

Plug&Cool Fans Keep Stored Grain Safe

Slotted pedestals fitted with cooling fans provide a less expensive option for keeping stored grain cool with the Plug&Cool system from Gibbons Engineering Group Ltd. in Essex, UK.

The polypropylene pedestals are placed in the storage area before the grain is harvested. Then after the grain fills the area up to the 13-ft. mark, high-powered grain cooling fans are placed on the pedestals.

"When switched on, the fans will pull the hot air within the grain pile, through the air slots in the pedestal and expel the warm air out of the fan and away from the grain," says Rael Bearman, marketing manager for Plug&Cool. "The combination of pedestals and grain cooling fans cool crops quickly to prevent insects, conserve quality, reduce waste, and meet crop assurance requirements."

The pedestal perforations, 5 by .14 in., are large enough to cool without being blocked by grain. Customers use the fans for crops such as cereal and oilseeds, wheat, barley and rape oilseed.

With more than 30 years of manufacturing cooling fans, Plug&Cool is backed with a 5-year manufacturer's guarantee. The fans are wired for single-phase or three-phase plugs.

"The poly pedestals are incredibly durable compared with others on the market, so once you invest in them, they'll last a lifetime. The fans are energy efficient, durable, and the most cost-effective way to cool grain in any sized grain store," Bearman says. The system can also be used in grain bins, with the addition of a smaller Airspare fan.

The UK company ships all over the world. Bundled kits start at \$900.



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Contact: FARM SHOW Followup, Plug&Cool, Gibbons Engineering Group Ltd., Woodrolfe Road, Tollesbury, Maldon, Essex CM9 8RY United Kingdom (ph +44 (0) 1621 868 138; sales@plugandcool.co.uk; www.plugandcool.co.uk).

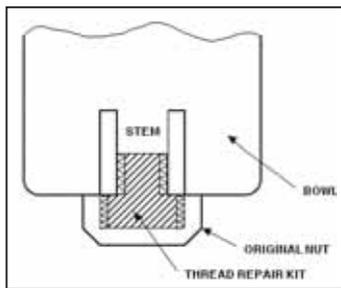
Carburetor Repair Kit For Deere 2-Cyl. Tractors

If you own an older Deere 2-cyl. tractor equipped with a single-barrel carburetor, you'll be interested in this carburetor repair kit from Marvin Henry, Maywood, Neb.

"The single barrel carburetor on these tractors has a nut with a screw-on insert thread at the bottom that holds the bowl in place," says Henry. "Any water that condenses in the gas tank eventually ends up in the bowl. If the water freezes, the ice expands and breaks off the stem bottom, making the carburetor useless. A new single-barrel carburetor for these tractors can sell for \$300 or more. The part I make allows you to rebuild the stem bottom. You machine off the bottom of the bowl stem, then screw in the thread repair kit. The original nut is used to hold the carburetor bowl in place."

The unit can be used on the Deere A, B, G, and D tractors, as well as on Marvel-Schriber DLX carburetors.

While demand can vary, Henry sells around three repair kits a month. "I'm surprised that even people up in Alaska and clear down to Texas will buy these kits from me," says Henry. "But it makes sense. Both temperature



Carburetor repair kit allows for rebuild the stem bottom, saving the expense of buying a replacement.

extremes cause problems. The screws on tractors tend to rust in hotter climates, while in Alaska the problem is freezing."

Each repair kit sells for \$50, which includes shipping. It comes with an installation instruction sheet.

Contact: FARM SHOW Followup, Marvin Henry, Box 9, Maywood, Neb. 69038 (ph 308-362-4251).

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New Device Makes Castration Easy

Castrating pigs is easy when done early, but every day that passes makes it harder. Carl Blake's castration helper, the Nut Boss, makes it easy. The rare Swabian Hall hog breeder (Vol. 35, No. 1) tries to castrate pigs within 7 days of birth, but he admits there can be delays.

"The longer you wait, the more difficulty you have holding them down and making the cuts," says Blake. "With the Nut Boss, there's no muss, no fuss, and you're done in seconds."

The design, with its multiple curves, looks simple. Coming up with it wasn't simple.

"I made 40 jigs before I had what I wanted," says Blake. "I wanted it simple, easy to use, and able to be hung anywhere."

The Nut Boss does what Blake wanted. Drop a piglet in above the rear bar, pull the back legs under the front bar and it's secured. Once upside down in the Nut Boss, Blake notes that the pigs don't squeal.

"Make two cuts, push up the 'jelly beans', and pull them out," says Blake. "Spray with iodine, lift the piglet out, and let them go."

Blake offers the tool in two sizes: small for pigs a week old and a larger size for pigs up to 25 lbs. The tool reduces the difficulty of the process and speeds things up. Blake notes that one satisfied customer was so excited at how well it worked, she even posted a video about it to YouTube.

"She called me excitedly after buying one of the tools," he recalls. "She said it normally took her 8 to 9 hrs. to catch and castrate her pigs. With my tool, she did it all in 31 min."

Making the tool out of stainless steel adds to the cost, but Blake feels the added expense



Drop a piglet in above the rear bar, pull the back legs under the front bar and it's secured. Once upside down in the Nut Boss, Blake notes that the pigs don't squeal.

is worth it. "It'll never wear out or fall apart," he says. "If it gets bent, just bend it back."

The Nut Boss, including shipping, is priced at \$49.99 for the small model and \$59.99 for the large one. It's one of several tools Blake has designed and sells, including a whole hog grill called the American Hotbox.

Contact: FARM SHOW Followup, American Hotbox, 703 S. Aurora St., Eldon, Mo. 65026 (ph 573-375-1111; Carl@americanhotbox.com; www.americanhotbox.com/product/the-nut-boss-small-version/).



HarvestLab 3000 Sensor attaches to the combine's clean grain elevator. A small motor drives an auger that pushes grain past the near-infrared sensor as the combine is harvesting.

Combine Sensor Evaluates Grain Quality During Harvesting

Grain farmers running 2018 and newer Deere S700 series combines can now get real-time grain quality data with a HarvestLab 3000 Series sensor. The sensor uses near-infrared technology to provide harvest maps with protein, starch and oil values as the machine harvests wheat, barley or canola.

Site-specific data is visible on the Generation 4 Display, can be downloaded to a memory stick, or automatically sent to the Deere operations center via JDLINK if a strong cellular signal is available. Deere product market manager Christopher Murray says protein data provided by the 3000 Sensor can be used to correlate how much nitrogen was removed by the crop during the growing season. The maps can help create a prescription nitrogen application the following year. Murray says data from the 3000 Sensor can help growers reduce future nitrogen application costs by \$5 to \$15 an acre using management tools in the Deere

Operation Center.

Data from the Sensor can also allow growers to identify higher-producing grains during harvest and store them according to quality levels, then market them to a buyer that pays a quality premium. Murray says their field testing with grain farmers showed that premiums of nearly 30 cents a bushel were achieved for high versus average protein wheat.

The HarvestLab 3000 Sensor attaches to the combine's clean grain elevator. A small motor drives an auger that pushes grain past the near-infrared sensor as the combine is harvesting. The sensor is similar to equipment already used on Deere forage harvesters and for sensing nutrient levels of liquid manure. Contact a Deere dealer for price information and availability.

Contact: FARM SHOW Followup, John Deere (www.deere.com).