



Three-part boom telescopes out 22 ft. on threaded redi-bolt.

Hand-Cranked Pickup Crane Requires No Hydraulics

Chad Burnett of Girard, Ill., needed a way to lift heavy objects and equipment into the bed of his pickup but he couldn't justify the cost of a commercial unit and he didn't want to equip the pickup with hydraulics.

So he designed a large lift crane that's totally hand-cranked. It's now an important part of his everyday job at a local welding shop.

The 3-part boom telescopes out 22 ft. It telescopes out on a 3/4-in. dia. threaded redi-bolt that's turned by a hand crank at the base of the boom.

The boom is raised and lowered by a 4-ton capacity hand-pumped jack. The boom can lift as much as 2,000 lbs.

Burnett says it's a bit more work to operate than if it was hydraulic powered but he likes the convenience of not depending on engine-powered hydraulics.

The base of the boom is made from pieces of heavy angle iron with a 6-in. dia. heavy pipe at center that bolts to the truck frame. There's a bearing at the top of the base. The boom fits down inside the base. The large bearing makes it easy to rotate a heavy load. A flared cover made out of a rubber inner tube keeps moisture out of the base.

Contact: FARM SHOW Followup, Chad Burnett, Bruce's Welding, 302 S. Third, Girard, Ill. 62640 (ph 217 627-2241).



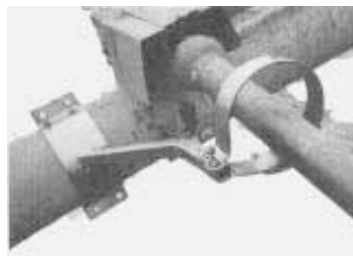
Boom is raised or lowered by a 4-ton capacity hand jack. It can lift as much as 2,000 lbs.

"Safety Retainer" Holds Shaft If PTO Breaks Loose

"It's not a common accident, but I did lose a friend who was grinding feed when the pto shaft became dislodged from the gearbox and flew up and hit him," says Raymond Werner who invented a "safety retainer" to restrain pto shafts if they come loose.

The Winfield, Iowa, farmer's patent-pending invention consists of a steel retainer ring that fits around the pto shaft. It's fitted with a hinge and pin so it can be quickly removed. The ring has an arm attached to a mounting bracket that bolts to the implement.

Like the retainer ring, brackets come in various sizes to accommodate a variety of pto driven implements. They include feed wagons, grain augers, balers, mowers, grain vacuums, grinders, stalk shredders, conveyors and tiling machines.



Steel retainer ring fits around pto shaft.

Price was unavailable at press time. Werner's looking for distributors.

Contact: FARM SHOW Followup, Raymond W. Werner, P.O. Box 174, Winfield, Iowa 52659 (ph 319 257-3342).



Bin holds up to 2 tons of feed. It has a truck-type endgate to control flow of feed.

Bulk Feed Bin Made From 1,000-Gal. Gas Tank

Discarded underground gas tanks can be converted into low-cost bulk feed bins, says Doug Attoe, Lodi, Wis., who used a 1,000-gal. gas tank to make a bin that holds up to two tons of feed.

"I use it to fill 5-gal. buckets which I dump into bunks for my lambs. I got the tank free from a neighbor so it cost very little to set up," says Attoe.

The tank is supported by four 3-in. angle iron legs welded to a rectangular base also made out of angle iron that mounts at a 45 degree angle, with the bottom end about 3 ft. off the ground. Feed gravity flows out through a 10-in. sq. opening fitted with a chute. A truck-type endgate controls the flow of grain. The tank is filled by a grinder-mixer auger through a 1 by 1 1/2-ft. opening at the top of the tank.

"It isn't fancy but it does the job," says Attoe. "I use it to feed about 100 lambs. It would be easy to make a hopper at the bottom of the tank so that feed could be auto-

matically augered away. All I bought were two 20-ft. lengths of 3-in. angle iron for the legs and one 20-ft. length of 1-in. angle iron for the base and support. I also bought the slide gate.

"I got several of these tanks from neighbors who dug them out of the ground years ago. Before cutting the tank I run exhaust fumes into the tank from a car. The exhaust consists entirely of carbon monoxide which ensures that there's no oxygen left inside the tank to ignite whatever gas fumes might be left. I run the exhaust for about two hours or so before cutting.

"The tank doesn't empty out completely but leaves about a 5-gal. bucket of feed on each side of the bottom opening. I reach in with my arm to sweep the feed out. If the opening was a bit wider the tank would empty out completely."

Contact: FARM SHOW Followup, Doug Attoe, N2085 Hwy. 113, Lodi, Wis. 53555 (ph 608 592-5513).

"Hot Pepper Wax" Controls Gophers, Moles, Birds, Insects And Other Pests

Hot Pepper Wax is the latest new "natural" way to chase off pest animals, birds and insects.

"They hate it. It's just too hot to handle," says a representative of Hot Pepper Wax about the company's pest chasing concoctions that contain capsaicin, an extract from cayenne peppers. The pepper is mixed with "food grade" paraffin wax and other ingredients. It coats plants with a waterproof barrier that stays in place longer than most pest sprays.

There are different mixtures for different pests.

"Mole & Gopher Chaser" contains food-grade castor oil and is applied to a mound or tunnels with a special hose-end sprayer. The sprayer is set to apply the product with a mixture of water at 1:64. Depending on soil type and weather conditions, it'll provide control for two to four weeks. Comes in a 40-oz. container that covers 12,500 sq. ft. and sells for \$24.95.

Bird Repellent mixes the pepper extract with a food-grade synthetic ingredient that occurs naturally in Concord grapes. It's applied to ripening fruit in a recommended 1:16 mixture. Comes in a 16-oz. concentrate bottle and sells for \$19.95. A special mixture for geese comes in a 32-oz. bottle and sells for \$29.95.



"Hot Pepper Wax" gopher repellent.

The company's insect mixtures come in a variety of containers and formulas.

Contact: FARM SHOW Followup, Hot Pepper Wax Inc., 305 Third St., Greenville, Pa. 16152 (ph 888 667-3785 or 724 646-2300; Website: www.hotpepperwax.com).