



vice can be a challenge because it's hard to hold them in place while turning the handle. After 30 years of working with pto's and drivelines, we've developed a 'C' frame press that uses a special hydraulic jack and custom tooling to press bearing caps out of yokes; press bearing caps out of yokes to save the cross and bearing set; install a new cross and bearing kit; and hold pto halves so the safety shield can be removed.

"In addition, we designed a table with the 'C' frame press mounted to it, along with tooling to hold and align the pto drivelines while installing new parts. A back panel stores the tooling for easy access. The tooling works with American and Metric ag drivelines.

"We're selling it through New Vienna Metal Works, Inc., a service center with a large inventory of American and metric pto yokes, cross kits, and shafting from Neapco, Weasler, G&G and others (ph 563 921-3445; www.NVMetalworks.com)."



Meredith Knox, 1124 Henleaze Ave., Moose Jaw, Sask. Canada (ph 306 692-8119; mcknox@shaw.ca): "Mice chewed so many holes in my canvas grain aeration duct that I discarded it and replaced it with a tractor inner tube. The 20.8/38 tube fit over the fan's 9 by 14-in. square outlet with a little overlap, but other tube sizes could be

adapted to round outlets. When I store the duct away for the winter, it's nice to know that mice won't touch a rubber inner tube."

Bill Baer, Westville, Okla.: "A FARM SHOW reader said he uses starting fluid to wash grease off hands and parts. As a diesel mechanic, I did the same thing for a long time – until enough fluid soaked through my skin to cause liver and kidney failure. I spent two weeks in the hospital and it took a year to recover. I wouldn't recommend doing this."

Co-Leash Corp., Tampa, Fla. (ph 888 838-2169; www.krypta-glow.com): Kryptaglow is a glow-in-the-dark fluorescent paint that shines bright for 24 hours after being exposed to light for just 15 min. It can be used on walls, floors, metals, or on just about any properly prepared surface. During the day the paint is relatively clear, but by applying multiple coats and a white base paint, it'll shine bright at night.

Ranchers can use the paint on fences so cattle don't bang into them at night when they're running. It also works great on slow moving vehicles, to light up bumpers and tailgates on pickups, or on tractor wheels as a theft preventative.

Comes only in 1-gal. cans. Sells for \$350 plus S&H.



Tim Patterson, Gold Plug LLC, 224 New Ventures Dr., STE9, Bozeman, Mont. 59718 (ph 406 600-3103; goldplug@gmail.com): He sells a new line of magnetic dipsticks to compliment the company's magnetic drain plug. The dipsticks are precision CNC machined from billet aluminum. The no. 3003 dipstick is designed to replace and protect many Honda and Briggs & Stratton powered generators including the GX110, GX120, GX140, GX160, and GX200 models. Other lengths are available to cover almost all portable generators, and many other engines.



Raymond Bricker needed a way to take some wood pallets apart so he had this hooked bar made.

Raymond Bricker (raymondbricker@hotmail.com): "I had the opportunity to pick up some wood pallets measuring 10, 12 and 25 ft. long. Each size had three good 4 by 4's. I needed a way to take the skids apart so I had this hooked bar made. It really saves



time. I can take a 12-ft. skid apart in only 10 min. I paid \$175, and most of that was to have the bar tempered. So far I've taken apart twentyone 25-ft. long skids, sixty 12-footers, and seventy 10-footers. I'll use the wood to build a machine shed."



When Rusty McCombs and his father, Charlie, built their new equipment shop they built the lift system first and then started building the shop around it.

They're Building A Shop Around Home-Built Lift System

As Rusty McCombs and his father, Charlie, were planning their new equipment shop last fall, they knew the shop would need to have a heavy lifting system.

"We run farming, ranching, logging, and sawmill operations, and the need for equipment maintenance is constant," says Rusty of Hueytown, Ala.

Their old 32 by 40-ft. shop had a 2-post vehicle lift and a ceiling-mounted, 20-ft. long single I-beam equipped with 2 manual chain hoists. "We liked using the single I-beam, but it had limitations when creative lifting problems arose," says Rusty.

So when they decided to build a new shop, they built the lift system first and then started building the shop around it. "We plan to build the shop with a second floor storage area, and if we had put the building up first there wouldn't have been enough headroom to fit the I-beams," says Rusty.

The primary lift in the new 50-ft. sq. shop is a parallel 22-ft. H-beam system equipped with a 16-ft. long perpendicular I-beam carriage. Each main 22-ft. long beam carries 2 manual chain hoists, while the carriage beam has a single manual chain hoist. "The entire overhead carriage places almost 400 sq. ft. of shop floor directly under a chain hoist," says Rusty.

Also new is a jib crane equipped with a 10-ft. long articulating arm and an electric-operated chain hoist. It will be located just

inside the shop's main door. "The working perimeter of the jib crane will allow the arm to lift objects outside the building," says Rusty.

They also plan to bring the 10,000-lb., 2-post vehicle lift from their old shop into the new one.

Charlie fabricated several jigs that enable the vehicle lift to raise everything from riding mowers to larger equipment trailers. "The vehicle lift will be positioned so it can work together with the overhead carriage to remove engines from vehicles," says Rusty.

He says many of the lift system components were salvage items, which saved a lot of money. "The main H beams and jib crane pole came from an industrial machine packing crate," says Rusty. "Old service station canopy poles support the H-beams. The I-beam carriage originally was used in a warehouse. The jib crane's articulating arm is off a demolished car wash. We found all 6 of the chain hoists in the barns and sheds of different friends."

The project was a lot of work, but the 2 men say it was worth it. "In the new shop, no one better be caught lifting heavy objects by hand," Charlie adds with a laugh.

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4-Speed Drill Press Works Great

The 1/4 hp, 4-speed drill press Justin Kelzer built consists of an antique Champion #97 post drill with a pulley drive attached. Kelzer added a motor and transmission and mounted everything to a wood frame.

"I wanted a drill press and had been looking for an old post drill I could modify," explains Kelzer. "The seller's wife had given him a posthole auger as a present."

The 1/4 hp motor was an old one Kelzer had found as he cleaned out his grandfather's farm. Though small, it provides plenty of power, thanks to the 4-speed transmission it drives.

"The transmission is from an old Gamble riding lawn mower," says Kelzer. "It lets me control the speed. I can drill as slow or fast as I want. Sometimes I use the neutral, and I've run it in reverse to back out of a hole."

To mount the transmission, Kelzer cut out the deck plate from the lawn mower with the transmission's shift pattern. He welded a piece of angle iron to the plate, mounted the transmission to it and bolted it all to the



Home-built 1/4 hp, 4-speed drill press consists of an antique Champion no. 97 post drill with a pulley drive attached to a motor and transmission.

wooden frame of the press.

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