

IMPERADOR 2000

The most comprehensive
self-propelled sprayer in
its category



IMPERADOR 2000

The most comprehensive line of sprayers, the Imperador 2000 gathers efficiency and the operating yield with the best spraying technologies. The machine delivers excellent precision thanks to the central booms, a Stara exclusive feature that provides more stability during applications to ensure 58% more of chemical on target.



IMAGE MERELY ILLUSTRATIVE



Imperador 2000 Top configuration

IMPERADOR 2000

Engine

Cummins® electronic engine with **200 cv** with turbo intercooler. In addition to a longer lifespan, the engine emits low pollutants and lower noise.

Stara Smart Transmission System*

With hydro-electronic transmission 4×4, information is displayed on Topper 5500, and the diagnostics of components is in real-time. Additionally, the fuel consumption is lower, there are safer operations and higher operation yield.

**Available on Intermediate and Top configurations*

Optimised Hydraulic System

The tank has a capacity of **60 litres** to ensure higher efficiency. It comprises a minimum level sensor and temperature sensor that allows the identification of possible system damage.

Rigid Chassis

Greater stability and less vibration result in optimum efficiency and greater comfort.

Wheel Tread Width Extending*

Hydraulic **2.60 to 3.20 metres**

**Available on Intermediate and Top configurations*



Ground Clearance

From **1.40 metres to 1.60 metres** for Intermediate and Top configurations.

SPRAYING

Spray booms

The Imperador lineup is the only one in the world with central booms. These ensure more stability during applications, and guarantee

58%

more chemical on target.*



* Data provided by FAPA - Portuguese acronym which stands for Agrarian Foundation of Agricultural Research.

Chemical Solution Tank

Capacity of **2,000 litres**.

Product Incorporator and Rinse Tank

The system is mounted on the exterior of the machine and has a capacity of **35 litres**.

Continuous Recirculating System

This exclusive system keeps the chemical solution constantly moving inside the tank and piping system. What it provides:

- Homogeneity and the exact chemical concentration during applications;
- Cleaner spraying system, without residues from previous applications;
- Longer components durability.

Clean Water Tank

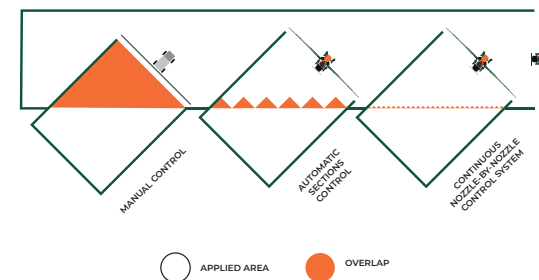
It cleans the tank and the spraying circuit. It features a capacity of **250 litres**.

Nozzle-by-Nozzle Control System*

It shuts off the spray nozzle automatically in areas where the chemical has already been applied, preventing overlap and reducing product waste.

* Available on Top configuration

CHEMICAL SAVINGS OF UP TO 5%



Application Height

Up to **2.20 metres**

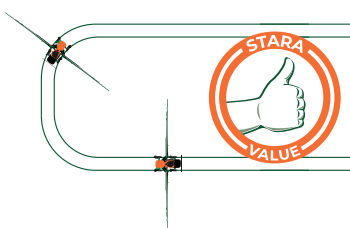
Weight Distribution



As the booms are central-assembled, the machine weight is **distributed 50% on the front axle and 50% on the rear axle**, to increase the traction capacity.

Smart 4-Wheel-Steering System*

It allows a turning radius **42% shorter** than conventional systems.



Up to **45% less crop damage** on the boundary and steering procedures on your crop

* Available on Top configuration

HIGHER RAMP CAPACITY

It allows the machine to operate over bumpy terrains.



TECHNOLOGY

TOPPER 5500 VT

The complete controller for Precision Agriculture, designed and manufactured by Stara. Its touch screen provides efficiency and more interactivity between the machine and the operator.

TD3 Auto Steering

A robust and reliable system that guarantees shorter response time. It prevents fails and overlaps, reduces crop damage, and the next machine traffic control becomes possible for further operations.

CONECTA

It is a remote access service that connects you, in real-time, to the After-Sales technician in the Stara factory. The connection is established through Topper 5500, which ensures fast and assertive support.

Whenever you need it, just connect it! An agile and at no cost after-sales available straight to your machine cab.

**Optional feature when the sprayer configuration has Topper*

SIGNAL CORRECTION*

It adds the best experience in signal correction, ensuring excellent precision in crop field operations. It is recommended for auto steering operations that require path following. It delivers a precision of 2.5 cm**, reducing crop damage losses and overlap significantly, resulting in higher operating yield.

**Optional feature*

*** Without the need of a base station to repeat the signal. Precision may vary according to the capacity of the receptors and weather conditions.*

TELEMETRIA STARA

The farm in the palm of your hand.

Through this system, you can manage your operations in the crop field in real time. Any device that has Internet access will provide you with.

Weather Condition Sensors

The Weather Condition Sensors provide temperature and humidity functions, which boost the application efficiency of Imperador.

Additionally, it has optional features, wind speed, and wind direction functions.

Stara Spraying App

Use your mobile phone camera to scan the QR code and download Stara's Spraying APP, and check the savings Imperador can provide your farm with.



TECHNICAL SPECIFICATIONS

Imperador 2000

Unloaded hopper weight
7,700 kg
Length
7.60 metres
Height
3.77 metres
Width (folded booms)
3.20 metres
Clean water tank
250 litres
Product incorporator and rinse tank
35 litres
Spray booms
27 metres
Chemical Solution Tank
2,000 litres
Spray pump
Stainless steel - 430L/min
Spraying technology
Continuous Recirculating System
7 sections
Bijet nozzle holder
0.50-metre spacing
Wheel tread width adjustment
2.75-metre fixed
Fuel tank
250 litres
Controller
Topper 5500 SL
Auto steering
TD3
Tyres
12.4 x 36
Application height
2 metres
Ground clearance
1.40 metres
Engine
Cummins® with 200 cv with turbo intercooler
Traction control
-
Smart 4-Wheel-Steering System
-
Weather Condition Sensors
Yes
Agitation system
Hydraulic agitator and mechanical mixer with fan.

Imperador 2000 Intermediate configuration

Unloaded hopper weight
8,900 kg
Length
7.60 metres
Height
3.97 metres
Width (folded booms)
3.20 metres
Clean water tank
250 litres
Product incorporator and rinse tank
35 litres
Spray booms
27 or 30 metres
Chemical Solution Tank
2,000 litres
Spray pump
Stainless steel - 430L/min
Spraying technology
Continuous Recirculating System
7 sections
Trijet nozzle holder
0.50-metre spacing
Wheel tread width adjustment
Hydraulic: 2.6 to 3.2 metres
Fuel tank
250 litres
Controller
Topper 5500 VT
Auto steering
TD3
Tyres Optional
13.6 x 38 16.9 x 30
Application height
2.20 metres
Ground clearance
1.60 metres
Engine
Cummins® with 200 cv with turbo intercooler
Traction control
Electronic system integrated
Smart 4-Wheel-Steering System
-
Weather Condition Sensors
Yes
Agitation system
Hydraulic agitator and mechanical mixer with fan
Optional features
Self-supply motor pump
Paid signal
Weather condition sensors

Imperador 2000 Top configuration

Unloaded hopper weight
8,900 kg
Length
7.60 metres
Height
3.97 metres
Width (folded booms)
3.20 metres
Clean water tank
250 litres
Product incorporator and rinse tank
35 litres
Spray booms
30 metres
Chemical Solution Tank
2,000 litres
Spray pump
Stainless steel - 430L/min
Spraying technology
Continuous Recirculating System
Nozzle-by-Nozzle Control System
Trijet nozzle holder
0.50-metre spacing
Wheel tread width adjustment
Hydraulic: 2.6 to 3.2 metres
Fuel tank
250 litres
Controller
Topper 5500 VT
Auto steering
TD3
Tyres Optional
13.6 x 38 16.9 x 30
Application height
2.20 metres
Ground clearance
1.60 metres
Engine
Cummins® with 200 cv with turbo intercooler
Traction control
Electronic system integrated
Smart 4-Wheel-Steering System
Yes
Weather Condition Sensors
Yes
Agitation system
Hydraulic agitator and mechanical mixer with fan
Optional features
Self-supply motor pump
Weather condition sensors

LEARN MORE

Position your mobile phone on the QR code to read it and check it out!

Website

Access Imperador 2000 homepage on Stara website for more information.

360° visibility machine cab

It adds great peripheral view, more comfort and ergonomics for the operator, which eases the commands operation access.

Stara Maintenance Program

Your machine ready for operations at all times. Access and learn more.

Video

See for yourself, Imperador 2000 operation quality in the crop field.



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www.stara.com.br/en

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IMPERADOR 2000 PV

Versatility and efficiency



IMPERADOR 2000 PV (PONTE VERDE SYSTEM)

Have you ever imagined combining excellent cost-benefit with the best technology package? The Stara Imperador 2000 PV provides a variety of remarkable features that ensure more savings and higher efficiency for each operation. In addition to spraying operations, Imperador 2000 PV performs pneumatic seeding through the exclusive Stara Ponte Verde System to meet all the demands the farmer needs on one single machine.



IMAGE MERELY ILLUSTRATIVE



Imperador 2000 PV Top configuration

Imperador 2000 PV

Engine

Cummins® electronic engine with **200 cv** and turbo intercooler. In addition to a longer lifespan, the engine emits low pollutants, causes fewer vibrations, and lower noise.

Stara Smart Transmission System

With hydro-electronic transmission 4×4, information is displayed on Topper 5500, and the diagnostics of components is in real-time. Additionally, the fuel consumption is lower, there are safer operations and higher operation yield.

Optimised Hydraulic System



The tank has a capacity of **60 litres** to ensure higher efficiency. It comprises a minimum level sensor and temperature sensor that allow the identification of possible system damage.

Rigid Chassis

Greater stability and less vibration result in optimum efficiency and greater comfort.

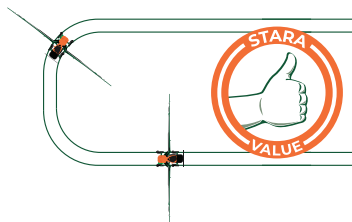
GREATER RAMP CAPACITY

It allows the machine to operate over bumpy terrains.



Smart 4-Wheel-Steering System

It allows a turning radius **42% shorter** than conventional systems.



Up to **45%** less crop damage on the boundary and steering procedures on your crop

Weight Distribution



As the booms are central-assembled, the machine weight is **distributed 50% on the front axle and 50% on the rear axle**, to increase the traction capacity.

Wheel Tread Width Extending

Hydraulic 2.60 to 3.20 metres



Ground Clearance

From **1.60 metres**

EFFICIENCY

Spray booms

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58%

more chemical on target.*

* Data provided by FAPA - Portuguese acronym which stands for Agrarian Foundation of Agricultural Research.



Chemical Solution Tank

Capacity of **2,000 litres**. Its exclusive design works as wave breakers.

Product Incorporator and Rinse Tank

The system is mounted on the exterior of the machine and with a capacity of **35 litres**.

Continuous Recirculating System

This exclusive system keeps the chemical solution constantly moving inside the tank and piping system. What it provides:

- **Homogeneity and the exact chemical concentration during applications;**
- **Cleaner spraying system, without residues from previous applications;**
- **Longer components durability.**

Clean Water Tank

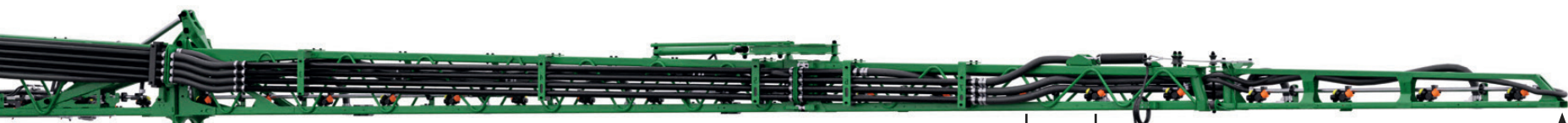
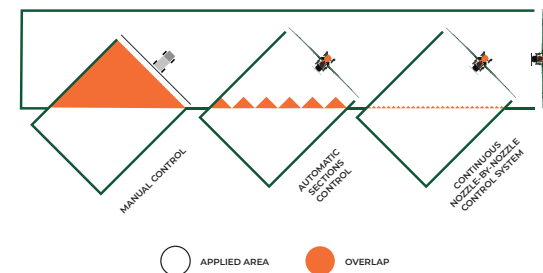
It cleans the tank and the spraying circuit. It features a capacity of **200 litres**.

Nozzle-by-Nozzle Control System*

It shuts off the spray nozzle automatically in areas where the chemical has already been applied, preventing overlap and reducing product waste.

* Available on Top configuration

CHEMICAL SAVINGS OF UP TO 5%



TOTAL LENGTH OF THE BOOMS
27 or 30 metres

Spacing between
nozzles of 0.50
metres

**Application
Height**
**Up to 2.20
metres**

IMPERADOR 2000 PV (PONTE VERDE SYSTEM)

Ponte Verde System



High yields come from established crop coverage. For higher cover crop efficiency, Imperador 2000 PV features a pneumatic system that provides seed sowing all over the length of the spray boom remarkably efficiently and more precisely.

This process follows the same spraying path, which reduces operating time, fuel consumption, and crop damages.

HIGH OPERATIONAL YIELD

40 ha/h*

* Depending on the sowing rate



COVER SEEDING OF

27 or 30 metres

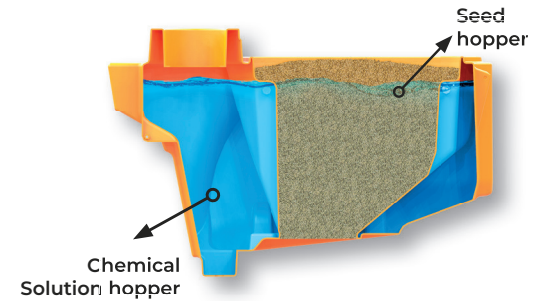
GREAT SEEDING UNIFORMITY COEFFICIENT OF VARIATION MAXIMUM OF 10%

* Data provided by FAPA - Portuguese acronym which stands for Agrarian Foundation of Agricultural Research MT Foundation. It may vary according to the seed and weather conditions.

Seed Hopper

INNER COMPARTMENT

1,5 m³



TECHNOLOGY EQUIPMENT

TOPPER 5500

The complete controller for Precision Agriculture, designed and manufactured by Stara. Its touch screen provides efficiency and more interactivity between the machine and the operator.

TD3 Auto Steering

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Stara Spraying App

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TECHNICAL SPECIFICATIONS

Imperador 2000 PV Intermediary configuration	Fuel tank
Unloaded hopper weight	250 litres
9400 kg	Controller
Length	Topper 5500 VT
7.60 metres	Auto steering
Height	TD3
3.97 metres	Tyres Optional
Width (folded booms)	13.6 x 38 16.9 x 30
3.20 metres	Application height
Clean water tank	2.20 metres
200 litres	Ground clearance
Product incorporator and rinse tank	1.60 metres
35 litres	Engine
Spray booms	Cummins® with 200 cv and turbo intercooler
27 or 30 metres	Traction control
Chemical Solution Tank	Electronic system integrated
2,000 litres	Smart 4-Wheel-Steering System
Seed hopper	No
1.5 m ³	Weather condition sensor
Spray pump	Yes
Stainless steel - 430L/min	Signal correction
Spraying technology	Yes*
Continuous Recirculating System	Agitation system
7 sections	Hydraulic agitator and mechanical mixer with propeller
Trijet nozzle holder	Optional features
0.50-metre spacing	Self-supply motor pump
Wheel tread width adjustment	Weather condition sensors
Hydraulic: 2.6 to 3.2 metres	

*1 year of signal at no charge

LEARN MORE

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360° visibility machine cab

It adds great peripheral view, more comfort and ergonomics for the operator, which eases the commands operation access.



Stara Maintenance Program

Your machine ready for operations at all times. Access and learn more.



TECHNICAL SPECIFICATIONS

Imperador 2000 PV Top configuration	Fuel tank
Unloaded hopper weight	250 litres
9400 kg	Controller
Length	Topper 5500 VT
7.60 metres	Auto steering
Height	TD3
3.97 metres	Tyres Optional
Width (folded booms)	13.6 x 38 16.9 x 30
3.20 metres	Application height
Clean water tank	2.20 metres
200 litres	Ground clearance
Product incorporator and rinse tank	1.60 metres
35 litres	Engine
Spray booms	Cummins® with 200 cv and turbo intercooler
30 metres	Traction control
Chemical Solution Tank	Electronic system integrated
2,000 litres	Smart 4-Wheel-Steering System
Seed hopper	Yes
1.5 m ³	Weather condition sensor
Spray pump	Yes
Stainless steel - 430L/min	Signal correction
Spraying technology	Yes*
Continuous Recirculating System	Agitation system
Nozzle-by-Nozzle Control System	Hydraulic agitator and mechanical mixer with propeller
Trijet nozzle holder	Optional features
0.50-metre spacing	Self-supply motor pump
Wheel tread width adjustment	Weather condition sensors
Hydraulic: 2.6 to 3.2 metres	

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