



### Articulated Loader Built For \$1,500

"It works great for snow removal as well as for lifting engines or car bodies in my shop. I built it for only \$1,500," says Rick Clow, Princeton, Minn., who used scrap parts to build an articulated loader tractor equipped with a self-leveling bucket and an automatic transmission that lets him shift without clutching.

The tractor is powered by a 400 cu. in., 200 hp small block engine borrowed from a 1973 Chevrolet car. There are two transmissions - a Chevrolet power glide automatic 2-speed transmission and a transmission taken from a junked-out 1950's Massey Harris 27 combine. The Massey transmission has high and low range and serves as a transfer case. "I use high range to dig snow and low range to work around the shop," says Clow. "I use a hand shift lever equipped with a thumb throttle next to the seat to change gears and to speed up or slow down."

Clow borrowed the axles from a full-size 1969 Ford car. "I should have used axles from a 3/4-ton pickup so the tractor would be geared lower," notes Clow.

He used 4 by 4-in. sq. steel tubing from an International chisel plow to build the front part of the tractor frame, and 6-in.

channel iron from a Deere swather to build the rear part of the frame. The tractor bends in the middle by means of a 4 by 12-in. hydraulic steering cylinder. The lower swivel ball link is from an International 2 plus 2 tractor, and the upper link is the top link of a 3-pt. hitch. "The ball ends allow the tractor to articulate and oscillate," says Clow.

The boom is controlled with a pair of 2 1/2 by 28-in. single acting hydraulic cylinders and the bucket by a 4 by 12 in. hydraulic cylinder. Clow uses foot pedals to control both the loader bucket and boom. He welded a long-wearing grader blade to the front cutting edge of the 70-in. wide bucket which has a 7-ft. lifting height.

Clow equipped the tractor with 9.00 by 16 tires from a pair of self-propelled swathers. The seat came from a boat, the tilt steering wheel from a 1973 car, the gas tank from a Deere swather, and the power brakes from a Volkswagen Rabbit.

Contact: FARM SHOW Followup, Richard Clow, Box 145, Princeton, Minn. 55371 (ph 612 389-5284).

Some of the best new products we hear about are "made it myself" innovations born in farmers' workshops. If you've got a new invention or favorite gadget you're proud of, we'd like to hear about it. Send along a photo or two, and a description of what it is and how it works. Is it being manufactured commercially? If so, where can interested farmers buy it? Are you looking for manufacturers, dealers or distributors? (Send to: FARM SHOW, Box 1029, Lakeville, MN 55044).

*Harold M. Johnson, Editorial Director*



### Front-End Loader "Hog Mover"

A homebuilt crate mounted on a front end loader lets LeRoy Kooiker, Rock Rapids, Iowa, lift nursery pigs up to the second floor of his nursery barn or over a fence into a pasture using A-frame hog houses.

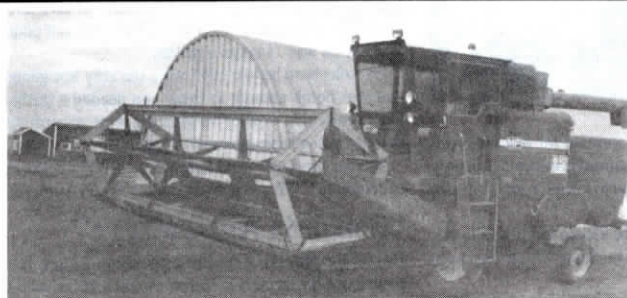
The crate, 4 ft. wide, 7 ft. long and 3 ft. high, holds three sows or 25 40-lb. pigs. "The loader lets us lift the crate much higher than we could with a 3-pt. mounted crate," says Kooiker, who has used the crate for the past eight years. "We needed it to lift pigs up to the second floor of our barn, which we converted for hog production. But it's so handy for lifting over fences that we'd use it even if we didn't have a second floor nursery."

The front side of the crate is equipped with two 18-in. wide wood panels which

raise up to move pigs in and out. The floor is made from wood, the sides are made from light gauge 1-in. tubing, and the frame is made from 2 by 3-in. by 1/8-in. tubing.

Kooiker built a special bracket on the crate that adapts to his Westendorf Quick-Tach loader, allowing him to mount the crate without getting out of the tractor cab. The loader fits into two holes in the bracket. A stationary pin in the top hole is lifted up to release the bracket from the loader.

For more information, send a self-addressed stamped envelope to: FARM SHOW Followup, LeRoy Kooiker, Rt. 2, Box 129, Rock Rapids, Iowa 51246 (ph 712 472-3094).



### Swather Table Mounts On Combine

Terry Boehm, Allan, Sask., salvages short wheat crops by mounting a used 18-ft. Massey Ferguson self-propelled swather table on his Massey Ferguson 510 Western Special combine.

The net result is a quick attach, straight cut, canvas-type header that does a better job picking up down swaths than regular pickup or reel-type headers.

"We normally windrow or swath our wheat, then pick it up later with a combine equipped with a pickup head. However, it's difficult to pick up a short crop that's been swathed or windrowed. Straight cutting with a conventional reel-type header is one answer, but in a short crop it pushes grain ahead of the cutterbar where it falls to the ground, rather than sweeping it across the cutterbar and onto the table."

Boehm solved the problem by making

a quick attach mounting bracket for the self-propelled swather table on the combine. He then added a canvas conveyor in the center opening to throw the crop into the combine's feederhouse. The swather drive ran in the opposite direction as the combine drive so Boehm had to rework the driveshaft on the swather table to get it to run in the right direction.

"Altogether we spent about \$12,000," notes Boehm. "Some manufacturers now offer a straight cutting table and canvas for the center opening. However, they're expensive and hydraulic-driven. Mechanical drive eliminates any heating problems."

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