PRECISION FARMING SOLUTIONS

HIGH-TECH SYSTEMS

PRECISION FARMING

ELECTRONIC SYSTEMS FOR

PLANTERS, AIR DRILLS, SPRAYERS

HIGH-TECH SYSTEMS
PRECISION FARMING

MC ELECTRONICS
Precision Farming Solutions

PRECISION FARMING SOLUTIONS

MC Elettronica is specialized in design and manufacturing of sensors and "high tech" electronic components for agricultural machines, dedicated to PRECISION FARMING. MC Elettronica is still an independent family-owned company, which, with over 40 years of experience, dedicates its efforts to the development and manufacture of innovative standard or custom components for precision farming.

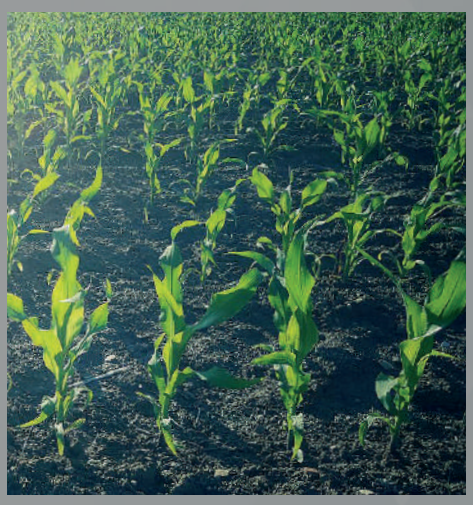
The company, thanks to its great flexibility when it comes to the market's various needs, has a target of an high-quality service to customers. In fact we could together challenge new markets, creating innovative and competitive products. The high degree of innovation of the MC Elettronica product range has offered the Company the opportunity to provide its services to many International Machine Manufacturers of the Agricultural sector.

ESD EVO SYSTEM
FOR PLANTERS

MC ELECTRONICS
Precision Farming Solutions

FEATURES AND ADVANTAGES

- Simultaneous **integrated management** of up to four different products: 2 **seeds** and 2 **fertilizer**.
- Menage of separated **seeding rates** on each rows of the planter.
- **ISOBUS TASK CONTROL** function is available, complete with section and rate control for all menaged products.
- The entire **configuration of the system** can now be managed directly **from your laptop**.



DORADO EVO SECTOR PRO
FOR PLANTERS

MC ELECTRONICS
Precision Farming Solutions

FEATURES AND ADVANTAGES

- ***Linear aesthetic*** *to optimize space,* ***ergonomicity*** *to facilitate use and a full touch display to simplify setting operations.*
- ***ALL IN ONE solution****: the system control unit is integrated into the monitor allowing a simplified installation,* ***managing up to 48 photocells at the same time****.*
- *The reading of the data allows to obtain the seeding quality statistic,* ***according to the ISO 7256-1 standard****.*
- ***SECTOR PRO ECU rows esclusion*** *and* ***UC 50 control unit*** *for managing the single seeding row exclusion functionality*

USC-PRO ISOBUS SYSTEM
FOR AIR DRILLS

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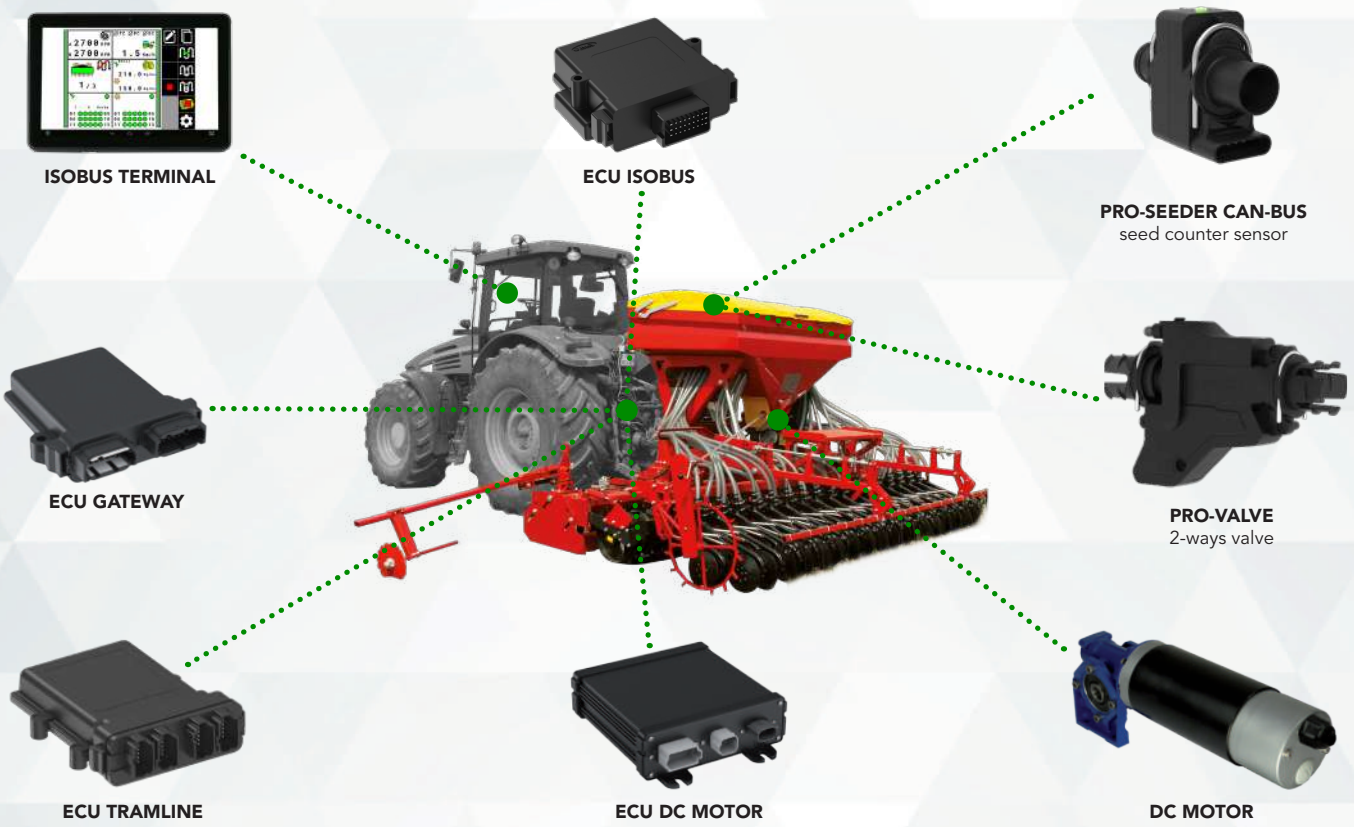

USC-PRO ISOBUS (Universal Seed Control) is a modular and highly technological control and monitoring system for pneumatic seed drills that makes it possible to manage and control all functions of the machine: **blockage monitor (with blockage sensors), variable rate (prescription map) and tramline (with shut-off valve).**

Fitting the USC-PRO system, the new **PRO-SEEDER seed sensors**, which make it possible to count with precision and check the seed flow; **seed drill calibration is no longer required.**

FEATURES AND ADVANTAGES

• Full management of all possible functions in the use of the pneumatic seed drill (blockage, variable rate, calibration, and tramline).

• **Increased seeding precision**, thanks to the possibility to verify the actual number of seeds falling to the ground.

• **Reduced machine set-up times** thanks to the counting function that constantly monitors target rate.

• **The modularity** offered by the system **enables you to select the desired components**, connect them to the network and **interface them with the MC Elettronica system**, or other systems on the market.

• **Total reliability** thanks to the design that takes into account the field's operating conditions.

• **Guaranteed sowing** and almost total elimination of seed waste at the beginning of each pass.

DORADO HERO SYSTEM
FOR AIR DRILLS

Precision Farming Solutions

DORADO HERO is a seeders monitor system for air drills, developed to monitor up to **96 rows** via photocells or CANBUS-connected valves.

With the integration of the **UC 50 control unit**, groups of valves **can be shut off**, allowing efficient management of complex situations such as headlands, obstacles, and tramlines.

DORADO HERO is a customizable monitoring system, with **software adaptable** to different application fields (spraying, seeding, industrial applications, etc.), according to the specific needs of each **OEM** customer.

FEATURES E ADVANTAGES

• **Linear design** to optimize space, **ergonomics** to ensure ease of use and a f**ull touch display** for simplified setup operations;

• **ECU control unit** for managing CANBUS sensors, to which up to **96 photocells** can be connected to count seeds and measure sowing flow;

• The new **UC 50 function (optional)** will enable the **management of valve groups**, allowing them to be opened and closed;

• The **Pro-Seeder 2** sensors enable accurate monitoring of sowing flow, allowing rapid detection of blockage conditions while the **Pro-Valve** valves, in addition to integrating sowing monitoring functions, allow row shut-off for tramline functions;

• A **5”color touch-screen Virtual Terminal** providing two different display modes:

- **Histogram mode**, showing sowing flow rates;

- **Tabular mode**, displaying real-time values of frequency/average seed population.

HYDRA 590 SYSTEM
FOR SPRAYERS

Precision Farming Solutions

HYDRA 590 is an advanced control and monitoring system for sprayers, atomizers and self-propelled or towed inter-row cultivators. It is developed in **CAN-BUS and ISOBUS** technology, and enables proportional distribution of the product (DPA), hydraulic management and water management.

Of importance is the presence of the "Task Control" or "Section Control" function that can be guided by ISOBUS systems connected to our system through the optional "Bridge" ECU.

FEATURES AND ADVANTAGES

• **Ease of use**: the components of the HYDRA control and monitoring system are the same in the standard and in the ISOBUS version.

• **Versatile**: transition from the standard to the ISOBUS version is simplified thanks to the innovative ECU BRIDGE.

•Possibility of managing product dosing manually and automatically, management of the hydraulic commands and of the air sleeve, all in a single solution.

• **Modular**: the HYDRA control and monitoring system makes it possible to manage up to 9 water sections and 5 hydraulic functions through one main ECU while, it is possible to manage 2 supplementary hydraulic functions on request.

• **Reliable**: the Hydra system has been tested and proved to its limits in the most severe working conditions in laboratories and in the fields with outstanding results.

HIGH-TECH SYSTEMS
PRECISION FARMING

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HIGH-TECH COMPONENTS

FOR PLANTERS

"SMART" PHOTOCELLS RANGE

The new «SMART» photocells range of MC Elettronica for planters was born to create a high-tech product, able to offer a superior seed detection quality. This fact will generate an higher seeding precision and consequently a reduction in seeding time and wasted seeds during operations.

FOR AIR DRILLS

PRO-SEEDER 2
Counter Photocell

Precise, modular and versatile photocell, allows **COUNTING and testing the seeds passage for each single row for air drills**, with automatic dust compensation.

For proper operation of the seed count sensor, it is necessary to set the seed type before starting processing. In addition, the PRO-SEEDER photocells are connected to the respective electronic control unit and perform an automatic test of correct functionality.

PRO-VALVE
2-ways rows shut-off valve

The new **PRO-VALVE** is the latest generation shut-off valve with the possibility of integrating an optical sensor to detect and count the passing seeds. The advantage is to have a single component with two functions, reducing the overall dimensions and costs.

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