

**DOESN'T INTERFERE
WITH NORMAL OPERATION**

Apply Anhydrous with Your Disk

Everything you need to convert your disk into an anhydrous applicator is included in do-it-yourself kits from Harlan Mfg., Harlan, Iowa.

"The add-on applicator doesn't interfere with the operation of the disk, including models with folding wings, and gives you the cost-saving advantage of combining two field operations into one trip," explains Bill Ahlers, advertising manager.

The big question in everybody's mind, says Ahlers, is whether or not ammonia knifed into loose, freshly disked soil will seal: "The answer is yes. We mount 3/4 in. round tines behind the back gangs. These special tines are great sealing injectors in freshly-worked soil."

The clamp for holding individual applicator tines is unique. "It's designed to allow each tine to pivot freely," explains Ahlers. "We call it a self-aligning clamp because, as the tine is running through the ground, it pulls straight no matter what angle the disk is at. An added feature is the clamp's ability to hold the tine securely in a non-operating, upside down position. This makes it possible to run the disk alone — without having to run the tines in the ground. You don't even have to disconnect the hoses and it only takes about 5 min. to turn the tines up or down."

Toolbars on which the tines are mounted are attached to the disk in sections so as not to interfere with operation of fold-up wings.

Individual kits include your choice

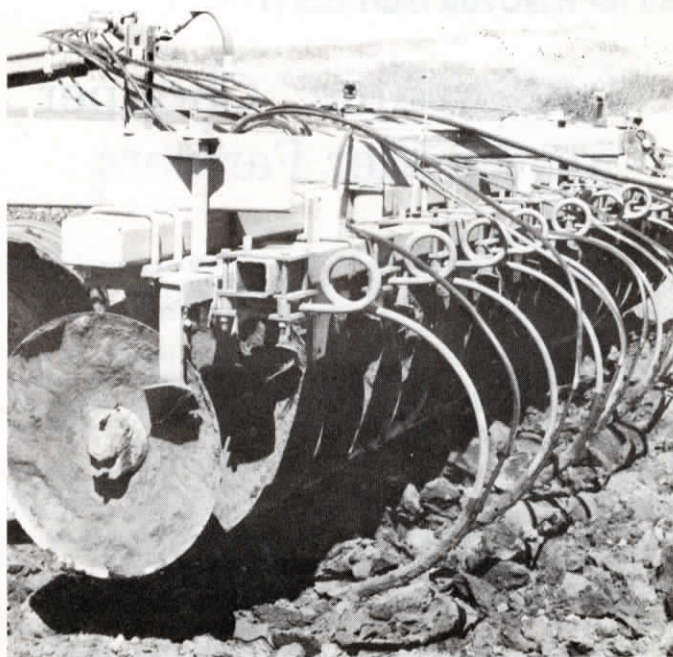
of two meters, 3/8 in. clear plastic hose (7/16 in. optional) and your choice of spike style. If you already have reversible spikes, Harlan offers bolt-on pipes to save you the cost of additional spikes. The company also offers anhydrous kits for field cultivators and chisel plows.

Disk kits are available to fit most makes and models. "The disk should weigh at least 4,000 lbs. so it's heavy enough to pull a tag-along anhydrous tank hitched behind," Ahlers points out.

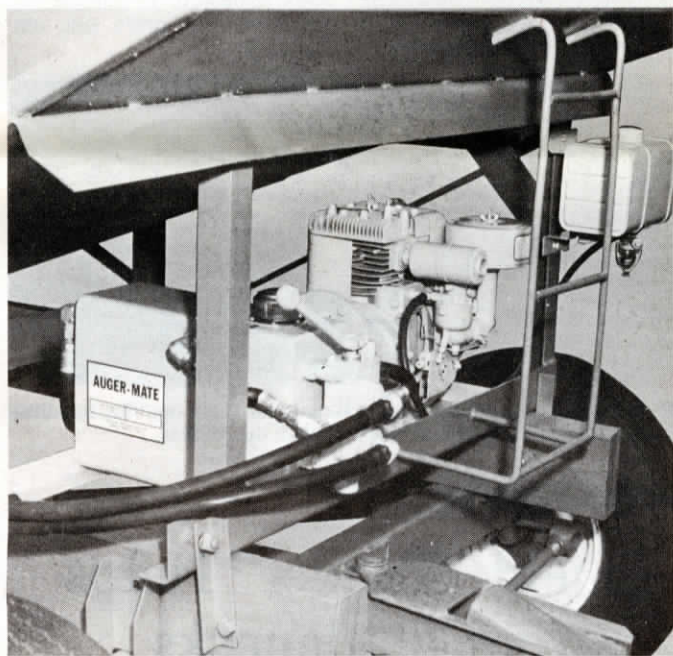
Harlan offers an optional telescoping swivel nurse tank hitch, and an optional hydraulic shutoff called the An-Hydra Posi-Trol which sells for \$225 and can be purchased for use with the kit. It eliminates the long rope pull. To give you a rough idea of cost of the kit itself, the price tag is right at \$1,200 to equip a 20 ft. disk.

If you buy a disk kit now and decide in the future to try the new method of converting "hot" pressurized ammonia to the "cold" non-pressurized liquid form, all you need to update the kit are two additional hoses. If you should decide to switch from a disk to a field cultivator as your main tillage tool, the kit will readily convert with some minor retooling — including new spikes, says Ahlers.

For more details, contact: FARM SHOW Followup, Harlan Mfg., Box 712, Harlan, Iowa 51537 (ph. 712 755-5108).



New Harlan kit includes everything you need to convert disk into an anhydrous ammonia applicator. Works on most models, including wing type.



Auger Mate installs under wagon box in matter of minutes. One unit can serve two wagons, or a wagon unloading auger and planter horizontal fill auger. It's also available with wheels and a pull handle for moving to wherever it's needed. Can also be carried in back of a pickup.

ELIMINATES NEED FOR TRACTOR

Hydraulic Power Unit is Portable, Powerful

You can power augers, wood splitters, posthole diggers and a host of other equipment without tying up a tractor with Auger Mate, billed as a "new concept in farm hydraulic power in compact form, at low cost."

Developed by Buckeye Hydraulics, Grand Rapids, Ohio, it features an 8 hp gas engine with a direct mounted hydraulic pump — no belts or pulleys. It's equipped with a high pressure, 3 position control valve (forward, neutral and reverse) and a safety relief valve.

"Auger Mate is an ideal working companion for 4-wheel drive pick-

ups," says Lionell Long, president. "These pickups are big enough to handle full wagonloads of grain or fertilizer. With an Auger-Mate unit to handle the hydraulics for unloading, you free up a tractor for other uses."

One of the most popular uses for Auger Mate is to convert grain wagons into self-contained unloading units. It can be mounted under the box, or carried in the back of your pickup. Or, it can be mounted on the planter, and hooked in series to the horizontal fill auger and the unloading auger feeding material into it. After planting, the portable power

unit can be taken off the wagon or planter and equipped with wheels and a handle for easy portability to wherever it's needed.

It comes in two models, both of which retail for approximately \$500, including the 8 hp engine. Model 883 has a capacity of 6½ gpm (1900 lbs. per sq. in.); Model 588 is rated at 9 gpm (1550 lbs. per sq. in.).

For more details, contact: FARM SHOW Followup, Buckeye Hydraulics, Box 400, Grand Rapids, Ohio 43533 (ph. 419 832-7491).

