

The lightweight "power head and flighting assembly", which is moved from bin to bin, being inserted into the 7 in. "unload tube" coming out of the bin.

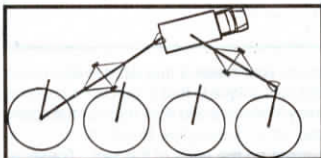
## Slick New Way To Unload Grain Bins

"It's faster, handier, and a lot less expensive than grain vacuums or hopper bottoms," says Circle King of its slick new way to unload round steel bins.

The only permanent part of the system is a 7 in. dia. unload tube which stays in the bin. Everything else — including a lightweight powerhead with flighting, and a bin sweep assembly — moves from bin to bin to minimize cost.

Retail cost to equip the first bin is right at \$2,700 (Canadian dollars). Because you need only one powerhead and bin sweep regardless of how many bins you have, the cost for each additional bin is only about \$370.

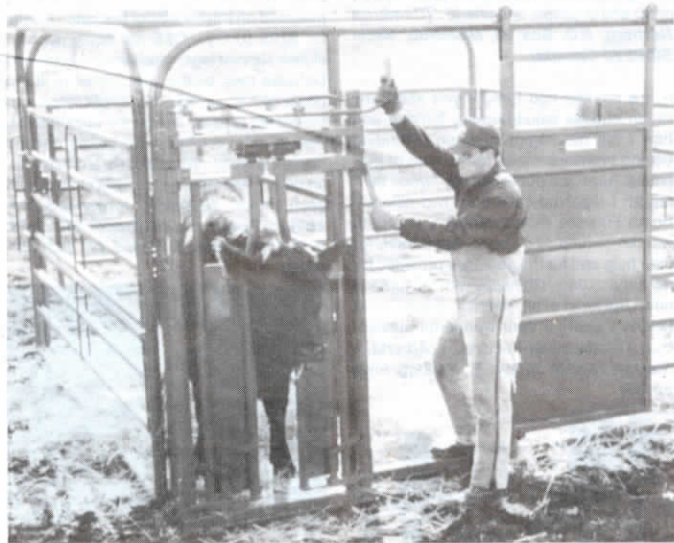
The hydraulically-operated powerhead weighs about 60 lbs. and is easily hand-carried from bin to bin by one person. It accommodates two valves — one to control speed of the powerhead auger and one to



Drawing illustrates how a full bin of grain can be transferred from any one bin in a line of four to another, using two grain augers and a grain truck.

control speed of the bin sweep auger. Hydraulic power (a minimum of 10 gal. per min at 1200 psi) can be supplied by truck, tractor or an electric-over hydraulic pump.

The permanently-installed 7 in. unload tube is installed on the floor of the bin, rising to 12 in. above the floor at the bin wall. This slight incline allows the tube to be high enough outside of the bin to accommodate a rubber flex hopper attached to your por-



## "Go Anywhere" Calving Pen

"It's a great aid to the 'calving process' when problems occur during birth, or the newborn calf needs nursing assistance," says Powder River of its new portable 10 by 10 ft. "go anywhere" calving pen.

Its adjustable, self-catch headgate has an exclusive safety feature: Should the animal being attended lie down, a quick foot-trip release near the bottom of each stanchion widens the gate opening for immediate relief.

The self-catch headgate holds the cow or heifer secure while she's crowded by the 7 ft. (2 piece) crowd gate over to the 10 ft. (2 piece) bow gate. The 2-piece gates are

hinged so the bottom or top sections can be swung together, or independently.

A 30-in. wide roll gate (on rancher's right) provides easy access to the versatile new calving pen. It's made of 1.5 in. 14 gauge square tubing. Sells for \$1,975 in Canada, \$1,750 in the U.S.

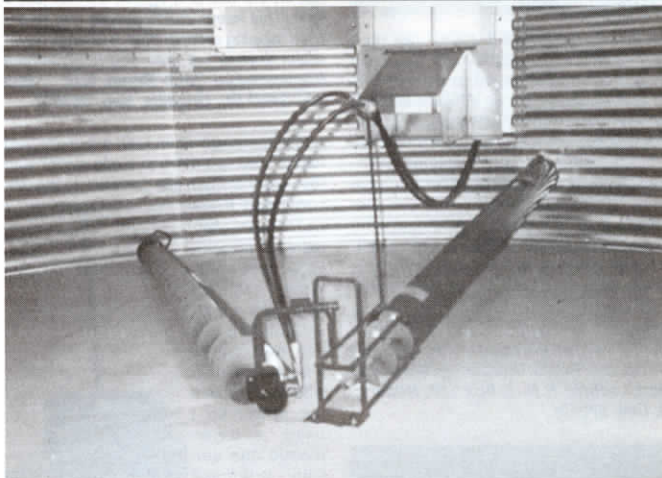
Contact: FARM SHOW Followup, Lovco Sales, 52159 Range Road 214, Sherwood Park, Alta., Canada T8E 1A1 (ph 403 922-2996).

In the U.S., contact: FARM SHOW Followup, Powder River Livestock Handling Equipment, P.O. Box 50758, Provo, Utah 84605 (ph 800 453-5318).

## Editor's Note

The stories on these two pages were written by Harold Johnson, Publisher Emeritus of FARM SHOW Magazine. Harold recently covered the Northlands Farm & Ranch Show in Edmonton, Alberta, Canada. He reports that the Northlands show was well-attended, with more than 35,000 visitors and better than 300 exhibits.

Since entering "semi-retirement" six months ago Harold has spent a lot of time traveling, including a trip to the RAI farm show in Amsterdam and a month-long journey to New Zealand, Australia, and China.



On right is the permanently installed 7 in. dia. "unload tube". On left is the lightweight sweep which is moved from bin to bin. It attaches to a center pivot point. Travels counter-clockwise and works assisted in sweeping the bin clean.

table grain auger.

Because of its low incline, the 7 in. dia. tube can move cereal grains at the rate of 45 bu. per min., enough to keep up with an 8 in. truck-loading auger.

After all run-off is taken out of the bin, the portable bin sweep auger is then hand-carried through the bin door and inserted on a pivot point in the center of the bin. The sweep begins on the right hand side of the unload tube and moves grain into the unload tube without assistance as it self-propels itself around the bin, staying on the floor at all times.

The bin sweep has "graduated" flighting, starting with 5-3/8 dia. at the bin wall and graduating to 7 in. dia. at the center of the bin. This allows the sweep to operate efficiently at slow rpm, and virtually eliminates dust problems, the manufacturer points out.

A control valve on the powerhead allows the operator to independently regulate speed of the bin sweep and the unload auger.

Contact: FARM SHOW Followup, Arman Construction Ltd., Box 428, Vulcan, Alb., Canada T0L 2B0 (ph 403 485-6968).

## New Freeze-Proof Livestock Waterer

How about this — a new-style electric livestock waterer that keeps drinking water ice-free at 40 degrees below zero for an operating cost of only \$5 per week!

"That's one-third the cost of our closest competitor," says Rosebud Creek, manufacturer of this first-of-its kind freeze-proof outdoors waterer for cattle, hogs, sheep and horses.

The key feature is a vacuum-sealed heat exchange unit charged with a special heat transfer oil. It, in conjunction with special reflective insulation, retains heat with up to 97% efficiency, the manufacturer points out.

"The waterer itself is a 24 in. dia. rubber drinking tub which sets inside a frame made from galvanized culvert material. The round design adds structural strength, minimizes injuries to livestock and reduces risk of damage to the waterer. None of its components are in water, and there is no float to freeze up, making it virtually trouble-free."

Rated at 150-head capacity, the new-style waterer sells for \$525 (Canadian). The



sealed oil exchanger is available in 150 or 300 watt capacity. A build-it-yourself walk-up ramp allows sheep and hogs to drink out of the tub. It's secured to the frame with two snaps which unfasten to free the tub for occasional cleaning.

Contact: FARM SHOW Followup, Robin and Doug Christie, 3 Bar B, Agricultural Distributors, RR 1, Crossfield, Alb., T0M 0S0 (ph 403 946-4020).