

## Simple Seed Inoculator Mounts On Any Hopper

There are some complicated and expensive seed inoculators on the market. Eldon Nuttall didn't like any of them so he designed a simple new unit that mounts on any auger hopper so you can treat seed as you fill your planter or air seeder.

Nuttall Mfg.'s inoculator consists of a poly cylinder that clamps onto the end of the auger. It comes with a constant speed motor that plugs into any 12-volt supply, such as a truck battery. An agitator mounted inside the cylinder keeps the product moving. It consists of a spring-loaded wire that revolves on a steel shaft at the center of the cylinder. There are two controls - an on-off switch and a dial that regulates the speed of the motor, allowing you to control the application rate.

"You simply pour inoculant into the cylinder, open the truck endgate, and turn on the switch," says Nuttall. "The cylinder holds one bag of inoculant at a time which is enough to treat 20 to 40 bu. of seed. Powder inoculant is a very difficult product to handle, but the agitator eliminates any plugging problems."

Sells for \$450 (Canadian) plus S&H.



**Inoculator consists of a poly cylinder that clamps onto end of auger. Constant speed motor plugs into any 12-volt source.**

Contact: FARM SHOW Followup, Nuttall Mfg. Ltd., Box 63, Pense, Sask., Canada SOG 3W0 (ph 306 345-2359 or 2418).



**Semi truck frame was used to build the 15-ft. long by 5-ft. wide skid which holds three 500-gal. fuel tanks.**

## Skid-Mounted Fuel Tanks Can Be Towed Away In Case Of Fire

By Keith Berglund

Lorne and Vic Bossuyt, Oak Bluff, Manitoba, mounted three 500-gal. fuel storage tanks - one diesel and two gas - on a steel skid so that the tanks can be quickly relocated in case there was ever a fire in one of their nearby buildings.

"We can just hook a chain to the skid and tow it away with a tractor," says Lorne.

Each tank is equipped with an electric pump and hose. The pumps are turned on and off from a control panel in a nearby building. Underground wires connect the pumps to the control panel. "We always keep the power off except when fuel is being pumped into a tractor or vehicle. The wires are light enough that they'll break easily if we don't have time to cut them, and because the power would be off there wouldn't be any sparks," says Lorne.

They used an old semi truck frame to build the 15-ft. long, 5-ft. wide skid. The truck frame wasn't wide enough to accommodate the 7-ft. 2-in. long fuel tanks so they cut the cross members to weld in new material to widen the frame by 1 1/2 ft. The tanks extend about 1 ft. beyond each side of the frame. They welded a hook onto each end of the frame. They also rounded off the ends of the

frame so that the skid can be dragged in either direction.

The tanks ride in saddles made from flat metal and are covered by a metal roof that reduces evaporation caused by sunlight. They used 3-in. channel iron to make the roof frame and made the roof itself by bolting together big sheets of metal designed for culverts. Both ends of the roof were bent down and bolted to vertical steel pipes.

The skid rests on concrete pads designed for outdoor patios. The concrete pads keep the skid from sinking into the ground. There's enough room to walk between the tanks for maintenance or repainting.

"We've never had to move it, and we hope we never do," says Lorne. "The tanks are filled from the back or the rear. We had been using overhead tanks, which were difficult to fill. We also used three underground tanks but had problems with water leaking into the tanks, which caused damage to the fuel pump on our diesel tractor. We plan to build another skid with two tanks just for diesel fuel."

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## Strap-On Meter Measures Flow Of Grain, Seed, Fertilizer

"We think it's the simplest and most versatile way ever to accurately measure the flow of grain, fertilizer, feed, and other flowable materials," says Kurt Stehr of Harvest Tec, Hudson, Wis., about the company's new Flow Meter that simply straps to any auger down spout which allows it to be moved easily from auger to auger.

You can use it on a combine unloading auger during harvest and then move it to a drill fill auger during planting season, notes Stehr. It can also be used with a mixer to measure the amount of grain or other supplements added to rations.

"The uses are unlimited. It'll measure any flowable material that can be handled by an auger with an accuracy of plus or minus 2 percent," says Stehr.

The meter uses a paddle type weigh system. The meter is calibrated to flip over when a certain weight of materials fills the paddle.

The meter simply straps to the auger down spout with a length of chain. It's wired to a 12-volt powered readout that can be mounted anywhere. It simply counts the flips of the paddles as materials flow through.

Designed to fit up to an 8-in. auger, it'll measure up to 2,700 bu. of materials an hour.



**Meter uses a paddle weigh system that flips over when a certain weight of materials fills the paddle.**

Sells for \$850. Harvest Tec is also working on a smaller model for 4-in. augers and a larger model for up to 12-in. augers.

Contact: FARM SHOW Followup, Harvest Tec, P.O. Box 63, Hudson, Wis. 54016 (ph 800 635-7468 or 715 386-9100).



**Snowblower mounts on Farmall M with brackets made from 3-in. channel iron.**

## Loader-Mounted Snowblower Driven By PTO

Farmall tractors don't have rear hydraulics or a 3-pt. hitch so it's difficult to mount a snowblower on them. Eugene Blindauer, Plymouth, Wis., solved the problem by mounting a 2-stage snowblower on his Farmall M's front-end loader and powering it with a shaft that's chain-driven by the pto.

"It works better than a rear-mounted snowblower because I have a good view in front of me and don't have to turn around," says Blindauer.

Blindauer stripped down a self-propelled snowblower, keeping the auger and blower unit. He welded on mounting brackets made from 3-in. channel iron. To mount the blower he simply drives up to the snowblower and pins it to the bucket mounting attachments.

Here's how the tractor's pto power is transferred to the snowblower. An angle iron frame attached to the tractor drawbar supports a 4-ft. long shaft that rides in bearings at each end. The shaft is fitted with a small sprocket. A second, larger sprocket is welded to a splined hub that mounts directly on the pto shaft. The 1 to 2 sprocket ratio doubles the tractor's 540 rpm pto speed to 1,080.

The short, chain-driven shaft connects to a 7-ft. long telescoping driveshaft off an old chopper. Each end of the slip shaft has a splined universal with a spring-loaded locking pin that makes the shaft easy to connect



**Blindauer powers the snowblower with a short shaft that's chain-driven by the pto. up or remove.**

The blower spout is rotated from the tractor seat by turning a 5/8-in. dia. steel rod one way or the other.

"It works good," says Blindauer. "I chained the bucket arms to the tractor frame so I don't accidentally lift the loader arms too high and bend the drive shaft. I didn't have to spend a lot of money because I already had most of the material. My total out-of-pocket expense was about \$60."

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