

# MAXIS

TECLINE-R







## 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](http://www.tecnoma.com)



## MAXIS TECLINE-R

A precision concentrate

The MAXIS TECLINE-R was developed to meet the highest of your technical-economic requirements. It can be custom equipped and benefits from "new technology" options and ISOBUS. The MAXIS has everything to push back the limits with tanks of 1200 and 1600 liters and an auxiliary tank of 700 and 1000 liters, thus offering autonomy and productivity on site.

The TECLINE-R booms from 20 to 30 meters and their patented "SMART-ACTIVE" suspension provide a homogeneous application with high precision. Their proven stability allows users to work with confidence regardless of topography, even at high speeds. **DPAE control**, optimised water circuit, **NOVAFLOW**, **AUTONET...**, continuous circulation, **NOZAL nozzles**, **OSS** and **NCIS** ensure that the MAXIS is the most powerful sprayer on the market.







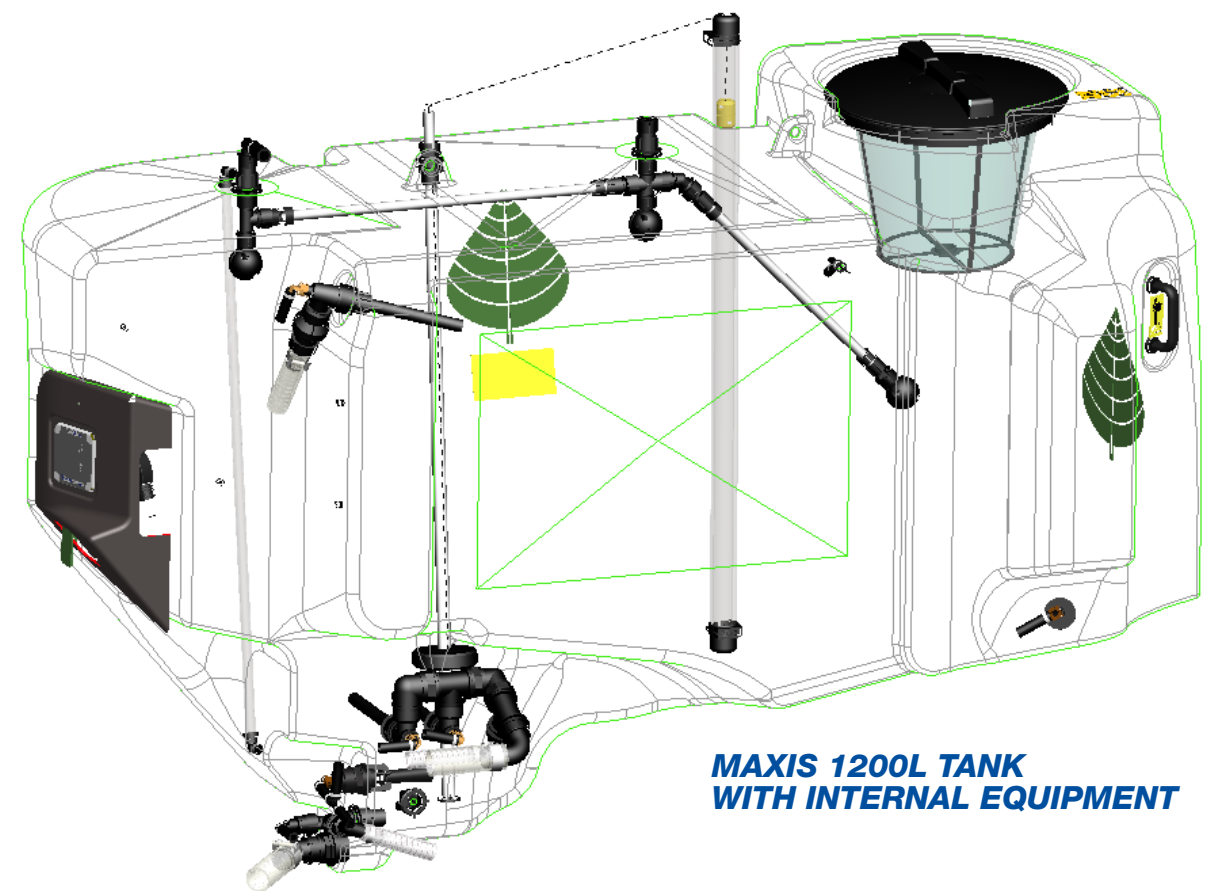
## A TRUSTED PARTNER

Always ready to come with you

A road-worthy carrier to go everywhere at high speed and for intensive work on the field. Its high-strength elastic steel design gives it high reliability. In high season, your tractor must remain a versatile tool to maintain your crops. **TECNOMA** has developed a series of automatic couplers to optimise coupling time and minimise overhang. The coupling is totally safe for the operator. The MAXIS design lets the centre of material gravity be lowered to improve stability and security.

The performance quality is inescapable: the paint process, to ensure the paint was strong enough to withstand chemical aggression and durable enough for long-term use, led to shot-blasting, an epoxy primer paint and a polyester finish paint, to get the high quality finish and the protection expected of MAXIS.

## A DIFFERENT WAY OF SPRAYING...



**MAXIS 1200L TANK  
WITH INTERNAL EQUIPMENT**

Protecting your crops is our focus and the circuit of the MAXIS 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 MAXIS allows good visibility for transport and work. The equipment is protected from any type of projection so that it remains in good use. MAXIS anticipates waste management for your safety and comfort.

### THE TANKS

- Main tank with dry tank gauge from 1200 to 1600 liters (nominal volume).
- 20 litres hand wash tank.
- Accessories and equipment integrated in the MAXIS shape: protection and easy cleaning.
- 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 litres
- 180 liters rinsing tank with more than 10% nominal volume from the main tank:
  - autonomy for sequential rinsing
  - tank and boom rinsing
  - 3 LAV'TON to rinse the main tank: full cleaning to avoid later contamination





## SO SIMPLE TO BE EFFECTIVE

A water circuit designed to increase the performance of the MAXIS and an operating area designed for logical and intuitive 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).

- Self-priming piston-diaphragm pumps PM400 or PM500 are optionals.
- Suction filter with removable filling strainer even if the tank is full for cleaning and discharge filter.
- Spray gauge to check the pressure Ø100 mm with expanded scale Class I with recirculation.

### THE OPERATING AREA

From implementation to spraying and up to waste management, the MAXIS performs all these operations: 2 unique multi-way valves for simple, safe and intuitive use:

- Operating area with 2 multi-way valves.
- Filling by suction with coupling Ø40 mm.
- Filling by gravity with strainer access by retractable step.
- Filling hyperaspiration.
- O'CLEAR system for filling.
- 15 liters induction hopper with built-in LavBox and rinsing gun.
- Full draining via manual valve.
- ...

### SAFETY

The safety of the operator and the safety of the environment are our priorities. Note:

- Pipe length is minimised and diameter optimised to significantly reduce dead volume = less loss of chemicals, simplified waste management.
- Induction hopper integrated in the sprayer tank profile: crop protection in the field and elimination of external pollution (dust, mud...).
- Anti-siphoning and anti-return incorporation circuit: protects the user and the environment, no foam in the tank.
- 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.

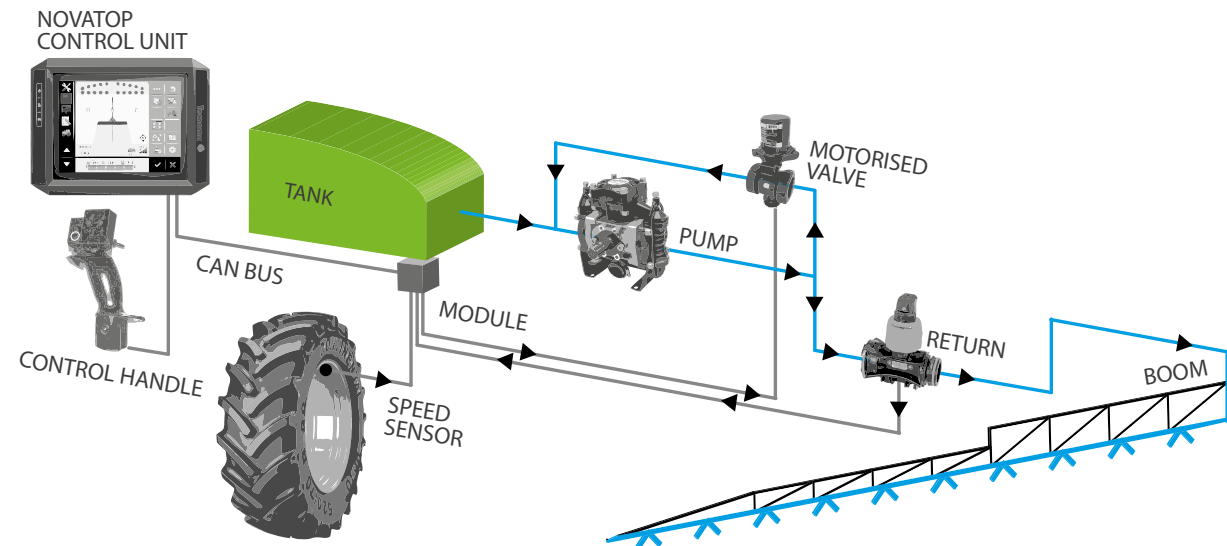
### THE OPTIONS

- **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 Tectronic 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.

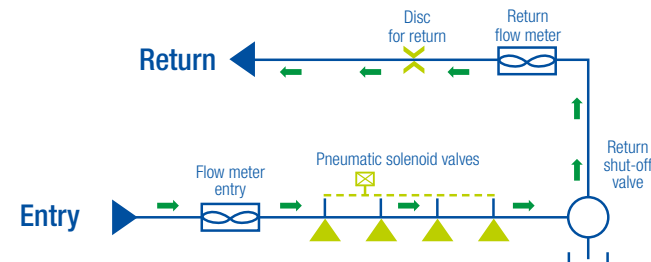
## To go even further...

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](http://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.

TECNOMA has been offering ISOBUS terminals (ISO 11783 standard) since 2006 and nowadays demonstrates the compatibility of its equipment with other terminals and conversely its own terminals from the NOVATOP range with other equipment. Watch our videos...



### 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...

### Booms = precision 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. The TECLINE-R boom is stable on "all terrain".

### Structure and architecture of the arms...

A metal-welded structure and mixed aluminium to meet the most demanding mechanical and working loads.

A parallelepiped structure consisting of 2 horizontal beams in folded sheet metal and a mechanically welded triangulated "core".

This structure makes it possible to respond to both vertical and horizontal requests.

At the joints, the arms are secured by a double locking device mounted on 2 eccentric parts allowing adjustment and suppression of functional clearances.

### BOOM SUSPENSION

#### SMART-ACTIVE, TECNOMA patent...

Central suspension with tilt correction and active absorption.

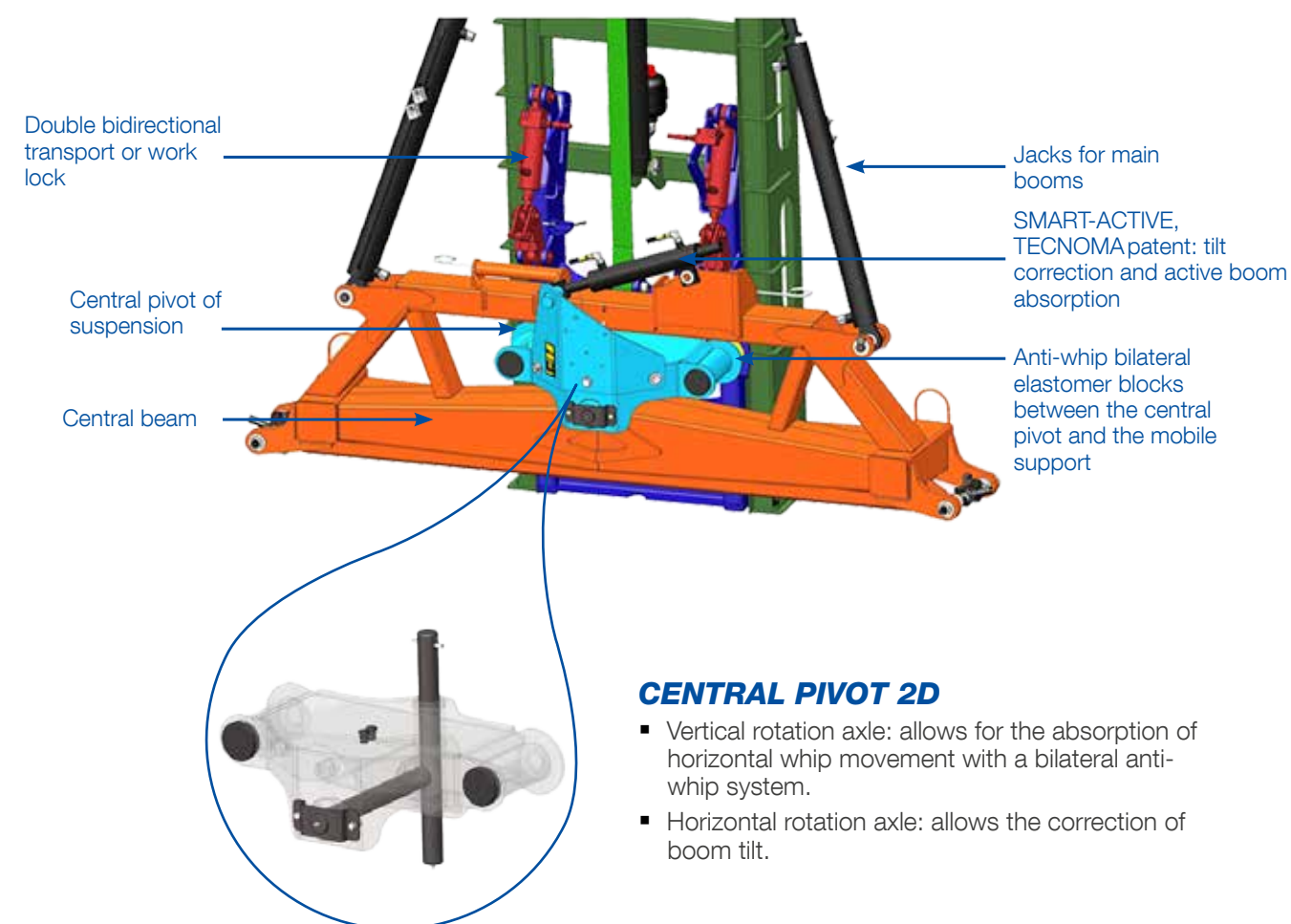
Boom tilt correction jack with dual function transversal shaft:

- Tilt correction.

- Active absorption for boom stability. While working, the jack is connected to 2 directed hydraulic accumulators. The system is going to absorb the irregularities in the terrain and thereby maintain the boom's stability during "bumpy" conditions.

- The pressure is adjustable/directed in function of the work conditions and the boom model.

- Each time the "tilt correction" function is used, the hydraulic accumulators' pressure is automatically readjusted.



### CENTRAL PIVOT 2D

- Vertical rotation axle: allows for the absorption of horizontal whip movement with a bilateral anti-whip system.
- Horizontal rotation axle: allows the correction of boom tilt.



## HYDRAULIC CONTROL

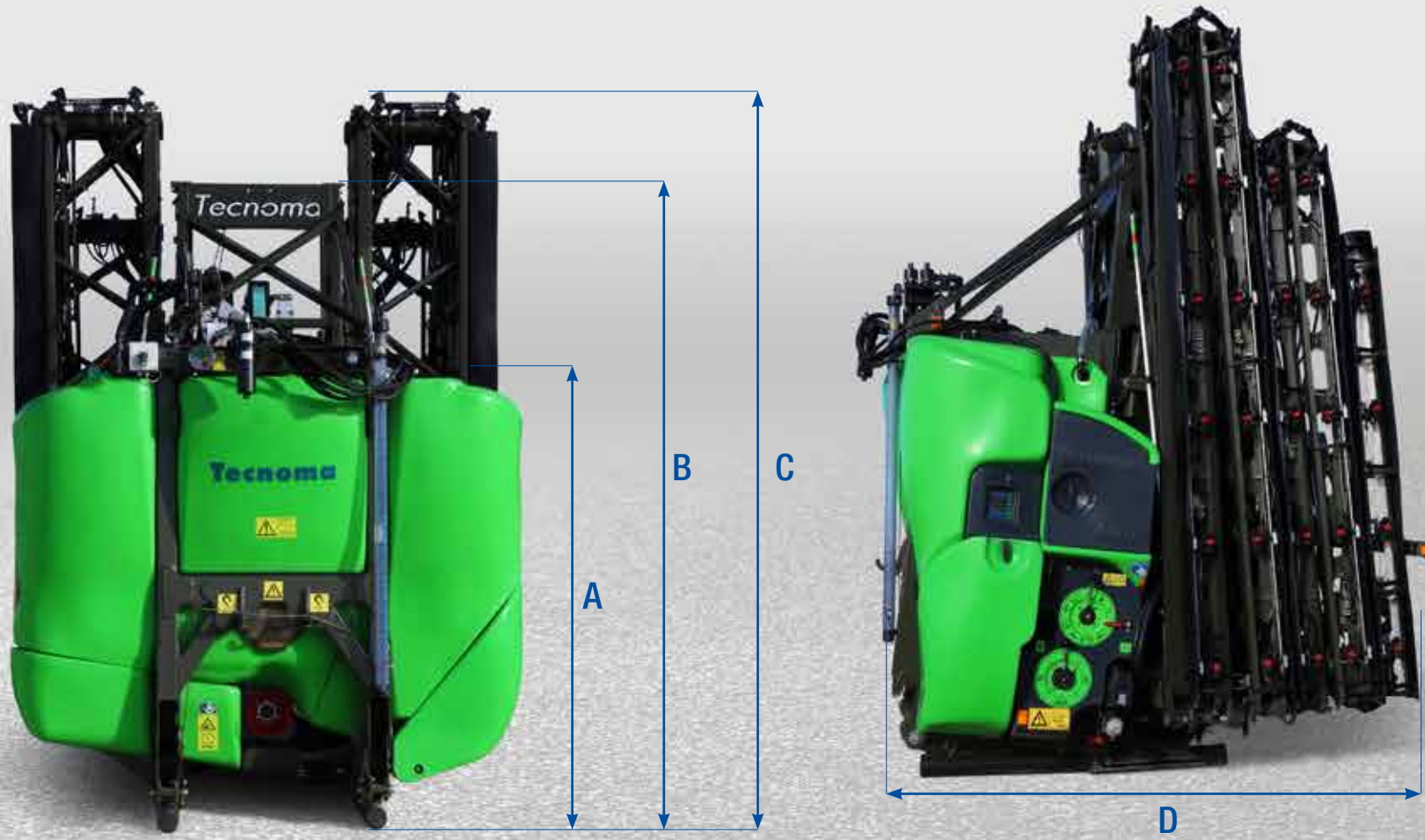
Boom configuration and hydraulic controls	VH1	VH2	VH3
Type of control unit in cab	SPRAYTRONIC, ELECTRONIC	TECTRONIC, NOVATOP,NOVATOPVISIO, i.TOP, i.TOP S	NOVATOP, NOVATOP VISIO, i.TOP, i.TOP S
Hydraulic equipment required on tractor	1 SE 2 DE	1 SE 1 Free return	1 SE 1 Free return
Cable box with input block CO/CF/LS - 160 bars to 210 bars - 40 l/min to 100 l/min		✓	✓
Climb/Descent - Slide with hydraulic accumulator suspension (700<height<2600)	✓	✓	✓
SMART-ACTIVE boom suspension	✓	✓	✓
Simultaneous folding/unfolding of the main arms	✓	✓	
Simultaneous or independent folding/unfolding of the main arms			✓
Double central lock	✓	✓	✓
Slope corrector	✓	✓	✓
Simultaneous folding/unfolding of the front arms	✓		
Simultaneous or independent folding/unfolding of the front arms (unsymmetrical work)		✓	✓
Lock on the joints (except on the end arm)	✓	✓	✓
Variable Geometries independent, positive and negative			✓
“Unilateral”function (avoid operating with total dissymetry)			✓
Option: Automatic boom management at the end of the plot		✓	✓
Option: TOPFIELD II ground tracking			✓
Option: hydraulic unit		✓	✓
Option: LoadSensing connection		✓	✓

Advantages	User benefits
Protected spray line along its entire length. While working, the deflector reduces turbulence due to speed or wind.	Safe and reliable working. Optimisation of application homogeneity.
LED lighting integrated into the PENTAJET (option).	Optimum illumination to allow work in night conditions and thus optimise the efficiency of the products.
With the continuous circulation with AGP option, the solenoid valves are powered electrically on a single line (carrier current).	Improved reliability by reducing branching. Easier modification of the number of sections.
Series of hydraulic tilt correctors. Boom designed and dimensioned to work on slopes up to 40%.	Versatile boom for all ground conditions, even the most extreme.
Tilt correction and active absorption with central 2D pivot.	Boom free and rigid along the length. The vertical and horizontal plane absorption, optimises the stability regardless of terrain and movement.
A spray line at the correct distance from the crop.	Optimal application.

## SPRAYING CONFIGURATION

TECLINE-R	Decoupling	Number of arms/side	Foldable extension	No. of sections for standard circulation, Series or Option	No. of maxi sections with continuous AGP circulation	OSS compatibility (option)	NCIS compatibility (option)
20m	20/17/12/7	4		6 7	13	yes	yes
21m	21/17/12/7	4		6 7 9	13	yes	yes
24m	24/18/12/7	4		6 7 8 9	13	yes	yes
27m	27/24/19/14/8	5		7 9	13	yes	yes
27/28m	27/28 // 24/19/14/8	5	2 x 0.5m	7 9	13	yes	yes
28m	28/24/19/14/8	5		7 9	13	yes	yes
29m	29/24/19/14/8	5		7 9	13	yes	yes
28/29m	28/29 // 24/19/14/8	5	2 x 0.5m	7 9	13	yes	yes
30m	30/25/20/14/8	5		8 9	13	yes	yes
28/30	28/30 // 25/20/14/8	5	2 x 1m	8 9	13	yes	yes





# SPECIFICATIONS

		Height tank/ground (A)	Height slide/ground (B)	Total height/ground (C)	Transport cantilever (D)	Overhang (E)
<b>MAXIS 1200</b>	<b>24 TECLINE-R</b>	1.60m	2.90m	2.90m	2.05m	1.35m
<b>MAXIS 1600</b>	<b>30 TECLINE-R</b>	1.80m	2.90m	3.30m	2.20m	1.35m

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

## CHASSIS AND HITCH

	MAXIS 1200	MAXIS 1600
Chassis	Mechanically welded	
Hitch	Automatic Cat II	Automatic Cat III
Hitch height	70 cm	
Stand	Sliding	

## BOOMS AND EQUIPMENT

	MAXIS 1200	MAXIS 1600
TECLINE-R steel boom	20 to 30 m	
Hydraulic control of boom	SC or ED	
Boom suspension	Smart-Active	
Pentajet nozzle holders with 4 series of NOZAL nozzles	Yes	
Stainless steel distribution tubes	Yes	
Sections	6 to 8 in series according to boom	

## WATER CIRCUIT TANKS

	MAXIS 1200	MAXIS 1600
Main tank (nominal volume)	1200 L	1600 L
Gauge	Dry float gauge	
Rinsing tank	180 L	
Rinsing of tank by LAV'TON	3	
Hand wash	20 L	
Integrated implementation package with	yes	
2 ergonomic multi-way valves		
Removable induction hopper with rinsing system and LAV'BOX	15 L	
Piston/diaphragm pump	PM 400 - 150 L/min - 15b	
Pump option	PM 500 - 240 L/min - 15b	
Filling	Manhole or fire connection Ø 400mm	
Hyper suction	250 L/min to 540 tr/min	
Triple levels of filtration	Filling - Suction Back flow towards Boom	
Agitation	2 hydro injectors	

## CONTROL SYSTEM

	MAXIS 1200	MAXIS 1600
DPAE control flowmeter	Yes	
Terminal in cab	SPRAYTRONIC, TECTRONIC or NOVATOP	
Joystick in cab	Yes with NOVATOP range	

## OTHER OPTIONS

Hydraulic unit	In VH2 and VH3 versions, the MAXIS is hydraulically independent
External back flow connector	40 mm diameter: lets you retransfer the volume in the tank to an auxiliary tank
20 M rewind+launch kit	Exterior rinse before returning to operation
TECFLOW	Removes any risk of overflow during filling
NOVAFLOWfilling	Automatic filling and overflow management
AUTONET for dilution rinsing	Tank residue and end of plot rinsing
SPIROVIT	Incorporation without contact
Boom working lights	Improved night vision to increase working time
Automatic boom management at the end of the plot	At the end of the plot, the boom moves up and down automatically to the correct working height
TOPFIELD II ground tracking for boom	A stable boom provides increased worksite performance and improved application
Additional sections for standard circulation (up to 9 sections)	Optimises spray surfaces
Continuous AGP circulation	Immediate priming, limits the risk of clogging, allows low volume spraying, immediate anti-drip reactivity
Additional sections for continuous AGP circulation (up to 13 sections)	Optimises spray surfaces
Multi-nozzle system OSS +	A perfect control of the spray spectrum responding to large variations in speed or application rate L/ha) and control by section
End nozzle	Easy spraying of plot borders
Front tank 700 and 1000 L	Increased autonomy for more productivity

## OPTIONS "PRECISION FARMING"

	MAXIS 1200	MAXIS 1600
Receiving signal DGPS, TERRASTAR or GPRS	Precision farming, numeric farming: "GPS ALL IN ONE by TECNOMA. The ultimate precision sprayer to improve agricultural, environmental, economic and ergonomic relations	
Guided by GPS		
Automatic sections		
Dose modulation		
On/off nozzle management by NCIS nozzle		
Control by section		

Long list of options. Please contact us with any questions.





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