

## J-Star Offers Piston Pump Line

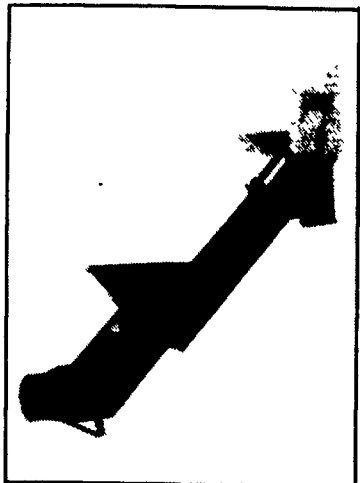
FORT ATKINSON, Wis. — J-Star Industries offers a lineup of economical and dependable piston pumps.

The J-Star line combines the best features of the company's Nesseth® and Van Dale® Waste Handler pumps.

J-Star piston pumps are built extra heavy to provide maximum pumping power and years of service. Their hollow cast iron piston is encased in a formed-steel chamber for increased durability and longevity. The pump itself is designed with minimal moving components for trouble-free operation.

Three different models of piston pumps are available. Model 207 is designed to handle average installations with pumping distances of 140 feet. Model 215 is equipped to pump manure in liquid or semi-liquid systems. Model 307 has an extra rugged helical gear drive that can tackle extra long pumping distances.

Built to offer a broad range of



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capabilities, J-Star's piston pumps transfer bedded or liquid manure up to 50 cubic feet per minute. The actual pump serves as its own concrete form so its installation does not require any complicated or expensive concrete forms or holding pits.

## Produce Auction Announces Events

KUTZTOWN (Berks Co.) — The Education Committee of the Kutztown Produce Auction, in cooperation with Penn State Cooperative Extension, has announced a series of educational meetings for vegetable growers and roadside stand operators.

The popular vegetable study circle meetings will continue in 1998. A study circle is a participative meeting format where growers discuss issues of concern, such as vegetable production. Usually an expert is invited to lead the discussion and keep the group focused on the topic. The study circle format is like having an informal conversation with other growers similar to yourself. Rather than just listening to a lecture, study circle participants ask questions and add their expertise to the discussion. It is also a great networking opportunity.

The first study circle meeting will focus on the drive-through functions of the produce auction. "Getting the Most From the Drive-Through Auction" will be held on Jan. 8 at 7 p.m. at the Kutztown Produce Auction. Learn how other growers and auctions are using this system and offer your input on how the drive-through can be improved.

"Gear Up For Transplant Production" will be the topic of the March 12 meeting. This dis-

cussion, which will be lead by Dave Eastburn of Gro n' Sell, Inc., will focus on vegetable transplant production. On April 16 "Marketing Your Farm Market" will be presented. John Berry, multi county ad marketing agent for Penn State cooperative Extension, will lead this discussion with a panel of farm market operators.

All study circle sessions begin at 7 p.m. and are held at the Kutztown Produce Auction building.

The Kutztown Produce Auction Annual Educational Meeting will be held on Feb. 13 at 11 a.m. at the Fleetwood Grange Hall. This meeting will provide information to growers and buyers on auction policies and will include a panel discussion on how to be successful selling at an auction, and how auction procedures and policies can be improved. Speakers will include key personnel from other produce auction. In addition, growers will be able to visit with local suppliers and learn about new products.

For more information on the study circle meetings or the annual grower meeting, contact Herb Gebely, Kutztown Produce Auction Manager, at (610)683-7161 or Judith Schwank, extension agent for Penn State Cooperative Extension, Berks County, at (610)378-1327.

## Small Grain Headers Meet Cutting Needs

ATLANTA, Ga. — Five distinct types of small grain headers are available for Gleaner combines, each designed to help producers adjust to different crop and harvesting needs.

Quick-attach headers are engineered for both the Gleaner Silver Series Rotary combines (R42, R52, R62, R72) and the C-Series convention combine (C62).

Here's a quick review of each header, by model number and type.

•Model 400 Pickup Header. The model 400 pickup header is available in a 13-foot width. It is designed for harvesting windrowed crops, where extra drying time is needed and the crop cannot be harvested in standing condition. The Model 400 has a real drive with optional hydraulic drive. It is 24 inches in diameter with a 30-inch pitch.

•Model 600 Draper Header. The Model 600 draper header, available in 25-, 30-, and 36-foot widths, is designed to improve cutting, gathering and feeding performance in all small grain crop conditions. "The draper conveying system allows the crop heads to face the same direction during the gathering phase," said Jerry Weaver, general marketing manager, Gleaner combines. "This creates a smooth crop flow into the combine for better harvesting efficiency and more acres covered in a day." The Model 600 is available with three reel formats—bat, universal, and polytine pickup. It uses a multi-piece

knife assembly with heavy-duty guards and overserrated bolt-on sections. Cutterbar and draper angle adjusts from 7 to 14 degrees.

•Model 700 Rigid Header. The Model 700 is a rigid header that has been "beefed up" for high capacity harvesting. It is available in 25-, 27-, and 30-foot widths. Design modifications include a new cutterbar position, larger conveyor and faster auger to prevent crop material from standing in front of the conveyor and to increase feeding capacity. Equipped with a 38-inch diameter, 5 bat metal reel, the "high capacity" head is driven hydraulically. The smaller diameter reel has additional brackets to position the bat at a "standard" or "pitched" 8.5 degrees. By reducing the diameter of the reel by five inches, the crop flows easier from the cutterbar. These features combine with four-inch longer curved reel arms improve gathering and feeding performance.

•Model 800 Flex Header. Moving the cutterbar forward four inches also improves feed capacity and crop flow in heavy conditions. Auger speed has been increased to 165 rpm and longer 3/4-inch adjustable fingers convey the crop to the feeding system. The Model 800 flex header is designed for contour or unlevel fields. It is available in a range of widths — 15-, 16-, 18-, 20-, 22-, 25-, 27-, and 30-foot.

The drive system is hydraulic. Height and cutting range controls are electro-hydraulic. It has a speed range of 0 to 72 rpm and a sickle stroke

of 3 inches. The cutting range is - 15 inches to plus 48 inches.

•Model 900 Stripper Header. The Model 900 stripper header, available in 20-, 22.5-, and 25-foot widths, is designed to harvest cereal grains, wheat, oats, barley, rye, flax, grass seed, peas and canola. It features a unique "Keyhole design: that strips dry grain directly from standing stalks. "This allows the crop to be harvested earlier — just as soon as the grain is dry," said Weaver.

Since the header strips grain directly from the stalk, moisture-heavy stems and weeds can be kept out of the machine. "This improves harvesting efficiency with easier separation, higher quality grain and less wear and tear on threshing parts," said Weaver. "Also, the operator can start earlier in the day, run later in the evening and cover more acres, often at faster ground speeds."

The stripper header supports conservation farming practices in areas where growers want to leave a maximum amount of undisturbed residue in the field to conserve soil moisture or reduce erosion between crops seasons.

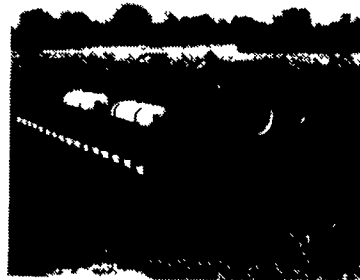
The Model 900 operates with a rotating drum called a "stripper rotor" that has six rows of comb-like teeth, each with the key-hole design at the base. The drum rotates to engage the crop in an upward sweep. Plants are raised, heads are stripped in the key holes and grain is moved to an auger trough that delivers it to the combine for threshing.

## Planter Designed For Sugarbeet, Edible-Bean Growers

MOLINE, Ill. — Responding to sugarbeet and edible-bean grower requests for a heavy-duty and high-tech planter designed especially for their needs, John Deere has introduced the 16-row 22-inch John Deere 1780 Max Emerge® Plus Planter.

The 1780 Planter features the MaxEmerge Plus row unit, John Deere's latest design that provides increased accuracy and easier adjustments. It is also the industry's strongest row-unit. Standard seed hopper capacity is 1.6 bushels; 3-bushel hoppers are available as an option.

The wings on the tree-section, front-fold planter frame flex 8 degrees up and down (relative to the center section) for ground-hugging performance and accurate planting depth. Six 11Lx15 tires support the frame during planting. Optional 31x13.5 tires provide up to a 26-percent larger footprint for



**The John Deere 16-row 22-inch 1780 MaxEmerge® Plus Planter features SeedStar™ variable-rate drive as standard equipment. The operator can select from up to six planting rates on-the-go, at the touch of a button.**

planting in sandy or well tilled soils.

Each 1780 planter comes factory-equipped with SeedStar™ variable-rate drive. Producers can select up to six seeding rates on-the-go, at the touch of a button. The operator can easily reprogram any of the six rates

with a few simple key strokes on the GreenStar™ display in the cab. Two hydraulic motors provide a half-width disconnect.

The VacuMeter™ seed-metering system is standard. Growers can also choose optional finger-pickup, feedcup, or new radial-bean meters.

Low profile tri-fold markers on the 1780 Planter provide a transport height at 10 feet 11 inches. Transport width is 15 feet 11 inches. For convenience, one selective control valve (SCV) lever activates folding, all without the cab.

Additional options on the 1780 Planter include a pneumatic, central down-force system that's infinitely variable up to 400 pounds. The system provides the convenience of a single adjustment to simultaneously set the down-force for all of the row units, a force that remains constant through the full range of row-unit travel.

## Hybrid Produces 235 Bushels Per Acre

LANDISVILLE (Lancaster Co.) — A northern New Jersey farmer has reported and certified an exceptional corn harvest using a NK® Brand corn hybrid in his field in Warren County.

This past spring, Jacob Bilyk planted Maximizer 607 with KnockOut™ built-in corn borer control, a NK® Brand corn hybrid available exclusively from Hoffman Seeds. Thirty-thousand plants were sown per acres in 30-inch rows, which

Bilyk said, he "topdressed to give them a little boost."

As a result, Maximizer 607 produced a certified yield of 235.006 bushels per acre (harvested at a 27 percent moisture rate and calculated down to 15 percent moisture). Bilyk is now a competitor in the National Corn Growers Yield Contest in the category of "Top Yield for 1997."

New to farmers, Maximizer 607, has a relative maturity of

115 days and is suitable for all soil types. Max 607 has very good tolerance to Stewart's Wilt, common rust, and northern and southern corn leaf blight.

It provides farmers with high test weights and superb grain quality, drought and heat tolerance, excellent control of first generation and strong control of second generation ECB, excellent early vigor and growth, and excellent tip fill and husk coverage.



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