

rust out of screw slots."

Wayne Hagen, Lake Alma, Sask.:

"I've designed and built 5 machines for farm shops and machine shop operators. Three of my machines have already been featured in FARM SHOW: a 4-ft. brake and shear combination, a punch and bar shear, and an iron roller. My latest two machines are a 12-in. deep throat punch and a hydraulic tubing bender.

"The deep throat punch has a simple design that's easy to build and would fit anyone's budget. I used 1 1/2 in. steel plate for the body and most other parts. For the hydraulic cylinder I used a 30-ton ram built for hydraulic presses. The punch has a foot



operated valve to give hands-free operation. It'll punch a 1-in. dia. hole in 3/8-in. steel plate or a 3/4-in. hole in 1/2-in. plate. It will accept conventional punches so many shapes and sizes can be used.

"The problem with most small tubing benders is that they're hand-operated and must be upright to work and in tight spaces

you can run out of room. They're also labor intensive. My bender is built to work horizontally with an electric-driven hydraulic unit. It takes various tubing dies from 1/2



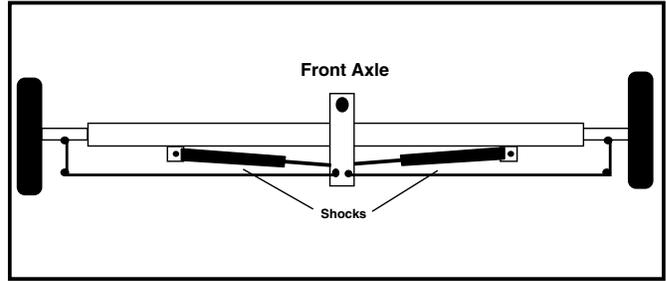
to 1 1/2-in. and I also made dies for square tubing and flat iron. It works great for bends on corral panels and other such jobs. It works best with standard wall round and square tubing up to 1 1/2-in. dia. and up to 2-in. flat iron.

"All my machines are built to work on an open center hydraulic system. They can all be connected to one central power unit. I can make detailed do-it-yourself plans available for any of them."

Michael Casson, Chandler, Ind.: "I used an old stainless steel laundry room sink,



an old cabinet door, and a 30-gal. steel barrel to make an inexpensive parts washer. The



Joe Staadegaard, Lynnville Farm Equipment, Rt. 1, Windham Centre, Ontario, Canada (ph 519 426-4416):

"We've had a lot of problems with front wheel shimmy on Massey Ferguson 165 and 175 tractors, usually during road travel. I solved the problem by installing two automotive shocks under the front axle, with one end of each shock attached to the front axle and the other to the center steering pivot. It will prevent shimmying and also prevents the tire rod ends and other steering parts from wearing out as fast as they do now.

"I've made this fix on several tractors over the last couple years and received nothing

but praise. I've even installed the shocks after rebuilding the steering system. We now have the parts available as a do-it-yourself kit with complete instructions. Sells for \$125 (Canadian). Dealer inquiries welcome.

"We also sell a carburetor kit for old Ferguson tractors, models 20-80 and 20-85 that have the English model 24T-2 carburetors. The kit has a throttle shaft, needle and seal, floats, gaskets, fiber washers and instructions. Since all parts are custom-made, they're not cheap but they'll let you get a little more life out of the old Fergies."

barrel contains cleaning fluid. A pump mounted on an angle iron frame bolted to the bottom of the sink pumps fluid through a hose up into the sink. The cabinet door is used as a lid and is hinged on back so I can flip it up or down. The angle iron frame keeps the sink centered over the barrel. The 2 by 3-ft. sink is big enough to wash engine heads and blocks. A screen in the sink drain filters out big pieces of dirt. Dirty fluid drains out the bottom of the sink and back into the barrel. I change the fluid twice a year.

"I got tired of having to open and close gates all the time on my horse corral so I came up with a simple solution. I left an



opening by the gate that's just wide enough so that I can turn sideways and slip through. My horses are too big to go through it."

Damon Reed, Cane Hill, Ark.: "Round bale feeders rust out. To solve the problem I cut 16-in. metal strips out of an old water tank and welded them around the bottom. Took just an hour and a half. The bale feeder is now much stronger."

Marvin Finger, Rozel, Kan.: "When I was working on a big engine and it came

time to put the piston and new ring back in the cylinder hole, I couldn't find a ring compressor that was big enough. I solved the problem by using two large worm screw hose clamps. I unscrewed them all the way out and then screwed the ends together to make one large clamp. I used the wooden handle on a 3-lb. hammer to carefully tap the piston down. The hose clamp was wide enough to compress two rings at a time."

Greg Evans, Concord, Va.: "We replaced the rubber pivot on the blade on our New Holland Haybine with a tie rod end from a truck. No more problems."

Jeff Roberts, Needville, Texas: "I mounted Deere 77 cotton stripper plant guides on my International 214 cotton picker units in order to make them 'self cleaning' in morningglory-infested fields. The Deere guides are much steeper than the IH guides so vines are more likely to slide off them whenever I back up at the end of the field.

"I use a magic marker to write down the oil filter number, oil capacity, drain plug size, or other maintenance information under the hood of my pickups, cars, and tractors. It eliminates having to crawl under them all the time at oil changing time in order to find out what tools or parts are needed. I write down the information in a convenient area that's free of grease, and oil."

Jeff Krehbiel, Hydro, Okla.: "We have an old-style Richardson sweep plow equipped with 5 and 5 1/2-ft. sweeps. The

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Heavy Duty Rolling Shop Crane

"My homemade shop crane makes it easy and safe to move heavy loads virtually anywhere inside my shop," says Daryl Scheer, Mapleton, Iowa.

The frame of the 4-wheeled crane was built from scrap steel. It's equipped with a 3-ton chain hoist that rolls back and forth on the top I-beam. Both ends of the crane mount on wheels so it can be rolled anywhere in the shop.

"It's one of the handiest tools in my shop," says Scheer. "I looked at commercial shop cranes and the more I looked, the more I decided that I could build my own. It's 16 ft. wide and 14 ft. high but can be raised or lowered by jacking it up and changing the position of a pin in each leg. I've even used it to pull cabs off tractors."

The sides are made from 4 by 7-in. steel tubing salvaged from the frames of old row crop cultivators and the top is made from



a 4 by 8-in. steel I-beam salvaged from an old bridge. He used 2 1/2-in. sq. steel tubing to make corner braces and 4-in. dia. pipe to make the legs.

Contact: FARM SHOW Followup, Daryl Scheer, 310 S. 8th St., Mapleton, Iowa 51034 (ph 712 882-1439).

Hammer Makes Nail-Starting Easy

A magnetized nail holding slot at the top of this new hammer makes it easy to start any nail even if only one hand is free. Simply fit the nail into the slot and drive it in.

The new hammer also features a triangular head that the manufacturer says is easier to use in corners and is better balanced.

Comes with a choice of head weights ranging from 10 to 30 oz.

Start at \$23.95 plus S&H.

Contact: FARM SHOW Followup, Ted Hammers Inc., 6152 Mission Gorge Road, Suite G, San Diego, Calif. 92120 (ph 800 645-2434 or 619 584-1190).

