



22/02/2015

New Holland's New IntelliCruise™ Feed Rate Control System Maximises Baling Productivity and Minimises Costs

- *IntelliCruise™ controls tractor speed in relation to crop yield, providing an optimal feeding rate in the baler*
- *Requires fewer operator interventions resulting in greater comfort and less fatigue*
- *Up to 9% more productivity with an inexperienced or fatigued operator*
- *Lower fuel consumption and ownership costs*



New Holland introduced the new IntelliCruise™ feed rate control system on the Standard and CropCutter™ BigBaler 1270 and BigBaler 1290 large square balers, which can be operated with the new, ISOBUS Class III compatible T7 AutoCommand™ tractor. This feature addresses the main challenges faced by farmers when baling. Varying crop yields in a field mean that the resulting swaths are not consistent, which makes it difficult to maintain a constant feed rate and to use the full capacity of the baler. IntelliCruise enables the baler to run at optimal performance by controlling the speed of the tractor.

Bob Hatz, Head of Hay and Forage Product Management, explains: "IntelliCruise automatically adjusts the forward speed of the tractor in relation to the crop yield going into the baler, resulting in a optimal crop feeding rate. With this feature there is no need to monitor tractor speed, so that operator fatigue is greatly reduced. It also makes it possible for an inexperienced operator to achieve high productivity levels."

IntelliCruise™ controls tractor speed in relation to crop yield, providing an optimal feeding rate

With IntelliCruise, the baler controls the tractor's forward speed through ISOBUS Class III commands, maintaining a capacity set point using a charge sensor. The system calculates the best speed based on the information received from the sensors, ensuring the optimal feeding rate is maintained constant in varying field and crop conditions.

IntelliCruise has two running modes: in **Charge Control** mode, available on Rotor Cutter models only, the tractor speed is adapted to achieve optimum capacity. The sensor paddles measure the throughput of crop yield fed into the stuffer feeder channel and the time to fill the feeder channel is measured. In **Slice Control** mode, available on both the Standard and Rotor Cutter models, the tractor's speed is adjusted according to bale slice thickness and the system will strive to obtain the amount of slices (with corresponding slice thickness based on pre-set bale length) defined by the operator.

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Requires fewer operator interventions resulting in greater comfort and less fatigue

Baling with IntelliCruise does not require the operator to control the tractor's speed or monitor the capacity graph. It also requires far fewer interventions from the operator, so that fatigue is dramatically reduced. It also ensures that the good performance is maintained throughout the day, however long it is. IntelliCruise comes with features that make baling very easy, such that if the charge is very high in a huge windrow, the baler will drive very slow (as low as 1 km/hr), but will always move. If the windrow is so large that the minimum speed is not capable, would drop out allowing operator full control.

Up to 9% more productivity with an inexperienced or fatigued operator

IntelliCruise automatically ensures the efficient variation of tractor speed and optimum feed rate. A fatigued or inexperienced operator will find it more difficult to keep the charge constant and will be slower to react to changes in crop or field conditions. As a result, IntelliCruise can achieve a higher feed rate throughput – up to 9% more in tons/hour.

Lower fuel consumption and ownership costs

IntelliCruise ensures that the tractor remains at optimum speed, making only necessary adjustments, resulting in fuel savings. Fuel consumption can be as much as 4% lower than it is with a fatigued or inexperienced operator. In addition, the feed control system monitors in coming crop, so there is less risk of downtime and the machine can spend more time working productively.

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