

Permanently-Installed Cable Tow System For Combines

Get a combine stuck once without a Combine Cable System from Vosberg Enterprises and you won't do it again. Installing the cable ahead of time makes it easy to hook on and pull a combine out of the muck.

"Combines aren't designed to be pulled out from the rear," says Jeff Vosberg. "If a combine gets stuck, you have to burrow under to get a chain or cable to the front axle. Having the cable installed is an insurance policy should you get stuck. Without it, a 1-hr. job can turn into 6 or more."

Vosberg says the Combine Cable System can be used on any brand combine. The cable goes up and over both sides of the front axle and back to a hook anchor shackle that is hung at the rear of the combine. Tow straps rated at 40,000 and 60,000-lb. loads are available to connect to the shackle.

While the Combine Cable System seems to be a simple system easily imitated, Vosberg warns that it is carefully engineered.

"When chains and cables break, they can

cause severe damage and danger," he says. "If anything gives, it should be the tow strap. The Combine Cable System is designed around that idea."

A 60,000-lb. tow strap has a breaking strength of 120,000 lbs. While the 1-in. steel cable has a breaking strength of only 107,000 lbs., when doubled over in the recommended installation, the breaking strength reaches 214,000 lbs. The clevis has a breaking strength of 144,000 lbs. so it will also fail before the cable does.

Vosberg says the new system had a good first year, thanks to a wet fall. "We sold many kits this fall, mostly in our area," says Vosberg. "People used them, and they worked. They told us they were glad they had the system in place before they got buried."

The Combine Cable System comes complete with hook anchor shackle, cable and cable clamps. It's priced at \$508.39. The addition of a 40,000-lb. tow strap brings the price to \$743.39. A 60,000-lb. tow strap raises



Permanently-installed cable tow system makes it easy to pull a combine out of the mud. It can be used on any brand of combine.

it to \$992.77.

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Sprayer Kills Weeds With Controlled Frost

The Frostbite sprayer from Arctic, Inc. kills weeds fast and safe with liquid carbon dioxide (CO₂). The novel sprayer is proving popular with landscape contractors, golf course workers and homeowners who want to avoid the use of chemical herbicides.

"It works on everything from crabgrass to dandelions," says Gina Stewart, Arctic, Inc. "It has a high degree of selectivity."

The dose can be varied by seconds of exposure. A short burst can remove crabgrass from fescue without damaging the fescue.

The sprayer consists of a wand with a trigger and a containment tube. Connected to a CO₂ cylinder with a siphon tube, the wand converts the liquid CO₂ into dry ice frost. Placing the end of the tube over the weed produces maximum damage and requires an application time of only 1 sec.

Stewart warns against attempting to use liquid CO₂ with homemade equipment. She describes an early experiment by the company founder using a modified fire extinguisher.

"He discovered how dangerous a ruptured

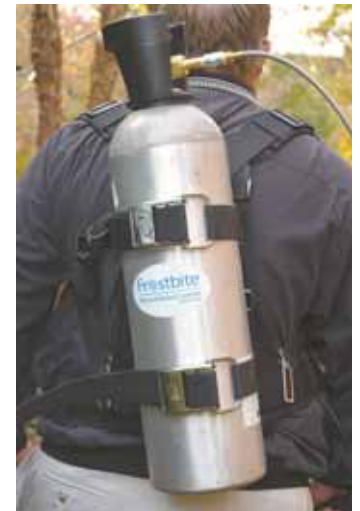
hose could be," she says. "Liquid CO₂ is held at about 900 psi. You need equipment designed to withstand that pressure."

Susceptible weeds show damage after about 20 min. Maximum control is achieved after 2 days and has been shown to be very effective for goosegrass, annual bluegrass, dandelion, white clover and corn speedwell. It also handles tough weeds like dallisgrass and wild violets.

The sprayer system can be readily adapted to the available carrier for the CO₂ cylinder. The sprayer itself is priced at \$599. A backpack harness is available for \$250. However, the cylinder can also be carried in a golf bag carrier or on a golf cart, ATV or lawn tractor.

"If prospective customers contact us with specific needs, we can vary the hose length for use farther from the transport vehicle," says Stewart. "We're looking for commercial partners to help us develop the organic farming market."

CO₂ cylinders are available from welding shops and compressed gas distributors. Arctic



Arctic Frostbite sprayer converts liquid CO₂ into dry ice frost that kills weeds fast. The CO₂ cylinder can be used with a backpack harness, if desired.

Inc. can help locate local sources. Cylinders can be refilled or exchanged.

Check out a video of the Frostbite sprayer at FARMSHOW.COM.

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Gas-Electric ATV Mows Lawns, Generates Power

The Raven from Denver Global Products is a riding lawn mower like no other. The multi-purpose vehicle has a gas-powered generator and can mow lawns, but also provides power in remote locations or lets you slip quietly into wildlife areas on battery power.

"Until the Raven, riding lawn mowers really hadn't changed much since the 1970's," notes Craig Rouse, Denver Global Products. "The Raven works like a modern locomotive. The 14 hp engine powers the generator, charging batteries as well as providing power to the wheel motors and mower blades. Electric motors have a lot of torque, and because they are so efficient, we only need a 420 cc engine."

Manufactured by RATO Power Company and assembled in North Carolina, the Raven generator has a continuous output of 6,500 watts with surge to 7,100 watts. It offers four 20 amp, 120V outlets and one 30 amp, 120V outlet as well as a single car plug DC outlet. The electric generator has an 8-hr. run time

at half-load on a (5-gal.) fill of gas. Wheel motors offer a top speed of 17 mph and a top mowing speed of 6 mph in forward or reverse.

Cruise control combined with car-like steering and foot pedal control makes mowing even easier. The Raven has a towing capacity of 550 lbs. and a turning radius of only 14 in.

The 46-in. mower deck can be disconnected and easily removed. It slides out from underneath the Raven for easy cleaning and maintenance. Removing the mower transforms the Raven into an off-road utility vehicle, operating under gas power or drawing current from the 48-volt battery pack.

"While the mower can't be operated on battery power, the wheel motors can," says Rouse. "You can travel quietly under electric power for up to 70 min., depending on load, and then fire up the engine and recharge as you go. If you run out of gas, you can switch to electric and drive to refuel. Once at a



Removing the mower deck transforms the gas-electric Raven into an off-road utility vehicle. Once at a remote site, it can be used to power tools.

remote site, the Raven can power tools or a campsite for hours."

The Raven is available from DR Power for \$4,499.99. Contact information for other dealers and distributors is available from Denver Global Products.

To see the Raven in action, visit FARMSHOW.COM.

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