

New MONOSEM technologies

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MONOSEM will be exhibiting on their stand at the SIMA 2015 (Hall 6 - Stand F041) ISOBUS row cut-off management by GPS and electric drive of metering units solutions.

Monoshox® NG Plus ME metering units with electric distribution drive

MONOSEM offers a new seed population control based on an electric distribution drive of the metering units. Each metering unit has an electric motor driving the distributions via a notched belt. Without maintenance, this transmission takes up little space and whilst conserving all inter-row possibilities. On the planters with more than 6 metering units, the power supply is ensured by a generator driven by the turbofan PTO shaft. A battery ensures a constant supply to the electric motors, independent from the PTO speed. The photoelectric cells check the seed drop and the population. The information on speed, via a radar, ensures precise control of seed population. The seed population and the seed drop controls are managed from the tractor cab, by the ISOBUS CS8000, CS8000 Touch or tractor cab terminal if compatible. This system also allows to manage manual or automatic (if the terminal is linked to a GPS antenna) row cut-offs.

Row cut-off management by GPS

The new technologies, such as the row cut-off system by GPS, may be of interest as well for new or in service planter users. That is why MONOSEM developed a system compatible with its NG Plus, MECA, NX and NC planters in service.

On the planters with mechanic or hydraulic drive, the system is made up of an electromagnetic declutching mounted on each metering unit and an ECU placed on the planter. In the tractor cab, the ISOBUS terminal (CS8000, CS8000 Touch, or the tractor's one if it is compatible), linked to a GPS antenna, gives the information to the planter by a BUS CAN network. The system manages automatically the row cut-offs of the planter the moment the planter passes over a zone already planted or just before a headland. Cross-overs are thus limited and this means economies in seeds and working comfort.

Source: MONOSEM