



Twenty in. head allows Brown to use the same planting and cultivating equipment.

## SELF-PROPELLED UNIT COVERS SIX 20-IN. ROWS AT A TIME

# He Built A Narrow Row Silage Chopper Head

When he couldn't find a narrow-row silage chopper on the market, James Brown of Oto, Iowa, built his own 20-in. head out of two used 4-row, 30-in. Deere heads. He mounted the resulting 6-row unit on his self-propelled Uni-Harvester power unit.

"It lets me use the same planting equipment on my corn and soybeans. And the 20-in. rows result in higher silage yields," says Brown. "I spent about \$4,000 to build it."

He bought two used 4-row 30-in. Deere "stalker" heads that were in good shape. He slid the row units together on one head and added two row units from the other head to make six rows.

Brown built the narrow row chopper head 2 years ago and has used it to cut about 200 acres of silage. "I already had the Uni-Harvester power unit which had a 4-row, 30-in. head mounted on it. There was no way to narrow it down.

"I built the narrow-row head because I wanted to plant all my crops in 20-in. rows. Deere sells a 20-in. corn head for combines, but not a narrow row silage chopper head. The only other alternative is the Lundahl or Kemper heads but I think they're too expensive - about \$38,000 for a new 15-ft. Kemper model or \$15,000 for a used one.

"Deere made the stalker heads in the early 1970's for three or four years but didn't build very many of them. However, they're ideal for this modification. The heads were made



Head was built out of two used 4-row, 30-in. Deere "stalker" heads.

in 4-row 30 and 38-in. versions. They look similar to the Deere row crop bean head and cut close to the ground. They were originally designed to harvest whole plant corn stalks after the field had already been harvested. The stalks made feed that was good enough for stock cows."

Brown says he's willing to custom build the 20-in. heads which will fit any Deere self-propelled chopper and newer Uni Choppers.

Contact: FARM SHOW Followup, James D. Brown, 3821 280th St., Oto, Iowa 51044 (ph 712 827-4155).

## Truck Tire Beads Make Great Silage Pit Weights

"They're much easier to handle and store than whole tires," says an Iowa company which cuts the beads out of 24-in. truck tires and sells them for use as silage pit weights.

Bee Right Tire Disposal goes to farms to pick up the tires and uses its own tire-cutting equipment to cut off the beads. Farmers come in to pick up the 4-in. wide beads.

"They're easier to carry than whole tires and eliminate problems with water or ice inside tires. They're also easy to stack and take up less storage space," says Jerry Yoemann. "Each bead weighs 20 lbs. which is about the same as a car tire. You can carry four or five beads to your silage pile at a time. Fifty beads can be stacked in a 4-ft. high pile. We sell the beads for 50 cents apiece."

For more information, contact: FARM



Dennis Beane, who farms near Rhodes, Iowa, sent FARM SHOW a photo of his silage pit with 1,000 beads on it.

SHOW Followup, Bee Right Tire Disposal, Box 122, 118 East Linn, Rhodes, Iowa 50234 (ph 515 493-2008).

## Deere 10, 20, And 30 Series Tractors Repowered With Cummins Diesels

If you have a Deere 10, 20, or 30 series tractor with a worn-out engine, you should consider repowering it with a new Cummins diesel, says Altura Truck & Tractor, Altura, Minn., which runs a repowering service for older Deere 10, 20, and 30 series tractors, including the 3010, 3020, 4000, 4010, 4020, 4320, 4520, 4620, 4030, 4230, 4430, and 4630 tractors.

The company exhibited a Deere 3010 at the recent North American Farm & Power Show in Minneapolis, Minn. It had been repowered with a Cummins 4-cyl. 4B3.9 diesel engine.

"Converting a tractor with a worn-out gas engine to diesel is less expensive than buying a new tractor and it improves tractor resale value," says Merlin Stephan. "The tractor uses less fuel than the original gas engine and is even less noisy. In some cases it results in more horsepower and more torque."

"Most of the time we don't have to modify the frame or hood so you won't notice much difference in the appearance of your tractor. What you will notice is greatly improved performance. We paint the engine and the front frame. All engines come with a



Deere 3010 repowered with Cummins 4-cyl. 4B3.9 diesel.

2-year, 2,000 hour warranty. All of the work is done at our shop. Installation kits are not available at this time. It costs \$10,900 to have a non turbocharged diesel engine installed and \$11,900 for a turbocharged."

Contact: FARM SHOW Followup, Altura Truck & Tractor, RR 1, Box 10, Altura, Minn. 55910 (ph 507 689-4667) or FARM SHOW Followup, Cummins North Central, Inc., 2690 North Cleveland Ave., St. Paul, Minn. 55113 (ph 612 636-1000; fax 612 638-2442).



"Eyesite" mounted parallel to windshield on Fastrac tractor.



Red frame should be seen just inside the black screen on cab window.

## Tractor-Mounted "Line Of Sight" Device Keeps Rows Straight

Keeping rows straight is easy with this simple new tractor-mounted "line of sight" device invented by Sally Martyn Smith, an English farmer who's now marketing the product.

The "Eyesite" is a two-part device that makes it easier for the driver to line up with a reference point.

It consists of a printed screen that sticks to the windshield and a magnetically mounted red plastic frame that stands on the hood. Suction pads are used to push the screen onto the windshield in line with the driver's normal sitting position. The screen has a design printed on it that consists of two squares across and five down.

The rectangular frame on the hood is positioned so that its inside edges can be seen through the screen from the tractor seat.

The driver views a distant object - such as a tree or a post - through the center line of the screen. As the tractor continues across the field your eye splits the line in two and produces a third row of boxes. The driver keeps the object in the center box of the middle row. As the tractor continues down the field the object becomes larger and fills up more of the screen. The driver continues to center the object in the center box. As long as the screen and frame stay aligned and the object is in the center box, you'll have straight rows.

"It's a simple way to make straight rows and works no matter what your physical size or driving position," says Smith. "The straight rows that result have several advantages. They maximize the working width of any implement and reduce the number of passes needed, and they reduce under and over application of chemicals and fertilizer. If you use pull irrigation guns across the field straight rows will keep you from running over the crop."

"If you're on hilly ground and can't see the end of the field you can place a marker on the horizon and the system will still work."

"The mounting bracket that connects the frame to the magnet can be adapted to tractors with different sloping hoods. Lever suction clamps are available for tractors with fiberglass hoods. The screen has 4 suction pads, one on each corner, allowing it to be used over and over again without losing its sticking properties."

Sells for about \$100 in England.

Smith is looking for a North American importer.

Contact: FARM SHOW Followup, Sally Martyn Smith, AgriAid Limited, High Clows Farm, Clows Top, Kidderminster, Worcs, England DY14 9PB (ph and fax 01299 832184).