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long frame up 8 ft. off the floor onto a "scaffold" that he built from angle iron and 6-in. I-beams. The trailer frame had cross members spaced 4 ft. apart. Bjorkman welded in lengths of angle iron to come up with cross members every 16 in. He made a plywood floor and placed it on top of the frame. He then mounted three 8-ft. long, 3-ft. deep steel shelf systems side by side on top of the floor to hold parts.

"We use it to store lots of heavy stuff such as cultivator shovels, sprayer pumps, etc.," says Bjorkman. "The extra cross members in the frame of the trailer house provide plenty of support for the floor. We made a rolling stairway for climbing up onto the floor. The rolling ladder also comes in handy for working on equipment."

Terry Huntley, Muscotah, Kan.: Terry's had good luck with a 14-in. abrasive cut-off saw he bought from Harbor Freight & Salvage. "It cost \$30 less than a Makita and, while it lacks the little lever the Makita has to hold the armature while changing wheels (it uses a separate, pointed metal dowel), it has a very handy extra feature that I like - a button that locks the trigger so you can hold the workpiece in both hands for detailed grinding. Lets you make tight joints so you don't have to 'bridge' with your welder. In addition to general shop work, it's ideal for making decorative iron-work."

Arthur Habke, Plumas, Manitoba: "After years of making repeated trips back to the shop to get just the right tool for whatever job I was doing, one day it dawned on me that it would be simpler to take all the



tools outside with me in one trip. However, all rolling toolchests on the market are designed only to be used on concrete. We decided to make one out of an old stove.

"We stripped the top off the stove as well as all electrical wiring and elements. Then I made a new top for the stove using sheet metal and 1-in. angle iron around the edges to keep parts or bolts from rolling off.

"Three caster wheels off a sprayer give the toolchest its mobility. A wheel mounts on either side and one at the rear. The rear wheel is a complete castering assembly welded to angle iron brackets that bolt to the stove. A handle attaches to the front of the caster wheel so I can pull the tool chest around the farmyard like a child's wagon.

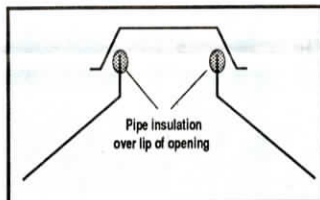
"One wire shelf was left in the oven to provide extra storage space."

J.E. Chizek, Cuba, Kan.: "One of the best mechanical ideas I ever had was reworking my 1954 Allis Chalmers WD 45 tractor to make it a more useful and comfortable tractor to operate. I fitted it with a Gleaner AR combine seat that I centered on the rear axle. I used a U-joint to center the steering wheel and installed a live hydraulic pump and Charlynn power steering. I plumbed in a shutoff valve on the 3-pt. hydraulics so I can use an extra set of remotes to operate row markers on a 15-ft. Crusbuster drill. I put the shutoff valve just before the lift cylinders. With the valve turned off, the 3 pt. doesn't work but fluid is diverted to run the row markers.

"I also replaced the original AC 1 1/8-in. lift cylinder on the 3-pt. hitch with 1 7/8-in. dia. combine header cylinders - cut off for an 8-in. stroke. This modification gave the tractor twice the lift capacity.

"I equipped the tractor with 18.4 by 7.6 combine tires filled with fluid. That old tractor really pulls now."

Orvis Byklum, Grygla, Minn.: "I came



up with an easy way to seal up the roof cap on my Westeel grain bin, which was leaking snow in on my grain. I used 3/4-in. pipe wrap foam insulation - the kind with the slit all the way down one side - and put it over the lip of the bin cap opening. It was easy to do and sealed the opening up tight."

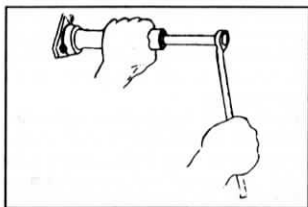
New-Style Bearing Puller

"We've had tremendous interest in it. There's nothing else on the market like it," says Colleen Lewis of Lewis Machine & Mfg., Dighton, Kan., about the nifty new bearing puller for pulling flange-type bearings off shafts that her husband Bruce invented.

Designed to pull bearings with a lip on them - flange, cam lock, eccentric, etc. - the new bearing puller fits seven different shaft sizes, including 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, and 1 1/4-in. dia.

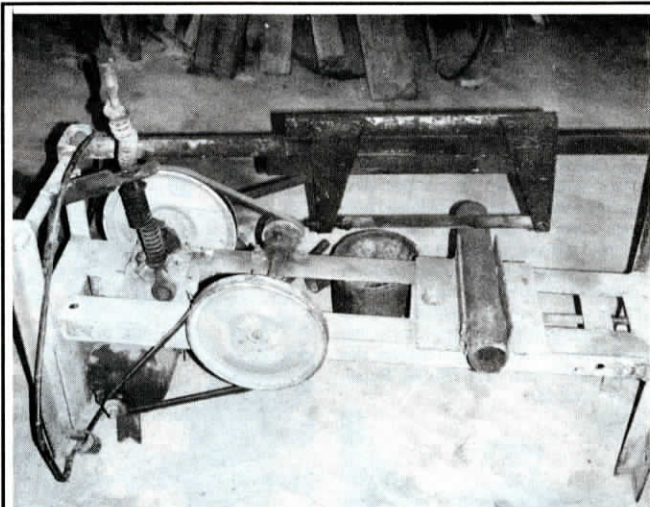
The main puller consists of two separate pieces that lock over the lip on the bearing. An outer sleeve slides over the locking pieces and a cap screws onto the threaded end of the main puller, locking the puller in place. Then a long bolt screws into the end of the puller, pushing against the end of the shaft to force the bearing off.

"It's steady and solid, unlike those three prong bearing pullers," notes Colleen Lewis, noting that the tool is made of



heavy-duty seamless steel tubing and measures 2 1/2 in. dia. and 7 1/2 in. long. Sells for \$97.95. They're also working on a model for larger bearing sizes.

Contact: FARM SHOW Followup, Lewis Machine & Mfg., P.O. Box 455, W. Hwy. 96, Dighton, Kan. 67839 (ph 800 536-5896 or 316 397-5896). In Canada, contact: FARM SHOW Followup, Ne-De Systems, Ltd., Box 153, Riverhurst, Sask. Canada S0H 3P0 (ph 306 353-2181).



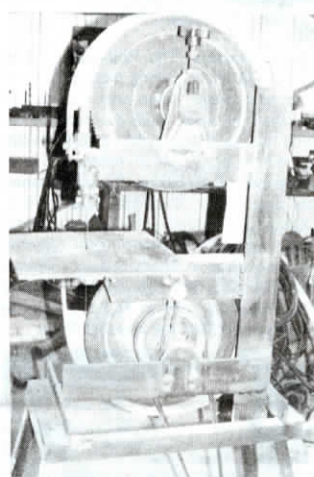
Home-Built Band Saw, Powered Hacksaw

"Works as good as any new band saw and cost almost nothing to build," says C.W. Wiseley, Winfield, Kan., who used a pair of old auto flywheels and an 80-in. long Sears band saw blade to make his own band saw.

The band saw blade fits around both flywheels, which are mounted on an angle iron frame. A 1/4 hp electric motor belt-drives the bottom flywheel which in turn belt-drives the top flywheel. The top flywheel is mounted on a radiator fan shaft salvaged from an antique tractor. The bottom flywheel is mounted on a water pump shaft off an old Ford car. Wiseley tightens the blade by turning a crank that raises the top flywheel (the crank was used to tighten the radiator fan belt on the tractor).

He cut a narrow strip of inner tube and glued it onto both flywheels to keep the blade from contacting the metal.

Wiseley also built his own powered hacksaw. It mounts on an angle iron frame and is belt-driven by a 1/4 hp electric motor. An eccentrically-mounted steel rod attached to a pulley drives a frame that holds a standard hacksaw blade. As the pulley turns, the rod pushes the blade back and forth across the object to be cut, which is



held in place by a vice.

A coil spring off an old car maintains downpressure on the steel bar.

Contact: FARM SHOW Followup, C.W. Wiseley, Rt. 2, Box 190, Winfield, Kan. 67156 (ph 316 221-4746).

Douglas Wenger, Manheim, Penn.: "Our Makita 3/4-in. hammer drill sure beats all other drills we've tried. It's built rugged and has plenty of power. We used it to anchor the legs of a feed bin, which required 1-in. holes in concrete. It did the job easily."

Q.J. Koth, Hayward, Calif.: "Here's an idea that saved us time and money. We were recently clearing brush and rocks with our John Deere 350 loader tractor when, unnoticed by the operator, the boom pin was lost in the dirt. We looked all over but couldn't find it so we decided to buy a new one. However, we found out they're no longer

made. So we obtained a metal detector and, after several hours searching in the field, we located the pin under 6 in. of soil."

Do you have a repair tip or maintenance shortcut you'd like to share? Have you made a shop tool that solves a tough mechanical problem? Do you have a shop problem you can't seem to solve?

If so, we'd like to hear from you. Write to: FARM SHOW, Repairs & Shortcuts, P.O. Box 1029, Lakeville, Minn. 55044.

Self-Sealing Screws & Bolts

New Zago self-sealing screws and bolts are manufactured with a groove under the head to hold a rubber O-ring which, when compressed, forms a complete seal yet still permits full metal-to-metal contact.

Zago makes a full range of fasteners with the built-in O-ring, which provides an airtight seal against both liquids and gases. Can be removed and reused without wrecking the seal.

Contact: FARM SHOW Followup,



Zago Mfg. Co., Inc., 240 M.L. King Blvd., Newark, N.J. 07102 (ph 201 643-6700; fax 201 643-5839).