



Each 13-in. dia. roller mounts independently with an air spring that provides down pressure.

New-Style Seedbed Roller Comes In Big Widths

Rolling small grain fields used to be common practice across the Midwest – and still is in many areas of North America – but you never used to see rollers on corn and soybean fields. That's been changing over the past few years as the benefits of smooth seedbeds – better germination, easier on equipment, and more efficient harvesting – have become clear.

The problem is that the field rollers on the market haven't been updated in decades, according to Environmental Tillage Systems (ETS), the company founded by farm inventor Mark Bauer, who created the Soil Warrior tillage system and the new Seed Warrior planter. ETS recently introduced a new high-speed roller system with rugged

13-in. dia., 3/8-in. thick steel rollers mounted on air springs that let the machine travel at speeds up to 20 mph, depending on field conditions.

Rollers come in lengths of 5 ft. 4 in., or 7 ft. Each roller mounts on an independent bolster with parallel linkage and a pneumatic spring.

Rollers can be mounted on any 7 by 7-in. toolbar as long as it meets strength specifications. However, the company recommends mounting the rollers on an ETS "Cart" which has a rugged frame, 3 3/8-in. spindles with a 10-bolt heavy-duty hub, and 385/65R22.5 or 425/65R22.5 truck tires. The folding toolbar can be configured for 28 or 42-ft.



Roller folds to 14 ft. for road transport.

By Lorn Manthey

High-Speed Precision Planter

Minnesota farm inventor and entrepreneur Mark Bauer, who created the amazing Soil Warrior tillage machine a few years ago and then founded a booming farm equipment business, recently introduced the "Seed Warrior – a first-of-its-kind high-speed precision planting and fertilizing system.

The Seed Warrior consists of a 7,500-lb./150-bag capacity steel seed tank and a 1,250 gallon liquid fertilizer tank. You can mount any standard planter unit on the Seed Warrior toolbar. A 40-ft. toolbar can handle 16-30-in. or 24-20-in. row units. On the 60-ft. bar can handle 24-30-in. or 36-20-in. row units. Toolbars lift, tilt and fold so the machine has a transport width of 16 ft., 4 in. The Seed Warrior cart is made of reinforced tubular steel and rides on rugged heavy-duty spindles and dual wheels, with either 420/90R30 or 540/65R30 tires.

Advanced steering technology is built

into the Seed Warrior cart design, providing sub-inch accuracy from precision guidance for excellent control during planting. Seed is metered with a precise electric-over-hydraulic controller for pinpoint seed population and spacing accuracy. The controller is compatible with most commercial monitors and is warranted for five years. Fertilizer is delivered through a hydraulic pump, with air-controlled shutoff valves on each row unit. Uniform seeding depth in all types of conditions is achieved with active hydraulic down pressure on the toolbar and wings. On the 60-ft. bar, gauge wheels allow the wings to flex and articulate according to field contour.

Contact: FARM SHOW Followup, Environmental Tillage Systems (ETS), 85 Prairie Avenue, Faribault, Minnesota (ph 507 332-2231; www.soilwarrior.com).

widths, with each size folding to 14 ft. for road transport.

"Unlike large diameter rollers that can drag soil and provide uneven firming as bridging occurs in irregular areas of a field, the ETS Roller System has shorter and smaller rollers that flex and articulate and follow all types of terrain," says Brian Berdan at ETS.

"Each roller section moves independently and is mounted on 1 1/4-in. case-hardened pivot pins with up to 18 in. of vertical travel. Uniform down pressure is sent to each roller linkage through a pneumatic spring, with pressure adjustable from the tractor cab. Rollers automatically adjust to the contour of the field without over-compressing a high

spot in the roller width," Berdan adds.

The combination of air springs, bolster design and the smaller rollers is what makes high speeds possible. "Each roller is held down independently," Berdan says, "so high-speed operation is really smooth. Plus, operators can also make tight headland turns without lifting the machine. That saves time, allows a farmer to cover more acres, and minimizes fuel and labor costs."

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Seed Warrior consists of a 7,500-lb. tank with a 1,250-gal. fertilizer tank.



Active hydraulic down pressure provides uniform depth control in varying field conditions.

"Straight Up" Post Puller

"It works faster than any other post puller on the market. It allows you to pull T-posts straight up out of the ground without having to bend over and without damaging the post," says Bob Anderson, Construction Accessories, Inc., Waynesville, Ohio.

The JackJaw T-Post Extractor is made from heavy gauge steel plate and tubing, with a base plate welded onto the bottom. It works on T-posts, round electric fence posts, and any other stake or pole up to 1 in. thick.

The unit works like a ratchet on a jack, except that it grabs the post using a pair of cam-shaped, case hardened steel jaws. The jaws, which are free to slide up or down, are connected by link arms to the handle. When the handle is raised, the jaws are in the open position.

The operator uses his foot to push the base plate up against the post with the jaws on either side of the long edge of the post. When he pushes down on the handle, the jaws clamp onto the post and raise the T-post a few inches out of the ground. When he raises the handle, the jaws release their grip and slide back down to a lower point on the post.

"You're pulling the post straight up out of the ground exactly opposite the way it went into the ground, which is the easiest way to pull a post," says Anderson. "Most other post pullers on the market pull the post out on an arc, so you're trying to push the post sideways through the ground which results in wasted energy."

The JackJaw's design results in tremendous

leverage, says Anderson. "The mechanism gives the operator a 9:1 mechanical advantage. As a result, a 50-lb. push down on the handle creates a 450-lb. lift on the T-post."

"The jaws have laser-cut, serrated teeth cut onto them so they grab the post really tight. And they're made from a special hard metal AR400, heat-treated, abrasion resistant steel so they won't wear down," he adds.

The JackJaw 200 sells for \$195 plus S&H.

Contact: FARM SHOW Followup, Construction Accessories, Inc., 3880 Haines Road, Waynesville, Ohio 45068 (ph 937 429-9089; fax 937 427-4653; bob@jackjaw.com or sales@constructionaccessories.com; www.jackjaw.com).



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