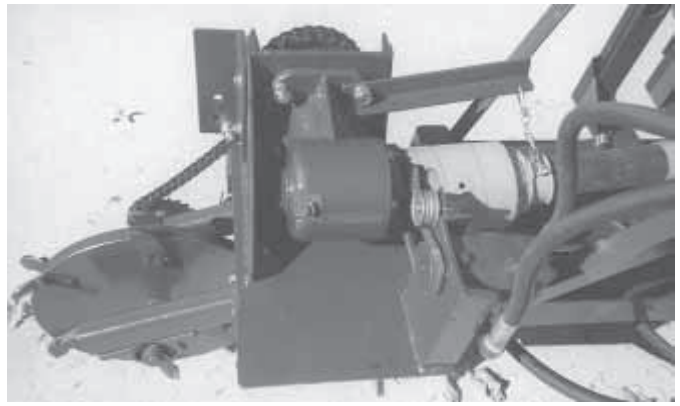


Grinder mounts on Roberson's 3-pt hitch. Wheel consists of a 16-in. dia. grinding wheel.



The pto drives a gearbox which chain-drives a hydraulic pump. One cylinder moves the wheel left or right and the other moves the wheel forward or backward.

He Built His Own Tractor-Mounted Stump Grinder

"I use a wood burning stove to heat my home all winter long so I have to cut a lot of wood. That's what prompted me to build my own 3-pt. mounted stump grinder. It has saved me a lot of backaches," says Bill Roberson, Sesser, Ill.

The stump grinder mounts on Roberson's Kubota 3010 30 hp tractor and is equipped with a 16-in. dia. grinding wheel. The pto drives a gearbox off an old 6-ft. brush cutter, which chain-drives the grinder head. The gearbox belt-drives a hydraulic pump that's used to operate two cylinders. One cylinder

moves the grinding wheel left or right, and the other cylinder moves the wheel forward or backward. Two levers on back of the tractor are used to operate the cylinders.

"I built it last year and have already used it on more than 80 tree stumps. It's really a handy piece of equipment," says Roberson. "I spent about a year thinking about it before I built it. This was my own design as I had never before seen a tractor-mounted stump grinder.

He operates the stump grinder from the ground with the tractor in a stationary posi-

tion. "I use the 3-pt. hitch to lower the grinding wheel close to the stump. Then I get off the tractor to operate it. The tractor has a live pto so I can reach over the fender and engage the pto without having to push the clutch."

Once the grinding wheel is turning, he starts operating the levers. "First I extend the grinding wheel backward to cut into the stump from front to back. Once I've cut all the way through the stump I move the wheel left or right. The wheel can be moved a maximum of 18 in. from left to right and 12 in.

forward and backward. If the stump is real big, I may have to move the tractor over once or twice."

Roberson already had the cylinders, and a friend sold him the gearbox and pto shaft for \$200. His total expense was about \$300. "My son cut the grinding wheel out of 1-in. thick steel plate. It's fitted with six metal hardened drill bit teeth off a cutting machine used in coal mines," he notes.

Contact: FARM SHOW Followup, Willis Roberson, 7990 Grammer Rd., Sesser, Ill. 62884 (ph 618 724-9638).

Air Ride Semi Seat Improves Ride

When the original seat on his 1956 International Harvester 450 tractor wore out, Jamie Beck, Story City, Iowa, decided to replace it with a used "air ride" seat designed for semi tractors.

"It has thick padding and a high back which makes it super comfortable, and it's designed to float up or down which smooths out the bumps. It sure shortens my workday," says Beck.

He threw away the tractor's original seat and made a steel bracket to mount the new seat. He drilled new holes in the bracket, then bolted the semi seat onto it. The seat came equipped with an air bag with an air chuck on it. There's no compressed air on board. Instead, Beck simply uses his shop air compressor to fill the bag up with air.

"It's really comfortable," says Beck. "We already had removed the seat from the truck, replacing it with one more suited to long distance driving. The seat cushion can be adjusted forward or backward, and the back can be tilted. The only disadvantage is that I can't climb up the back of the tractor any more. I have to climb in from the side."

Contact: FARM SHOW Followup, Jamie



There's no air compressor. Beck uses a shop compressor to fill the seat's airbag.

Beck, 903 Washington St., Story City, Iowa 50248 (ph 515 290-2878).

"Condensation Catcher" Keeps Moisture Out Of Grain Bin

"I wanted to keep condensation from dripping down the grain leg pipe and into my grain bin, where it could cause a wet spot and spoil a lot of grain. So I made a condensation catcher that automatically diverts moisture outside the bin and onto the ground," says William Riegler, Findlay, Ohio.

He uses the idea on a 24-ft. dia. dryer bin.

The condensation catcher consists of a length of 2-in. dia. tubing made from thin wall conduit. The tubing extends at a downward angle through a hole under the roof eave and is free to slide in and out of the bin. An 18-in. long, 12-in. wide, V-shaped metal catch pan made from 1/8-in. thick sheet metal welds to the top end of the tubing and funnels water into it. The tubing is suspended by two small chains, which allows the tube to be centered under the grain leg pipe. A 3/16-in. dia. cable clamps to the outer end of the grain leg pipe and runs through a small pulley down the side of the bin to a lever. It's used to pull the catch pan out of the way when grain is being loaded into the bin.

"The problem is that when I run the dryer, it blows moisture up the grain leg pipe and then it condenses and comes back down," says Riegler. "It's surprising on humid days how much water drips out of there. If you don't catch the moisture, it settles straight down through the bin and over the center discharge hole and then plugs up the unloading auger. I have to make sure the catch pan is out of the grain flow or it will cause the grain to plug the down pipe and cause the elevator leg to plug up."

"I've also used this same idea on three other storage bins," notes Riegler.

Contact: FARM SHOW Followup, William D. Riegler, 14241 TR 45, Findlay, Ohio 45840 (ph 419 422-5889).



Condensation catcher catches moisture dripping down grain leg pipe.



While bin is being loaded, catch pan swings out of the way.



Drain tube from catch pan extends out a hole under roof eave. Steel cable slides in or out of bin.



Cable runs down side of bin to lever, which is used to pull catch pan out of way when grain is being loaded into bin.

Some of the best new ideas we hear about are "made it myself" inventions born in farmers' workshops. If you've got a new idea or favorite gadget you're proud of, we'd like to hear about it. Send along a photo or two, and a description of what it is and how it works. Is it being manufactured commercially? If so where can interested farmers buy it? Are you looking for manufacturers, dealers or distributors? Send to FARM SHOW, P.O. Box 1029, Lakeville, Minn. 55044 or call toll-free 800 834-9665. Or you can submit an idea at our Website at www.farmshow.com.

Mark Newhall, Editor

**FARM
SHOW**

**"Made
It
Myself"**