



Chopper, shown in "reverse" position, features new energy efficient flywheel design.

**OPERATES BEHIND TRACTOR FOR OPENING FIELDS, THEN SWINGS OFF TO THE SIDE**

## Two-Way Chopper Is Industry "First"

Three exclusive features put Vermeer's new two-row model 160 chopper in a class by itself:

1. Developed by the P.Z. Sweegers Co., of Holland, and now being marketed by Vermeer under a licensing agreement, it's pto-driven and operates two ways. To open fields, it operates behind a turned-around conventional tractor, which is driven in reverse. After opening the field, you unhook, turn the tractor around, then swing the chopper head and rehook the pto shaft for operation along the right side of the tractor.

2. There is a separate nine-blade "flywheel" chopper for each row, an exclusive feature which makes the model 160 one of the most efficient on the market for fuel economy and low horsepower requirement, according to Lyle Borg, Vermeer's sales manager. "An 80 hp tractor will han-

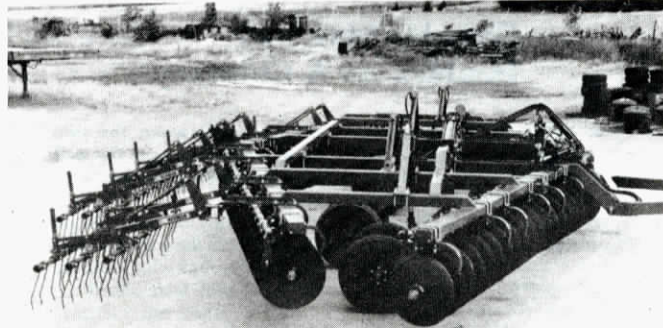
dle it easily. However, if you want more capacity, you can hook it to a bigger tractor," says Borg.

3. The new 160 has fewer moving parts — including no gathering chains or sprockets, making it easier to maintain and service.

The new-style chopper is strictly for row crop corn or sorghum and isn't available with a grass or hay head. Row spacing is 30 in. but, with optional stalk guides, it will efficiently harvest slightly wider or narrower rows, says Borg.

"Another attractive feature is its price tag," adds Borg. "It retails for right at \$10,000, which makes it one of the most competitive two-row choppers on the market."

For more information, contact: FARM SHOW Followup, Vermeer Mfg., Box 200, Pella, Iowa 50219 (ph 515 628-3141).



Diamond-shaped configuration spreads weight across entire machine.

**'PRACTICALLY ELIMINATES BROKEN BLADES'**

## New "Diamond Disk" Floats Over Rocks

Frustrated by the endless problems with broken disk blades on his rock-infested North Dakota farm, Ardon Herman, of Brinsmade, turned to his workshop to design a "rockproof" disk with a revolutionary new diamond design.

Herman's Diamond Disk works so well — he disked 3,500 acres and broke just one blade — that Summers Mfg., of Maddock, N. Dak., is now manufacturing and selling it.

The disk's diamond shape spreads the weight across the disk instead of centering it all on the center blades — where most breakage occurs. Another feature that reduces blade breakage are "C" shanks which absorb the shocks and jolts from hitting rocks and stumps, thus prolonging blade and bearing life. The diamond shape leaves room inside the center section of the machine for three sets of dual tires, set in a triangular arrangement which gives the disk better depth control and weight balance, according to Herman.

He notes that the diamond design

eliminates ridging — allowing you to make turns with the disk down. Gouging and skipping are also reduced because of the floating hitch (which eliminates side draft) and the wings (which flex 22° up and down).

The disk's main frame is made of 4 by 6 in. steel tubing to provide the weight and strength for solid penetration. Its rear gangs are angled at 18° and the front gangs at 19°.

Available in sizes from 24½ to 46½ ft. wide, the disk comes equipped with a Rugby depth control and with either 24 or 26 in. dia. blades. The blades are equipped with solid mud scrapers that flex with the machine.

A 24 ft. model Diamond Disk weighs 12,800 lbs. — 200 lbs. per blade — and has the same horsepower requirement as a same-size conventional disk.

Sells for right at \$900 a foot.

For more information, contact: FARM SHOW Followup, Summers Mfg., Co., Inc., P.O. Box L, Maddock, N.Dak. 58348 (ph 701 438-2855).

## Row "Skimmers" For Max-Emerge Planters

Latest new attachment for Max-Emerge, Kinze and other planters are "skimmer" blades that bulldoze away dry clods ahead of the planter opener to allow seeds to be placed in moist soil for fast germination.

"They work great for getting soybeans and corn off to a fast start when the topsoil is dry and cloddy," explains Dick Kapphahn, Wheaton, Minn., who teamed up with North Dakota farmer Charles Hardie, of Fairmount, to develop and manufacture the device.

An important bonus benefit of the "skimmers", says Kapphahn, is that they help incorporate pre-emerge herbicide in the row. "On soybeans, where a preplant incorporated herbicide had been applied broadcast, you could see a virtually perfect weed-free path where the blades had traveled," Kapphahn points out. "Stirring action of the blades in the loose topsoil produced better incor-

poration of the herbicide and improved its effectiveness."

The V-shaped blades, made with a rounded front bend, are 12 in. wide and 2½ in. high. They're equipped with a welded-on pipe bracket and attach with one long bolt to the coulter bracket assembly on Max-Emerge and Kinze planters, and to similar brackets on other makes of planters.

Selling price, which hadn't been firmed down when this issue went to press, is expected to be about \$15 to \$20 per row, says Kapphahn.

For more information, contact: FARM SHOW Followup, Valley View Enterprises, c/o Dick Kapphahn, Rt. 1, Box 148A, Wheaton, Minn. 56296 (ph 612 563-4125).

