

Update From Greenworks Tools

New and soon-to-be-introduced products from the Greenworks Commercial 82V line illustrate how battery-powered tools keep getting more powerful with longer run times and more options. The company, which previously had all its products manufactured in China, recently opened a centralized factory in Morristown, Tenn.

"We no longer have to rely on importing products with long lead times," says Per Kvarby, Greenworks.

Ribbon cutting at the new factory was timed with the official launch of the company's OptimusZ line of zero-turn mowers. They include 48, 52 and 60-in. cutting widths in ride-on and stand-on versions. Compact 32 and 36-in. stand-ons are also available with 8 kWh batteries. Prices range from \$10,999.99 to \$22,999.99.

The new mowers, which are being produced at the Morristown plant, have a 24 kWh battery pack that can deliver 8 hrs. of mowing or up to 21 acres of grass cutting. They're targeted at the professional lawn care and landscape industry.

"The operator can be confident the OptimusZ mowers have more than enough power to go through any day on the job, based on early user reviews," says Kvarby. "They're a good example of making products that are not just on par with gas machines, but better."

The 52 and 60-in. cutting-width ride-on mowers now available can operate at up to 16 mph with a tip speed of 19,000 ft. per min., the top legal tip speed for the industry. "OptimusZ mowers are the only ones that can reach and maintain that tip speed," says Kvarby. "If you're going to mow at 16 mph, you need to have a fast-cutting speed."

Even gas mowers bog down in heavy

grass. "OptimusZ mowers simply power through it," says Kvarby. "Without the gas engine on the rear of the machine, weight is distributed more efficiently, letting it take hills and inclines more efficiently."

A key feature of the new mowers is their 4G connectivity and control app for fleet management. A manager can see where the mower is on their electronic device, as well as how long it has been mowing. If it's being driven off-site, the app makes it possible to restrict its speed to 4 mph, and if it's shut down, disable restart remotely. It's also equipped with running lights for safety due to its quiet operation and for visibility if mowing at dusk or early in the morning.



Greenworks OptimusZ electric zero-turn mowers can deliver up to 8 hours of mowing.

Other new tools include a 30-in. cutting width, walk-behind, self-propelled mower, a 16-in. tiller/cultivator, and a new utility vehicle. With three 8 Ah batteries, the 30-in. mower has a 110-min. runtime for up to 2

acres of lawn. It's priced at a \$2,999.99 kit price with batteries and charger and offers 4G connectivity, app control, and running lights similar to the OptimusZ line.

"This is the first battery-powered, 30-in. mower in the industry with a direct drive cutting system using special hub motors driving the blades," says Kvarby.



Battery powered tiller matches a 25cc gas equivalent.

The 16-in. tiller offers up to 1,700 spins per min. tilling speed with a 30-min. run time on a single 5 Ah battery. The tool only cost is \$379.99 and claims a 25cc gas power equivalent.

"It's designed for the landscaper or homeowner and is one of the most powerful battery-powered tillers on the market," says Kvarby.



82V utility vehicle has a 1,500 lb. towing capacity and a range of up to 75 miles.

The new 82V utility vehicle has a 75-mile-per-charge runtime and a maximum speed of 29 mph. It features a 16 kWh battery and a charging time of 11 hrs. The cargo bed has a 550-lb. capacity. The hitch has a 1,500-lb. towing capacity. The regular price with charger is \$28,999.99.

One area where Greenworks has differed from most of its competitors is its vertical integration of battery assembly. "We don't manufacture the actual cells; however, we pack them, which allows for very safe and accountable managing of batteries," says Kvarby. "There have been dramatic events with fires due to battery technology. Our batteries are 100 percent safe."

Visit the Greenworks Commercial website for online purchases or to locate your nearest dealer.

Contact: FARM SHOW Followup, Greenworks Commercial (ph 855-470-4267; customerus@greenworksccommercial.com; www.greenworksccommercial.com).

More Ideas From Vern Desotell

Vern Desotell of Clarissa, Minn., has displayed his inventive ideas and handy tips for FARM SHOW readers in previous issues.

He recently shared a couple more ideas he hopes might be useful for readers.

Tractor Drawbar Securement

"I noticed on my Massey Ferguson 2625 tractor that there were round holes on either side of the drawbar above the hitch," he says. "An idea came to me about running a shaft through them rather than using the normal pins to secure the drawbar."

He slid a 1-in. metal shaft with an L-shaped handle on one end through the holes and welded 2 1/2-in. metal flaps to it that swivel down beside the drawbar.

"It makes it easy to hook up to something as you don't have to be exact in backing up," Desotell says. "You just turn the flaps up, hook up the implement, drive away, and the flaps drop back down, locking the drawbar into position."

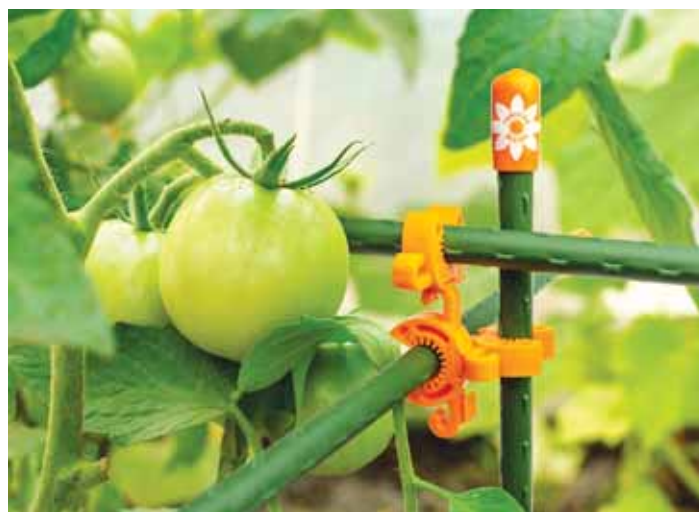


Cattle Tub Made Of Grain Bin Panels



"I built my gate first, then started from the center post welding the braces and upright bars out to the circumference," he says. "Then, I used two layers of rounded grain bin panels for the half circle of the cattle tub portion. On the top of the panels, I bolted a curved angle iron, so it wasn't too sharp. Along the inside, I bolted on small angle irons to catch the spring-loaded gate handle as it closed."

Contact: FARM SHOW Followup, Vern Desotell, 39825 225th Ave., Clarissa, Minn. 56440.



Made of a quality polymer with minimal UV resistance, the colors fade, but the clips are designed to last for years.

Clips Support Garden Plants & More

You'll like these "Tinkertoys for the garden" C-BITE clips that can be used to build support systems and cages. They also work with trellises, fencing, netting, and shade cloth and hold plants as they grow.

In searching for something better to hold up his plants, Jason Rider came up with the idea in 2014. He used a 3D printer to make prototypes. By 2019 the C-BITE was officially patented. In 2020, his sister Morgan Rider partnered with him to start a company called Thriving Design. C-BITE is available at garden and home centers across the U.S.

"C-BITEs connect in 140 different ways," she says. "They're unique because they're built strong like copper, yet flexible."

Simply push the center to attach them to stakes. Remove them by pushing on the hooks on both ends. Hooks, slots, and holes allow them to be connected at different angles and work with netting, string, and ties to secure plants.

"With C-BITEs, you can build the support and protection around the plant. As plants grow you can slide the C-BITE up," Rider says.

Farmers and ranchers use them for temporary fencing, and C-BITEs work well in vineyards and industrial ag businesses.

Made of a quality polymer, the colors can fade but the clips are designed to last for years. They come in two sizes: 5/16 in. and 7/16 in. They'll work on 1/2-in. stakes, but Rider noted the surface should be textured as the clips will slide around on smooth pipes such as conduit.

Bags of 26 sell for \$9.99 at garden and home centers all over the U.S. They come in tangerine, dark green, and lime colors.

Contact: FARM SHOW Followup, Thriving Design, 328 S. Link Lane, Suite 16, Fort Collins, Colo. 80524 (ph 503-726-6376; ohsnap@thrivingdesign.com; www.thrivingdesign.com).