

# Made It Myself

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## Rotating "Disc Plow" Mounts On Front Of Garden Tractor

"It works better than any garden cultivator on the market," says Johnny Reyenga, Prescott, Ark., who mounted a 16-in. dia. rotating disc on front of his garden tractor. Four 4-in. long, 1 1/2-in. wide angle iron "blades" bolt to the outside edges of the horizontally-mounted disc, cutting through weeds and tilling up soil at the same time.

The disc mounts at the bottom of a vertical steel shaft that's held out ahead of the tractor by a steel framework. The shaft is chain-driven off a small transmission that's belt-driven off a pulley on the engine crankshaft.

"I use it like a roto-tiller to take out weeds between rows and also to make perfect seedbeds for planting," says Reyenga, who uses the rotary "disc plow" on his 1/2-acre vegetable garden. "It works better than conventional tillers because it won't plug up with heavy vegetation. The leading edge of the angle iron blades are sharpened to cut through weeds. It tills the soil without turning it over so it doesn't rob soil moisture and works whether I go forward or backward, fast or slow.

"I normally run the tractor at high idle. By speeding up the engine I can increase the speed at which the disc rotates. A lever on the transmission lets me reverse rotation of the disc to throw dirt toward the middle of the row. I can change the depth and angle of the disc by adjusting



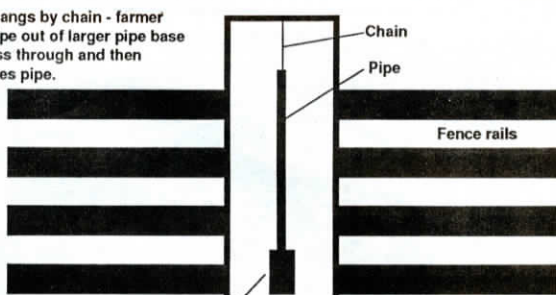
the position of four bolts on the disc mounting plate.

"I can bolt several different types and sizes of cutting attachments onto the disc, depending on how much dirt I want to move. If I don't want to move a lot of dirt, I can cut weeds at ground level and leave them in place as mulch.

"I raise or lower the disc with a lever connected to a length of angle iron that's bolted onto the disc mounting framework. The disc rotates independently of the tractor transmission so I can back up and the disc will continue to rotate in the same direction."

Contact: FARM SHOW Followup, Johnny Reyenga, Rt. 6, Box 140, Prescott, Ark. 71857 (ph 501 887-3678).

Pipe hangs by chain - farmer lifts pipe out of larger pipe base to pass through and then replaces pipe.



Pipe fits into larger pipe set in ground

## Nifty Pass-Through Gate

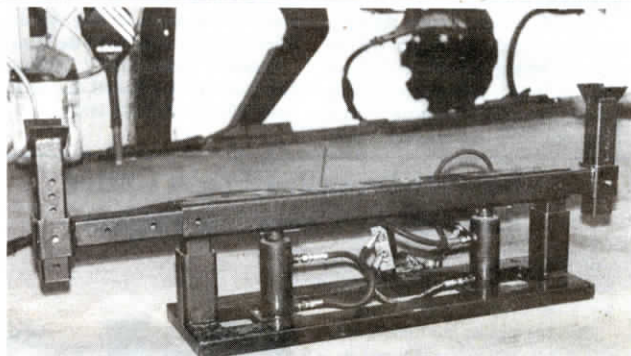
French farmer D'Alain Benoit came up with this simple idea for a pass-through gate that lets people walk through but stops livestock.

A gap big enough for a person to walk through is left in the fence with an arch built overhead. A steel pipe angles from the arch by a short length of chain. The bottom of the pipe fits into a short length

of larger diameter pipe that's set into the ground.

To pass through, you just lift the pipe out of the short pipe in the ground, hold it to the side as you walk through, and then replace it into the ground pipe.

Contact: FARM SHOW Followup, D'Alain Benoit, 89220 Bléneau, France. (L'Éleveur Magazine)



## Mobile Bulk Feed Tank

A cut-down fertilizer truck tank makes a handy bulk feed tank for William Wound, Sanborn, Iowa, to use for feeding hogs.

Wound cut the steel tank at an angle and then mounted it at an angle on a 2-wheel trailer so that the top opening is horizontal to the ground. The height of the open end of the tank is low enough so the unit fits under grinder augers and into the granary driveway for filling. A hydraulic-driven auger that runs from the bottom of the tank to a chute at the open end brings feed up to load out into feeders.

Wound says the mobile feed tank is easy to back up for maneuvering next to hog feeders. He pulls it with a skid steer loader.



Contact: FARM SHOW Followup, William W. Wound, Rt. 1, Box 28, Sanborn, Iowa 51248 (ph 712 729-5389).

## "Push Or Pull" Dump Cart Hauls, Spreads Heavy Loads

"It's much easier to use than a wheelbarrow because I don't have to lift any weight when moving it around. I just push or pull it," says Richard Guy, Bethune, Colo., about the 4-wheel dump cart he built to haul and spread heavy loads.

The 2-ft. wide cart is made from sheet metal from an old billboard sign and is equipped with big 2 1/2-ft. dia. steel wheels on back and 10-in. dia. solid rubber wheels in front. It's supported by a steel frame that's hinged just above the front wheels. To dump a load, Guy lifts up on the handles.

"It works like a dump truck," says Guy, who often uses the cart to handle wet

concrete. "I can dump out just the amount of concrete I need by adjusting the position of a spring-loaded, notched lever mounted on one side of the cart. The lever keeps the cart from tipping beyond a certain angle. The big wheels carry just over half the load so I don't have to lift a lot of weight to dump the cart, no matter how big a load I'm carrying. If the load is too big for one person to haul, one person can push the cart and another one can pull it by using a rope tied to the front axle."

Contact: FARM SHOW Followup, Richard Guy, Bethune, Colo. 80805 (ph 719 346-7451).

## Special-Built Tractor Jack

Swapping rear wheels or mounting duals was a big chore for Mark Hartop of Bedford, England, until he came up with this one-of-a-kind "axle lifter" tractor jack that raises either the front or rear axle using the tractor's own hydraulic power.

Width and height of lift arms adjust easily to adapt to any tractor or other piece of equipment you need to lift. Made primarily out of heavy-walled square tubing, you just slide it under the axle, plug in the hydraulic hoses, and lift.

Capacity of the lifter varies with how wide the arms are spread. At the innermost position, it'll lift 25 tons. At the outermost position, only about 3 tons.

Hartop designed the hydraulics for safety. A second spool valve is fitted in line with the one on the tractor. The mechanical second valve must be oper-

ated before oil will flow and Hartop also fitted a non-return check valve in the circuit to prevent oil flowing backwards should a hose ever burst. It also stops the two hydraulic lift cylinders from slipping back down if tractor hydraulics are weak.

Hartop used 8-in. cylinders because that's what he had on hand but he says longer rams might work better. He plans to fit the lifter with retractable caster wheels so the lifter will be easy to move around on a workshop floor. The unit can be built to any size, depending on what equipment you plan to lift.

Contact: FARM SHOW Followup, Mark Hartop, Little Farm, Bolnhurst, Bedford, England (ph 0234 376471). (Reprinted from Practical Farm Ideas, P.O. Box 1, Whitland, Dyfed, SA34 0HZ U.K.)

