

**TOOLBAR-MOUNTED "PARATILLER"
PROVIDES BIG BENEFITS TO EARLY USERS**

Paraplow "Planter" Catching On Fast

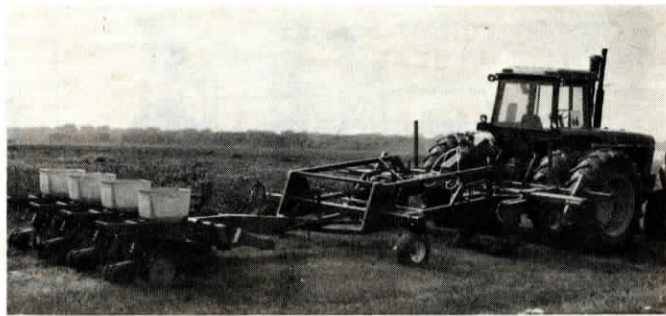
Widespread use of the Howard Paraplow has resulted in a new machine — the Paratiller — which is attracting attention from no-till farmers.

Built by inventor-manufacturer Dale Shrull for a pair of local Russellville, Ky. farmers, the Paratiller consists of toolbar-mounted Paraplow shanks spaced on 30-in. centers and a hitch system to pull it directly behind the tractor and ahead of a planter. The Paraplow shanks each work up a 16 by 20-in. zone directly ahead of the planter openers and seed is centered above the loosened soil zone, 10-in. from the

opening made by the Paraplow shank. Anhydrous is injected 14 in. deep into the Paraplow slot and starter fertilizer is placed below and to the side of the seed.

Early users have experienced yield increases up to 10½ bu. in corn while experiments at the University of Illinois have indicated yield boosts as high as 50 bu. per acre on badly compacted no-till ground.

"Seed seems to emerge faster and there's much less erosion on ground that has been worked with the Paraplow," says Shrull. The idea for the implement came from Joe and David Hendricks who wanted a way



Paraplow shanks mount on straight toolbar behind tractor. Planter trails behind.

to match up the Paraplow with a planter so they could plant with just one pass and still break up compaction, leaving soil residue on the surface. The first machine has an anhydrous tank mounted on the Paratiller frame. A planter hitch that extends out behind pulls a trailing Max-Emerge 7000 planter. The farmers use a 200 hp. tractor to pull the 6-row rig.

"The entire set-up is 40 ft. long but, because of the design of the hitch, it turns as short as a tractor and planter alone," says Shrull, who sells the Paratiller and hitch for \$15,000.

For more information, contact: FARM SHOW Followup, H.C.H., Inc., Rt. 5, Box 31A, Russellville, Kent. 42276 (ph 502 726-2497).

NEW USE FOR A PROVEN MACHINE

'Diker'-Equipped Planter Traps Moisture For Crop

"It's a fantastic new way to trap moisture in the field while you plant," says Leon Thompson, representative of Ag Engineering, Tri-Cities, Wash., manufacturer of the Dammer Diker, a machine that digs holes in the field to trap water and which was featured in FARM SHOW two years ago (Vol. 8, No. 3).

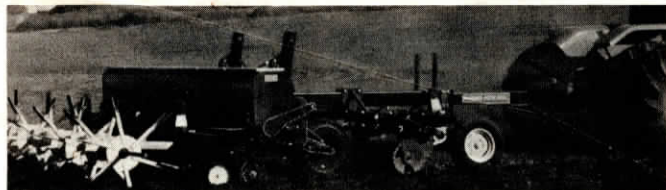
The company is now marketing a new one-pass seed drill that incorporates the diker, chisel plow and drill for a one-pass planter designed for dry conditions.

The Dammer Diker makes nearly 8,000 holes per acre, each 5 in. deep, 6 in. in dia. and spaced 2 ft. apart. It works in conjunction with a chisel

plow which works up the soil ahead of it. The company says its the only dam-making machine on the market that dig holes in the ground to trap moisture rather than simply damming the surface.

Now the company has teamed the Diker up with a 20-ft. wide Great Plains drill. The big one-pass machine includes up-front deep-chiseling shanks, rollers to reform the seedbed, the drill, and a set of Dammer Diker spider wheels to punch holes in behind. The Dammer Diker is adjusted to fit the desired width and depth of the rows.

The machine has been in testing for a year and Thompson says it'll be cost



Up-front chisel plow digs deep ahead of trailing seedbed rollers, grain drill and Dammer Diker.

effective anywhere irrigation water is available or there's a minimum of 12 to 15 in. of annual rainfall.

The Dammer Diker has been used to trap water in nearly every small grain and row crop. The one-pass seed drill machine sells for \$37,000 and requires a 180 hp. tractor. The company is willing to work with farmers to adapt to existing grain drills.

For more information, contact: FARM SHOW Followup, Ag Engineering & Development Co., P.O. Box 2814, Tri-Cities, Wash. 99302 (ph 509 735-3596).



Diker digs holes 5 in. deep, 6 in. in dia. and spaced 2 ft. apart.

SPEED OF SPIN EASILY REGULATED

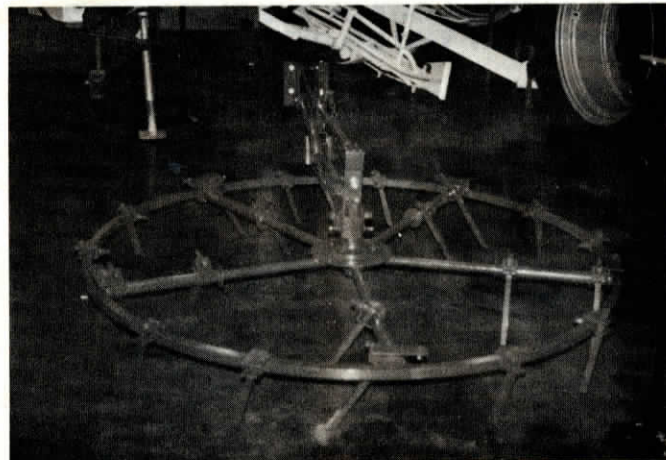
"Trash King" Harrow Spins Through Residue

"Works its way through even the heaviest, wettest residue," says Jerry King, of Kirchner Machine Ltd. about the company's new rotating Trash King circular harrow.

King explains that the forward motion of the harrow causes it to spin. The ¾-in. square high carbon teeth mount at an angle in pivoting brackets that make them dig into the ground on the one side of the harrow as the harrow moves forward and float on top of the ground on the other side as the harrow comes around. Because the spikes only dig in on one side of the harrow, the frame spins and trash is thrown off on the free-floating side of the turn.

The harrow clamps on behind cultivators, disks, plows or other implements. "It breaks and buries dry lumps and mixes straw and trash with the soil," says King, noting that a back-and-forth adjustment at the center of the harrow, which is adjusted with a wrench, regulates the speed of the implement. A top adjustment tube sets the proper slant and parallel linkage holds it at the proper angle.

"One advantage of the harrow is that it leaves patterned, level grooves in the soil that help trap moisture and decrease erosion," notes King. The harrow is available in 6, 7, and 10-ft. dia. models that sell for \$660, \$770



Each tooth on the circular harrow is hinged. Teeth dig in on one side, to spin harrow frame, and "float" as they come around.

and \$1090 respectively. They're also available mounted on their own drawbars.

For more information, contact:

FARM SHOW Followup, Jerry King, Kirchner Machine Ltd., 2419 Second Ave., N. Lethbridge, Alberta Canada T1H 0C1 (ph 403 328-5569).