

Profitable Farming Company Ltd



Middle Barlington, Roborough

Tel: 01805 603363

Fax: 01805 603335

www.profitablefarming.co.uk

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New Commercial Automatic Preservative applicators

The Profitable Farming Company has announced the addition of a new Baler's Choice automatic preservative application unit suitable for use with round and conventional balers.

In addition to the new 'Commercial' 500 Series Automatic Applicator, the Profitable Farming Company will continue to offer the 'Standard' 400 Series Automatic and the Electronic Manual Applicators currently available for round and conventional balers. A 500 Series Automatic Applicator modular system is also available for big square balers, which includes the unique Data Tagging module that has recently been awarded a SIMA Silver Medal.

Where the new Baler's Choice 'Commercial' 500 Series Automatic Applicator for round and conventional balers is different to the current 'Standard' 400 Series Automatic system is that it is modular in design, so allowing additional or future features to be quickly and easily added. It also incorporates a number of new features for greater application accuracy and to further automate the system.

One of the biggest benefits of the new 'Commercial' 500 Series Automatic Applicator is that for the first time it means that the Profitable Farming Company can now offer a fully automated Baler's Choice application system for fixed chamber round balers, the current 'Standard' 400 Series Automatic Applicator being only suitable for variable chamber balers.

Other new features on the modular 'Commercial' 500 Series Automatic Applicator include the availability of round baler tailgate sensors and a ram sensor on conventional balers. The sensors record when the tailgate is opened and shut on a round baler and when compared with when the Crop Eyes on the pick-up are activated, the control unit is able to accurately calculate the baling speed, and so allow for this when monitoring and automatically changing the application rate as the crop moisture content varies.

On conventional baler 'Commercial' 500 Series Automatic Applicator units, the use a sensor on the ram to count the number of strokes allows the control unit to record the number of wads made, and hence bale length, which can then be monitored and a consistent length maintained.

Moisture Content monitoring

Central to the new 'Commercial' 500 Series Automatic Applicator is an ISOBUS compatible Communications Hub that is fitted to the baler which can be used as a stand-alone system to record and monitor crop moisture content and output data.

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The hub is linked to twin moisture sensors in the chamber (discs in round balers, star wheels in conventional balers) that record the moisture content of the crop as it passes through the baler. Also linked to the hub are the Crop Eye sensors on the pick-up which monitor the flow of material and turn the system on or off accordingly, and the tailgate or ram sensors.

The output and moisture content information gained from these sensors is collected and stored by the Communications Hub, and can be viewed on a touch screen control unit in the cab. Using the Job Record function, up to 300 field records can be stored and subsequently downloaded onto an Excel spreadsheet. The touch screen provides complete control and allows a wealth of information to be accessed, such as date, time, tonnes baled, speed of baling and highest or average moisture content for each bale or on a field basis.

Baler's Choice Automatic Applicator module

This module takes the system a stage further and includes everything needed to use the 'Commercial' 500 Series Automatic Applicator to accurately apply the Baler's Choice preservative at crop moisture contents of between 15% and 30%.

Linked into the Communications Hub is a three-pump applicator unit, which feeds a set of spray nozzles above the pick-up intake. A range of tanks is available with capacities of either 110 or 220 litres with mounting kits suitable for a wide range of round and conventional baler make and model.

Using the information gained from the moisture and output sensors in the bale chamber, the Communications Hub will automatically alter the application rate as the crop moisture content varies over a range from 1.9 litres/tonne up to 7.6 litres/tonne.

The target and actual application rate, plus the total amount of Baler's Choice applied, can be monitored and recorded on the cab display and then downloaded for future reference.

NEW for 2011 - Wet bale management Dye Marker

Only available for big square and conventional balers fitted with the 'Commercial' 500 Series Automatic Applicator, the new Dye Marker option is a simple and effective way to visibly mark and identify higher moisture content bales.

The Dye Marker can be used just with the Communications hub or where the Baler's Choice Applicator is fitted.

The Dye Marker kit comprises of an 11 litre tank mounted near the bale chamber, plus a pair of spray tips mounted on either side of the chamber, or on the top and bottom where a bale twister is used.

Having set a threshold crop moisture level at which the marker will be activated, when this is exceeded, a buzzer will sound in the terminal and the side of the bale will be sprayed at the exact area of the wet spot with a food-grade dye.

This makes the bale easily identifiable so that when the bales are being subsequently cleared and stacked, the wetter bales can be handled or stacked separately.

