

TECNIS





TECNOMA

French Pioneer in innovative and responsible spraying

For more than 65 years, TECNOMA has constantly innovated to meet the needs of its customers throughout the world, offering a **range of state-of-the-art sprayers**, that combine performance, reliability and comfort while ensuring respect for man and the environment.

The production integrated in Épernay and the recognised industrial know-how of the TECNOMA teams, allows for the custom configuration and subsequent assembly of sprayers, so that they **correspond to the needs and constraints of each farm**.

To allow you to fully discover the range and potential of our sprayers, we suggest that you contact one of the 200 authorised TECNOMA distributors in France, or visit our website at : www.tecnoma.com



TECNIS

A thirst for performance

TECNOMA's iconic trailed sprayer, the TECNIS has forged a reputation for itself for precision and reliability over the years.

Its success is not accident. Depending on the surface, crops and topography, it is available in three tank **capacities from 3500 to 6000 litres** and can be equipped with **booms ranging from 24 to 44 meters**. "New technology" and ISOBUS options are available on request.

The TECNIS has a wide range of booms: LVS, LVX and L3S, L3X. Their suspensions provide flexibility and stability. Even and high precision application is guaranteed. **DPAE control**, optimised water circuit, **NOVAFLOW**, **AUTONET**, continuous circulation, **NOZAL**, **OSS+** and **NCIS nozzles** to name just a few ensure that the TECNIS is the highest performing trailed sprayer on the market.





MUCH MORE THAN JUST A MACHINE...

High reliability. High performance. High satisfaction.

A road-worthy trailed sprayer to go everywhere at high speed and for intensive work in the field. Its dual beam "self-propelled type" steel design frame makes it extremely robust.

Authorised to travel at speeds of 25 or 40 kph, the Tecnis's AXAIR suspension makes it the market-leading trailed sprayer. Its usage ergonomics have been rigorously tried and tested to guarantee your comfort. TECNOMA leaves nothing to chance...

The TECNIS provides simple and quick adjustment and easy maintenance under all conditions.

The performance quality is inescapable: The paintwork has been designed to withstand chemical attacks and to last a long time. Shot peening, epoxy primer paint and polyester finish paint guarantee build quality and protection for the TECNIS.

A DIFFERENT WAY OF SPRAYING...



**TECNIS 4500L TANK
WITH INTERNAL EQUIPMENT**

Protecting your crops is our focus and the TECNIS system has been designed especially for you. From filling to rinsing after spraying, **TECNOMA ensures safety and efficiency.**

TECNOMA, a specialist in plastics, has been designing and manufacturing containers and tanks for many years. Lightweight, rotomoulded, high-density polyethylene tanks provide resistance, sealing and quality rinsing to spray more easily and accurately while lowering costs.

The design of the TECNIS allows good visibility for transport and work. The equipment is protected from any type of projection so that it remains in good use. TECNIS anticipates waste management for your safety and comfort.

THE TANKS

- Main tank with dry tank gauge from 3500, 4500 and 6000 liters (nominal volume).
- 20 liters hand wash tank.
- The raised lid provides even more safety when filling. A flow channel protects the operator in the event of a spill.
- Smooth internal tank wall: limited waste residues and easy cleaning.
- Main tank designed to:
 - optimise the rinsing
 - only allow a tank residue of less than 3,5 liters
- 450 and 600 liters rinsing tank with more than 10% nominal volume from the main tank:
 - autonomy for sequential rinsing
 - tank and boom rinsing
 - 4 LAV'TON to rinse the main tank: full cleaning to avoid later contamination

Protection for the environment, the farm and the operator, everything has been thought of. **The TECNIS is much more than just a sprayer.**



INCREASED EFFECTIVENESS

A water circuit designed to increase the performance of the TECNIS and an operating area designed for logical, intuitive and safe use.

THE PUMP

All TECNOMA sprayers are fitted with a piston-diaphragm pump to ensure a stable flow at a wide volume and pressure range (0 to 15 bars). Worksite flow and application quality are guaranteed.

- PM500 or PM700 self-priming piston-diaphragm pumps.
- Flow rate of 240 l/min to 290 l/min at 15 bars (depending on model or option).
- Hyper-suction system for 350 l/min filling (depending on model or option).

THE OPERATING AREA

To ensure your sprayer remains simple to use, it has been developed logically for intuitive use.

- 1 Operating area with 2 multi-way valves.
- 2 Filling by suction with Ø50 mm coupling.
- 3 Flow-back connector for transfer to the exterior.
- 4 20 liters product incorporator with integrated LAV'BOX and rinsing trigger.
- 5 Storage unit with the hand wash tank.
- 6 NOVAFLOW unit (option) for automatic filling management with anti-overflow function.
- Filling by gravity with strainer access by retractable step.
- Filling hyperaspiration.
- O'CLEAR system for filling.
- Full draining via manual valve.

SAFETY

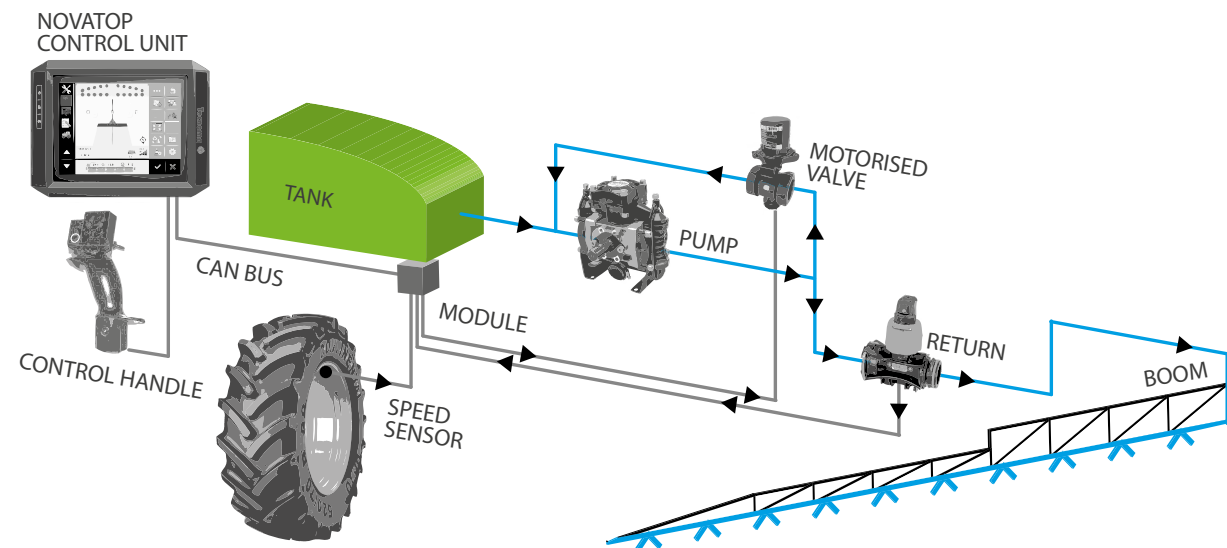
From the start, good environmental practice and your safety are ensured:

- Pipe length is minimised and diameter optimised to significantly reduce dead volume = less loss of chemicals, simplified waste management.
- Incorporation of clear water filling: time saver, user-friendly, no dead volume in the induction hopper.
- Integrated LAV'BOX: easy container management (EVPP) by reducing the residue rate to the threshold set by the regulations in force.
- By optimising the hydraulic agitation in the tank to reduce the dead volume and to homogenise the content for homogeneous spraying on all your plot.
- A storage area: keep your personal protection equipment with you.
- A regulation circuit with "return to suction" to minimise the tank bottom and reduce the possibility of foam.

THE OPTIONS

- **TECFLOW**: electrical overflow protection.
- **NOVAFLOW**: automatic filling system and anti-overflow function.
- **AUTONET**: automatic waste management system by sequential management of the tank residue.
- **Rewind + launch**: clear water system allowing external rinsing of the material after working.

PRECISION SPRAYING



Since the control system is a major element in meeting the well-known spraying objective of “spraying the right amount in the right place”, TECNOMA has developed a DPAE control flowmeter controlled by the Spraytronic and Tecronic control units and the ISOBUS NOVATOP, NOVATOP VISIO, i.TOP and i.TOP S terminals.

The control unit instantly calculates the desired flow rate in relation to the working width, the speed and the variable settings. The control valve adjusts the actual flow rate measured by a flowmeter that is insensitive to variations in pressure, viscosity or density. The flow meter accurately measures the instantaneous flow sprayed. The control system works continuously (only with ISOBUS terminals), including during return to the start phases, so that it is ready with the correct dose as soon as the nozzles open.

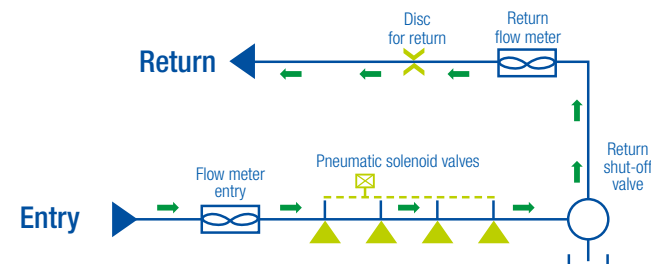
To go even further...

TECNOMA offers continuous circulation systems with AGP (pneumatic anti-drip). Immediate priming, a very reactive closure, reduction of the risk of clogging allowing low and ultra low volume spraying.

More precision for your sections...

Depending on the choice of booms, the number of standard sections ranges from 4 to 8. TECNOMA offers up to 13 sections, and beyond that the NCIS system opens the nozzles one by one via GPS.

Continuous flow diagram with AGP



Find all the information on the NCIS and OSS systems at www.tecnoma.com



OSS+

TECNOMA knows how your working conditions change...

During spraying, as the flow rate increases and the high pressure threshold is reached, the system changes automatically to a higher calibre nozzle, and conversely when the rate and pressure falls.

- Substantial speed variations in the same plot are becoming more frequent.
- Precision farming means using application schemes involving piecemeal doses. The instant dose while working can be very variable. However, for good homogeneous spraying, it is necessary to work with a stable drop size and pressure.

Flow variations due to changes in speed or applications selected should not vary the spray pressure or grain size. With the OSS (Optimal Spray System), TECNOMA allows the operator to perfectly manage the quality of application by drop size while continuing to work at fairly constant pressure and grain size.



CONTROL UNIT
SPRAYTRONIC



CONTROL UNIT
TECTRONIC



CONTROL UNIT
NOVATOP



CONTROL BOX
i.TOP S



PRECISION FARMING AT YOUR FINGERTIPS...

Modern sprayers incorporate more and more functionalities and user-friendly features. For this, the ergonomics and the intuitive use of the control interface are imperative.

TECNOMA has developed a range of ISOBUS terminals allowing total control of your tools. They are used to access your hydraulic controls, to program spraying parameters and to control all your options.

With simple, fast and user-friendly terminals...
You can forget about technique and let
TECNOMA make your job easier.



GPS ANTENNAS

Options

ISOBUS TERMINAL functionalities - GPS applications



Plot marking and guidance: This function enables the driver to be guided according to the width of the tool, the surface that has already been worked and the limits of the plots.



Headland mode: When the plot has already been mapped, the user may subtract the area around the plot over a given width. In this case, the contour is processed when the work is complete.



Automatic spraying section management: When the sprayer passes through the plot, the sections are opened or closed automatically according to the zones which have already been sprayed or are to be sprayed.



VRC mode: If the user has an SHP or ISOXML format application recommendation board, the NOVATOP Terminal enables its operation. The regulation system then receives an application instruction according to the sprayer's position in the plot. The transfer from the board is made via the USB drive.



Task Manager function: This is the file manager integrated into the unit. It enables the work to be carried out or that has already been carried out (planning, documentation and configuration of the work, information transfer with a PC) to be managed.

CLOSER TO THE USER...

Optimising application and protecting your crops requires precise regulation and even application. Stability for the sprayer and boom is vital.

Manoeuvrability and suspension = Key assets.

The TECNIS proposes 3 levels of suspension:

- AXAIR axle suspension.
- Shock absorbing boom parallelogram.
- Suspended boom.

Unrivalled usage comfort and application.

AXAIR

With over 20 years' experience, the AXAIR makes the TECNIS the market leader.

Its active pneumatic suspension with load correction enables:

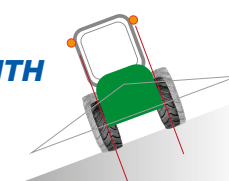
- Flexibility and stability regardless of the tank load level.
- Preservation of the boom structure.
- Reduced maintenance.
- Higher working speeds.
- Identical performance guaranteed regardless of the load (full tank / empty tank).
- Increased speeds per kph on the road.



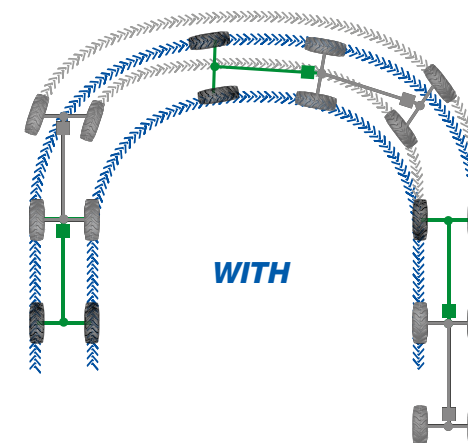
NONE



WITH



CORRECTOR AXLE FUNCTION



FOLLOWER AXLE FUNCTION

FOLLOWER / CORRECTOR AXLE (OPTION)

Optimise your tracks and preserve your crops.

- A gyroscope placed on the tractor lets you know if any mechanisms or electrical components are missing during coupling or in vegetation.
- The proportional valve enables smooth and fluid movements.
- Guaranteed boom stability and smooth and precise manoeuvres.
- Crops perfectly preserved in half-turns and very quick alignment.
- Multi-purpose operation in half-turn and during work.
- Wheel follow correction on slope. The correction adjusts automatically to variations in slope.



BOOMS: STABILITY AND ROBUSTNESS

For a homogeneous spraying of all points on the plot, boom stability is one of the keys to success. TECNOMA naturally aims to supply stable booms.

- Our suspension system, ALBATROSS, limits any swaying.
- Cushioned central cylinders limit floating.
- Variable geometry is served by a hydraulic suspension.
- The ascending/descending parallelogram has hydraulic damping.

The assembly is mounted on a chassis with AXAIR pneumatic suspension. This whole chain of suspension allows TECNOMA to provide stable and robust booms.

Go even faster...

The TOPFIELD II system developed by TECNOMA ensures perfect ground tracking of the boom, to get the correct distance between the boom and the target.

It contains:

- Ultrasonic sensors on the boom arms and the central part.
- Angular sensors for variable geometries.
- Independent hydraulic proportional valves for controlling variable geometries.



Originally, a top-of-the-range offer...

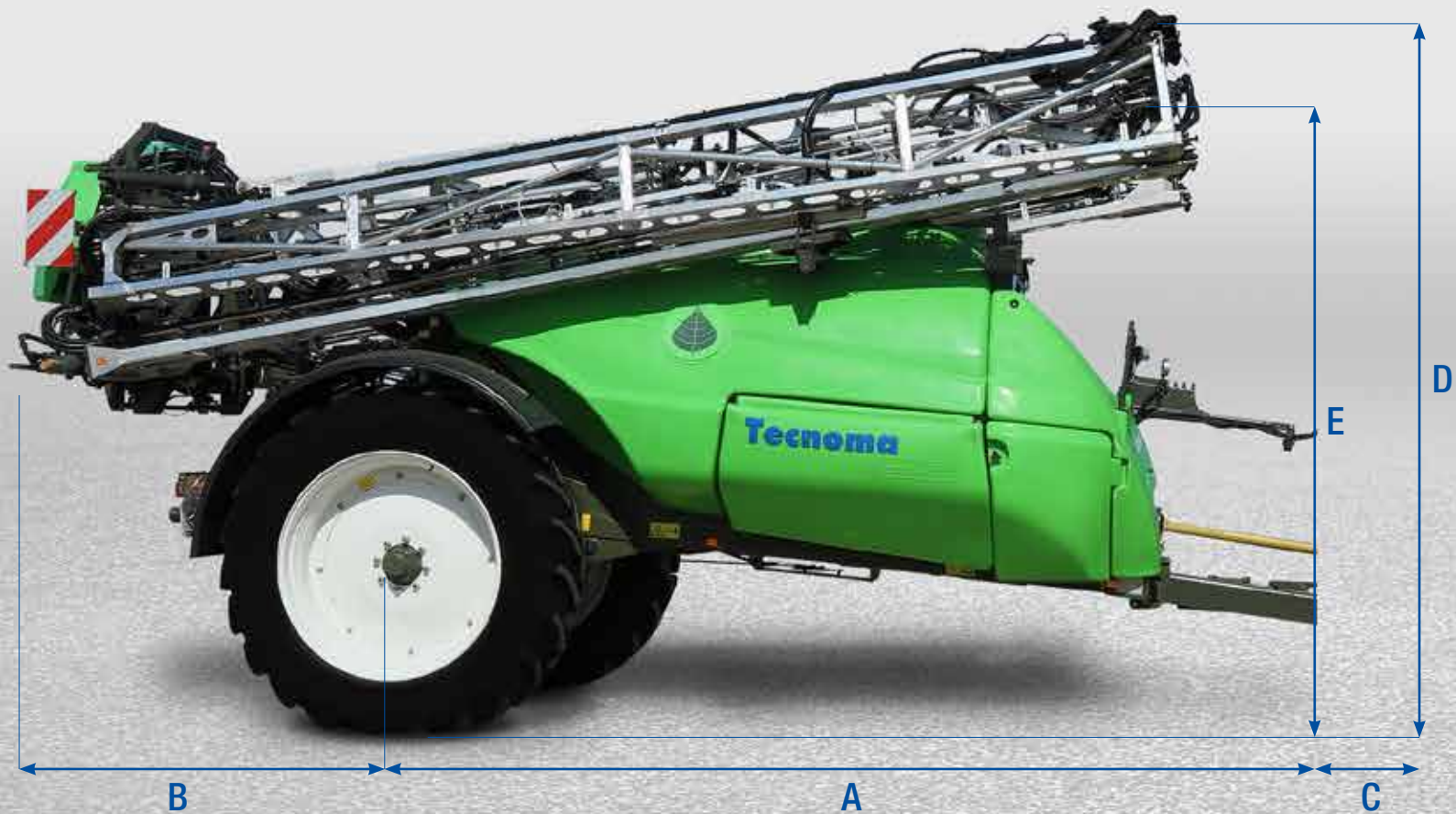
Hydraulic booms from 24 to 44 meters in steel or in aluminium, robust and stable for intensive use in all conditions.

Manoeuvring of booms controlled by the electro-distributor from the terminal or the multi-functional joystick.

All booms in the TECNIS range are equipped with:

- Stainless steel Ø19 mm pipes for easy rinsing and maintenance, minimising load losses and reducing dead volume.
- A slope corrector, positive and negative variable geometries and the ¾ fold function (option depending on model).
- PENTAJET or PENTIX nozzle holders, with anti-drip diaphragms, fitted with a series of 4 nozzles in the NOZAL range (www.nozal.fr).





SPECIFICATIONS

	Booms	Ring bolt / Axle (A)	Axle / Boom (B)	Ring bolt / Boom stance (C)	Boom height (D)	Support height (E)	Parallelogram height (F)
TECNIS 3500	32 LVS	520 cm	250 cm	90 cm	360 cm	370 cm	360 cm
TECNIS 3500	38 L3S	540 cm	250 cm	-90 cm	390 cm	380 cm	370 cm
TECNIS 6000	38 L3S	570 cm or 600 cm	250 cm	-160 cm	399 cm	370 cm	370 cm

Non-contractual values notably variable according to model, track, clearance, choice of tyres and parallelogram position.

CHASSIS AND HITCH

	TECNIS 3500	TECNIS 4500	TECNIS 6000
Chassis	Mechanically welded		
Hitch	Adjustable boom and homokinetic cardan shaft		
Authorised to travel at 25 kph	AXAIR active suspension + hydraulic brakes		
Authorised to travel at 40 kph	AXAIR active suspension + pneumatic brakes		
Follower axle	YES - Option		

BOOMS AND EQUIPMENT

	TECNIS 3500	TECNIS 4500	TECNIS 6000
LVS steel boom with HS depending on type or option	24 to 38 m		
LVS alu boom with HS depending on type or option	28 to 32 m		
L3S steel boom with HS	32 to 36 m		
L3X alu boom with HS	30 to 44 m		
Hydraulic control of boom	SC or ED with central hydraulic unit		
Boom suspension	ALBATROSS		
PENTIX nozzle holders with 4 series of NOZAL nozzles	YES		
Stainless steel distribution tubes	YES		
Sections	4 to 8 in series according to boom Up to 18 depending on options		

WATER CIRCUIT TANKS

	TECNIS 3500	TECNIS 4500	TECNIS 6000
Main tank (nominal volume)	3500 L	4500 L	6000 L
Gauge	Dry float gauge		
Rinsing tank	450 L		600 L
Rinsing of tank by LAV*TON	4		
Hand wash	20 L		
Integrated implementation package with 2 ergonomic multi-way valves	YES		
Removable induction hopper with rinsing system and LAV*BOX	20 L		
Piston/diaphragm pump depending on boom or option	PM 500 - 240 L/min - 15b PM 700 - 290 L/min - 15b		
Filling	Manhole or fire connection Ø50 mm		
Hyper suction	350 L/min to 540 tr/min		
Triple levels of filtration	Filling - Suction Back flow towards Boom		
Agitation	4 hydro injectors		
External flow-back	Fire connection Ø500 mm		
Storage compartment	YES		

CONTROL SYSTEM

	TECNIS 3500	TECNIS 4500	TECNIS 6000
DPAE control flowmeter	YES		
Terminal in cab	SPRAYTRONIC, ELECTRONIC or NOVATOP		
Joystick in cab	YES with NOVATOP range		
Terminal Options	NOVATOP VISIO - i.TOP S - i.TOP		

OTHER OPTIONS

CAMLOCK connector	YES
20 m winder + launch kit	Exterior rinse before returning to operation
TECFLOW	Eliminates all risks of overflow during filling
NOVAFLOW filling	Automatic filling management and overflow prevention
AUTONET for dilution rinsing Spirovit.	Tank residue and end of plot rinsing
Boom working lights	Incorporation without contact
Automatic boom management at the end of the plot	Improved night vision to increase working time
TOPFIELD II ground tracking for boom	At the end of the plot, the boom moves up and down automatically to the correct working height
Additional sections for standard circulation (up to 9 sections)	A stable boom provides increased worksite performance and improved application
Continuous AGP circulation	Optimises spray surfaces
Additional sections for continuous AGP circulation (up to 18 sections)	Immediate priming, limits the risk of clogging, allows low volume spraying and immediate anti-drip reactivity
Multi-nozzle system OSS*	Optimises spray surfaces
End nozzle	A perfect control of the spray spectrum responding to large variations in speed or application rate L/ha) and control by section
Front tank 700 and 1000 L	Easy spraying of plot borders
	Increased autonomy for more productivity

OPTIONS "PRECISION FARMING"

	TECNIS 3500	TECNIS 4500	TECNIS 6000
DGPS signal reception	Precision farming, digital farming: "GPS ALL IN ONE by TECNOMA" . The ultimate precision sprayer to improve agricultural, environmental, economic and ergonomic relations		
Guidance			
Automatic sections			
VRC dose modulation			
On/off nozzle management by NCIS nozzle			
Control by section	Long list of options. Please contact us with any questions.		

TYRES

		TECNIS 3500	TECNIS 4500	TECNIS 6000
Road authorisation	25 kph	40 kph	25 kph	40 kph
Wheel dimensions	8 holes	8 holes	8 holes	10 holes
11.2R54	270/95R54	X		
12.4R46	320/90R46	Standard	Standard	Standard
12.4R52	300/95R52	X	X	X
13.6R38	340/85R38	X	X	
13.6R48	340/85R48	X	X	X
14.9R46	380/90R46	X	X	X
16.9R38	420/85R38	X		
16.9R46	420/80R46	X	X	X
18.4R38	460/85R38	X	X	Standard
18.4R46	480/80R46	X	X	X
20.8R38	520/85R38	X	X	X
20.8R42	520/85R48	X	X	X
	1,80 to 2,25 m track depending on axles, wheels and options	1,80 to 2,25 m track depending on axles, wheels and options	1,80 to 2,25 m track depending on axles, wheels and options	

Standard: Originals dimensions delivered with the machine.
X: Options.



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