

Stara
Constant Evolution

IMPERADOR 3000 and 4000

Higher spraying efficiency



IMPERADOR 3000 and 4000

THE HIGHER SPRAYING EFFICIENCY PROVIDED BY IMPERADOR 3000 AND 4000 FROM STARA IS THE RESULT OF INNOVATIVE TECHNOLOGIES COMBINED WITH PROVEN APPLICATION QUALITY. IMPERADOR SPRAYERS STAND OUT FOR THEIR EXCELLENT APPLICATION ACCURACY, ENSURED BY CENTRALLY MOUNTED BOOMS COMBINED WITH TECHNOLOGIES SUCH AS THE CONTINUOUS RECIRCULATION SYSTEM, NOZZLE-BY-NOZZLE CONTROL SYSTEM, TWIN ROW SPRAYING SYSTEM, AND SMART 4-WHEEL STEERING, PROVIDING EVEN GREATER SPRAYING EFFICIENCY AND REDUCED OPERATING COSTS. IMPERADOR 3000 AND 4000 ARE EQUIPPED WITH UP & DOWN - HYDRAULIC LIFT SYSTEM, A FEATURE THAT ALLOWS THE HIGHEST APPLICATION HEIGHT - 3 METRES, AND THE HIGHEST GROUND CLEARANCE ON THE MARKET - 2 METRES. THIS SYSTEM ALLOWS THE MACHINE TO ENTER THE CROP AFTER THE MAIZE TASSELLING STAGE.





Imperador 4000

IMPERADOR 3000 and 4000

Engine

Electronic Cummins 6.7 L turbo engine, with **260 cv** (3000) and **295 cv** (4000). In addition to more economy and durability, the engines emit fewer pollutants, cause fewer vibrations, and generate lower noise.

Improved Hydraulic System



It automatically adjusts the oil flow required for each operation, especially the spray pump flow. It provides gains of an average of **8 cv**.

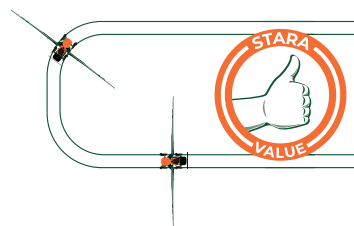
**UP TO 2.5%
SAVINGS ON FUEL**

Oil reservoir tank

Single hydraulic system of **80 litres**.

Smart 4-Wheel-Steering System*

It allows for turning radius up to **42%** shorter than conventional systems.



Up to **45% less crop damage** during steering procedures on your crop field

Optional feature

Stara Smart Transmission



With hydro-electronic transmission 4x4, the information is displayed on Topper, and diagnostics of components is in real-time.

Rigid chassis

It provides greater stability and reduced vibrations that result in optimum efficiency and greater comfort.

product induction system

Enhanced operational convenience during spray solution preparation, with a triple rinse system.



Ground clearance:
From 1.6 to 2 metres
when equipped
with Up & Down -
Hydraulic Lift System

Hydraulic wheel tread width
extending - from 2.9 to 3.5 metres

SPRAYING

Booms

The Imperador lineup is the only one in the world with central booms, which ensure more stability during applications, and ensure up to

58% 
more of the chemical solution on target.*
* Data provided by FAPA - Portuguese acronym which stands for Agrarian Foundation of Agricultural Research

Chemical solution tank

Imperador 4000 - capacity of **4,000 litres**.
Imperador 3000 - capacity of **3,000 litres**. Its exclusive design works as wave breakers.

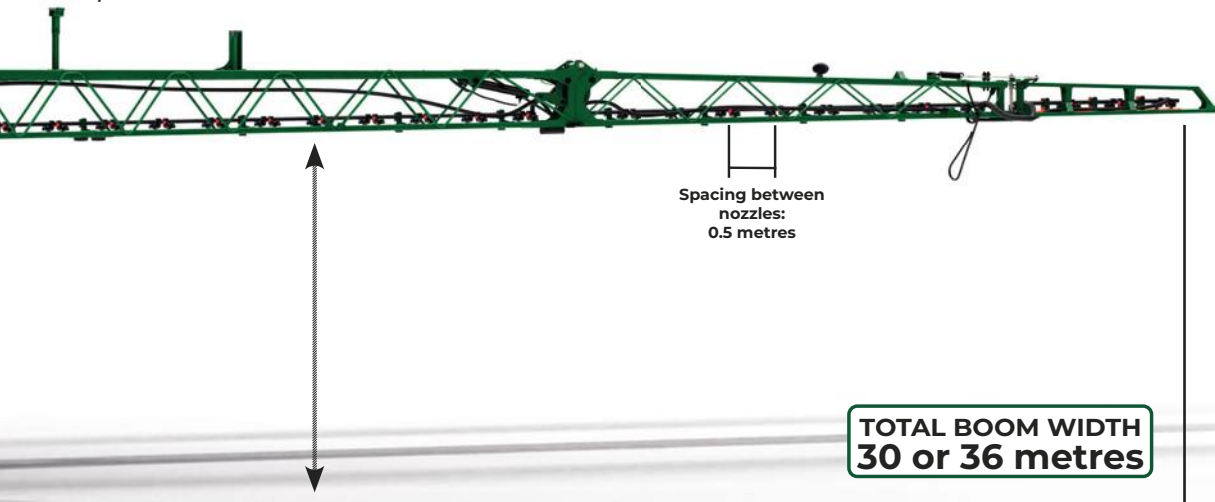
Clean water tank

400 litres of capacity.

Blue Beam*

Boom-mounted lighting provides excellent visibility during nighttime applications.

* Optional feature



Spacing between nozzles:
0.5 metres

**TOTAL BOOM WIDTH
30 or 36 metres**

Maximum application height from 2.6 to 3 metres when equipped with Up & Down - Hydraulic Lift System.

Self-Cleaning System

Imperador 3000 and 4000 automatically cleans the spraying system and the spray nozzles. Providing more practical and efficient machine maintenance services.

Continuous Recirculating System*

This exclusive system keeps the chemical solution constantly moving inside the tank and piping system. Benefits:

- Homogeneous chemical mixing during applications;
- Cleaner spraying, and no residual from the previous applications;
- Greater component durability.

Watch the video
Continuous Recirculating System



Chemical Mixing

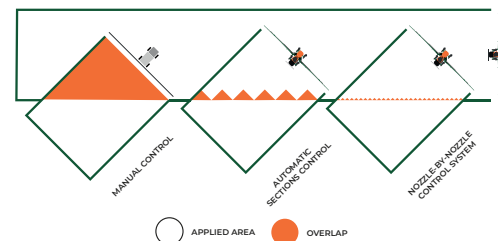
In addition to the hydraulic tank agitator, it also features a mechanical agitator with propeller, ensuring improved mixture homogeneity for higher-quality application.

Nozzle-by-Nozzle Control System*

It shuts off the spray nozzle automatically, when Topper controller identifies an area where the chemical has already been applied, preventing overlap and reducing product waste.

* Optional feature

**UP TO 5% SAVINGS ON
CHEMICALS**



Twin Row Spraying System*

It consists of two spray nozzles that allow applications with greater wider operating speed range. Consequently, increasing the operational efficiency. These lines can work either alternated or together. By operating at optimal pressure levels, the system ensures excellent spray quality, maintaining uniform droplet size and minimizing drift.

* Optional feature

Weight distribution



Boom stability is achieved thanks to the machine weight distribution - 50% on the rear section and 50% on the front section.

UP & DOWN HYDRAULIC LIFT SYSTEM*

* Optional feature

It allows the operator to elevate the ground clearance by **40 centimetres**, from **1.6 to 2 metres**. This system is activated by Topper.

ADVANTAGES

- Pest and disease control when the maize plants are in tasselling stage;
- Plants less susceptible to the influence of pests and diseases and crop yield increase.



FROM 1.6 METRES

APPLICATION HEIGHT

UP TO **3** METRES

WHEN NECESSARY, JUST LIFT IT

+40 CENTIMETRES



TO 2 METRES

TECHNOLOGY

TOPPER 6500

Topper 6500 is the new Precision Agriculture controller developed by Stara. The company is a pioneer in developing its own technologies and debuts to the market, a new version of the device that delivers faster information processing and easy operations in the field.

TD3 Auto Steering

A robust and electro-hydraulic system that ensures a shorter response time for operations by using auto steering. As a result, it reduces failures and overlaps. Additionally, it reduces crop damage and allows for the following machine traffic for operations.

CONNECTA

It is a remote access service that connects the operator, in real-time, to the After-Sales technician in the Stara factory. The connection is established through Topper which ensures fast and assertive support. **Whenever you need, just connect it! An agile and at no cost after-sales available straight to your machine cab.**



TELEMETRIA STARA

The farm in the palm of your hand.

Thanks to 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

They provide temperature and humidity functions to help during applications. Additionally, as an optional feature, there are wind speed and wind direction functions.

Free Signal Correction*

It adds the best experience in signal correction, ensuring higher precision in crop field operations. It is recommended for auto steering operations that require path following. It delivers a precision of 2.5 cm**, considerably reducing crop damage losses and overlap. As a consequence, it provides a higher operational yield.

* Optional feature

** There is no need for a base station to repeat the signal. Precision may vary according to the receptors capacity and weather conditions.



TECHNICAL SPECIFICATIONS

Model Imperador 3000	Model Imperador 4000
Weight 11,880 kg and 12,530 kg when equipped with Up & Down - Hydraulic Lift System	Weight 12,120 kg and 12,770 kg when equipped with Up & Down - Hydraulic Lift System
Length 8.7 m	Length 8.7 m
Booms 30 or 36 m	Booms 30 or 36 m
Width (folded booms) 3.2 m	Width (folded booms) 3.2 m
Height 4 m and 4.4 m when equipped with Up & Down - Hydraulic Lift System	Height 4 m and 4.4 m when equipped with Up & Down - Hydraulic Lift System
Distance between axles 4 m	Distance between axles 4 m
Wheelset extending From 2.9 to 3.5 m	Wheelset extending From 2.9 to 3.5 m
Ground clearance From 1.6 to 2 m when equipped with Up & Down - Hydraulic Lift System	Ground clearance From 1.6 to 2 m when equipped with Up & Down - Hydraulic Lift System
Chemical solution tank 3,000 L	Chemical solution tank 4,000 L
Clean water tank 400 L	Clean water tank 400 L
Product induction system and rinse tank 40 L	Product induction system and rinse tank 40 L
Trijet nozzle holder Spacing of 0.5 m	Trijet nozzle holder Spacing of 0.5 m
Fuel tank 400 L	Fuel tank 400 L
Spray pump Stainless steel - 803 L/min	Spray pump Stainless steel - 803 L/min
Tyres 380/90 R46	Tyres 380/90 R46
Engine Cummins electronic engine 6.7 - 260 cv with turbo charger	Engine Cummins electronic engine 6.7 - 295 cv with turbo charger
Controller Topper 6500	Controller Topper 6500
Application height From 2.6 to 3 m when equipped with Up & Down - Hydraulic Lift System	Application height From 2.6 to 3 m when equipped with Up & Down - Hydraulic Lift System
Agitation system Hydraulic agitator and mechanical mixer with propeller	Agitation system Hydraulic agitator and mechanical mixer with propeller
Optional features Up & Down - Hydraulic Lift System Nozzle-by-Nozzle Control System Twin Row Spraying System Smart 4-Wheel-Steering System Blue Beam Rear-view camera Self-supply pump Land Space	Optional features Up & Down - Hydraulic Lift System Nozzle-by-Nozzle Control System Twin Row Spraying System Smart 4-Wheel-Steering System Blue Beam Rear-view camera Self-supply pump Land Space

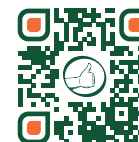
LEARN MORE

Scan the QR code with your mobile phone to check it out!



Website

Access Imperador 3000 and 4000 homepage on Stara website for more information.



Video

See the Imperador 3000 and 4000 in operation in the field



Stara Spraying App

Download Stara's Spraying App, and check the savings that Imperador can provide your farm with.



360° visibility from the machine cab

Provides excellent all-round visibility, comfort and ergonomics for the operator, making operation easier.



Stara Maintenance Program

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



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www.stara.com.br/en

STARA S.A. Agricultural Implements Industry | Av. Stara, 519 - Post office box 53 - Não-Me-Toque/RS - Brazil | Phone/Fax: 55 54 3332 2800 | Postcode: 99470-000 | Email address: contact@stara.com.br

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