

Bin-Mounted Drill Fill Auger Makes Nifty Cattle Feeder

"It lets me feed 50 calves in just 5 to 10 minutes," says Larry Sommerfeld, Moose Jaw, Sask., who mounted a drill fill auger and flexible spout on an old 700-bu. hopper bottom bin in one of his cattle pens. He uses the flexible spout to fill a pair of bunks just outside the bin.

The 4-in. dia., 15-ft. long auger extends out the side of the bin and is powered by a 1/2 hp electric motor mounted on top of the auger. Feed drops from the auger into a 5-in. dia., 10-ft. long flexible spout that telescopes out to 15 ft.

"It saves a lot of work compared to using 5-gal. pails like I had been doing,"

says Sommerfeld. "The bunks are set at a 90 degree angle to each other so I can entirely fill both bunks. I wrapped a section of truck tire inner tube around the hinged section of the spout to protect it from the weather. I fill the bin twice a year with a mixture of rolled lentil screenings and barley."

Sommerfeld also has another drill fill auger on a bin in another pen. Contact: FARM SHOW Followup, Larry Sommerfeld, Box 1781, Moose Jaw, Sask., Canada S6H 7K8 (ph 306 693-2352).



He Pulls Roller Packer Behind Soybean Drill

"It does a beautiful job and gives me a nearly perfect soybean stand," says Gene Buch, Fairfield, Iowa, about the 3-section roller packer he put together using an old 1930's 3-section, 15-ft. wide cultipacker. He mounted the rollers on a wheeled frame salvaged from an old Deere planter and pulls them behind his 14-ft. soybean drill. The packer-rollers raise or lower hydraulically with the drill.

Buch stripped a Deere 494 planter down to the frame, leaving the lift assist wheels intact. The front roller is 8 ft. wide and mounts ahead of the lift assist wheels. Two 4-ft. wide sections mount behind and to either side of the front section. All three sections are suspended from the planter frame by short chains, allowing the rollers to float along the ground independently of the frame.

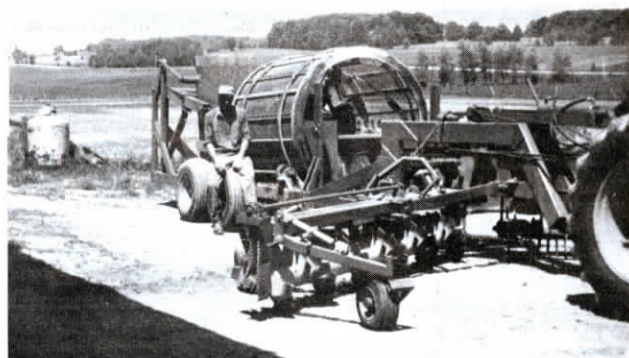
"It lets me plant shallow and leaves the field in nearly perfect condition," says Buch, who modified the roller packer two years ago. "I like to drill beans no more than 1 to 1 1/2 in. deep which means that I always leave some beans on top, especially because I plant at 5 to 6 1/2 mph. My roller presses beans left on top just below the surface. It doesn't pack the ground too much, and it doesn't affect the

drill's performance because it adds only 75 to 100 lbs. of weight to the tongue. The rear gangs trail separately so there's no sliding or gouging on turns. I mount a spring tooth de-tracker under the drill's tongue to wipe out tractor wheel tracks. The field is left so smooth that at harvest I can just skim the ground with my soybean header.

"I had been pulling the cultipacker behind my drill without a lift frame, but I didn't like it because I couldn't raise or lower it and because I couldn't turn without tearing out seed. Now it works great on terraces or contours because the two side sections are hinged on top and will turn.

"The only change I made to the roller packer was to replace the wooden bearings with sealed bearings. Hydraulic lift cylinders hooked in series raise or lower the packer with the drill, so that the packer starts and stops at the same point as the drill while continuing its forward movement."

Buch spent a total of \$1,200. Contact: FARM SHOW Followup, Gene Buch, Rt. 4, Fairfield, Iowa 52556 (ph 515 472-3768).



"3-In-1" Pto-Driven Rock Picker

"It does three jobs at once. Makes rock picking a one-man operation," says Tom Riley, Walkerton, Ontario, about the pto-driven rock picker he built that's designed to rake and windrow rocks, shake dirt off them inside a rotating screened cylinder, and hydraulically dump them into a truck.

The 7 1/2-ton rock picker is 31 ft. long and consists of a 22-ft. wide "double rake" windrower in front followed by a 6-ft. long, 6-ft. dia. rotating cylinder with a 1 1/4-yard bin mounted behind it that lifts up to 8 1/2 ft. high to dump.

The rock windrower consists of two wings with a 16-in. opening at center that funnels rocks into the trailing rotating screen, which has a 2-ft. wide rock-loading pickup mounted on front. Rocks work their way backward inside the cylinder as dirt is shaken off and then are dumped by 12-in. wide paddles at the back of the cylinder into the rear rock bin.

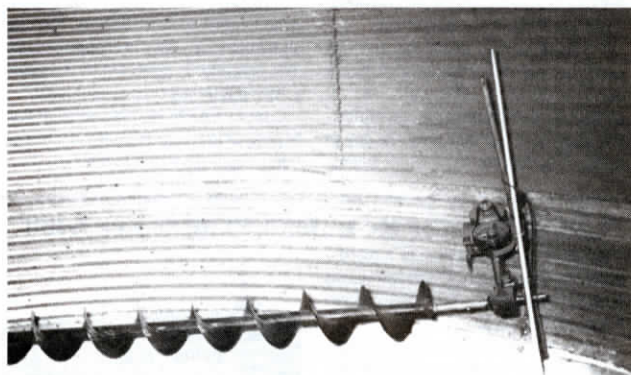
"It lets one man load 15 cu. yards of rocks in an hour," says Riley. "I modeled

the windrower and rock picker after commercial pull-type units I had been using. In the past it took three people to pick up rocks - one to operate the windrower, one to operate the rock picker, and one to haul rocks away.

"I pull it with a Deere 3140 4-WD tractor and it gives the tractor all it can handle. The rock screen was built to specifications for me by a local gravel mining company. The screen breaks up dirt lumps and lets me run deeper in the ground to get more rocks. Dirt falls through the screen and drops onto the ground.

"The windrower, header, and rotating screen are pto-driven with gearboxes and chains, but the bin lifts and dumps hydraulically. The windrower folds up to a 9-ft. width. To fold it, I disconnect the pto shafts and use cables attached to hydraulic cylinders to lift both wings of the windrower straight up."

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Old Rototiller Gearbox Drives Bin Drag Auger

"A gearbox salvaged from an old garden Rototiller works great for powering a 10-ft. long drag auger inside my grain bins," says Alfred Steinke, Bismarck, N. Dak.

The gearbox mounts on "legs" made from a pair of 3/4-in. dia. pieces of metal conduits. The auger was salvaged from an unloading auger off an old IH 140 combine. It attaches to one end of the rototiller's beater shaft. A 1/3 hp electric motor is used to belt-drive the gearbox

which in turn drives the beater shaft. A shield covers the V-belt and pulleys on the motor and transmission.

"It's safe to use because it turns slowly. The belt will slip or the motor will stop if anything gets tangled up in the auger. Many farmers are injured by conventional drag augers because they go fast."

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