

**Ervin Clark, Oroville, Calif.:** Ervin says the best idea he ever had was installing air hose hook-ups at various locations throughout his 20 by 40-ft. shop. They let him plug in a short air hose wherever he needs air.

"I installed 10 1/4-in. dia. hook-ups, including two on each workbench, one near each of two doors, and two at the back of the shop. Live all the time, they run off a centrally located, 150-gal. capacity air compressor connected to an extra 25-gal. storage tank, for a total capacity of 175 gals. The hook-ups are plumbed to the air compressor with Schedule #80 black PVC pipe. The system provides up to 125 psi. Total cost to set up was less than \$100, including \$3 apiece for the hook-ups and \$25 for the extra air tank, which I bought at an auction."

**Donald Risser, Bainbridge, Pa.:** Donald came up with a simple way to properly inflate tires on his implements - without having to dig out the manual every time.

"I used my computer to print out a 4 by 8-in. card containing proper inflation levels for all my equipment. I had it laminated at an office supply store, then hung it right inside the door of my shop above my air compressor. I've got proper inflation levels for tires on 18 to 20 implements, including hay wagons, hay rakes, tractors and a skid steer loader. Lets me know at a glance what correct levels should be. Eliminates the risk of overinflating or underinflating a tire or tires."

**Alexander Thomson, Woodbury, Conn.:** "I put up four chain hoists on existing I-beams in my shop to lift heavy objects. My 30 by 30-ft. cement block shop was formerly a welding shop and already had the two 12-in. I-beams, which run at right angles bisecting the shop. I found four 1-ton chain hoists and trolleys at various auctions and put two hoists on each rail. They're an ideal, safe way to split tractors, move machinery, and position heavy items for welding. They're the best time savers money can buy and I got all four for less than \$200. Great for a one-man operation like mine."

**A. David Karge, Tallmadge, Ohio:** "Many drill bits bigger than 1/2-in. dia. have a tendency to slip in the drill chuck. If you grind three flat sides onto the shank, you can solve the problem. You can space these equidistant around the shank by wrapping electrical tape around the bit, leaving the shank exposed, and snugly screwing a close fitting hex nut onto the taped end. By resting every other flat side of the nut on the tool rest of the bench grinder, you can easily grind three equally spaced, 1/16-in. deep flats on the shank. Simply remove the hex nut and tape

and you're ready to use the drill without having the drill bit slip."

**John Sparrow, Barrie, Ontario:** John made a tool for repairing and cleaning threads on bolts in small, hard-to-get-at places such



as manifolds. It consists of a 3-in. length of 1 in. dia. pipe with a 3/4-in. hex nut or shaft welded to one end and a small thread die fitted into the other. A 1/4-in. dia. set screw holds the die in place in the pipe. To use, he simply turns the die on the bolt with a socket or straight wrench. Works great on any size bolt from 3/8 up to 1/2 in., he says.

He also made a strap-style oil filter wrench out of a 24 in. length of 2 in. wide car seat belt webbing. A home-made 4 in. long shaft with 1/2 in. cut out of one side serves as a



pin to join the two ends of the strap. It was sewn into the strap by a shoemaker. To use, he simply tightens the strap loop around the filter with a wrench, and keeps tightening until the filter works loose. Works great and never stretches out the way some commercial strap-type wrenches do.

**Luther Lerfald, Hatton, N. Dak.:** "We specialize in a wide variety of exhaust or fume extraction systems which are ideal for farm shops.

"One of our most popular products is a portable extraction unit that captures and filters welding fumes and dust. The exhaust hose pivots on a swing arm that rotates 360 degrees. It can also hook up to car, truck or tractor exhausts. Prices start at \$1,950.

"We've got other exhaust extraction systems that either mount overhead or underground. They come with hoses of various

**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 farm 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.*

*Mark Newhall, Editor*

lengths and diameters. Prices start at \$999.

Contact: FARM SHOW Followup, Air Clean Products, R.R. 1 Box 93, Hatton, N. Dak. 58240 (ph 701 543-3609; fax 3701).



**Ron Watt, Westlock, Alberta:** Ron's company, Hi-Tech Distributors, manufactures and sells a Swedish-designed injector flush system for diesel engines that uses a slightly different approach than other such systems on the market.

"Our Superinjector system uses 100 percent cleaning fluid in the flush rather than a mixture of cleaning fluid and diesel fuel," Ron says. "After all, diesel fuel contributes to injector problems in the first place."

The 12-volt D.C. system hooks up to the vehicle's battery and includes a 60 minute timer, separate pump switch, pressure output control (15 psi max), high pressure hoses with quick couplers and fittings, easy-change 5 micron fuel filter, and pressure regulator from 1 to 15 psi. It weighs approximately 22 lbs.

You by-pass the fuel filters and disconnect the engine's fuel supply, connecting Hi-Tech's system to the engine. It sends its specially formulated cleaning fluid through the diesel pump, fuel rail and injectors. The solution removes wax, varnish and other contaminants as the engine operates for 20 to 30 minutes.

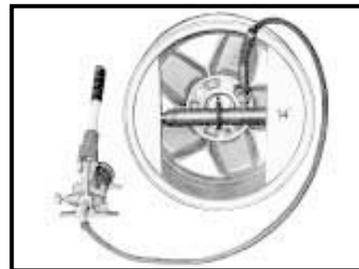
Sells for \$2,900 (Canadian).

A new model for both gas and diesel engines is also available for \$2,900.

Contact: FARM SHOW Followup, Hi-Tech Distributors, 10624-110th Street,

Westlock, Alberta, Canada T7P 1A2 (ph 403 349-4290; fax 3676; website [www.agrimark.com/users/S-inject/](http://www.agrimark.com/users/S-inject/)).

**Elaine Boothby, Brooksville, Fla.:** Elaine's company, Equipment Supply Company (ESCO), has just introduced a new wheel rim straightening tool that's ideal for farm equipment.



The "Round Again" wheel rim straightener is designed for heavy duty truck wheel rims, 17 through 24.5 in. It consists of two half round forms powered by a 10-ton ram. When pressure is applied to the hydraulic pump via a foot pump, the ram exerts pressure on the damaged area and returns it to its original shape.

Ideal for rims damaged by railroad tracks, potholes, and other off-road hazards.

Model 60650 sells for \$599. Smaller model 60600 (pictured) sells for \$425.

Contact: FARM SHOW Followup, Equipment Supply Company, 15424 Flight Path Drive, Brooksville, Fla. 34609 (ph 800 352-9852 or 352 754-1117; fax 4508).

**Murray Huff, Edmonton, Alberta:** "You can use polyester resin-type auto body filler, such as Bondo, to fix worn shafts and pulleys to ensure a virtually permanent tight fit. It works best on low-speed applications, such as the worn reel pulley on my MacDon pickup reel, which I fixed two years ago. Once it's applied to the shaft or pulley, you must reassemble the machine fairly quickly as the filler hardens in 5 to 10 minutes. The next time you disassemble the machine, it takes just a bit of heat with a torch to disassemble.

"One caution: auto body filler absorbs a lot of moisture, so if your equipment isn't

## Garage Door Makes Great Shop Partition

When George "Bing" Ribble put up an insulated 40 by 40-ft. addition to his shop a few years ago, he wanted a low-cost way to partition it off so he could heat the smaller area. He decided to use a garage door.

The Hettick, Ill., farmer found some damaged aluminum roll-up garage door panels to seal off the 11-ft. tall by 12-ft. high opening.

Ribble built a bottom door frame out of strap iron, a top frame out of a 2 by 6 for the door to hang from, and side frames out of 2 by 4's nailed flush to the walls. He fitted top and bottom frames with steel track and rollers for the door to slide in.

Using the sliding door, Ribble can quickly partition off the working area in his shop, keeping him comfortable and saving money on heat.



"It works excellent," he says. "It slides easy and does the job it's supposed to."

Biggest expense, about \$50, was for new steel door track.

Contact: FARM SHOW Followup, George "Bing" Ribble, R.R. 2, Hettick, Ill. 62649 (ph 618 778-5752).