



"It handles essential farm tasks at a much lower cost than traditional tractors," explains Vishwanath, highlighting the Quad Bike's efficiency and affordability.

Groundbreaking Quad Bike Offers Hope To Small Farmers

Farmland Industries, an urban-based startup, is breaking new ground in Indian agriculture by introducing the first 4-WD Quad Bike designed for small and marginal farmers.

"In 2015, I completed my engineering studies, and I questioned why I should look at big companies for jobs when I could build a company of my own," says Farmland Industries founder Vishwanath K. S. "I'd already created three-wheeler bikes for the army and films that were covered in the media, so I made up my mind to build a Quad Bike for agricultural purposes and small farmers who were unable to afford expensive tractors."

Developed by Vishwanath, the innovation is designed to ease labor shortages by making fertilizer and manure applications more convenient. The 7-hp Quad Bike features a detachable trolley that can carry about 1,100 lbs. of material. Optional equipment also includes a shredder, digger and sprayer.

One of the most impressive aspects of the bike is its user-friendly design. The accessories are intuitive, so even unskilled labor can operate them, reducing reliance on specialists and making the machine practical for time-sensitive farm operations.

Vishwanath explains that bringing the

product to market was not without challenges.

"At first, I borrowed money from my friends and parents," he says. "Later, I started taking money from customers as an advance, then manufactured and sold the bikes."

Unlike bulky tractors and tillers that struggle to maneuver in tight spaces, the small bike is agile enough to reach the farthest corners of the plantation and perform all necessary tasks.

"It handles essential farm tasks at a much lower cost than traditional tractors," explains Vishwanath, highlighting the Quad Bike's efficiency and affordability.

Over the past four years, Farmland Industries has sold more than 100 units to small farmers across the state, with approximately 40 vehicles sold last year. Vishwanath plans to establish production units in tier-2 and tier-3 cities, a move that will not only scale up manufacturing but also create much-needed employment opportunities for local communities.

Contact: FARM SHOW Followup, Farmland Industries (ph +91 9481211092; farmlandindustries007@gmail.com; www.farmlandindustries.in).



"You should see the looks I get from people passing by when I have the ATV hooked on behind the combine," says Mueller.

Tow Bar Keeps ATV Close By

Farming by himself, Scott Mueller keeps his ATV handy for emergency trips home from the field. The tow bar he fabricated allows the ATV to follow the planter, combine and other field equipment.

"I used to throw a bike on field equipment and ride it back and forth," says Mueller. "Now I always have the ATV with me. I just park it in a ditch or off the side of the field I'm working. If I have a breakdown, I have a way home."

It's been close to 15 years since Mueller rigged it up. He fashioned a bracket to attach to the ATV's frame. It extends just past the front of the ATV. The tow bar pins to the bracket, allowing it to pivot 90 degrees. When not in use, Mueller simply hooks it vertically with a bungee cord to the front rack on the ATV.

"I have a windshield on the ATV for bad weather, so I needed more length for turning when pulling the ATV behind a combine or forage harvester," says Mueller. "I designed the tow bar to telescope up to 2 ft. when hooking it to those machines."

He used 2-in. square tubing for the back half of the tongue and 1 1/2-in. square tubing for the front half. He drilled a few holes and pinned the two halves together with a standard hitch pin. The clevis hitch at the end of the tongue rotates, allowing the tow bar to articulate over rough ground.

"You should see the looks I get from people passing by when I have it hooked on behind the combine," says Mueller.

Contact: FARM SHOW Followup, Scott Mueller, Chippewa Falls, Wis.



Unlike an auger, this system uses a true probe to produce cleaner, more consistent cores.

Hydraulic Soil Sampler Made For Tough Soil Conditions

Healthy crops start below the surface, but accurate soil sampling remains a challenge for growers balancing time, cost and tough field conditions.

To address these issues, WintexAgro developed a series of portable soil samplers, beginning with the basic 1000 model and including three larger models: 1000s, 2000 and 3000. These samplers use a hydraulic system to drive their probes vertically into the ground, while probe rotation is powered electrically. Unlike an auger, this system uses a true probe to produce cleaner, more consistent cores.

"As the probe enters the soil, it rotates continuously, allowing it to cut through the soil rather than forcing its way down like a traditional hand probe," says WintexAgro U.S. Manager Josh Grimm. "Because of this design, excessively muddy conditions are never an issue for the machine."

When the probe is extracted, an injector rod travels through the center to clean it, eliminating the need for brushing or oiling. The rotating action also enables the sampler to perform well in harder, more compacted soils and to penetrate light frost.

The larger models are equipped with hydraulic hammers for deeper sampling in even heavier compaction and more severely frozen ground. They're ideal for nitrate sampling or for challenging conditions at depths of 2 to

3 ft. In some cases, they can even penetrate concrete.

Samples are typically collected as 8 to 10 cores and deposited into a stainless-steel soil container. This fits directly into a standard lab bag, making it easy to transfer samples for shipment and analysis.

All models can be mounted on ATVs, UTVs, Jeeps or trucks. Mounting brackets and all necessary hardware are included, making the units ready to install and use.

The samplers are widely used by Extension Services, universities, researchers, soil-testing labs, consultants and farmers, all of whom value their speed and consistency compared with manual probes.

"Once operators switch from hand probing, there's no going back," Grimm says.

The WintexAgro hydraulic components are manufactured in Iowa, and the samplers are manufactured in Denmark. All models are available across North America.

The complete setup for the 1000 model starts at approximately \$10,000, with larger models priced higher based on capabilities and configuration.

Contact: FARM SHOW Followup, WintexAgro U.S., 151 N. Long St., Bancroft, Iowa 50517 (ph 515-885-0330; support@wintexagrousa.com; www.wintexagrousa.com).

Precision Irrigation Saves Water And Money

The new Electrogator 3 (E3) center pivot system from Reinke promises to use water and fertilizer more efficiently. Greater uniformity means the crop gets exactly what it needs, not more, not less. The goal is to reduce inputs and increase outputs.

"The E3 is the first truly precision irrigation system," says Ken Goodall of Reinke. "It features advanced nozzles and spacing systems with 98% uniformity, eliminating water and fertilizer waste."

He adds that the E3 is the first center pivot system that encompasses all span links with consistent coupler spacing from the beginning of the machine to the end. It's available in 30 or 60-in. intervals in 20-ft. increments from 80-ft. to 220-ft. systems.

"This provides uniform application across the entire field," says Goodall. "In the past, we depended on overlap from two sprinklers on either side. With E3, we get better uniformity with fewer devices and avoid heavy applications of water in wheel tracks."

In addition to spacing and more precise sprinkler placement, the E3 features extra trussing with ReinLock. ReinLock uses an anti-racking, 5-pt. hub with a single bolt,



"With E3, we get better uniformity with fewer devices and avoid heavy applications of water in wheel tracks," says Goodall.

maintaining a consistent span crown with optimum retention and stress transfer.

"The Electrogator has always been a strong machine, with a wider base more resistant to tipping over," says Goodall. "With the new ReinLock trussing system, it's much stronger."

Other features include maintenance-free bearings and a multi-directional pivot flex joint.

Contact: FARM SHOW Followup, Reinke, P.O. Box 566, Deshler, Neb. 68340 (ph 402-365-7251; irrigation@reinke.com; www.reinke.com).