



FORTRON TECH

SMART **ISOBUS** SOLUTIONS



FORTRON

OUR BUSINESS IS IN OUR DNA

FORTRON IS A UNION BETWEEN
FORCE AND ELECTRON

*The robustness of the countryside
with the intelligence of technology,
to bring more efficiency to farmers.*



Fortron is the ideal technology partner for farmers seeking efficiency, innovation, and greater profitability in the field.

With solutions in precision agriculture, geopositioning, and digital agriculture, we optimize every stage of agricultural production.

We offer modern equipment that allows for accurate, real-time monitoring of implements directly from the tractor cab, ensuring more productive, safer, and higher quality operations. Our intelligent systems quickly identify operational failures, reducing losses and increasing productivity.

With cutting-edge technology and specialized support, we help farmers transform data into strategic decisions for the success of their business.

OUR HISTORY

For a decade, Fortron has been dedicated to offering innovative technological solutions that transform the routine of farmers and increase productivity in the field, boosting Brazilian agribusiness.

We are recognized for our technical expertise and commitment to excellence. We have a specialized team with extensive experience, always focused on ensuring exceptional results for farmers, generating prosperity for the entire agribusiness chain.

Our history is built on every partnership we form and every challenge we overcome alongside rural workers. We cultivate solid relationships because we believe they are the foundation for continuous innovation, collaboration, and overcoming challenges.

Over the next ten years and beyond, we will remain committed to developing technologies that make a difference in the field. Because for Fortron, more than just business, this is our mission and reason for being.

10

ANOS

TIMELINE



MISSION

Democratize technology in the countryside, bringing innovation to all producing regions to transform agribusiness into a model of productivity and efficiency.

VISION

To consolidate our position as a leader in agricultural technology, recognized for excellence in innovative solutions that increase productivity in the field and generate prosperity for rural producers.

VALUES



CUSTOMER FOCUS

Tailored solutions to meet the needs of each farmer.



INNOVATION

Commitment to cutting-edge technology that transforms agribusiness



EXCELLENCE

Delivery of products and services that exceed customer expectations.



PARTNERSHIP

Strong and lasting relationships with customers and suppliers.



RESPECT AND MERITOCRACY

We value talent, fairness, and respect in all our relationships.

TECHNOLOGY AT THE SERVICE OF FARMERS

2020

CAN Bus GNSS
Receivers

2021

Optimus Jet
Furrow Sprayers

2022

ISOBUS ECUS

2023

ISOBUS
Variable Rate
Control

2024

ISOBUS Dry
Spreaders

2025

Electronic Solutions
For Planters

ELECTRONIC CONTROL FOR PLANTERS



ISOBUS SYSTEM

- Replaces complex mechanical systems with electric motors on each row.



ACCURACY AND EFFICIENCY FOR YOUR CROP



RATE CONTROL

For seed and fertilizer using prescription maps or fast on screen dose adjusting.



ROW-BY-ROW SHUTOFF

No overlap or waste of seeds, generating savings.



CURVE COMPENSATION

Maintains seed spacing in each row on curves.



MONITORING

Simultaneous control of seeds, fertilizer, and furrow sprayer.



RETROFIT

Ideal for upgrading used planters with state-of-the-art technology.



COMPATIBILITY

Lower investment, compatible with any brand.



INTUITIVE AND EASY TO USE

Reduce the operator's learning curve.



ACCURATE CALCULATIONS

Coefficient of variation, rate, population, hour meter, and area meter.



SMART ALERTS

Notify the operator of any anomalies in planting.



OPERATION RECORD

Records data and integrates with digital agriculture platforms.

VARIABLE RATE

Automatic adjustment of application rates according to the field prescription map.



MORE AGILITY

Automatic adjustments, without interruptions in planting.

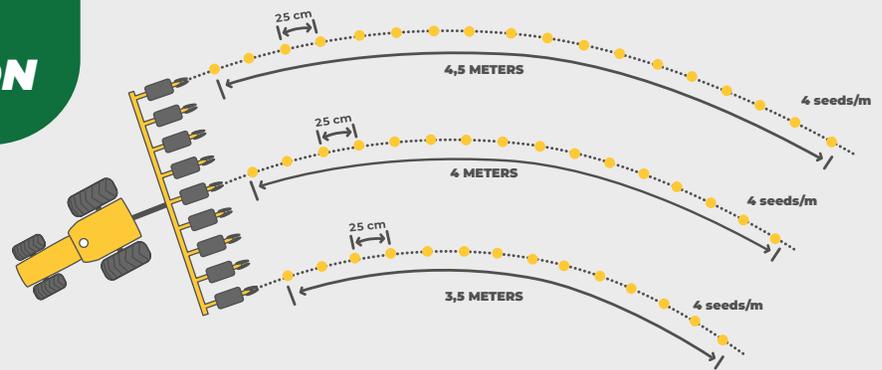


INPUT SAVINGS

Intelligent application: right dose, in the right place.

CURVE COMPENSATION

Automatic compensation maintains the target population and interplant spacing regardless of the curvature of the path.



UNIFORM DISTRIBUTION

Even spacing and same population on the rows, even on sharp curves.



HIGHER PRODUCTIVITY

Correct spacing, reducing competition between plants.

ROW-BY-ROW SHUT-OFF

Automatic row shut-off by GPS signal, which identifies areas already planted, or by manual command directly from the cab.



PREVENTS OVERLAPPING

Automatically disconnects the line in areas that have already been planted.



HIGHER PRODUCTIVITY

Eliminates overlap, reducing competition between plants.



YOUR PLANTER READY FOR PRECISION AGRICULTURE

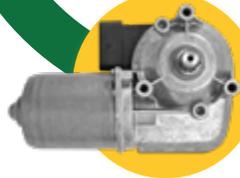


COMPATIBLE WITH THE OPTIMUSJET FURROW SPRAYER



WI-FI AND BLUETOOTH WITH REMOTE UPDATES

ELECTRONIC CONTROL FOR PLANTERS

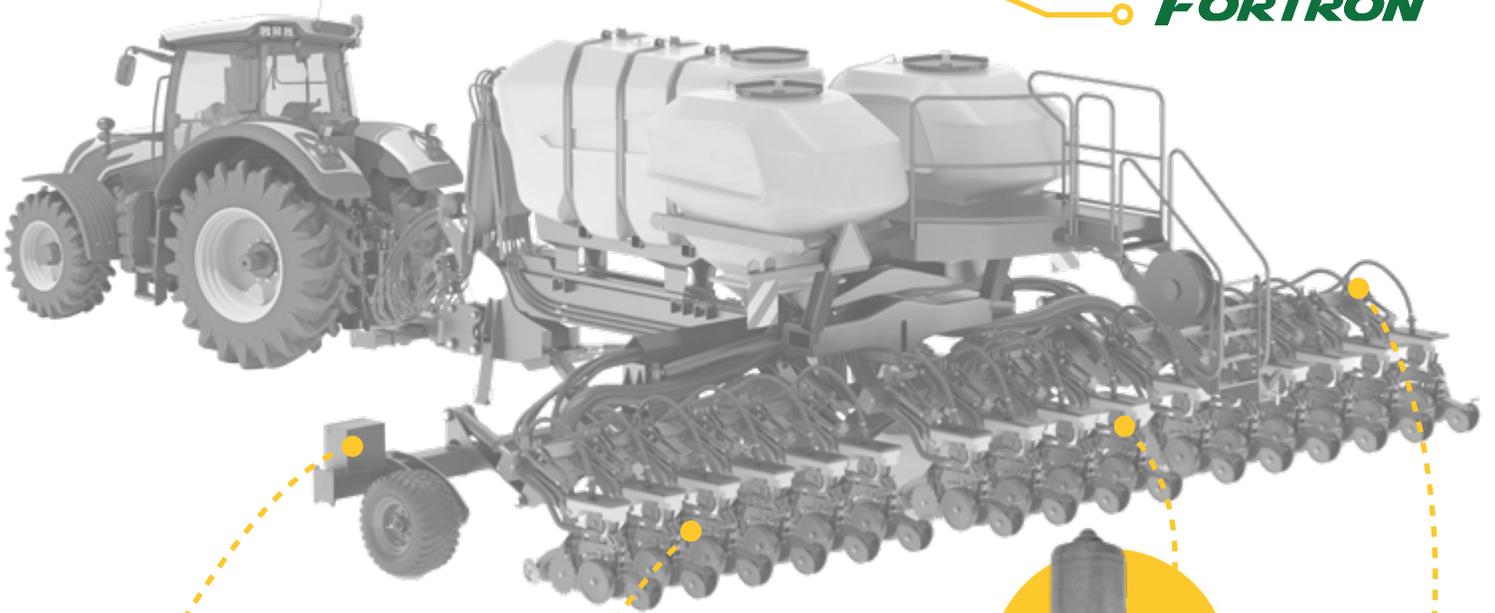


ISOBUS SYSTEM



CONNECTION DIAGRAM



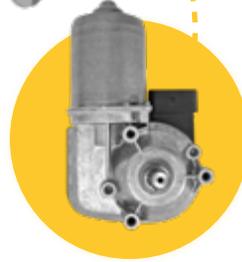


LEFT-SIDE GPS



SEED SENSOR

High-quality glass lenses and optics for improved accuracy, even with small crops such as sorghum.



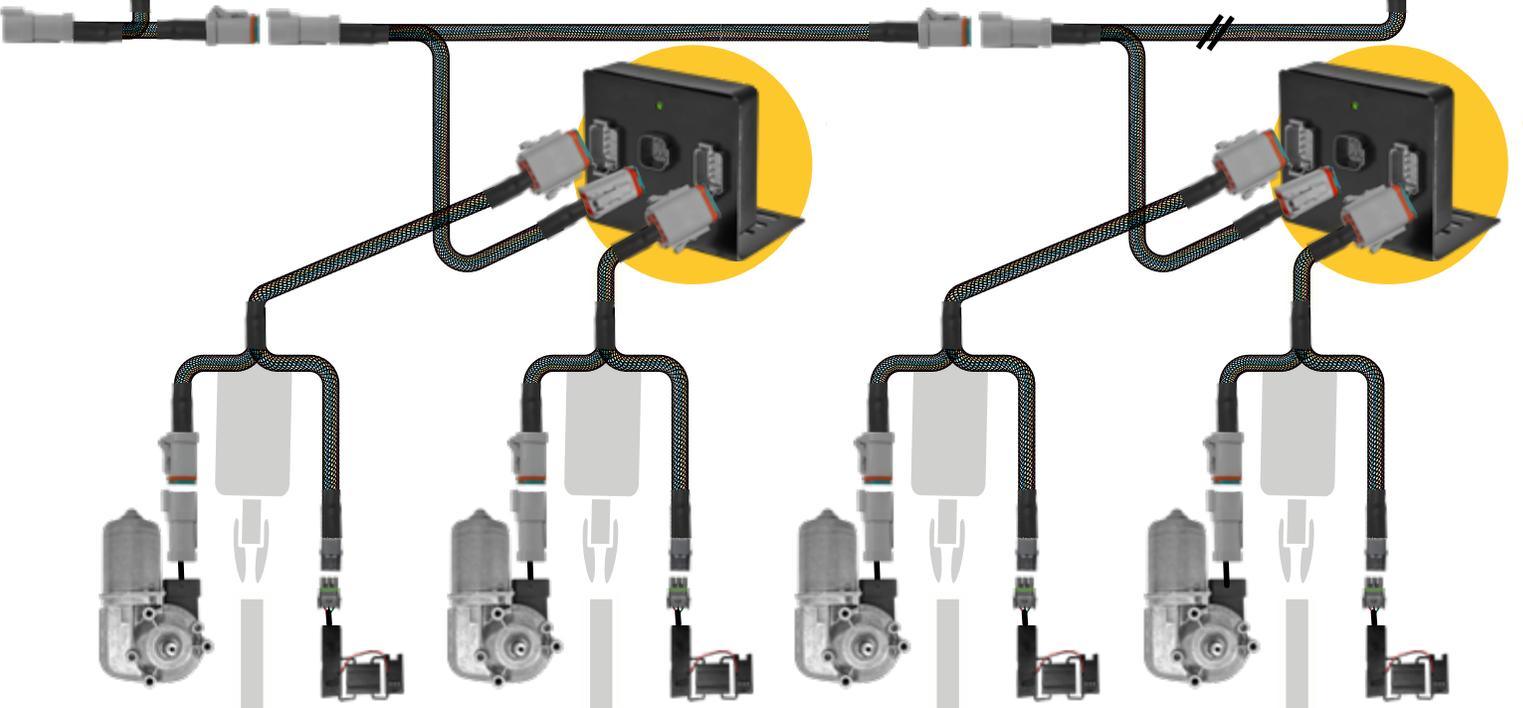
ELECTRIC MOTOR



RIGHT-SIDE GPS

MTS ECU

Controls the electric motors and monitors the seed lines.



YOUR PLANTER READY FOR PRECISION AGRICULTURE



COMPATIBLE WITH THE OPTIMUSJET FURROW SPRAYER



WI-FI AND BLUETOOTH WITH REMOTE UPDATES

ELECTRONIC VARIABLE RATE CONTROL FOR DRY FERTILIZER



ISOBUS SYSTEM

- Compatible with Planters and Drillers.



PRECISE APPLICATION FOR FERTILIZER



VARIABLE RATE CONTROL

Using prescription maps or manually by the operator.



AUTOMATIC SHUTDOWN

Automatic or manual shutdown of fertilizer sections.



INPUT SAVINGS

Avoiding waste and ensuring the right dose in the right place.



HIGHER PRODUCTIVITY

Healthier and more fertile soil, increasing production potential.



INTUITIVE AND EASY TO USE

Reduce the operator's learning curve.



OPERATION RECORD

Records data and integrates with digital agriculture platforms.



CONNECTION DIAGRAM



VARIABLE RATE
CONTROL WITH
PRESCRIPTION MAPS



FERTILIZER
AXLE
SECTION 2

FERTILIZER
AXLE
SECTION 1

Electric Motor

Electric Motor

Encoder
Section 2

Encoder
Section 1

MTS ECU

Controls the speed of electric and hydraulic motors.

GENERATOR UNIT



POSSIBILITY OF ADDING
PLANTING MONITORING
ON THE SAME SCREEN



COMPATIBLE WITH
THE OPTIMUSJET
FURROW SPRAYER



WI-FI AND
BLUETOOTH WITH
REMOTE UPDATES

CLUTCH CONTROL FOR **SEED ROWS**

ISOBUS SYSTEM

- ROW-by-ROW shutdown with electric clutches, eliminating seed overlap and reducing costs.



REDUCE SEED OVERLAPPING



ROW SHUT-OFF

Automatic line control using GPS signal or manual control.



LESS OVERLAP

Savings in inputs, increased productivity, and reduced costs.



EASY INSTALLATION AND USE

Compatible with any planter and easy to use by the operator.



MONITORING

Simultaneous control of seeds, fertilizer, and furrow sprayer.



ELIMINATE SCREENS

Control of the implement on the tractor's ISOBUS screen.



OPERATION RECORD

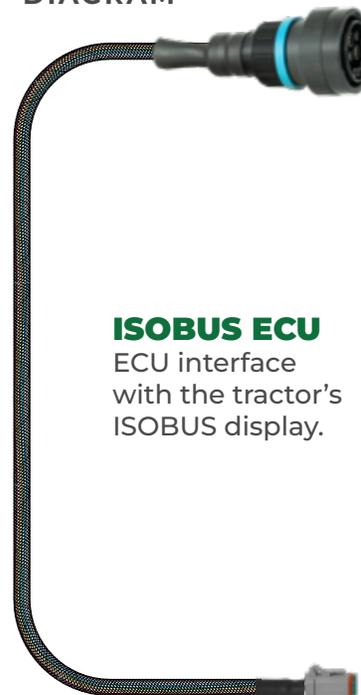
Records data and integrates with digital agriculture platforms.



CONNECTION DIAGRAM



Tractor's ISOBUS Socket.



ISOBUS ECU

ECU interface with the tractor's ISOBUS display.



ELIMINATE
OVERLAPS IN
YOUR CROPS



OPTIMUS ECU

Allows the activation of electromagnetic clutches.



ELECTROMAGNETIC CLUTCH

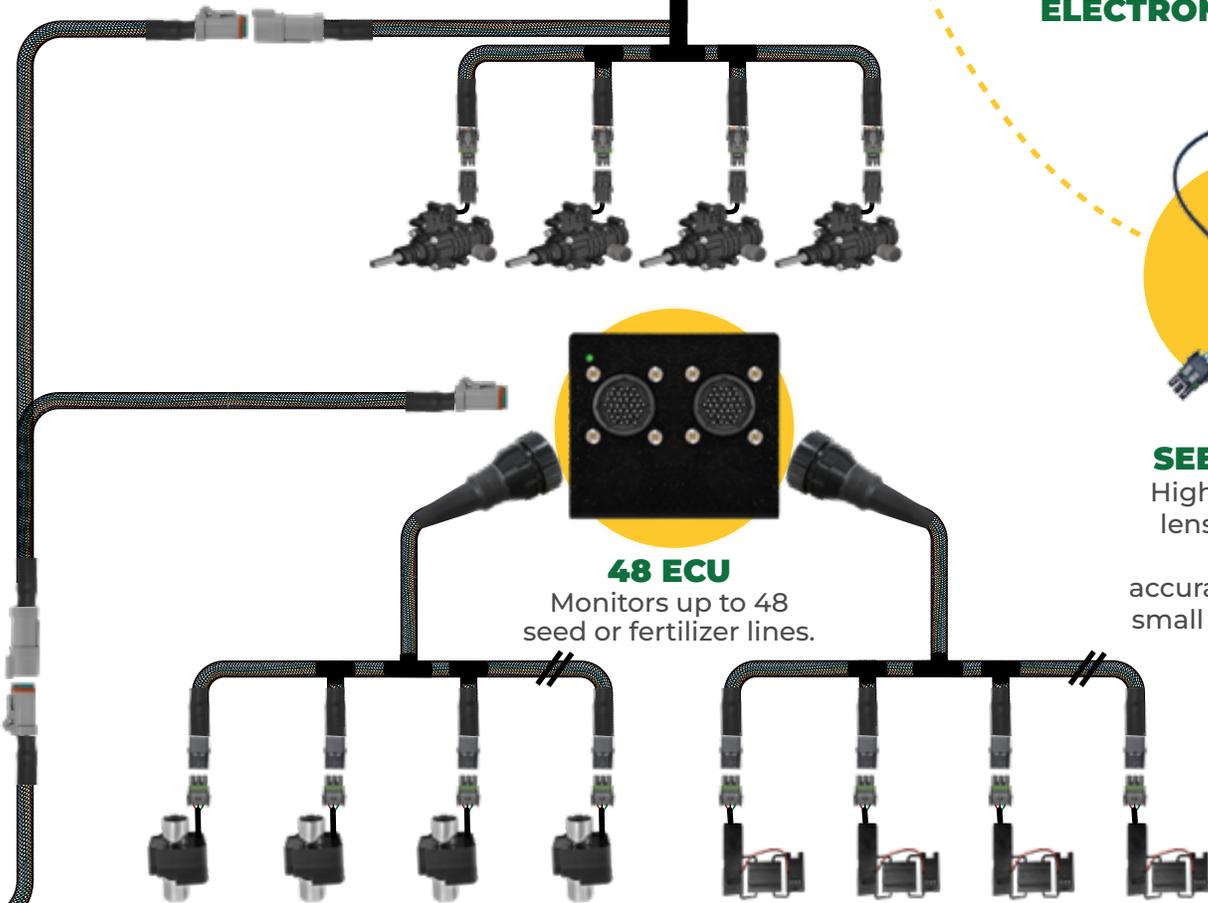


SEED SENSOR

High-quality glass lenses and optics for improved accuracy, even with small crops such as sorghum.

48 ECU

Monitors up to 48 seed or fertilizer lines.



FERTILIZER MONITORING

SEED MONITORING



POSSIBILITY OF ADDING PLANTING MONITORING ON THE SAME SCREEN



COMPATIBLE WITH THE OPTIMUSJET FURROW SPRAYER



WI-FI AND BLUETOOTH WITH REMOTE UPDATES

VARIABLE RATE
CONTROL FOR
**SEED AND
FERTILIZER**
WITH HYDRAULIC MOTORS

ISOBUS SYSTEM

- Allows independent seed and fertilizer application rates to be simultaneously applied during planting.



**REDUCE
PLANTING
COSTS**



RATE CONTROL

Using prescription maps or manually by the operator.



IDEAL SPACING

Instant adjustment between seeds, without interrupting planting.



RETROFIT

Ideal for upgrading used planters with state-of-the-art technology.



MONITORING

Simultaneous control of seeds, fertilizer, and furrow sprayer.



INTUITIVE AND EASY TO USE

Reduce the operator's learning curve.

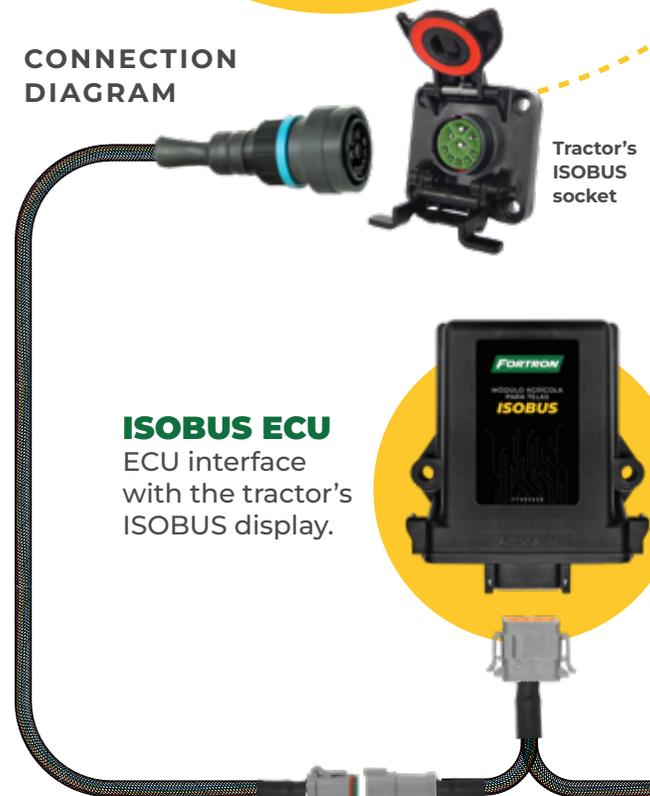


OPERATION RECORD

Records data and integrates with digital agriculture platforms.



**CONNECTION
DIAGRAM**



VARIABLE RATE CONTROL
WITH PRESCRIPTION MAPS



MTS ECU

Controls the speed of hydraulic motors.



PWM Fertilizer
PWM Seed

COMMAND BLOCK

SEED AXLE

FERTILIZER AXLE

Seed Encoder

Fertilizer Encoder

ECU 48

Monitors up to 48 seed or fertilizer lines.

FERTILIZER MONITORING

SEED MONITORING



POSSIBILITY OF ADDING PLANTING MONITORING ON THE SAME SCREEN



COMPATIBLE WITH THE OPTIMUSJET FURROW SPRAYER



WI-FI AND BLUETOOTH WITH REMOTE UPDATES

CONTROLLER FOR SPRAYING SYSTEM

ISOBUS SYSTEM

- Add high technology to your sprayer, such as variable rate and automatic section shut-off, with the Fortron controller.



PRECISE APPLICATION CONTROL



FIXED AND VARIABLE RATE

Adjust application rates on the screen or using prescription maps.



AUTOMATIC SHUT-OFF

Automatic or manual section shutdown of sections, up to 99 sections and one general section.



ELIMINATE SCREENS

Full control of the implement on the tractor's ISOBUS screen.



FLOW AND PRESSURE SENSOR

Monitors flow and pressure in the spray boom .de pulverização.



INTUITIVE AND EASY TO USE

Reduce the operator's learning curve.



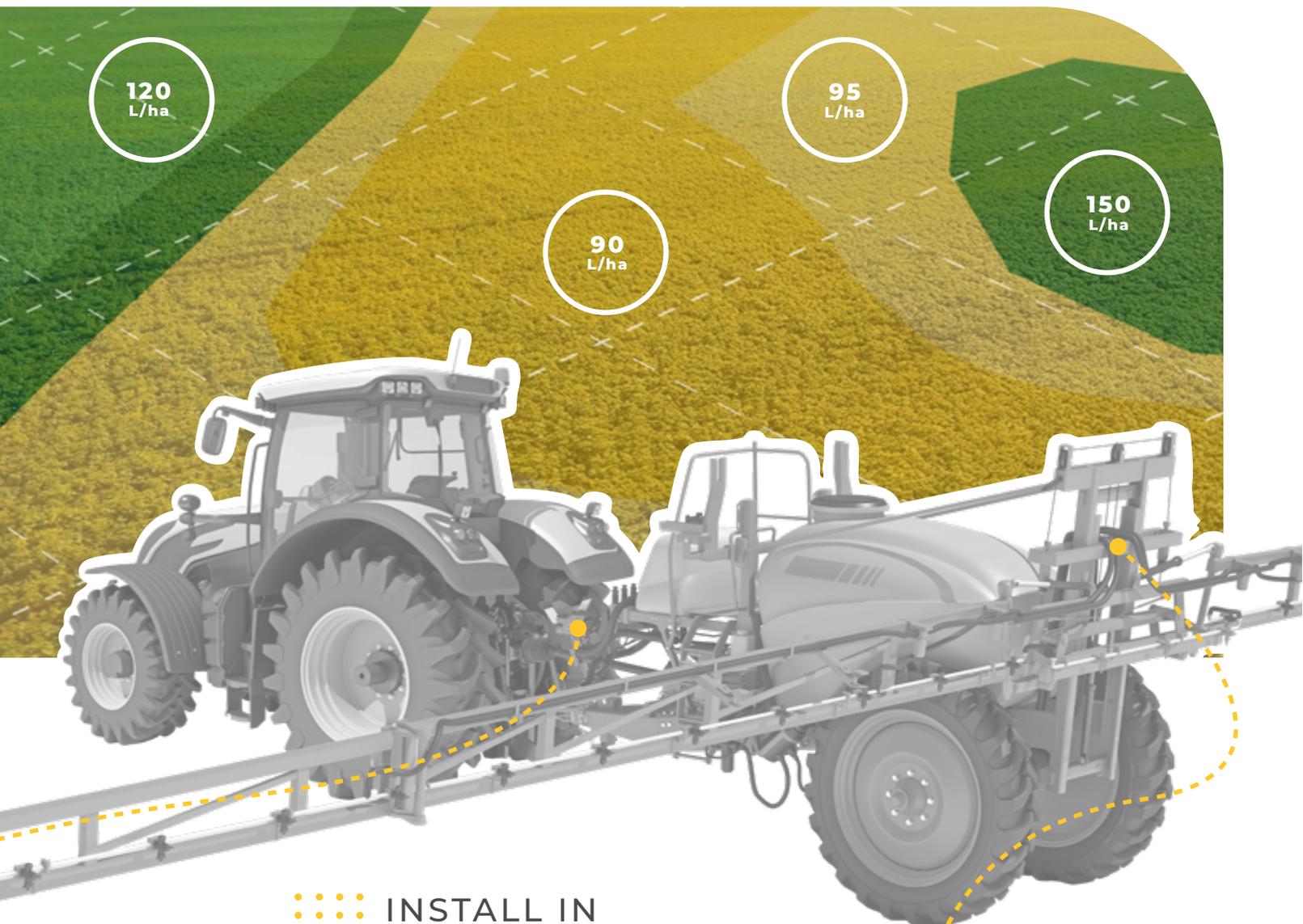
OPERATION RECORD

Records data and integrates with digital agriculture platforms.



CONNECTION DIAGRAM



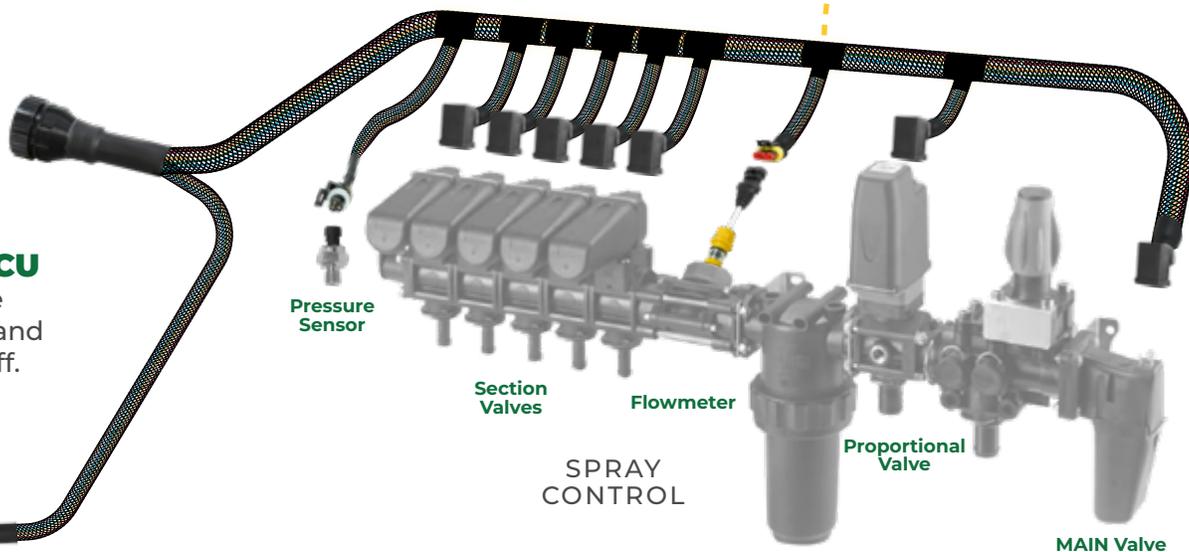


INSTALL IN ANY SPRAYER



OPTIMUS ECU

Allows variable rate in liquids and section shut-off.



YOUR SPRAYER
READY TO GO
PRECISION FARMING



COMPATIBLE WITH
DIFFERENT BRANDS OF
TRACTORS AND IMPLEMENTS



WI-FI AND
BLUETOOTH WITH
REMOTE UPDATES

VARIABLE RATE FOR SOLID SPREADERS

ISOBUS SYSTEM

- Add high technology to your spreader, such as variable feed rate, disc and gate control.



PRECISE APPLICATION CONTROL

VARIABLE RATE

Adjust application rates on the screen or using prescription maps.

DISCS CONTROL

Adjust the disc rotation directly on the screen.

ELIMINATE SCREENS

Full control of the implement on the tractor's ISOBUS screen.

GATE CONTROL

Open and close the gate directly on the screen.

RADIATOR ACTIVATION

Automatic activation of the radiator fan.

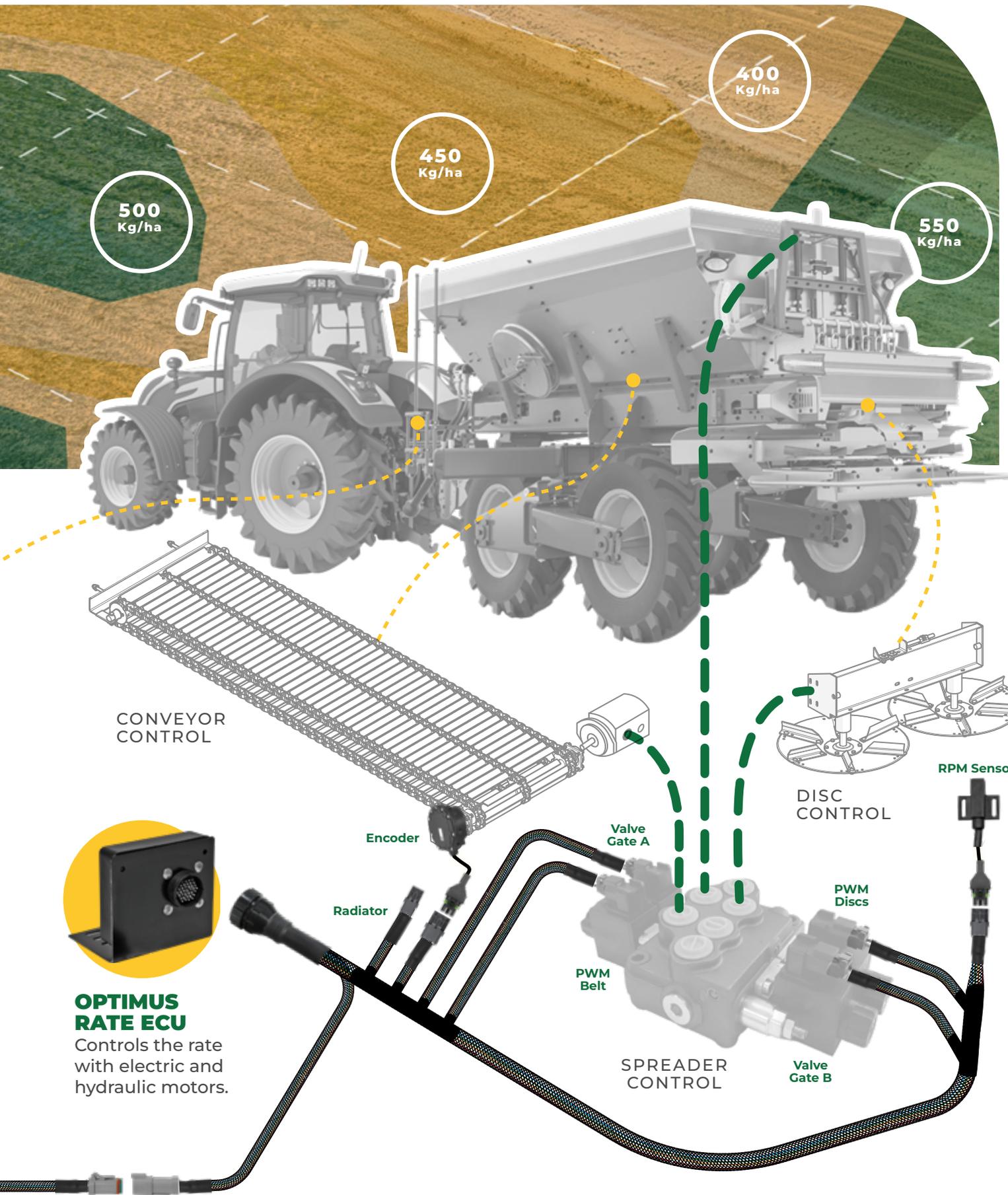
OPERATION RECORD

Records data and integrates with digital agriculture platforms.



CONNECTION DIAGRAM





CONVEYOR CONTROL

Encoder

Radiator

Valve Gate A

PWM Belt

SPREADER CONTROL

DISC CONTROL

RPM Sensor

PWM Discs

Valve Gate B

OPTIMUS RATE ECU

Controls the rate with electric and hydraulic motors.



YOUR DISTRIBUTOR READY FOR PRECISION FARMING.



COMPATIBLE WITH DIFFERENT BRANDS OF TRACTORS AND IMPLEMENTS



WI-FI AND BLUETOOTH WITH REMOTE UPDATES

VARIABLE RATE CONTROL FURROW SPRAYER

ISOBUS SYSTEM

- With the ISOBUS system from Fortron, you can control furrow sprayers from the tractor's ISOBUS screen.



PRECISE APPLICATION CONTROL



VARIABLE RATE
Adjust application rates on the screen or using prescription maps.



SECTION SHUT-OFF
Automatic or manual control, up to 9 sections and one general section.



ELIMINATE SCREENS
Full control of the implement on the tractor's ISOBUS screen.



PUMP CONTROL
Control of electric and hydraulic pumps.



LEVEL MONITOR
Level monitoring and automatic shutdown when empty.



OPERATION RECORD
Records data and integrates with digital agriculture platforms.



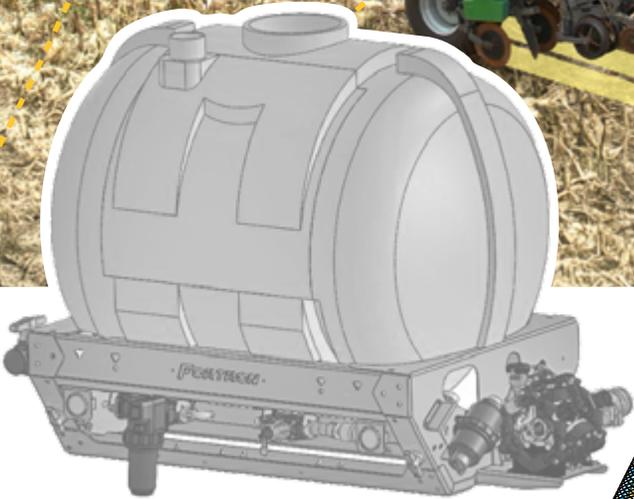
CONNECTION DIAGRAM



RIGHT DOSE AT THE RIGHT PLACE, FOLLOWING THE PRESCRIPTION MAP.

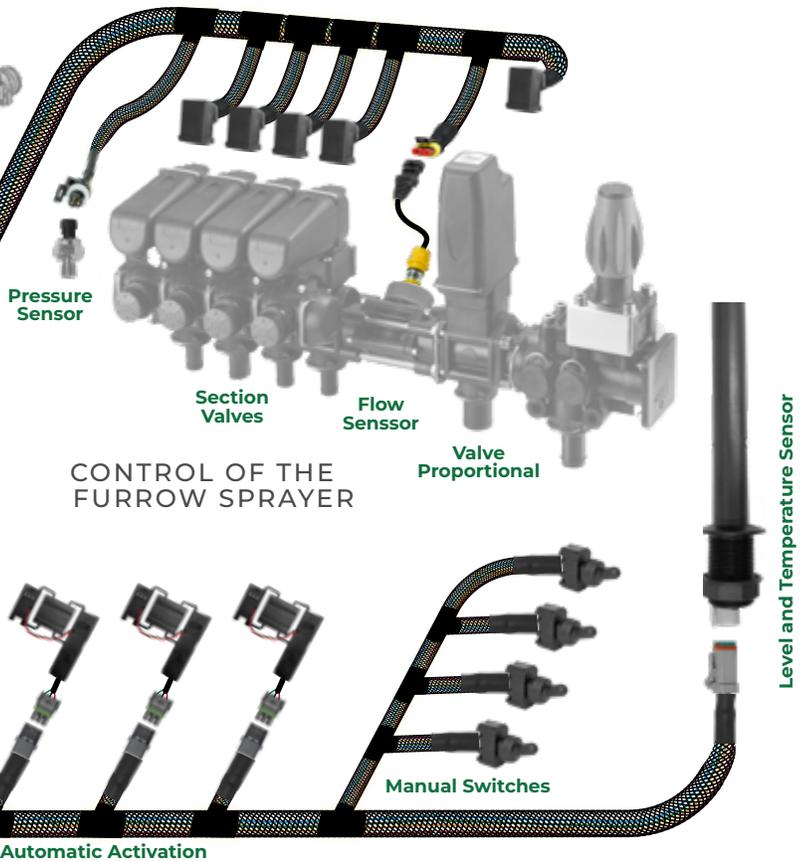
30L/ha

20L/ha



OPTIMUS ECU

Allows variable rate in liquids and section shut-off.



Sensors for Automatic Activation



YOUR FURROW SPRAYER READY FOR PRECISION FARMING



COMPATIBLE WITH DIFFERENT BRANDS OF TRACTORS AND IMPLEMENTS.



WI-FI AND BLUETOOTH WITH REMOTE UPDATES

SEED MONITOR

ISOBUS SYSTEM

Fortron technology, you can connect any planter to the tractor's ISOBUS screen.



AVOID GAPS ON YOUR FIELDS



MONITOR
Monitors up to 72 rows of planting and fertilizer.



ELIMINATE SCREENS
Simultaneous control of seed, fertilizer, and furrow sprayer.



COMPATIBILITY
Lower investment, compatible with any brand.



ACCURATE CALCULATIONS
Coefficient of variation, rate, population, hour meter, and hectare meter.

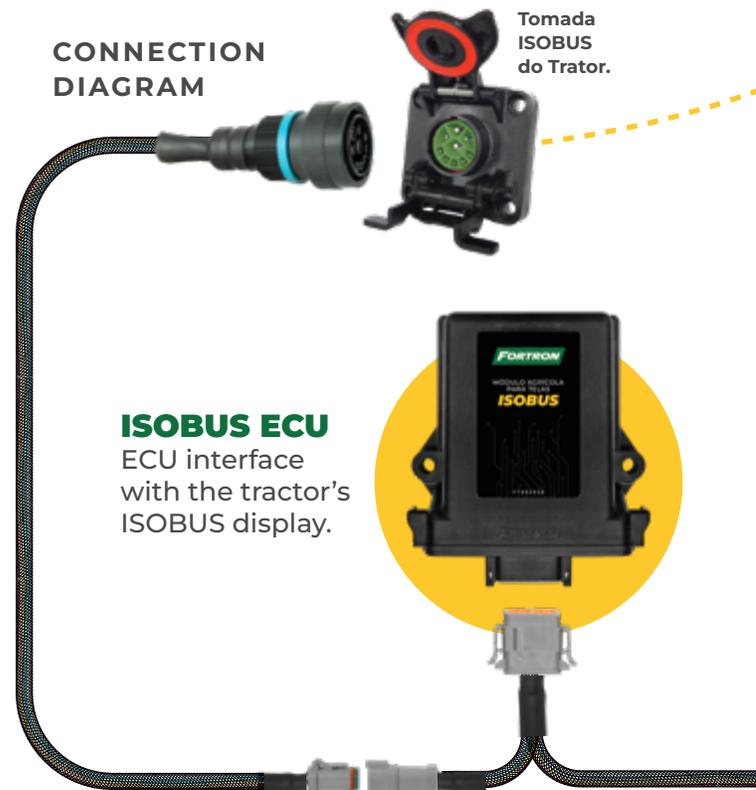


INTUITIVE AND EASY TO USE
Reduce the operator's learning curve.



OPERATION RECORD
Records data and integrates with digital agriculture platforms.

CONNECTION DIAGRAM

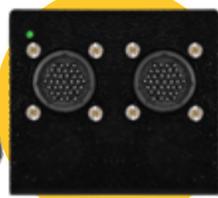


ISOBUS ECU
ECU interface with the tractor's ISOBUS display.

IDENTIFY
FAULTS IN
REAL TIME



INSTALL IN
ANY DRILLER
OR PLANTER



ECU 48
Monitors up to 48 rows
of seed or fertilizer.



SEED SENSOR
High-quality glass
lenses and optics
for improved
accuracy, even with
small crops such as
sorghum.

FERTILIZER MONITORING

SEED MONITORING



INTUITIVE AND EASY TO USE
REDUCE THE OPERATOR'S
LEARNING CURVE



COMPATIBLE WITH
THE OPTIMUSJET
FURROW SPRAYER



WI-FI AND
BLUETOOTH WITH
REMOTE UPDATES

FARM MONITOR F16

Simple, smart and reliable. Get all the information you need for proper, flawless planting and spraying.



BEST COST-BENEFIT IN THE MARKET



ELIMINATE SCREENS

Simultaneous control of seeds, fertilizer, and furrow sprayer.



EASY INSTALLATION AND USE

Compatible with any planter and easy to use by the operator.



SPEED SENSOR

Accurate positioning with GNSS technology + GLONASS



SMART ALERTS

Notify the operator of any anomalies in planting.



TOUCH SCREEN WITH BACKLIGHT

Improves visibility, facilitating planting at night.



OPERATION RECORD

Records data and integrates with digital agriculture platforms.



With just a few touches, access key planting information such as seed population per meter per row, singulation, implement speed, totals, and much more.

SEED MONITORS

Real-time monitoring of seeds and fertilizer on up to 60 planting rows.



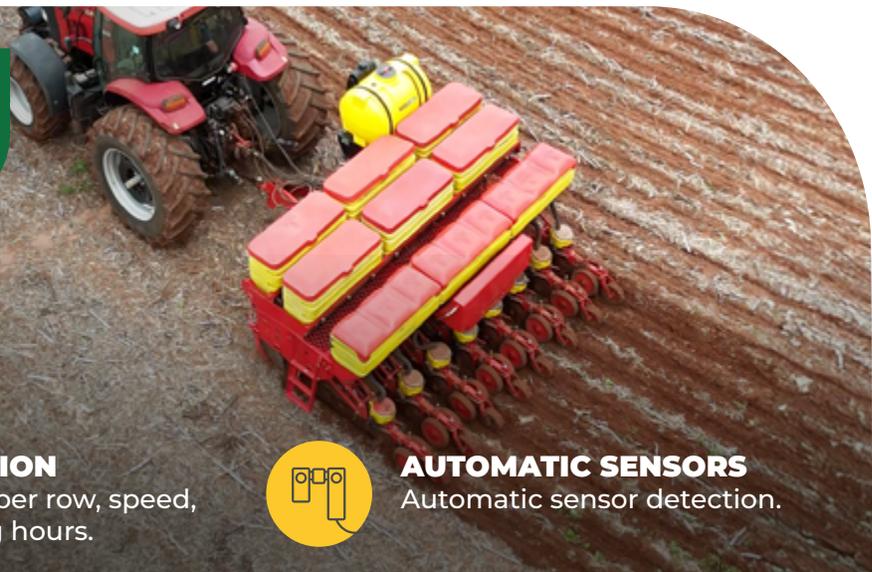
ACCURATE INFORMATION

Average seeds per meter per row, speed, planted area, and working hours.



AUTOMATIC SENSORS

Automatic sensor detection.



CONTROLS AND MONITORS FURROW SPRAYERS

Ensures sprayer efficiency with automatic real-time application rate verification and adjustment, regardless of planting speed.



UP TO 4 SECTIONS

Allows up to 4 sections of liquid application to be divided.



SECTION SHUT-OFF

Allows automatic or manual shutdown during liquid application.

FIXED RATE FOR SEED AND FERTILIZER

Simplified planting through electric or hydraulic motor control, maintaining constant seed population and fertilizer dosage.



SECTION SHUTDOWN

Allows manual shutdown of seed and fertilizer sections.



RATE ADJUSTMENT

Manual adjustment of seed and fertilizer rates via the monitor.



INTUITIVE AND EASY TO USE. EASY FOR THE OPERATOR TO LEARN.



COMPATIBLE WITH THE OPTIMUSJET FURROW SPRAYER



WI-FI WITH REMOTE UPDATES

FORTRON.COM.BR

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TECHNOLOGY AT THE SERVICE OF THE FARMER

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FORTRONAGRICULTURE



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