

# State-Of-The-Art Fuel System Injects Oxygen, Hydrogen & Water

An off-the-shelf hydrogen generator and injection package from Aquatune International is guaranteed to save money and boost performance. Systems designed for gas engines and diesel engines of all sizes are ready to go. Even today's relatively low fuel prices aren't slowing sales.

"About 60 percent of our customers are mileage driven; the rest are after added horsepower and performance," says Dave Miller, Aquatune International. "Extreme systems with a hydrogen generator for every cylinder offer the highest mileage and performance. They are our best sellers and go on everything from 4 cylinders and up."

The Aquatune system injects a mixture of oxygen, hydrogen and water into the engine ahead of combustion, supplementing and improving, but not replacing, conventional fuel combustion. It can be installed without any alteration of existing engine control systems or pollution control devices. All that is needed is distilled water.

Where the mixture is injected depends on whether the engine is gas or diesel-powered and the type of engine. While a single hydrogen generator will impact mileage and performance, additional generators added to the system will increase the effect.

The company guarantees a minimum 15 percent increase in fuel economy in large diesels, 20 percent in midsize diesels, and 25 percent in gas-powered engines or your money back. Other promises include increased horsepower, plus elimination of carbon deposits due to more complete combustion.

Injection of water with the hydrogen is said to lower oil temperatures an average of 25 degrees. Cleaner burning can extend periods between oil changes.

Miller sells and installs the systems, as well as retailing them nationally and internationally. He also custom designs systems for special applications.

The basic model for gas engines is the Plus



Aquatune fuel system injects hydrogen directly into engine ahead of combustion, improving conventional fuel combustion.

HB with a single hydrogen generator and is priced at \$798. Packages for diesels range from \$2,495 for a small diesel to \$3,750 for a large diesel. Other systems are available for motorcycles and off-highway and stationary diesels.

All systems come with an install kit and

instructions with vehicle-specific photos included.

Contact: FARM SHOW Followup, Aquatune International, 19099 Divilbiss Rd., Fredericktown Ohio 43019 (ph 276 285-5251 or 330 464-6776; dave@aquatuneohio.com; www.aquatune.com).



Big 32-in. dia. sawmill blade mounts 6 ft. off the ground alongside ATV's rollbar. As Nielsen drives along, bent-over small trees are cut by blade.

## Amphibious ATV Converted Into Trail-Clearing Brush Cutter

"I use it to clear out overhanging trees along fence lines and small trees and brush alongside trails. People are amazed at how well it works," says Harvey Nielsen, Melfort, Sask., who converted an amphibious tracked ATV into a one-of-a-kind brush cutter.

He started with a hydrostatic drive 1975 Cushman Trackster equipped with a 2-ft. high steel brush guard on front, and a machine-length rollbar made from 2 1/2-in. dia. pipe that has a puckboard canopy on top. Nielsen mounted an old 32-in. dia. sawmill blade about 6 ft. off the ground on one side at the back of the rollbar. The blade clears the rollbar by about 2 in. An 8 hp. Kohler engine bolted to the floor belt-drives a horizontal shaft that rotates the blade.

Nielsen reaches behind the driver's seat and uses a lever that's connected to a belt idler pulley to engage the blade. As he drives slowly along, the guard on front forces bent-over small trees and brush up and onto the rollbar until they get cut by the blade and fall behind the machine and onto the ground.

"It does a good job and is easy to use. I built it because I'm 83 years old, and at my age I need to do everything the easy way," says Nielsen. "The rollbar will catch any bent-over trees or branches as long as they're at least 2 ft. off the ground. The big blade cuts through 6-in. dia. tree trunks like a hot knife going through butter."

He says the machine came in handy three years ago when an ice storm bent lots of

trees down along a 6-mile long trail leading to his hunting cabin. "I drove along cutting everything off one side of the trail, and then turned around and did the other side," says Nielsen.

"When I first started using the blade, I thought I'd have to ease very slowly into big logs, but I found out that I have to go at least 2 mph in order to keep big logs from binding in the saw. I can use an engine stop button if the blade happens to jam up on a log."

The blade's original mounting bracket is bolted to a steel frame that bolts onto the rollbar. "It takes only about 25 min. to remove the blade and shaft," says Nielsen.

He admits this can be a dangerous machine, with a big blade out in the open and chips and sawdust flying everywhere. "The ATV can seat 3 people side by side, but when I'm using the saw I don't let anyone ride with me. I also don't want anyone close by."

He bought the ATV used about 20 years ago. "It was originally powered by a 2-stroke engine that was hard on gas, so I replaced it with a 20 hp Honda engine," says Nielsen.

He says the ATV's T-bar steering wheel makes the machine easy to handle. "Top speed is only about 10 mph but I wouldn't want to go any faster than that, especially on rough ground or I might get bucked out of the seat," notes Nielsen.

Contact: FARM SHOW Followup, Harvey Nielsen, P.O. Box 1032, Melfort, Sask., Canada S0E 1A0 (ph 306 752-9253).



Steel traction claws strap to vehicle's drive tires to free stuck vehicles.

## "Truck Claws" Free Stuck Vehicles

You can get a truck or tractor unstuck from mud, snow, or ice fast with new "TruckClaws". The kit includes 2 steel traction claws, which are strapped to the vehicle's drive tires using a heavy-duty ratchet strap. It only takes about a minute to install each claw.

Unlike tire chains, TruckClaws can be installed after the vehicle is stuck by simply

slipping the strap through the rim.

Two models are available - one for commercial vehicles (\$249.99 plus S&H) and the other for light/medium trucks, SUV's and RV's (\$159.99 plus S&H).

Contact: FARM SHOW Followup, S & C Global Products, LLC, 10363 Piper Lane, Manassas, Va. 20110 (ph 844 362-5297; www.truckclaws.com).



FARM SHOW's growing library of books each focuses on a specific topic.

## Is Your FARM SHOW Library Complete?

You've probably noticed that over the past few years, we've built up a library of books focusing on specific topics from past issues of FARM SHOW. Most are the result of requests from readers. You might want to keep them in mind when shopping for your favorite rural tinkerer. You can get more details from the order envelope enclosed with this issue, or at our website ([www.farmshow.com](http://www.farmshow.com)). By far our most popular books are the three 482-page "Encyclopedias of Made It Myself Ideas". Thanks for giving us a look!