

Wholegood Manufacturers of Electric Farm Machinery, Spring 2022

Manufacturer Name	Headquarters	Type of Equipment	Application
AGCO	Duluth, Ga.	AGCO Xaver Battery-Powered Autonomous Row Unit	Prototype electric single row autonomous planter unit
AgXeed	Oirlo, Netherlands	Autonomous Hybrid AgBot	Autonomous modular field robot with diesel-electric drive up to 156 hp used for "range of tasks"
Alkè	Padova, Veneto, Italy	ATX Electric Farm Utility Vehicles	Maximum load capacity of 3,594 pounds and towing capacity of 9,920 pounds. Several models available with batteries capable of driving up to 124, 118, 42 and 40 miles on a charge
Amos Power	Cedar Falls, Iowa	A3 and A4 electric tractors up to 85 hp.	The A3 is capable of autonomously interseeding cover crops, mowing, spraying and tilling vineyards.. The A4 is idea for row-crop applications and to fit diesel-powered compact utility tractors. Both units offer 4-8-hour runtimes with recharges of 2 hours or less.
AutoNxt Automation Pvt. Ltd.	Kalher, Purna, Bhiwandi, Maharashtra, India	Hulk Autonomous Electric Tractor	Autonomous compact tractor with a fully electric drivetrain designed to handle plowing, tilling, discing and spraying
Belarus (MTZ)	Minsk, Belarus	3523i Autonomous Tractor	Prototype autonomous and cables diesel-electric tractor
Bobcat	West Fargo, ND	T7X Electric Compact Track Loader	Fully electric loader with 62kW lithium ion battery with all-electric attachments in development, including electric-powered auger, angle broom and grapple
Cellectial E-Mobility	Gachibowli, Hyderabad, India	e-Tractors	Electric tractors available in 27, 35 and 55 hp equivalents
CNH Industrial	Racine, Wis.	1. New Holland Concept Fuel Cell Hydrogen Electric Tractor 2. STEYR Konzept Hybrid Tractor	1. Pulling power comparable to that of a standard 120 hp tractor 2. Concept tractor with combustion engine, generator and several electric motors
Cub Cadet	Cleveland, Ohio	1. ZT1 42E Electric Zero-Turn Mower 2. XT1 Electric Lawn Tractor 3. CC30E Electric Mini Riding Mower	1. Zero-turn mower with battery that can mow up to 2 acres on a single charge 2. Lawn tractor with battery that can mow up to 2 acres on a single charge 3. Small riding mower that can mow up to 1 acre on a single charge
Deutz	Norcross, Ga.	1. Full Electric JLG Concept 2. DEUTZ TCD 5.2 EC Electric Hybrid Drive	1. Concept all-electric JLG telescopic handler uses a 360V drive system 2. 4-cylinder diesel engine with 5.2-liter capacity and 48V electric motor
Dixie Chopper	Coatesville, Ind.	Raven Electric Zero-Turn Concept Mower	Initial concept mower with 58-volt design utilizing Smartec components for deck motors, drive motors, controllers and battery packs
Ecofactor	Odesa, Odessa Oblast, Ukraine	Tractor Electro 2.0	35-hp electric tractor that can run for 8 hours on one charge and carry up to 2 tons in weight
EGO	Newman, Ga.	Power+ 42" Z6 Zero Turn Riding Mower	22-hp equivalent electric zero-turn mower that can cut up to 2 acres per charge
Farmtrac (Owned by Escorts Limited)	Faridabad, Haryana, India (Escorts headquarters)	Farmtrac 25 Electric Tractor	Compact tractor with 21kW battery
Fendt (AGCO)	Duluth, Ga.	Fendt e100 Vario Tractor	65-hp equivalent tractor compatible with electric and conventional implements
Gehl	West Bend, Wis.	165E electric skid steer	Electric skid loader with 1,650-pound load capacity that runs on a 48-volt lithium-ion battery with an 8-hour run time
Gravelly (Owned by Ariens Co.)	Brillion, Wis. (Ariens headquarters)	Pro-Turn EV	Electric zero-turn commercial lawn mower with 4 swappable batteries
Greenworks	Moorseville, N.C.	1. Professional Stand-On Zero Turn Mowers 2. Ride-On Zero Turn Mowers 3. CrossoverT Tractor 4. Utility Vehicles	1. Stand-on mowers with several deck sizes capable of mowing 14 acres on one charge 2. Ride-on mowers with several deck sizes capable of mowing up to 12 or 14 acres per charge, depending on model 3. Lawn tractor with 42-inch deck capable of cutting up to 2.5 acres per charge 4. Utility vehicles with 330 and 500 pound cargo capacities, towing capacities of 1,250 and 1,500 pounds, and 40, 65 and 75 miles of driving on one charge
Hisun	McKinney, Texas	Sector E1	27-hp equivalent utility vehicle that runs over 45 miles on a single charge
Honda	Torrance, Calif.	Honda Autonomous Work Vehicle	Prototype autonomous vehicle used on construction site for towing and transporting
Hummingbird	Livermore, Calif.	E Tractor	65-hp equivalent electric tractor with 1-hour charge time and vehicle-to-vehicle charging available
Huster Turf (Owned by Excel Industries)	Hesston, Kan.	Zevo Zero-Turn Mower	All-electric compact sit-down mower for single-yard use
JCB	Savannah, Ga.	EV Telehandlers	EV available on most smaller telehandlers

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John Deere	Moline, Ill.	1. SESAM Electric Tractor 2. Electric Variable Transmission	1. Prototype tractor with maximum of 400 hp output 2. Available for all model year 2023 410 hp 8 Series Tractors
First Green Industries (formerly Kovaco Electric)	Based in Vel'ká Lehota, Slovakia	Elise 900 All-Electric Skid Steer Loader	400 amp-hour battery and compatibility with more than 75 quick-attach loader tools
Kubota	Grapevine, Texas	Prototype Electric Tractor	Battery-powered compact tractor for weeding in parks, transportation, fertilizer application, etc.
Mean Green Electric Mowers	Hamilton, Ohio	1. EVO Riding Zero-Turn Mower 2. RIVAL Riding Zero-Turn Mower 3. VANQUISH Stand-On Zero-Turn Mower	1. Machine for large-area operators with up to 8 hours of continuous mowing time with power comparable to a 37-hp diesel motor 2. Commercial electric mower with up to 7 hours of continuous mowing and power comparable to a 36-hp gas mower 3. Runs for up to 7 hours continuously and has power comparable to a 36-hp gas engine
Monarch Tractor	Livermore, Calif.	MK-V Electric Tractor	70-hp equivalent peak electric tractor
Motivo	Gardena, Calif.	HARVEST Electric Tractor	Called a mobile power delivery system, this electric compact tractor designed for use in developing countries can power farming implements and homes. The on-board battery stores energy from solar, wind and electric grids. It can be rented, tracked and updated via a cellular network.
Naïo	Midi-Pyrenees, France	1. Ted Autonomous Robot 2. Dino Autonomous Robot	1. Autonomous electric robot for weeding vineyards 2. Autonomous electric robot for weeding among vegetables
Polaris	Medina, Minn.	Ranger EV Electric Utility Vehicle	Two-seat UV with box capacity of 500 pounds, towing capacity of 1,500 pounds and up to 45 miles of driving on one charge
Rigitrac	Küssnacht, Switzerland	SKE 50 Electric Tractor, SKE 40 Electric Tractor (available in production for 2023)	The SKE 50 reportedly runs 5 hours on a single charge of the 80kWh lithium-iron battery. The Swiss manufacturer has told Farm Equipment it is releasing its another model, the SKE 40, for mass production and sales in 2023.
Ryobi (owned by Techtronic who also own Milwaukee Tool)	Fort Lauderdale, Fla.	1. Zero-Turn Electric Riding Mowers 2. Electric Riding Mowers	1. Electric zero-turn mowers available with 115 AH, 100 AH and 75 AH batteries 2. Electric mowers with 3 battery options capable of cutting 2, 1.5 and 1 hour
SABI-AGRI	Saint Beazire, France	ALPO Wine-Growing Straddle Electric Tractor	4WD electric tractor with 50 horsepower electric motor for orchard and vineyards capable of soil work and vine maintenance
Salin 247	Ames, Iowa	Autonomous electric planter	Developing and testing an autonomous electric no-till planter
Scag	Mayville, Wis.	EVZ electric-powered zero-turn riding mower	EVZ is powered by a Vanguard 48V 5kWh Lithium-Ion commercial battery pack
Siloking	Tittmoning, Germany	eTruck TMR Mixer	Self-propelled mixer with all-electric traction and mixing unit drive
Solectrac	Santa Rosa, Calif.	1. e25 Compact Electric Tractor 2. eUtility Electric Utility Tractor 3. e70N Narrow Vineyard/ Orchard Tractor	1. 4WD, 25-hp equivalent compact tractor 2. 40 hp category utility tractor for livestock operations, equestrian centers and utility work 3. 70 hp equivalent narrow electric tractor for vineyards and orchards
Sonalika	Hoshiarpur, India	Tiger Electric Tractor	11-kW lawn-size tractor with 15 mile per hour top speed
Toro	Bloomington, Minn.	Revolution Series battery-powered lawn mowers for landscapers	Standing and riding lawn mowers ranging from 48-60 inches powered by Toro's HyperCell Battery System with run times of up to 9 hours
Tracker Off Road	Thief River Falls, Minn.	Tracker EV Electric Utility Vehicle	72-volt electric motor powers this two-seat utility vehicle with 400-pound cargo deck capacity and towing capacity of 1,000 pounds
Yanmar	Adairsville, Ga.	Smart Machine for Agricultural Solutions Hightech (SMASH)	Prototype modular robotic platform with 8 electric motors used to examine crops and soils, analyze gathered information and provide data for crop management
Ztractor	Palo Alto, Calif.	Bearcub 24 Robot	Autonomous electric tractor robot capable of collecting real-time agricultural data using sensors, cameras and measuring equipment. Ideal for vegetables, berries and grapes