



PRECISION LAND MANAGEMENT FROM NEW HOLLAND



I n t e l l i S t e e r R T K



I n t e l l i S t e e r
D G P S

E Z S t e e r



E Z G u i d e P l u s



VERSATILE GPS GUIDANCE.

The New Holland EZ Guide Plus system optimises field work.

As implements get wider for the different field operations, the attention demanded from the operator to steer correctly his tractor is ever increasing. The New Holland EZ Guide Plus system provides both a practical and clear light bar, plus a multi view LCD screen, indicating the path to follow. Using DGPS, the EZ Guide Plus system memorises the path of an initial track and guides the operator to drive in a parallel pattern for the following tracks. Overlaps and skips can be avoided and the convenience of EZ Guide Plus allows faster operation than conventional guidance methods. These features help reduce input costs and get the job done in less time. EZ Guide Plus keeps you working when visibility is poor. Mist, fog or lack of daylight does not prevent this guidance system from keeping you on track. The reduction in operator stress, makes long working days less of a chore. As EZ Guide Plus is not built into the tractor, it can be easily moved from machine to machine.





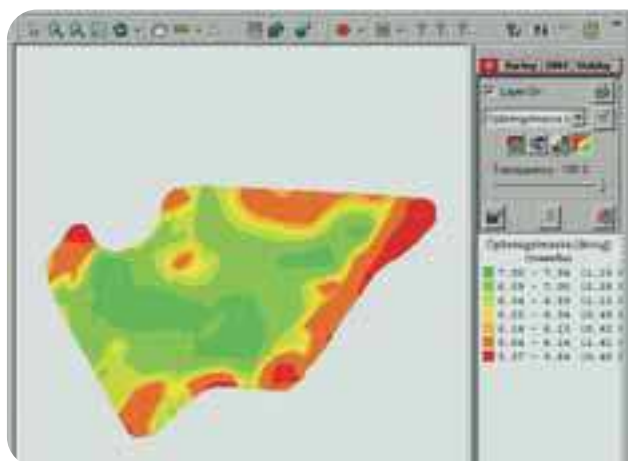
Do more with the New Holland EZ Steer system.

A further development of the EZ Guide Plus light-bar system allows the tractor driver to maximise his concentration on the implement. Based on the recorded initial track and using output from the DGPS processor, EZ Steer uses an electric motor to drive a friction wheel that turns the steering wheel for you, keeping the tractor on a parallel track. At the edge of the field, or whenever required, turning the steering wheel will disengage the assisted steering. Operator fatigue or distraction are virtually eliminated, not only avoiding overlap and skips but also adding to the quality of the job. As a result the driver's daily performance will increase. The New Holland EZ Steer system is easy to install and set-up on any tractor with power steering.

MAKING BETTER USE OF VARYING SOIL CHARACTERISTI

Higher profits.

Increasing yield with the same input or maintaining yield with reduced input; this is what can be done with Precision Farming. The DGPS based system on New Holland CX and CR combines allows you to permanently register your yield and store it, linked to the precise location. That information - in combination with other DGPS collected data like crop moisture content and soil variations - is then used to prepare application maps for accurate, site-specific fertilising, seeding and spraying, thus increasing your profits. Precision Farming also helps reduce labour costs and fuel consumption.



Exclusive yield measuring system.

Accurate, crop independent yield measuring is the most critical aspect of data gathering for Precision Farming. The exclusive patented high accuracy yield sensor developed by New Holland requires no calibration between different crops. The sensor plate between grain elevator and grain tank filling auger, is fitted to a pivoting device with a counterweight. This neutralises the rubbing effect of the grain and provides precise mass measuring whatever the kernel size or shape, the grain density and the moisture or impurity content. The operator of a New Holland combine can concentrate on harvesting rather than on setting up and calibrating.





An integrated package.

To maximise customer profitability, New Holland offers a Precision Farming package that is integrated into the combines' control systems. The monitor and operational control tools are used with any of the four possible packages

- 1) Moisture measuring
- 2) Yield measuring and moisture measuring
- 3) Yield measuring, moisture measuring and data logging
- 4) Full Precision Farming system for yield mapping, including
 - DGPS: antenna & receiver (modular)
 - Data Logging (modular)
 - Yield measuring, including moisture measuring
 - Desktop Software for yield mapping
 - Customer training and support for efficient and proper use of the Desktop Software

INTELLISTEER™ AUTOMATIC STEERING SYSTEM.

Working in parallel lines with full attention on the implement.

While the steering of the tractor is managed by the New Holland designed and developed IntelliSteer™ Automatic Steering System, tractor operators can drastically improve their field performance by concentrating fully on the proper performance of their implement. Using DGPS technology, and fully integrated tractor control systems, IntelliSteer helps ensure parallel passes when working either in straight lines, on curves, on pivots, or on undulating ground. When planting, seeding, cultivating or tilling, in difficult weather conditions or at night, the operator can focus on the operation of the implement without any risk of overlap or missed ground.



No need to follow markers!

Once the guidance pattern has been selected and the implement width programmed, the operator merely needs to indicate the start and finish points of the first pass as it is completed. IntelliSteer will then provide a visual indication of the subsequent passes to aid tractor placement on the headland. When the next row is approached and automatic mode is selected, IntelliSteer takes over the task of steering and guides the outfit parallel to the original track.

As accurate as you wish.

The GPS, Global Positioning System, determines the location of a vehicle by comparing the distances between its receiver and a minimum of 4 out of 24 satellites travelling in a predictable orbit around the globe, at an altitude of some 20,000km. The accuracy of the free GPS signal is between 5 and 15m. The accuracy varies because the GPS satellites are moving relative to the earth and the signal that they transmit is distorted by varying atmospheric conditions.

As farming applications require a higher accuracy, correction signals are used. These differential signals, upgrading GPS to DGPS, are available from different sources

- Using a ground station and a DGPS satellite, several providers offer a correction signal that increases accuracy to a range between 10cm and 25cm.
- Using a personal base station, an RTK signal (Real Time Kinematic) achieves an accuracy of less than 2cm.



Universal colour displays.

For increased customer convenience, New Holland will progressively introduce from Harvester Season 2007 onwards a common colour display for tractors, combines, balers, self-propelled forage harvesters etc. The 17.8cm IntelliView II monitor will have a rotary encoder and buttons along the screen to control the monitor. The 26.7cm IntelliView II Plus monitor (not available on New Holland combines) will use a touch screen.

Whatever the application, the screens are presented in a similar way so that the operator is familiar with the different screens, independent from equipment or implement.

The IntelliView II monitor has three camera input channels and USB connection. All screens are sunlight readable.

ISOBUS: SIMPLIFYING COMMUNICATION AND THEIR IMPLEMENTS.



Beyond manufacturer level.

Today, many pieces of equipment used with a tractor require control or adjustment by the operator using a control box mounted in the cab. Switching an implement from tractor to tractor has required control boxes and cables to be moved. ISOBUS provides the convenient solution. It builds the bridge to control several implements and functions from a single terminal.

Today, nobody questions the intangible value of the standardised mechanical connections, three-point linkage and PTO, on the different tractor brands. ISOBUS, the standardisation of electrical connections, electronics and data processing, is probably an even bigger milestone in the history of agricultural equipment development. ISOBUS provides a protocol for compatible data interface for the connection of tractor, implement and on-board computer, synchronizing this information exchange beyond manufacturer level.



COMMUNICATION BETWEEN TRACTORS

Maximum compatibility.

ISOBUS (the ISO 11738 standard) is a CAN (Controller Area Network) protocol for communication, specifically designed for use in agricultural and forestry equipment. By establishing a communication protocol used across the industry, ISOBUS, makes double information collection and storage unnecessary.

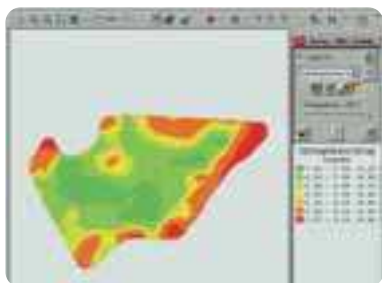
ISOBUS extends the possibilities of precision farming through “more intelligent” functions and GPS data integration. It provides investment security for farmers and contractors as a result of guaranteed compatibility. It also helps ensure proper implement functioning, without the need for multiple control boxes.



CUSTOMER SUPPORT AND YIELD MONITORING ON CSX7000

CSX7000 moisture and yield monitoring.

On the new range of CSX7000 combines a yield and moisture measuring system is available as Dealer Installed Accessory. The system's accuracy and reliability is based on the proven technology of the Ceres 8000 monitor. The system is extendable to full Precision Farming by adding the Data logger, the D-GPS antenna from New Holland and the Precision Farming Desktop software with its customer support system.



COMBINES.



Confident users.

Specialised Support Companies in all European countries will assist New Holland customers by providing a full day of training on the use of the Precision Farming desktop software. These specialists remain available for free on-line user assistance. Furthermore, these Support Companies will offer new information about satellite imagery, boundary maps etc.



**INNOVATIVE, DYNAMIC, SMART:
NEW HOLLAND IS LIKE YOU.**



Your success - Our specialty

Visit our web site or call free phone number
for UK: www.newholland.com/uk - tel: **0800 015 0105**
for ROI: www.newholland.com/ie - tel: **1 800 523 174**

The data indicated in this folder are approximate. The models described here can be subjected to modifications without any notice by the manufacturer. The drawings and photos may refer to equipment that is either optional or intended for other countries. Please apply to our Sales Network for any further information. Published by New Holland Brand Communications. Bts Adv. - Printed in Italy - 05/07 - TP01 - (Turin)



78005/INB