



McLaen replaced the clamp that bolted to his loader bucket with a quick-tach plate that attaches to his skid loader. Auger rests in a saddle when in transport mode.

## Quick-Tach Post Hole Auger

Dale McLaen took the hassle out of working with his bucket-mounted post hole auger by adding a quick-tach plate to replace the clamp with pinch bolts that fastened to the front of the loader bucket.

"The auger head was a miserable, finger pincher to mount, and as you moved around, you had to keep the bucket high to clear the ground," recalls McLaen. "It hung like a plumb bob, and you couldn't tip it forward for cleaning."

McLaen fabricated a new mounting system welded to a quick-tach plate for his skid steer. The new mount retained the auger head's bracket that allows it to pivot forward and back and side-to-side. However, he also added a saddle, made from 1/4-in. steel plate, just to the rear of the auger head.

"When I tilt the mounting plate vertical, the auger head rests in the saddle, and the auger points straight out and parallel with the ground," says McLaen. "It's easy to move around and easy to clean in that position. If close to the ground, it's also handy for



Auger head can still pivot forward and back and side-to-side.

stepping on and off the skid steer."

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## Propane-Powered, Portable Tankless Hot Water Heater

"Our new portable, tankless hot water heater rides on a 2-wheeled dolly and operates off a standard 20-gal. propane tank. It comes with a 25-ft. coiled flexible hose and spray nozzle, allowing you to wash objects with hot water anywhere there's water pressure," says inventor Atlee Yoder, Trail Livestock, Millersburg, Ohio. "You can even take a hot shower with it while camping. An optional 12-volt water pump can provide you with hot water even if you don't have water pressure."

The E-Z Tankless water heater comes with a metal basket on front to store the propane tank, which hooks up to a gas burner inside a tank that's used to heat the water. Cold water travels through a standard garden hose that hooks up to an inlet at the bottom of the tank.

"Amish farmers in our area use it to wash off horse buggies, but it also comes in handy for many other jobs such as cleaning livestock barns and washing vehicles, driveways, and so forth. Some people take it to fairs where they use it to wash livestock or clean trailers," says Yoder.

"The optional 12-volt water pump is operated by a battery that rides alongside the propane tank. It comes in handy when you want to pull water out of a creek."

Water can be heated up to about 140 degrees Fahrenheit, but the temperature can be adjusted. The unit provides up to 4 gpm. "A 20-lb. propane tank will last 5 to 10 hrs., depending on how much water you use," says Yoder.

The E-Z tankless water heater without the 12-volt water pump sells for \$599 plus S&H. The pump sells for \$212 plus S&H; \$245 with pump and battery.



Propane-powered, tankless hot water heater comes with a 25-ft. flexible hose and spray nozzle, allowing you to wash objects with hot water anywhere there's water pressure.

Contact: FARM SHOW Followup, Trail Livestock, 6205 TR 419, Millersburg, Ohio 44654 (ph 330 893-3723; fax 330 893-0577).



Cow "urinal" is suspended behind a feeding stall. It takes advantage of a nerve reflex on back of the cow that causes cattle to urinate immediately when rubbed.

## Cow Urinal Keeps Liquid Separate From Manure

A cow "urinal" designed by a Dutch company collects urine from cattle before it hits the floor. Key to its success is the way it takes advantage of a nerve reflex that causes cattle to urinate immediately.

Hanskamp designed a urine collection device that is suspended behind a feeding stall. When the cow enters the stall to be fed, the urinal moves down behind her, rubbing the nerve at the back of the cow so she urinates.

"The urine runs through a sieve into the container, where it is immediately extracted through a suction line," explains Hanskamp. It can be collected in large tanks for use as fertilizer or possibly other uses. Ammonia

is only released when urine and manure are mixed so smells are greatly reduced.

"We can collect around 2 1/2 gal. of urine per cow per day," says Hanskamp. "With 1.5 million dairy cows in the Netherlands, we could collect 15 million liters of urine per day. We must be able to do something with that."

The company has yet to announce a price or availability. Check out the "must see" video at [www.farmshow.com](http://www.farmshow.com) to see it in operation.

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The urine is extracted through a suction line and collected in large tanks for use as fertilizer. The company says there are also potential industrial uses for the bulk urine.

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