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working outside at night.

"The boom swings outside of the door and the light shines right over the work area," he says. "Somebody gave me an old 4 by 6-ft.



tire sign that I covered with masonite on one side. I painted the masonite white to reflect light and mounted the sign on 4-ft. high pipe legs above the boom which is made of 5-in. H beam."

Roger Wessels, Fairbury, Ill.: Roger is hard-pressed to explain why the axle frame on his Deere 7700 combine, as well as those on the 6600, 6620 and 7720 series, are 2 in. farther to the left of center on the right side than on the left side.

"I can tell the difference in the way they steer, which isn't as straight," he says. "Deere's approach to the problem was to sell



the customer a 2-in. spacer to install on the right wheel rim. Why they did so is beyond my understanding.

"I modified the axle frame on my combine by making two heavy-duty face plates that install on each side of the axle to spread out wheels equidistantly to exactly 120 in. I had them cut out of 1-in. thick plate at The Farm Shop (P.O. Box 36, Congerville, Ill. 61729; ph 309 448-2338). I drilled out the spacer blocks between the two plates. They're heavier built and cost less than comparable Deere extension brackets, and they work great to improve handling."

Roger also retrofitted the drive wheels on his 7700 with a pair of Alliance 12-ply knobby tires from Harry's Farm Tire Service (Jackson St. Place, Wheatland, Iowa 52777; ph 319 374-1253). "The reason for doing so was to reduce lug tracks from the combine and, thus, cut down on vibration in the cab of my 4640 when V-ripping bean ground after I combine," he says.

New & Home-Built Metal Working Machines

Rotating Mitre Band Saw

The head on this rotating mitre band saw can be moved left or right up to 45 degrees, allowing you to switch to a different cutting angle in seconds, says Ellis Mfg., Verona, Wis.



The two-wheeled Ellis 1600 is equipped with a 1-in. wide blade and is powered by a 1 hp, 110-volt electric motor. The turntable mounts on a half-moon casting. A built-in protractor allows for fast and accurate selection of angles, and a movable guide arm can be used to make the cut as accurate as possible.

Unit mounts on 10-in. wheels and has legs that are adjustable for height.

Sells for \$2,395 plus S&H.

Contact: FARM SHOW Followup, Ellis Mfg. Co., Inc., Box 930219, Verona, Wis. 53593 (ph 800 383-5547).

Shop-Built Bandsaw

"I made it because the commercial models I looked at were either too small for my needs or so big I couldn't justify the cost," says Stan Weichel about a bandsaw he built for his metal-working shop where he custom-builds specialty equipment.



The Odessa, Sask., farmer's design incorporates some features not even found on big commercial saws that cost \$4,000 or more.

"For example, it has adjustable saw guides which you adjust with set screws so you can square the blade back again," Weichel notes. "They're made of 2 by 2-in roller bearings and allow me to move the blade up or down 3/16 in. or 1/4 in. to the left or right."

Weichel's saw mounts on a 26-in. high, 4-ft. long steel table. Two of the legs have wheels so it's easy to move around.

A 20-ga. hinged steel cover shields the blade and other working parts of the saw.

The commercial high-speed Matrix blade is 3/4 in. high by 0.035 in. wide by 106 in. long. It's driven by two pulleys and a gearbox from a 3/4 hp electric motor mounted on one side of the table.

It easily handles up to 7 in. high by 12 in. wide steel, Weichel says.

"I've used it to cut hundreds of meat bandsaws that I make as well as snowmobile and livestock trailers," he says.

Out-of-pocket expense was \$1,000 (Ca-

nadian).

Contact: FARM SHOW Followup, Stan Weichel, Box 51, Odessa, Sask., Canada S0G 3S0 (ph 306 957-2043).

Low-Cost All-In-One Metal Fabricator

"Comparable machines cost four times as much," says Mike Nimmo about the "All-In-One Fabrication Shop," a compact metal-working tool with 40 tons of power.

Powered by a 110-volt 3/4 hp motor, it can punch, shear, notch, bend, form and press.



The shear can handle flat, round, square and angled steel up to 3/8-in. thick and can be switched to an 8-in. brake that'll bend steel up to 1/4 in. thick.

The 40-ton punch has a 3 3/4-in. deep throat and can punch a 1-in. dia. hole in 3/8-in. steel. It's capable of four to six strokes per minute.

Options include a variety of punches and dies, a heavy-duty notcher attachment and a pipe notcher.

Sells for under \$2,500.

Contact: FARM SHOW Followup, METALpro Ironworkers, 1320 Plainfield Avenue, Janesville, Wis. 53545 (ph 800 558-1345 or 608 758-1345; fax 1272).

Compact Bender

"It's becoming one of the most popular tools among both professional and hobbyist metal workers because of its ultra-compact size," says the manufacturer of the "Compact Universal Pipe Bender."



Weighing only 60 lbs. and standing just 38 1/2-in. high, the "Compact Bender" has the capacity to bend up to 5/16 by 2-in. flat steel, 5/8-in. solid round or solid square hot rolled mild steel. A sharp right angle bend attachment (included) bends up to 3/16 by 2-in. or 1/4 by 1 1/4-in. flats.

Includes seven 1 to 3-in. heat-treated steel dies, die rack, square stop block, heat-treated pins, stand, sharp right angle bend attachment, and instruction manual.

Sells for \$398; S&H included in U.S.

Contact: FARM SHOW Followup, Shop Outfitters, 605 South Adams St., Laramie, Wyo. 82070 (ph 307 745-5999; fax 742-5999).

Hydraulic Presses

Cottonwood Welding's new Black Max hydraulic press is built tough and comes in three models with 50, 100, and 125-ton capacities. The 50-ton model has a 12-in. cylinder stroke and a self-contained hydraulic system equipped with a 2-speed hydraulic pump; 6-position bed height adjustment; an open-ended frame for long parts; press blocks and V-blocks as standard equipment;



and 2-in. bed pins with hardened holes. It uses single phase electricity; 3-phase is optional. The 100-ton model is 86 in. high and 64 in. wide and has a maximum working width of 48 in.

"The bed is hydraulically raised or lowered on all models. A pressure gauge is standard equipment.

"The 50-ton model sells for \$3,250; the 100-ton model for \$4,595; and the 125-ton model for \$5,295. All prices are F.O.B. Cottonwood, Minn.

Contact: FARM SHOW Followup, Cottonwood Welding & Machine, Inc., Box 15, Cottonwood, Minn. 56229 (ph 507 423-6666; fax 5609).

Full Range Of Iron Workers

"We offer 18 different iron workers ranging from 42 to 150 tons in capacity. They all have a 'guillotine' action that cuts



cleaner and more evenly for the full length of the cut. Other machines use a 'scissors' action which loses force at the far end of the blades and causes greater metal deformation. Our iron workers can also be used to cut, bend, punch, notch, and work on flat stock, round bars, and angle iron.

"The 42-ton model sells for about \$5,000 plus S&H and the 150-ton model for about \$30,000 plus S&H."

Contact: FARM SHOW Followup, MLM Enterprises, 13307 525th Ave., Cosmos, Minn. 56228 (ph 800 737-7975).