

## Business News



The new model 450 batch mixer from A.O. Smith Harvestore Products, Inc. can handle as much as 250 cubic feet of forage, grain, and other ration ingredients. The new mixer has 33 percent more capacity than the company's previous best-selling mixer.

### Batch Mixer Handles Big Chores

DEKALB, Ill. — A new batch mixer that can handle up to 250 cubic feet of forage, grain, and other ration ingredients has been introduced by A.O. Smith Harvestore Products, Inc., headquartered here. The model 450 mixer has 33 percent more capacity than the company's largest previously available mixer, the popular model 441.

The new feed management tool is scaled to bring the benefits of total mixed rations (TMR) to larger dairy or beef feeding enterprises, according to Rick Jones, the company's sales manager for ag products. He said that many progressive livestock farmers are switching to TMR feeding programs, which allow them to use available feeds more efficiently and have the potential to improve livestock performance.

The 450 mixer has four aggressive augers to blend rations quickly and thoroughly. The two bottom augers counterrotate for robust mixing action, and are notched to "grab" forage and even break up small amounts of baled hay. The augers are driven by a heavy-duty chain drive running in an enclosed oil bath. A 10 to 15 h.p. motor is required.

The mixer's bottom and side-walls are lined with glass-fused-to-steel, the same rugged material used to make Harvestore feed storage structures. The glass coating provides a barrier against silage acids and helps resist abrasion. The smooth surface also lets ingredients flow easily, thus increasing mixing efficiency. When rations are ready to feed, the mixer can be emptied easily and quickly by a convenient bottom door with remote power control. This design feature also gives the new mixer the versatility to work in a variety of feedroom layouts.

Safety covers on the top of the

mixing chamber are included as standard equipment.

The model 450 batch mixer can be ordered with an economical beam scale, or an electronic digital scale to bring state-of-the-art management to the feedroom. The beam scale can weigh up to 6,000 pounds.

The new mixer is available through authorized, independent Harvestore system dealerships in the U.S. and Canada.

### Free Video On Round Baler Safety

MOLINE, Ill. — John Deere is making available a free videotape on round baler safety and the operation of large round balers equipped with compression rolls for owners of John Deere Model 410, 500, and 510 balers.

The video, produced by John Deere with assistance from Pioneer Hi-Bred International, Inc., North American Seed Division, is intended to remind original and subsequent owners of these balers, which were manufactured between 1975 and 1982, about safe round-bale practices and proper operating procedures.

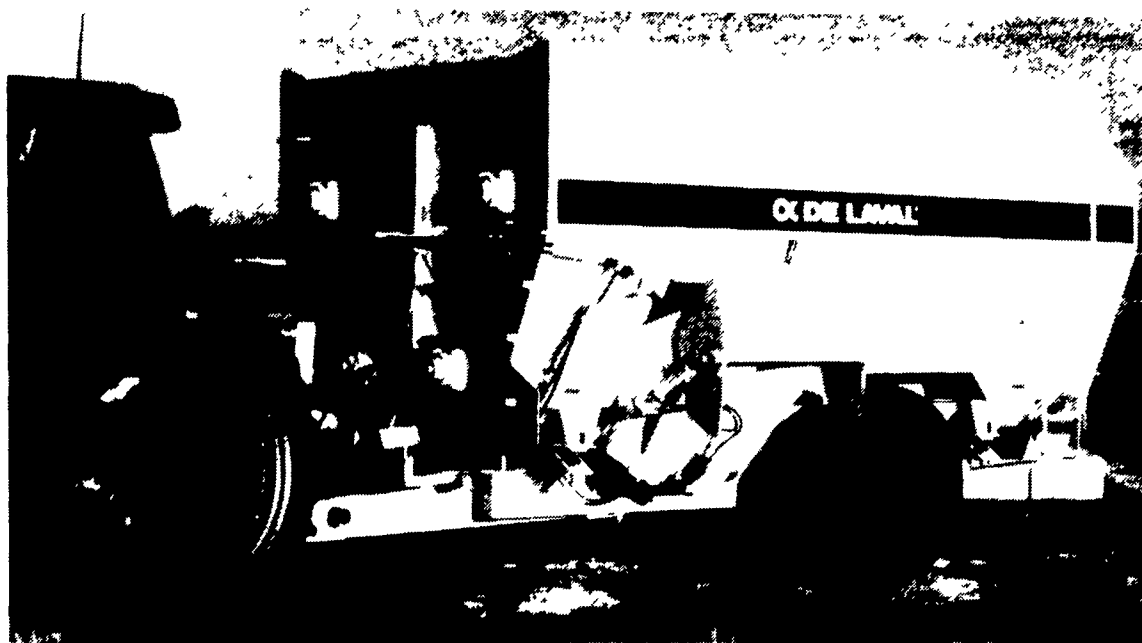
The tape contains a nine-minute

### Tests Rate Fan

LANSING, Mich. — Aerotech's 48-inch ventilation fan for livestock buildings was the top-rated fan in independent tests on fan efficiency commissioned by the Wisconsin Farm Electrification Council, suggesting large potential energy savings for producers.

Based on test data, Aerotech was rated 21 percent more efficient than the second-place fan and would save producers more than \$4,000 in energy costs alone during a 10-year period in a typical tunnel-ventilated hog house.

The Aerotech 48-inch fan has an airflow of 23,900 cubic feet per minute (CFM) with an efficiency rating of 23.4 CFM/watt. Although the second-place fan has



TMR mixers from DeLaval are available in truck, trailer, and stationary models in sizes ranging from 190 cubic feet through 810 cubic feet. They feature a unique four-auger design that effectively and economically combines feed ingredients to provide a balanced mix for any herd.

### Mixers Balance Feed Program

KANSAS CITY, Mo. — Total mixed ration (TMR) feeders are now available from DeLaval, a Kansas City-based dairy equipment supply company.

TMR mixers from DeLaval are available in truck, trailer, and stationary models in sizes ranging from 190 cubic feet through 810 cubic feet. They feature a unique four-auger design that effectively and economically combines feed ingredients to provide a balanced mix for any herd. Each auger is notched, so long-stem hay can be handled easily. Augers are also flanged to make removal as simple as possible.

According to Mark Juett, marketing manager for DeLaval, TMR mixers are the perfect foundation for any feeding system.

"TMR mixers provide the balanced feed base to meet each herd's requirements," said Juett. "Then, by using DeLaval's computerized RationMaster® feeding system, the base feeding of top producers can be supplemented with an Individualized Concentrate Feeding (ICF) program.

"By using the TMR mixer along with an ICF program, dairy-men can really have the best of both worlds. The mixer saves time and money up front and the ICF program ensures that each cow receives just enough feed to stay at her optimum production level.

"As a result, dairymen have a feeding system that enables them to get the perfect balance between practicality and efficiency. And that's a combination that's sure to have a positive impact on their productivity and profitability."

DeLaval TMR mixers are the best built on the market today. Bodies are welded solid and feature ribbed-frame construction for lasting strength. Welding also prevents feed from getting in cracks, eliminating the danger of aflatoxin. Optional 304 stainless steel liners can even be added to the mixer body to prevent premature deterioration and virtually eliminate corrosion.

DeLaval's mixer line was developed with a planetary gearbox speed-reduction system, so very little maintenance is required.

When maintenance is necessary, however, major drive components are readily accessible to make it as easy as possible.

Every DeLaval TMR mixer comes equipped with a J-Star® scale. Complete with its three-year warranty, this top-of-the-line scale sets the industry standard for reliability.

What's more, mixers can be custom built to meet individual requirements. Dairymen can choose from a wide range of optional features to design the mixer that meets their needs perfectly.

The new line of TMR mixers is available through independent DeLaval dealers nationwide. DeLaval dealers provide complete training on the equipment and any future assistance that's required. In addition to feeding equipment, DeLaval dealers provide a full line of dairy equipment and supplies.

For more information, contact J. Mark Juett, marketing manager, DeLaval, 11100 North Congress Avenue, Kansas City, MO 64153, (800) 365-1883.

segment that describes safety procedures for making and handling round bales. The second part of the tape provides 22 minutes of operating techniques and tips for model 410, 500, and 510 round balers.

Packaged with the video is a leaflet that summarizes important round-baler safety principles and includes a round-bale safety checklist.

Any owner of a John Deere model 410, 500, or 510 round baler can order the free VHS video by calling, toll free, (800) 544-2122. Ask for videotape DSVHA90596EN.

### 'Most Efficient'

a slightly higher airflow of 25,000 CFM, it is much less efficient at only 19.3 CFM/watt. All fans were tested at 0.04 inches of static pressure with shutters and guards attached and cones in place.

The test results were published in "Agricultural Ventilation Fans Performance And Efficiencies" by bioenvironmental and structural systems laboratory, department of agricultural engineering, University of Illinois at Urbana-Champaign with support from the Wisconsin Farm Electrification Council.

"New materials, innovative manufacturing techniques and design breakthroughs all contribute to the outstanding fan performance," said Robert Mitchell,



Free Video From John Deere provides information about safe round bale practices and proper operating procedures for owners of John Deere model 410, 500, and 510 balers. To receive the free VHS video, call (800) 544-2122 (toll free) and ask for tape DSVHA90596EN.

Aerotech president. "It starts with our proven airfoil propeller. But it also takes attention to a lot of little details that we've perfected over 40 years to get this kind of efficiency."

In a typical tunnel-ventilated breeding or finishing swine barn requiring 120,000 CFM, five Aerotech 48-inch fans operating 4,000 hours per year for 10 years would save \$4,360 per building just in energy costs at \$0.10/kw-hr. based on the test

data. Over 10 years that's a savings of \$872 per fan over the second-place fan.

One of the big advantages of the Aerotech fan is a precisely engineered, circular discharge cone that smooths airflow and reduces back-pressure to boost capacity by 12-17 percent.

For more information, contact Aerotech, Inc., 929 Terminal Road, Lansing, MI. 48906, (800) 227-AERO or (517) 323-2930.