

Simple Add-On Helps Reverse Combine Discharge Beater

“The discharge beater on Deere 50, 60 and 70 series STS combines can get wrapped with tough soybean stems, making it almost impossible to reverse,” says Kent, Minn., farmer Jim Miranowski. “My friend Paul Dimmer and I made a simple hub that fits over the beater pulley so we can use the same tool that reverses the accelerator beater to reverse the discharge beater.”

Miranowski and Dimmer made the hub in 2011 after plugging the discharge beater on their Deere 9770 3 times during soybean harvest. “The beans were dry, but the stems were tough and that made harvesting miserable,” says Miranowski. “Those tough stems wrapped around the discharge beater and even with the chopper lowered we couldn’t turn the beater pulley backwards.”

The frustrated Minnesota soybean harvesters made a special notched hub out of flat steel that uses the same 6 holes as the pulley, but mounts with longer grade 10 bolts. With the hub in place, the same tool that Lankota Inc. supplies to reverse the accelerator beater can be used on the discharge beater. “When we used it to turn the discharge beater back-

wards, it sure was a lot easier to clean off,” says Miranowski.

The inventors decided to patent their idea. With a provisional patent in place, they met with Deere, but the company wasn’t interested in stocking their part. They contacted Lankota Mfg. of Huron, S. Dak., and eventually signed an agreement to have Lankota Inc. manufacture and market the product. The part has since received its full patent.

“The hub is a simple solution to a big problem,” says Miranowski. “When it’s mounted to the discharge beater pulley on the 50, 60 or 70 series machines, it doesn’t affect the speed or balance of the beater, and it sure makes reversing the beater easy.” Miranowski says Lankota Inc. has sold several of the hubs in the past few years and recently modified the design so it fits the new Deere S series combines.

Contact: FARM SHOW Followup, Jim Miranowski, 1846 250th St., Kent, Minn. 56553 (ph 218 557-8709; jafarm@rrt.net).



Special hub fits over the pulley of combine’s discharge beater, allowing you to use Lankota Inc. reversing tool to clean out a plugged beater.



Photo shows reversing tool mounted on hub.

Reader Inquiry No. 97

Vacuum The Air In Your Shop

Welding smoke, diesel smoke, grinding and just about everything else you do in your shop puts dust particles into the air that you’d probably be better off not breathing.

Wayne Hughes, owner of Air-Vac Systems, Cedar Falls, Iowa, can help keep your shop air clean. For almost 25 years, Hughes has been making and selling air cleaners to repair and body shops, factories, welding shops, diesel shops and other places of work. He has been selling to farmers for use in farm shops for several years.

Air-Vac air cleaners are housed in simple 16 gauge steel powder coated cabinets that measure 2 ft. square by 5 ft. long. An electric fan located at one end of the cabinet pulls the dirty air through two filter stages and exhausts the clean air back into the shop.

Air-Vac units use two types of filters. Air enters through a 4” thick pleated pre-filter and continues through an eight pocket 95% efficient bag type filter. The main filter need only be replaced once a year at a cost of \$74. The pleated pre-filter sells for \$12 and is replaced every month or two.

Installing the Air-Vac system is simple. Hughes says to mount it on a shelf or suspend it from the rafters using four chains. Air-Vac low maintenance air cleaners are equipped with a 10’ power cord which plugs into any 110 volt receptacle. The unit weighs 160 lbs. and is shipped complete with filters.

The model M-25 Air-Vac will clean the air in a 2,000 sq. ft. building and sells for \$1,790. Simply add more units for larger sizes. This is important because the secret behind air cleaning equipment is having enough equipment to do the job.

Air-Vac Systems is offering a Special to all FARM SHOW readers. Regular price \$1,790. The reader’s discount is \$200 so the FARM SHOW price is \$1,590.



A 5-stage filter that removes odors, toxic gases, and chemical vapors is also available (see page 15).

Air-Vac Systems accept VISA, Mastercard, Discover and American Express or personal check.

Contact: FARM SHOW Followup, Robert Hughes, Air-Vac Systems, Inc., 1514 W. Lone Tree Rd., Cedar Falls, Iowa 50613 (ph 800 234-2473; cell ph 319 231-4711; fax 319 266-2524; rhughes@air-vacsystems.com; www.air-vacsystems.com).

Reader Inquiry No. 63