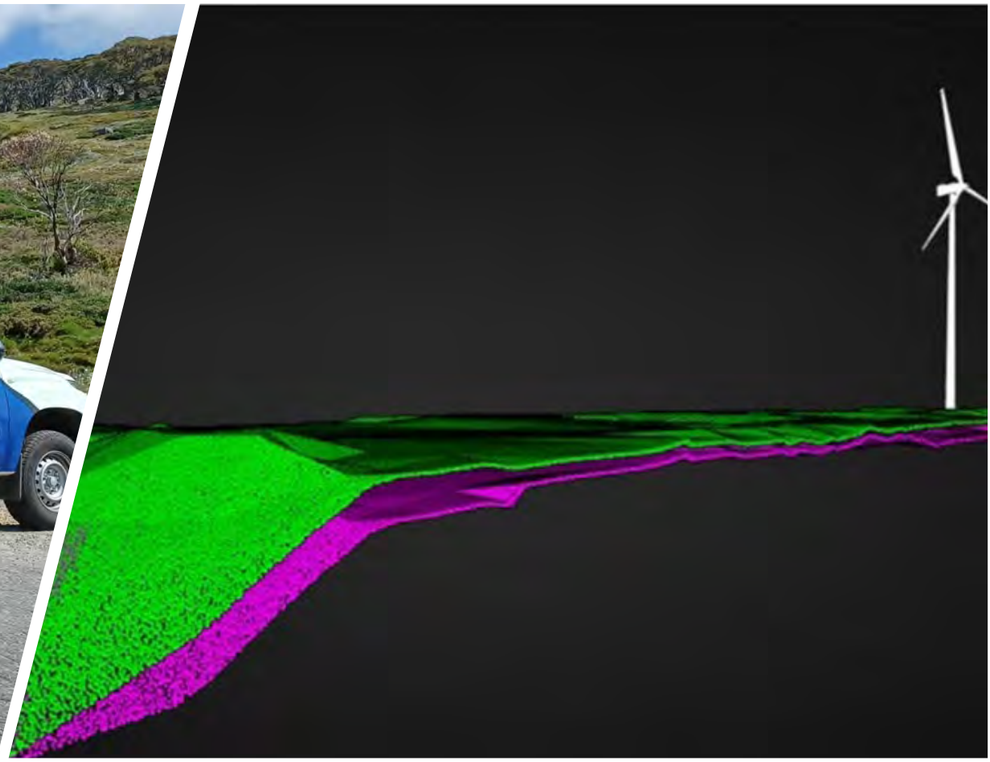


OUR METHODOLOGY

1. CONSULTANCY AND SITE SURVEY

2. GEOLOGICAL GPR SURVEY

3. 3D LAYERING MODEL



4. REEL PREPARATION AND TRANSPORT, CABLES UNWINDING AND WRAPPING

5. TRENCH OPENING, CABLES LAYING AND BACKFILLING

6. SITE MANAGEMENT AND SUPERVISION

THE ADDED VALUE

Preparation for mechanical laying

Tesmec trenchers are prepared for the simultaneous excavation and mechanical cable laying thanks to specific features of machines, such as trencher rollers, that ensure constantly protected cables in full compliance with the bending radius, and the laying box, which guarantees the correct laying of networks

The integrated solutions system

Tesmec's experience and working methodology consists of an all-in-one system composed of a reel carrier, wrapping machine, trenching machine and sand trailer

Performances in any terrain

Outstanding results are guaranteed in all landscapes, including hard and abrasive rocks, roads and rural landscapes, ensuring the successful execution of even the most challenging projects with Tesmec Chainsaw and Rocksaw trenchers

Trenching with lateral offset

Tesmec trenchers are equipped with some of the widest offset and super offset digging units on the market, allowing them to dig in a variety of ways, including on the road with ditch excavation

State of the art technology

Rely on Tesmec's state-of-the-art technologies, which enables automatic excavation and self-diagnosis, extreme precise 3D-GPS automatic guidance system, remote monitoring and reporting, and as built data recorder

The mechanical laying is a continuous and mechanical process to bury a network by cutting a narrow trench while laying simultaneously and automatically the duct designed to be buried.

The main advantages are related to:

- Constant and reduced width of the trench
- Continuous screening of the trench: the layer
- Quality of the trench bottom: the shoe
- Laying quality of the network: less friction and better transmission capacity
- Reduced performance cost
- Conservation of the environment
- Staff safety

This results in an increased jobsite quality, both in terms of trench, logistics, costs and networks.

PRODUCTS OVERVIEW

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Wrapping machine

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RC320

+ *CARRY AND UNROLL CABLES*

+ *COST REDUCTION: LESS CABLES JOINTS*

+ *STRING THREE CONDUCTORS OF UP TO 20 TON EACH ONE*

+ *REEL-STANDS WORK SIMULTANEOUSLY*

+ *HYDRAULIC NEGATIVE BRAKES*

TECHNICAL DATA

Engine	Tier 3	CAT C7.1 Acert	**Reel specifications**	
	Tier 4/Stage V	CAT C7.1 Acert	D. 200 cm (6’ 7”) x W. 225 cm (7’ 4”)	10 ton
Max Power	Tier 3	250 Hp (186 kW)	D. 250 cm (8’ 2”) x W. 225 cm (7’ 4”)	15 ton
	Tier 4/Stage V	275 HP (205 kW)	D. 380 cm (12’ 6”) x W. 225 cm (7’ 4”)	20 ton
Weight		44.500 kg | 98.100 lbs	D. 430 cm (14’ 2”) x W. 225 cm (7’ 4”)	20 ton

Tesmec RC320 Reel-carrier is dedicated to carrying and unrolling cables or pipes during the mechanical laying process, ideal to be used in combination with a Tesmec wrapping machine and a Tesmec trencher. This unit is suitable to string three conductors of up to 20 ton weight each one. All reel-stands can work simultaneously and have independent control of pulling load, with a constant tension. The tensioning system allows to keep a constant tensioning value during start and stop of reel carrier. Hydraulic negative brakes are provided on reel-stand transmission. Equipped with large tracks, this machine is operated through remote control, giving the operator absolute control and precision during loading/offloading and operations. All the cables are then feeding the Wrapping Machine that puts them in trefoil formation, as per electrical specifications and for proper derating optimization. Reel carriers are especially designed for renewables projects, wind farms and solar plants.

WRAPPING MACHINE

- ***NO CABLES OR DUCTS TWISTING***
- ***STEADY AND REGULAR LAYING***
- ***LONGER CABLE LENGTH CAN BE USED***
- ***DECREASE THE NUMBER OF JOINTS***
- ***DECREASE THE OVERALL COST OF LOSS ON A PROJECT***

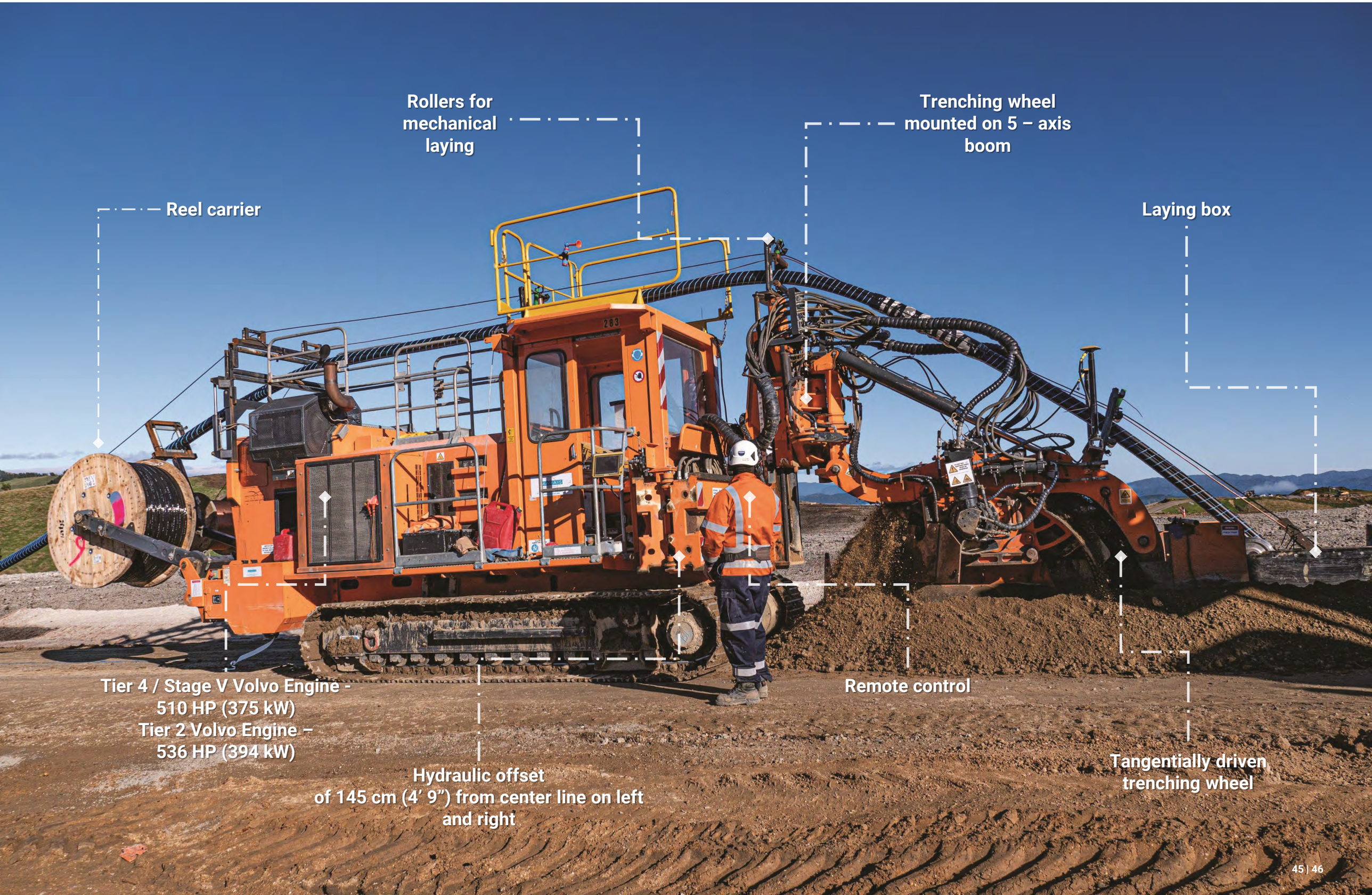
TECHNICAL DATA

Engine	Tier 4/Stage IVB	Kohler KDI 2504 TCR	**Max Wrapping speed**	60 RPM
Max Power		73 HP (54.5 kW)	**Max capacity of wrapped cables**	
Weight		6.900 kg | 15.200 lbs	3 x ext. Ø 60 mm (2.3”) in trefoil + 3 x Ø 60 mm (2.3”)	
			Max diameter of wrapped cables	600 mm (2')
			Consumables	High quality polymer string

Tesmec 300 Wrapping Machine is designed to bundle cables or HDPE (high-density polyethylene pipes) ducts in trefoil, thus ideal to be used in combination with a Tesmec Reel Carrier RC320 and a Tesmec Trencher in a mechanical laying process. This equipment receives 3 single core cables delivered by the Reel Carrier and wrap/binds them into a trefoil shape for flexibility, strength and redundancy. This operation permits to use reels with longer cables, thus minimizing the number of joints and reducing the overall costs of loss on a project. The Wrapping Machine, equipped with self leveling tilt tracks and rubber track pads, is operated using wireless remote control, giving the operator absolute control and precision. All cables in trefoil formation are guided by guide rollers, preventing any friction or tension of those.

ST2

- *IDEAL SOLUTION FOR LARGE SCALE RENEWABLE PROJECTS*
- *MECHANICAL LAYING READY*
- *ADAPTED TO DIFFERENT GROUND CONDITIONS*
- *CABLES INSTALLATION INTEGRITY*
- *ADAPTED TO DIFFERENT APPLICATIONS*


Rollers for mechanical laying
Trenching wheel mounted on 5 – axis boom
Reel carrier
Laying box
Tier 4 / Stage V Volvo Engine - 510 HP (375 kW) Tier 2 Volvo Engine – 536 HP (394 kW)
Hydraulic offset of 145 cm (4’ 9”) from center line on left and right
Remote control
Tangentially driven trenching wheel

TECHNICAL DATA

Engine	Tier 4/Stage V	VOLVO TAD1384VE L6	**Max digging depth**	120 - 160 cm | 3' 11" - 5' 3"
	Tier 2	VOLVO TAD1345VE L6	**Max digging width**	18 - 52 cm | 7" - 20" 1/2
Max Power	Tier 4/Stage V	510 Hp (375 kW)		
	Tier 2	536 HP (394 kW)		
Weight	24.270 Kg - 29.430 Kg | 54.800 lbs - 64.600 lbs			

ST2 is designed for the trenching and simultaneous mechanical laying of underground networks (telecom, electricity, drainage, water, sanitation, gas, etc.) in rural environments and rocky grounds, guaranteeing a constant and reduced building cost per meter. It is the ideal solution for large renewable energy projects, to be used with the Wrapping Machine and the Reel Carrier. ST2 is equipped with a tangentially driven trenching wheel mounted on a 5-axis boom and a hydraulic offset of 145 cm (4’ 9”) from center line on left and right. This machine allows a smooth, clean and compact trench bottom without any salient angle, network laying quality, constant depth, altimetry and planimetry of the laid network. ST2 is equipped with Tesmec state of the art technology, such as the Smart Tracker and Re.m, to optimize fleet monitoring and recording data.

GD2

+ *IDEAL SOLUTION IN RURAL ENVIRONMENTS*

+ *MECHANICAL LAYING READY*

+ *LATERAL SUPER-OFFSET OF THE TOOL OUTSIDE THE MACHINE*

+ *COST EFFECTIVE SOLUTION*

+ *ADAPTED TO DIFFERENT APPLICATIONS*


Reel carrier
Rollers for Mechanical laying
Laying box
DEUTZ TCD 12 V6 Engine – 475 HP (350 kW) Tier 4 Stage V
Hydraulic offset of 204 cm (6’ 9”) from center line on left and right
Tangentially driven trenching wheel

TECHNICAL DATA

Engine	Tier 4/Stage V	DEUTZ TCD 12 V6	**Max digging depth**	120 - 140 cm | 3' 11'' - 4' 7''
Max Power		475 HP (350 kW)	**Max digging width**	18 - 45 cm | 7'' - 18''
Weight	27.190 Kg - 29.260 Kg | 59.900 lbs - 64.500 lbs			

GD2 is designed for the trenching and simultaneous mechanical laying of underground networks (telecom, electricity, drainage, water, sanitation, gas, etc.) in rural environments, allowing the cutting of different grounds, along roads and ditch bottom, behind safety barriers and reducing the overall building costs. It is the ideal solution for large renewable energy projects, to be used with the Wrapping Machine and the Reel Carrier. GD2 is equipped with a tangentially driven trenching wheel and a hydraulic offset of 204 cm (6’ 9”) from center line on left and right. This machine allows a smooth, clean and compact trench bottom without any salient angle, network laying quality, constant depth, altimetry and planimetry of the laid network. GD2 is equipped with Tesmec state of the art technology, such as Smart Tracker and Re.m, to optimize fleet monitoring and recording data.

M5

+ *MECHANICAL DIGGING TRANSMISSION*

+ *TORQUE CONVERTER DRIVE SYSTEM*

+ *HIGHLY ABRASIVE AND EXTREME ROCK CONDITIONS*

+ *HIGH CHAIN PULL AND VERY LOW CHAIN SPEED*

+ *IDEAL IN ROCK MASS UNFRACTURED AND HARD ROCK*


Elevating, pressurized cab with ROPS
Mechanical digging transmission
Tier 4/stage V engine – CAT C13B ACERT 456 Hp (340 kW)
Tier 3 engine – CAT C13 ACERT 440 Hp (328 kW)
Cross conveyor system
Stabilizers with adjustable drags
Chainsaw attachment

TECHNICAL DATA

Engine	Tier 4/Stage V	CAT C13B ACERT	**Digging depth**	
	Tier 3	CAT C13 ACERT	Single chain boom	183 - 244 cm | 6’ - 8’
Max Power	Tier 4/Stage V	456 HP (340 kW)	Double chain boom	183 - 610 cm | 6' - 20'
	Tier 3	440 HP (328 kW)	**Digging width**	
Weight	63.900 - 80.300 Kg | 141.000 - 177.000 lbs		Single chain boom	40 - 56 cm | 16” - 22”
			Double chain boom	76 - 107 cm | 30" - 42"

M5 is a Tesmec chain trencher equipped with a 456 HP (340kW) Tier 4/Stage V engine or a 440 HP (328 kW) Tier 3 engine and torque converter, characterized by high chain pull and very low chain speed. Oriented toward trenching requirements in highly abrasive and extreme rock conditions, this model can work both single chain and double chain boom. Tesmec M5 has its optimal application in case of rock mass unfractured and hard rock, assuring a reduced teeth consumption. It is conceived for multiple applications, such as pipelines construction, underground powerlines installation and channel excavation. M5 is equipped with Tesmec state of the art technology, such as TrenchTronic, TrenchIntel, Re.m ans Smart tracker to maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

1150EVO

+ *HARD ROCK EXCAVATION*

+ *RIGID AND ROBUST FRAME*

+ *PRECISE AND CLEAN TRENCHES*

+ *EVO TECHNOLOGY*

+ *MODULARITY: CHAINSAW, ROCK HAWG AND DYNAMIC DRUVE ATTACHMENTS*


Rocksaw attachment
Protection system
Pressurized, elevating cab with ROPS and FOPS
Tier 4/stage V engine – Cummins X12
451 Hp (336 kW)
Tier 3 engine – CAT C13
440 Hp (328 kW)
Tilting tracks
Stabilizers with adjustable drags

TECHNICAL DATA

Engine	Tier 4/Stage V	Cummins X12	**Digging depth Chainsaw**	183 - 427 cm | 6' - 14'
	Tier 3	CAT C13 ACERT	**Digging width Chainsaw**	35 - 107 cm | 14” - 42”
Max Power	Tier 4/Stage V	451 hp (336 kW)	**Digging depth Rocksaw**	137 cm | 4' 6"
	Tier 3	440 hp (328 Kw)	**Digging width Rocksaw**	15 - 35 cm | 6” - 14”
Weight	44.000 - 57.200 Kg | 97.000 - 126.100 lbs			

1150 EVO is a Tesmec trencher conceived for long-distance fiber optic networks, electric cable projects and small diameter pipelines. 1150EVO in Rocksaw configuration is a high-performance rock-cutter up to 137 cm (4’6”) deep and 35 cm (14”) wide. EVO technology guarantees the best performance on hard rocks with increased productivity and reduced teeth consumption and maintenance costs. 1150EVO is a modular machine adaptable for multiple applications due to its available attachments: Rocksaw, Chainsaw, Rockhawg and Dynamic Drive. The TrenchTronic 5.0, TrenchIntel, Re.m and Smart Tracker state of the art technologies maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

1075

- *HARD ROCK EXCAVATION*
- *RIGID AND ROBUST FRAME*
- *MECHANICAL LAYING READY*
- *ADAPTED TO MULTIPLE APPLICATIONS*
- *MODULARITY: ROCKSAW AND BUCKET WHEEL ATTACHMENTS*


Pre-position and distanced cables
Pressurized cab with ROPS
Rollers for mechanical laying
Tier 4/stage V engine – CAT C9.3B ACERT 375 Hp (280 kW)
Cross conveyor system
Stabilizers with adjustable drags
Flywheel gearboxes

TECHNICAL DATA

Engine	Tier 4/Stage V	CAT C9.3B ACERT	**Digging depth Chainsaw**	123 - 305 cm | 4’ - 10’
Max Power		375 HP (280 kW)	**Digging width Chainsaw**	35 cm - 91 cm | 14" - 36"
Weight	36.700 - 44.500 kg | 80.900 - 98.100 lbs		**Digging depth Rocksaw**	142 cm | 4' 8"
			Digging width Rocksaw	15 - 35 cm | 6" - 14"

Tesmec 1075 is a high-productivity trencher designed for pipelines, utilities and underground energy cables projects in rocky soils. 1075 is a modular machine with the available Chainsaw, Rocksaw and Bucket Wheel attachments. Chainsaw and Rocksaw attachments are the ideal solution for hard rock excavation, thanks to the rigid frame and the mechanical digging drive (flywheel gearboxes) driven by hydrostatic digging transmission. Due to its mechanical laying capability, it is a solution that can be used in projects for precisely digging trenches and laying electrical cables at the same time. 1075 is equipped with Tesmec state of the art technology, such as TrenchTronic, TrenchIntel, Re.m and Smart Tracker, to maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

975 EVO

+ *ROCK EXCAVATION*

+ *RIGID FRAME*

+ *AUTOMATIC LAYING SYSTEM*

+ *TRUCK LOADING CONVEYOR EQUIPPED*

+ *MODULARITY: ROCK HAWG ATTACHMENT*


Rollers for cable laying
Reel carrier
Laying box and backfilling system
Stabilizers with adjustable drags
Cross conveyor system
Tier 4/stage V and Tier 3 engine CAT C9.3B 375 HP (280 kW)

TECHNICAL DATA

Engine	Tier 4/Stage V	CAT C9.3B	**Digging depth**	122 - 306 cm | 4' - 10'
	Tier 3	CAT C9.3B	**Digging width**	35 - 91 cm | 14" - 36"
Max Power		375 hp (280 kW)		
Weight	25.000 - 40.000 kg | 55.100 - 88.100 lbs			

Tesmec 975EVO is a mid-size chainsaw trencher conceived for rock excavation in utilities projects such as fiber optic, electric cables, water conduits, pipelines and other. 975EVO Chainsaw features an elevating cabin and can be provided with tilting tracks to work on not levelled grounds and, upon request, it can also fit an automatic laying system for electric cable networks. This chainsaw trencher combines high chain pull and low chain speed thanks to its upgraded flywheels gearboxes. EVO technology guarantees the best performance on hard rocks, increasing productivity and decreasing teeth consumption and maintenance costs. The 975EVO is a modular machine, in addition to the chain attachment, the Rock Hawg is also available. It is equipped with Tesmec state of the art technology, such as TrenchTronic 5.0, TrenchIntel, Re.m ans Smart tracker to maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

985

- *COMPACT SIZE, DESIGNED FOR ROAD WORKS*
- *OPTIMIZE SPACE UTILIZATION, MANEUVERABILITY WITHIN ONE LANE ROAD WIDTH*
- *CENTER MOUNTED TRUCK CONVEYOR*
- *DIGGING CHAIN WITH OFFSET*
- *AUTOMATIC LAYING SYSTEM*


Mechanical laying ready
Center mounted truck loading conveyor
Chainsaw attachment
Stabilizers with adjustable drags
Offset digging chain: 84 cm (2' 9") from machine centerline either direction
Tier 4/stage V engine CAT C9.3B 375 Hp (280 kW)

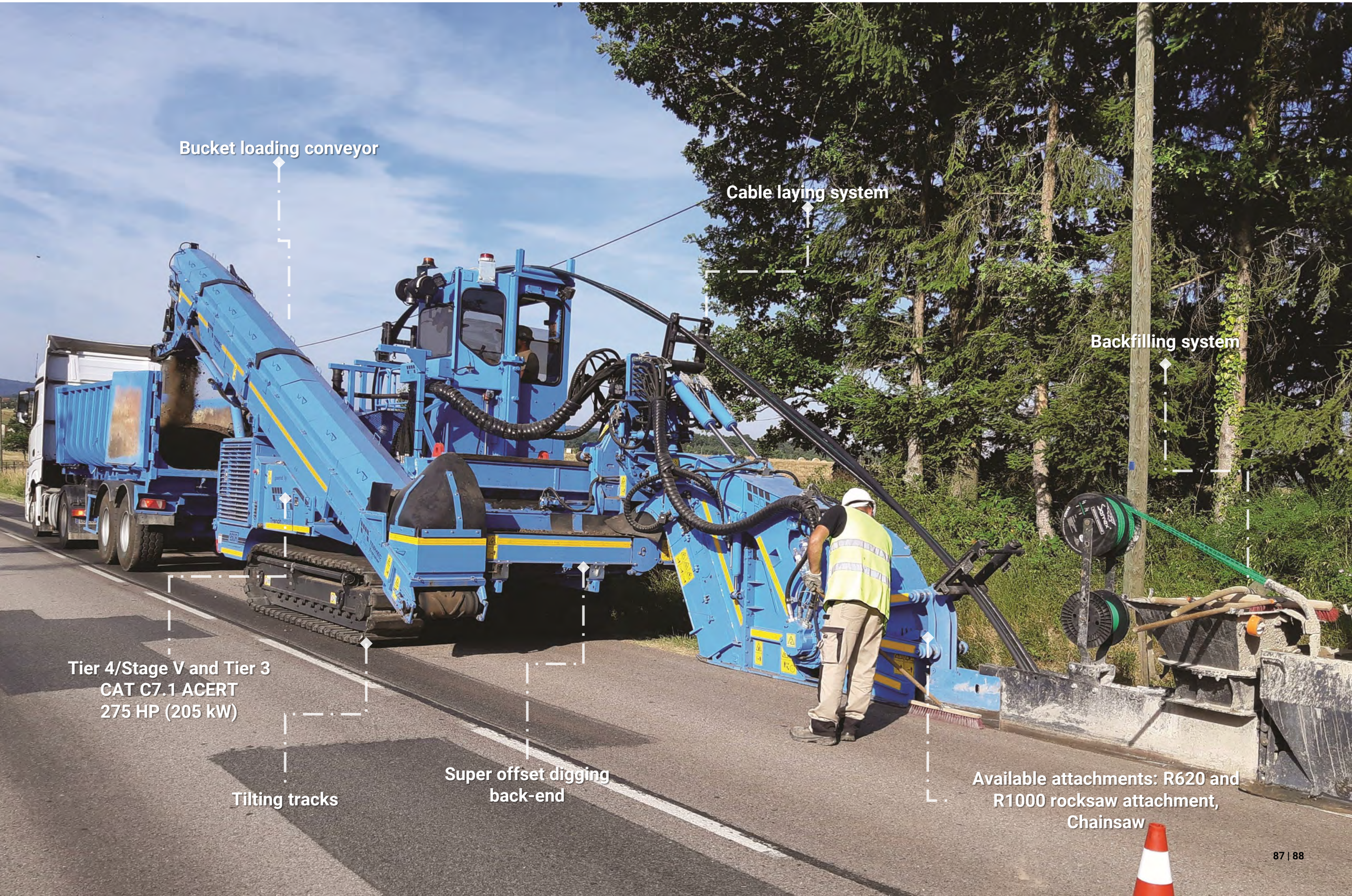
TECHNICAL DATA

Engine	Tier 4/Stage V	CAT C9.3 ACERT	**Digging depth**	122 - 183 cm | 4' - 6'
Max Power		375 HP (280 kW)	**Digging width**	30 - 71 cm | 12" - 28"
Weight	30.500 - 40.000 | kg 67.200 - 88.200 lbs			

Tesmec 985 is a mid-size self-leveling offset chainsaw trencher conceived to satisfy all ranges of customers: from highway constructors to pipeline/energy cables contractors working on projects where space is one of the main issues. Thanks to its compact size, it is designed for urban areas job sites, allowing the maneuverability within one lane road width and the trenching equipment to take any road curves. 985 advantages are the speed of execution, extreme accuracy and time and costs savings as it is an all-in-one machine: is able to trench, load materials onto a truck, lay the cable and backfill the trench. The truck loading conveyor is mounted in the center of the machine, allowing the spoil to be unloaded directly into the truck in front of the machine, thus limiting the space taken up. Equipped with TrenchTronic 4.0 system, TrenchIntel, Re.M and Smart Tracker to maximize excavation efficiency, increase productivity, fleet monitoring and record data.

950R

- *IDEAL SOLUTION FOR BACKBONE AND LONG DISTACE ENERGY CABLES INSTALLATION*
- *MECHANICAL LAYING READY*
- *DESIGNED TO WORK CLOSE TO THE SIDE OF THE ROAD*
- *LIMITED TRAFFIC DISTURBANCE*
- *MODULARITY: CHAINSAW, ROCKSAW R620 AND R1000*


Bucket loading conveyor
Cable laying system
Backfilling system
Tier 4/Stage V and Tier 3
CAT C7.1 ACERT
275 HP (205 kW)
Tilting tracks
Super offset digging
back-end
Available attachments: R620 and
R1000 rocksaw attachment,
Chainsaw

TECHNICAL DATA

Engine	Tier 4/Stage V	CAT C7.1 ACERT	**Digging depth CS**	91 - 183 cm | 3' - 6'
	Tier 3	CAT C7.1 ACERT	**Digging width CS**	20 - 63 cm | 8'' - 25''
Max Power		275 hp (205 kW)	**Digging depth R620**	30 - 62 cm | 1' - 2'
Weight	20.000 - 27.700 kg | 44.100 - 61.068 lbs		**Digging width R620**	10 - 15 cm | 4" - 6"
			Digging depth R1000	50 - 100 cm | 1'8" - 3'3"
			Digging width R1000	10 - 20 cm | 4" - 8''

950R is a versatile trencher designed for in-line excavation for fiber optic installation, power cables, water & gas pipes. It features offset digging chain to work in close proximity to the shoulder of the road, tilting tracks for not levelled grounds, elevating cab and - as main optional - automatic cable laying system, back-filling system and truck loading conveyor. 950R tractor can also be equipped with R1000 and R620 Rocksaw attachments. This machine guarantees speed of execution and extreme accuracy allowing for time and costs savings, as it is able to trench, load materials onto a truck, lay the cable and backfill the trench. Equipped with TrenchTronic 4.0 system, TrenchIntel, Re.M and Smart Tracker to maximize trenching efficiency.

MCT 400

- *HIGH MANEUVRABILITY IN URBAN ENVIRONMENTS*
- *ADAPTED TO MANY APPLICATIONS*
- *INTERCHANGEABLE DIGGING ATTACHMENTS*
- *MECHANICAL LAYING READY*
- *NO ROAD SURFACE DAMAGES*


Laying box
Radiocontrolled machine
Trenching wheel mounted on 5 axis boom
Hydraulic roller for mechanical laying
Modularity: CT1200, RT1100, T670, Plow
Hydraulic offset of 70 cm (2’ 4”) from machine centerline either direction
-
Hydraulic Extra offset max 34 cm (1’ 1’’) right side
VOLVO Engine 238 Hp (175kW) Tier 4/Stage V
–
VOLVO Engine 218 Hp (160 kW) Tier 3

TECHNICAL DATA

Engine	Tier 4/Stage V	VOLVO TAD583VE	**Digging depth R670**	30 - 67 cm | 1' - 2'2"
	Tier 3	VOLVO TAD583VE	**Digging width R670**	8 - 20 cm | 3" - 8"
Max Power	Tier 4/Stage V	238 Hp (175 kW)	**Digging depth RT1100**	75 - 110 cm | 2' 5" - 3' 7"
	Tier 3	218 Hp (160 kW)	**Digging width RT1100**	18 - 28 cm | 7" - 11"
Weight	10.000 - 15.500 Kg | 22.000 - 34.100 lbs		**Digging depth CS1200**	70 - 120 cm | 2' 3" - 4'
			Digging width CS1200	18 - 35 cm | 7" - 14"

400MCT is a high-performance trencher designed for long-distance fiber optic, electric cables, and small diameter water pipelines projects in urban and rural environments. This machine can be equipped with an axial wheel (R670), a tangential wheel (RT1100), a chainsaw (CS1200) or a VP1100 plow, allowing it to meet the challenges on site with maximum modularity and flexibility. The radio-controlled models feature an offset back-end digging facility, a mechanical cable laying concept (available upon request) a bucket loading conveyor system (in R670 configuration) and a truck loading conveyor (in CS1200 configuration). 400MCT is designed to work parallel close to the hard shoulder of the road in order to limit traffic and pedestrian disruptions. It is equipped with Tesmec state of the art technology, such as TrenchTronic, Re.m and Smart Tracker to maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

EXPERIENCE & APPLICATIONS

AUSTRALIA – WIND FARM –
TRENCHING

NEW ZEALAND – WIND FARM –
TRENCHING, LAYING, CABLE WRAPPING AND REEL CARRYING

MEXICO – SOLAR FARM –
TRENCHING AND LAYING

AUSTRALIA – SOLAR FARM –
TRENCHING, LAYING, CABLE WRAPPING AND REEL CARRYING

STATE OF THE ART TECHNOLOGY

TrenchTronic

The automatic trenching and self diagnostic technology. It is an electronic control system designed to improve the ease of use of the trencher and increase productivity by making it less dependent on operator skills.

TrenchIntel

The 3D-GPS automatic guidance system.
It is the satellite guidance system capable to automatically control machine steering, trajectory and trenching depth with extreme precision

Re.M

The remote monitoring and reporting technology.
It provides on-demand retrieval of operating, maintenance and troubleshooting information to help improving each machine's bottom-line performance.

Smart tracker

The as built data recorder.
SmartTracker automatically collects as-built data while the machine is trenching, avoiding survey stakeout and reducing time and costs

TRC

The trencher radio control system
It enables the operator to control the machine remotely through a radio contro, increasing the safety in site, the visibility on the trenching area and tool.

CUSTOMER SERVICE

After sales and customer service

- Inspections and machine Start-up
- Machine operation and repair
- Worldwide fleet remote monitoring and assistance
- Technological support, monitoring and analysis of machine data to optimize utilization
- Jobsite management
- Machine data monitoring

Consultancy and studies

- Expertise
- Know-how
- Feasibility studies
- Technical advice and consultancies
- Geotechnical analysis

Project management

- Services and solutions for all digging projects
- Work site control and experienced operators
- Spare parts management
- Specialized Tesmec team for mechanical assistance

Spare parts service

- Worldwide reaching
- Support in defining jobsite spare parts assortment
- Mobile workshops and mobile warehouses
- Interparts portal for original Tesmec spare parts

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Discover Tesmec unique Customer Experience