

Albert Schollenberger, Egg Harbor, N.J.: "When replacing bearings, I put the new bearing in the freezer for 4 hrs. before attempting to install it. The bearing shrinks enough that it falls into place without requiring a great deal of pressure."

David Bender, Aylmer, Ont.: "When welding a piece of rusty equipment, it's sometimes a problem getting a good ground with the ground cable clamp. Here's a remedy. First clamp a common vise-grip wrench on the rusty spot, and then clamp the cable onto the vise-grip. Works every time."

Bill Reeks, Cromwell, Ky.: "I made a nifty rolling shop chair out of a small kindergarten chair fitted with large caster wheels. It rolls easily wherever I need it."



"To make it easier to adjust a floor jack, I welded a large washer to the adjustment screw that you normally turn with the handle. It's a lot easier and quicker to use than trying to fit the handle into the slot."



"I took several pieces of short chain and made one longer chain by putting a bolt through the end links of each piece. Works great as long as you use it for light work."



John, proplock@federatedwildblue.com: "In regard to the Florida gentleman in a recent issue who was having trouble with ethanol fuel in small engines, go to your nearest airport and get aircraft fuel, which is 100 percent ethanol-free. In my opinion, the ethanol content cuts oil film in 2-cycle oil and fuel mixes, resulting in lubrication-starved engines."



Paul Tierney, Bloomington, Minn.: To make it easier to make tough cuts with his bolt cutters, Paul attached a round piece of plate steel to one handle so he can place it flat on the ground and apply force to the upper handle. He says the idea comes in handy for cutting chunks of metal that would be difficult to cut otherwise. Applying force from above multiplies the cutting force.

Tim Hays, Oreana, Ill.: Tim believes in making his shop tools portable. Portable tools can be rolled to the job, and they also make



it easier to keep the shop clean. That's why he mounted his chop saw on a lightweight rolling wood table. He used 2 by 4's and 2 by 6's to build it, with caster wheels at the bottom. The table top is plywood and there's a shelf underneath to hold scraps.



Tim also mounted a metal break and roller on top of a rolling warehouse truck that he bought at a factory closeout auction. The truck is heavy enough to carry the tools easily and handle the pressure applied. One metal break will bend 36-in. metal, limited to a 1-in. flange. On the opposite side is a box and

FARM SHOW®

Money-Saving Repairs & Maintenance Shortcuts

Have you come up with any unusual money-saving repair methods for fixing farm equipment? What maintenance shortcuts have you found? Have you had any equipment recalled by the factory? Name a particularly tough mechanical problem you've had with a piece of equipment and how you solved it.

These are a few of the questions we asked randomly selected FARM SHOW readers. If you have a repair tip, maintenance shortcut, or other mechanical experience you'd like to share, send details to: FARM SHOW, P.O. Box 1029, Lakeville, Minn. 55044 or email us at: editor@farmshow.com.

Mark Newhall, Editor

pan break that makes 24-in. breaks, making 4-sided pans 4 to 5 in. deep. At the end of the cart he mounted a sheet metal roller. It lets him make cylinders about the size of a rain downspout.

Eric Petrevich, Glen Gardner, N.J.: "I came up with a simple, easy and cheap way to mount wire spools to keep them out of the



way but within easy reach. The rack only requires a few 2 by 4's, some electrical conduit, and some baling wire. The best part is that you can set it up in a few minutes. I just wire 2 by 4's to open studs and crossbars in my shop, and wire the ends of the 2 by 4's to the studs up above. I drill holes through the 2 by 4's and slip in pieces of electrical conduit. The reels go on those. Works great for all kinds of wire, rope or chain, and you can pull lengths off the reels easily as needed."

Kleen Chain (816-686-5348; sales@kleenchain.com; www.kleenchain.com): Kleen Chain, from the manufacturers of the popular Magna Guard magnets for oil filters, is a new way to lube chains. With spray-on lubes you can't control how much product is applied and you can get messy overspray. The new Kleen Chain is a synthetic lube designed specifically for chains and is applied with a glide-on applicator. The gel formula is thick enough to stay on, even at high rpm's but not so sticky it attracts dirt. Can be used on any kind of ag machinery, ATV's, motorcycles, bicycles, and even hand tools. It's available in a 4-oz. bottle from dealers or at www.kleenchain.com for about \$9.95. A larger ag size will soon be available."



Miles Parkkonen, Negaunee, Mich.: "A while back someone wrote about weld-

ing on a compressor tank. I just want to remind people not to weld on any tank that is pressurized. One of my friends got killed when he attempted to do it. The tank was like a cylinder in an engine, at the top of its compression stroke. Oil can leak into the compressor from the tank. As soon as you strike an arc, it's like the spark plug firing and the tank will explode."

Elroy N. Lindaas, Mayville, N. Dak.: "This handy hoist, built from a discarded swing set, provides me with a safe and easy way to clean the deck and sharpen the blades on my riding mower. Once the riding mower



is on the hoist I can pull up a seat on rollers and work from a sitting position.

"First I shortened the swing's overhead horizontal pipe to about 6 ft. wide. Then I slipped a heavier 2-in. dia. galvanized pipe over the pipe to reinforce it, and used 1/4-in. sheet metal screws to secure the two pipes. I used no. 60 roller chain to secure a 1 1/2-in. dia. pipe below that, and mounted an electric winch on it. I use a remote control to operate the winch, which I bought at Harbor Freight for about \$60. It has better than a 400-lb. rating. Small wheels on the legs make the swing easy to move around."

Ken Greenia, St. Clair, Mich.: "To remove a stud that has broken off flush, I lay a flat washer over the broken stud and weld the two together. Then I weld a nut to the washer and remove the stud by working it back and forth. On a really tough stud, first I drill a hole in the middle of the stud and then jam in a small welding rod so I can heat the inside of the stud, which causes it to shrink and loosens it up. Then I weld the washer and stud together and weld a nut to the washer. I'm a retired Deere dealer, and over the years our shop mechanics often called on me to



To convert 5,600-bu. grain bin into a storage shed, the Gogerty's cut a large opening in bin and then installed a plywood door.

Grain Bin Storage Shed

Jason Gogerty and his brother Jordan used a cutting torch to turn an unused 5,600-bu. grain bin into a storage shed. They keep their small tractor, garden equipment, tools and supplies in it.

They cut a large opening in the bin and used 6 by 6's to build a wooden frame that's screwed to some angle iron for reinforcement around the opening. The angle iron is embedded in cement at the bin's floor. They used 2 by 4's to frame two big 5 by 8-ft. plywood doors and mounted three big strap hinges on each door.

Jason's father Tim plans to use the grain bin shed in his hay rebaling business, in which he rebales round and big square bales into small square bales. He has been using a tractor inside a hoop shed to operate the baler and unroller. In the future he'll install a stationary engine, removed from a combine, inside the bin which will free up the tractor.

Contact: FARM SHOW Followup, Jason Gogerty, 33094 K Ave., Hubbard, Iowa 50122 (ph 641 487-7825).