

F&RC



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Vol. 29 No. 1, 2021

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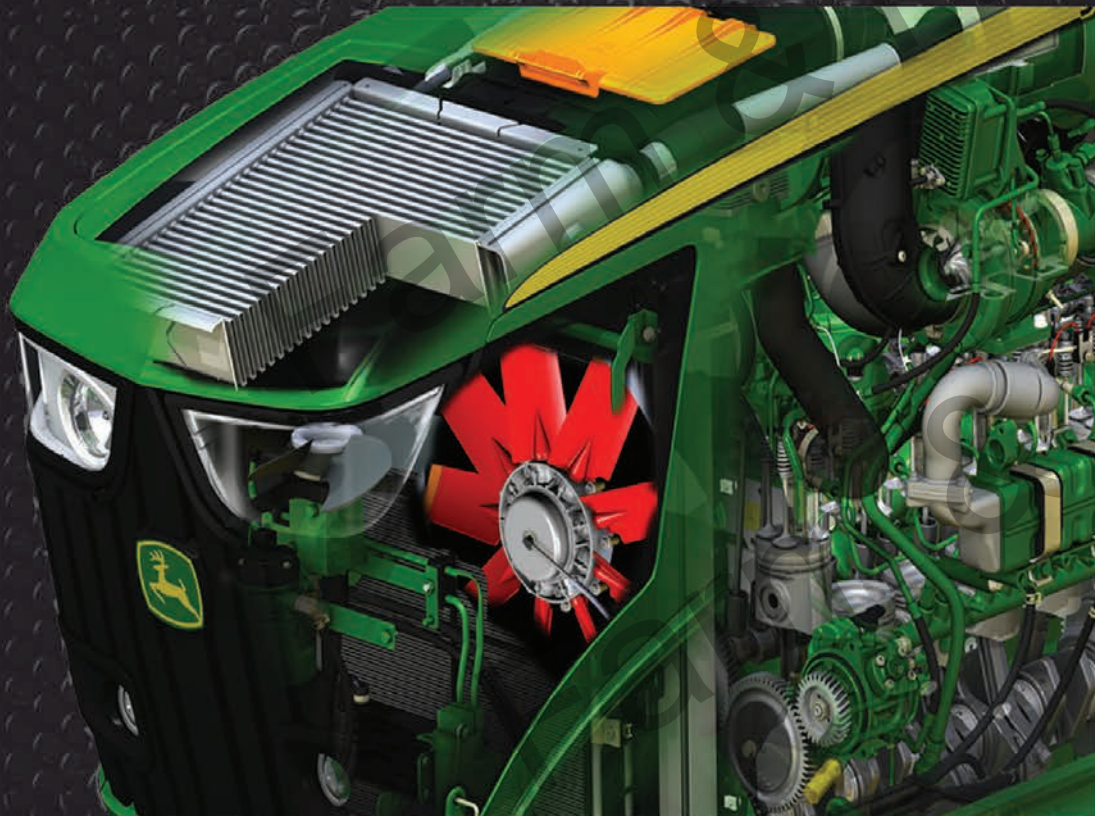
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Fencing Calculator

The Fence Calculator provides an estimate to help improve planning and buying decisions.

When it comes to designing and building an appropriate electric fence there are usually two important questions to start with.

1) What are you fencing in?

Or

2) What are you fencing out?

Fencing for the first time, or not sure where to start with changing existing fencing can feel overwhelming. The Fence Calculator provides an estimate to help improve planning and buying decisions. Making it easier to envision, and faster to implement for your fencing needs.

Calculate what works for you.

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www.jagproductsinc.com ◆ 612-802-9510



Fencing in or fencing out?

Something to ask yourself as you plan for the season.

Anyone fencing for the first time learns quickly that shortcuts don't work, skimping on ground rods, or not fencing to the needs of the livestock, will eventually circle back around. But not in a fun way.

Spring is the absolute perfect time to perfect your fencing savvy. I advise customers to think about what are hoping to accomplish with fencing. Are you fencing to keep livestock in? Or are you fencing to keep predators or other livestock out?

With the grassfed initiatives growing in popularity, even among chicken and turkey farmers fencing is just as important as the type of feed you plan to buy. It's essentially critical.

Performing preventative maintenance tightening sagging wire, clearing overgrowth, or in my case, down tree branches from the heavy woods. Or maybe its time to change things around to capitalize on better pasture management for rotational grazing.

When we developed the Fencing Calculator, it was for that purpose in mind. A useful tool to help the new to livestock owners fencing for the first time, through experienced cattle producers and horse owners who just need to do some annual repairs. Electric Fencing should always be part of the farm and ranch budgeting discussions so that you have that factored into your overall expenditures.

Developing a plan for preventative maintenance will help to ensure the electric fence system you are using continues to function properly.

The JAG Products, Inc. Fencing Calculator coupled with our unique variety of electric fence

insulators will help you plan for and build the type of electric fence you are needing. The Calculator is designed to be used with your inputs. Along with industry suggestions. Keeping it simple and easy.

Choosing the correct insulator will also help you maintain the integrity of your fence. Insulators are one of the most important accessories for any electric fence system.

The JAG Products, Inc. insulators are all manufactured in Minnesota, and are made with engineering grade plastic with colors guaranteed not to fade.

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- Wood Post Insulator that uses screws versus nails for faster install and easier removal on round wood posts or plank boards.
- GLOW insulator that is designed to absorb light by day and glow a soft neon green at night for improved visibility.

The best part about spring fencing, it's a time to renew and refresh so you can spend your summer and fall enjoying the seasons knowing your livestock are where they should be. Behind the fence and not beyond.

HAPPY SPRING!

Kelly Vaughan
Owner, JAG Products, Inc.
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"I really like my Bale Carrier/Feeder. It pulls nice and handles well. It doesn't waste much hay. Everybody that has seen it is impressed. I wish I had a couple more; it's just fabulous!" - **J.T., Austin, TX**

"Hauling & feeding round bales with the CF890 saves hay & makes my job much easier. I'm going to replace my portable bunk feeders." - **W.W., Glen Haven, WI**

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302	2	78	12'4"
500	0.75	30	7'4"
501	1.8	71	10'
502	2.8	112	12'8"
503	3.8	152	15'4"
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701	8	311	16'11"
702	10	389	19'6"
703	12	452	22'1"
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I have tested my lights for radio interference and found none, Both Am & Fm channels came in fine.

In some cases there is interference with the am-fm band, in that case moving the HID lights away from the radio and antenna might help. A different antenna and cable might do the trick, or changing the radio if the model has poor shielding.

We have tried the Greenstar GPS system and Trimble GPS systems while the lights were on, and they did not interfere.

Spare Parts ?? The life time on a Hid light bulb is expected to be in the 2500 - 3000 hour range. So you might never need a part

! Other factories might change the life time, like numbers of on/off cycles.

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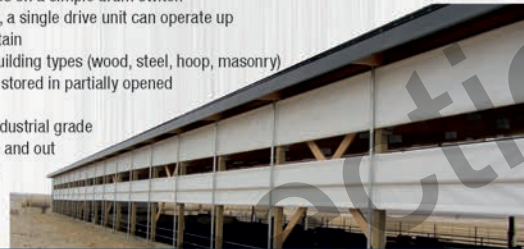


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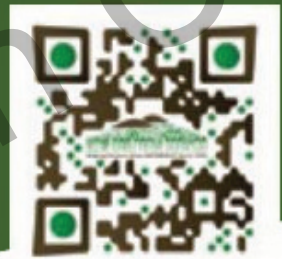
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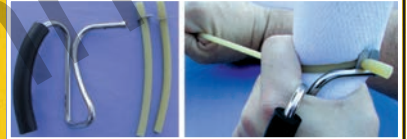
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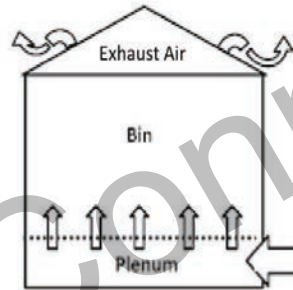
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ning the fans under the right conditions will not only prevent spoilage in the bin, it will also save electricity costs. When you deliver grain at market moisture from your bins you will receive a better price with less dockage for your grain.

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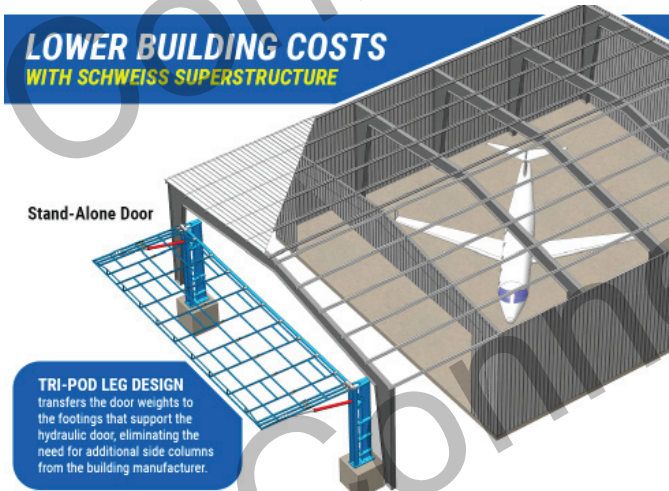
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Schweiss Doors introduces Superstructure, Triple-Leg Stand-Alone Hydraulic Door Design

The new Superstructure Triple-Leg Stand-Alone Door design from Schweiss Doors is truly one of a kind. This trailblazing tripod leg design transfers the door weight to the footings that support the hydraulic door, eliminating the need for additional side columns from the building manufacturer, offering a significant building cost reduction.

The hydraulic door and framework are designed to help support the building structure. It's a free-standing door

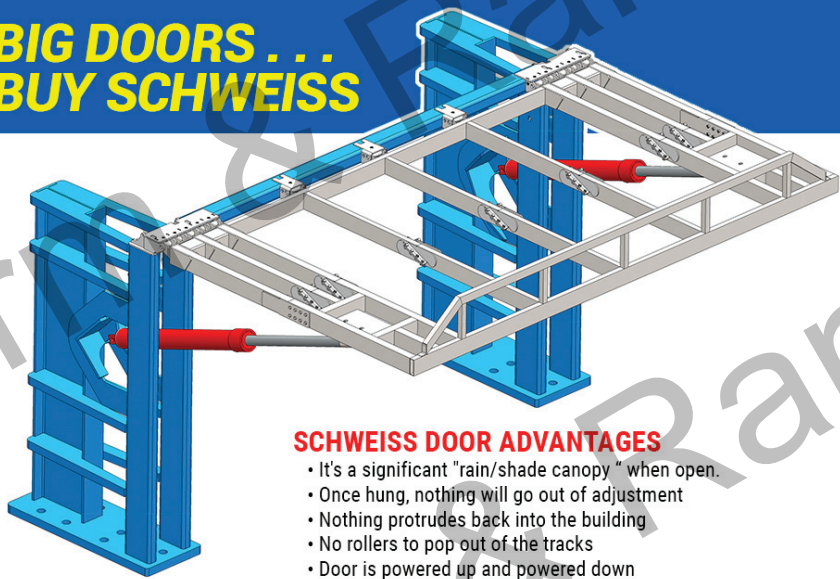


that has its own superstructure framework attached and can be added to a new or existing building. The doorframe mounts on the new Triple-Leg Stand-Alone, self-supported doorframe, eliminating the need for the building manufacturer to incorporate a building truss or building header to support the hydraulic door.

The new Superstructure Triple-Leg Stand-Alone Door comes pre-assembled, pre-welded and pre-hung from the factory within a pre-squared frame, saving hours of installation time and vastly simplifying the installation process.

Each door comes with Schweiss' acclaimed support after the sale, with technical assistance at the ready to ensure proper installation and complete satisfaction.

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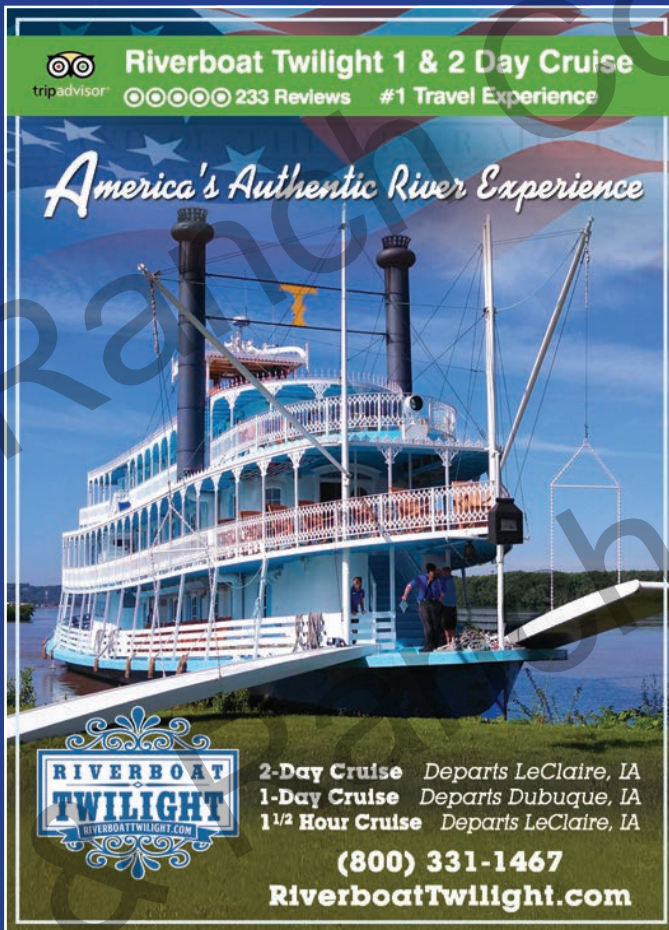


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Mark Twain knew, not the one from our school geography books.

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WAIKATO GOAT MILKING SYSTEM

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Chèvre is French cheese made from goat's milk and the craft has been part of the Fossard family's DNA for generations.

It started many years ago in the South Deux-Chèvres in the Poitou area in France when the family had goats on their farm to make their own cheese in a perforated pottery form called Faisselle.

"My grandfather used to take his milk cans with a wagon pulled by a horse to the nearby dairy of Bougon and my dad started his cheese maker career at the Soignon cheese factory," Jean Fossard said.

Jean is now a fourth generation cheese maker and a well-known identity in the industry.

He and his wife moved to the US in 1989, to Grant County in the town of Preston.

In the same year Jean and a business partner started Montchevre which is now the leading goat cheese brand in the US.

He stepped down from the business now located in Belmont, Wisconsin, in 2018 but wasn't quite ready to retire.

So he was happy when his son Simon became interested in raising dairy goats, it was a chance for Jean to pass on his knowledge to the next generation and keep working in the industry.

Jean and his sons, Simon and Julien, set out on a venture which would lead to establishing a new dairy, The Laughing Goat, in 2019.

They started on a farm lease with 400 animals near Darlington WI where Simon trained from 2018.

About a year later the family decided to set up their own dairy, near their home by Belmont in Lafayette County WI.

They spent a year looking for the ideal goat rotary, reviewing the options with several dairy dealers, visiting milking plants in the US, Canada and France.

"We decided to go with the Waikato Milking Systems goat rotary parlor to replace our 2 x 16 rapid exit stanchions and an archaic feed system," Jean said.

"Our goal was to find a simple milking and feeding system, with technology, built using high quality materials to resist a harsh farm environment and of course to be animal friendly."

The Waikato Milking System rotary satisfied most of their requirements. Plus, the company's midwest team was in Verona, WI, about one hour from the farm.

"We knew that if we needed an urgent service repair or to obtain critical replacement parts, we could do that right away."

The family was impressed with the rotary design and its lightweight composite deck.

They liked that the inflators, pulsators, vacuum lines, milk pipeline were accessible outside and inside the rotary.

The family began to set up Laughing Goat in the fall of 2019. The rotary was ordered in August and it was delivered from New Zealand just before the pandemic hit in March 2020.

The family moved to the new farm on April 16, 2020 and worked with local contractors and the Waikato Milking Systems to assemble the parlor, which was commissioned in June 2020.

Jean said the rotary is easy to operate and safe to use with just two people, one to take care of the milking and the other to move the animals around and to take care of post-dipping.

The platform operates with a simple switch to put it into milking or cleaning mode. Another switch controls the platform speed or rotation per minute.

In March, Jean said the plant was milking about 300 goats, with another 90 to freshen.

"The rotary is set at 7.5 minutes per rotation which is capable of milking about 480 goats per hour."

The rotary would allow the farm to increase to 1000 milking goats in the near future.

Milking is twice a day and the farm supplies to Supato.

Jean pointed out the rotary's quick stop and start feature. The operator can pull on a blue line above their head for a quick stop and quick start.

The red line can be pulled for an emergency stop which needs to be cleared and reset on the control panel to resume milking.

The goat rotary also features an automatic cluster presentation arm unique to Waikato Milking Systems.

It automatically returns the cluster to the platform height, ready for cupping, so the operator does not have to constantly bend over to reach for the clusters.

"The automatic detach is also a good option which saves a lot of walking around the rotary."

The only challenge setting up the rotary was learning how to use the dairy management software.

The family worked with their local Waikato Milking Systems representative from Belmont, and with the company's technicians in New Zealand via audio-visual, to calibrate, create groups and manage the feed system.

"It is a great tool to manage, schedule the amount of feed and feed choice that needs to be dropped per animal, per day in a selected group (lactate, dry or freshen group)."

The feed weights can also be automatically increased or decreased per goat in a group through the year on a weekly basis.

"The feed weight control is definitely a saving factor knowing the high feed price per ton and a way to be sure each goat is getting the right amount of feed."

Jean said the dairy management software has other

useful features like milk volume data per animal and per milking, animal alerts and animal health history.

The rotary plant is designed so additional technology can be added later on and Jean said future additions could include a pre and post dip system to keep the Somatic cell and bacteria count under control.

"But we definitely think the Waikato Milking Systems goat rotary parlor and feeding system were the right choice for our farm."



PowerLift Hydraulic Doors

Rick Peterson, along with his wife Patti, own PowerLift Hydraulic Doors. Their company operates on a simple philosophy: value & commitment to the customers, families, employees and company reputations.

In 1988, Rick started a welding repair shop in Lake Benton, MN which is located in the southwestern corner near South Dakota border. In 1992, he built the first commercial hydraulic door in Minnesota for a farmer who wanted a door that was easier to operate and Rick believed a one-piece door would provide him with the ease of use he was looking for. When you explore all the advantages and values that a PowerLift Hydraulic Door provides, it is no wonder that the business has expanded past the small Minnesota community.

In 2008, the Petersons built a new shop and moved production from their small shop in downtown Lake Benton to the new shop - located about 1 mile east of Lake Benton on US HWY 14. The new facility enabled Rick & Patti to better meet the needs of the growing customer base. Eventually they realized that even the new shop would not allow the company to service all the door requests being received. At this point they decided that the best option was to collaborate with other manufacturing facilities to build, deliver, install and service PowerLift Hydraulic Doors. The first priority was to find people who shared the philosophy Rick & Patti Peterson had built their business on. The locations would have to be willing to do what it takes to produce the best hydraulic doors on the market and provide the ultimate in customer service.



PowerLift Hydraulic Doors has expanded to 31 manufacturing locations throughout the United States & Canada, and are continually seeking locations that share the simple philosophy the business is built on.

Contact: PowerLift Hydraulic Doors at www.powerliftdoors.com for more information.





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Vitalix® is an American Family owned company that specializes in quality low moisture cooked molasses supplement tubs, made from the best all-natural ingredients available. Vitalix was established in 1989 by owner and president, Greg Olson. Greg, was raised on the family farm near Minden, NE where he learned about the ranching business and how supplements affected their cattle, both in terms of profitability and performance. After doing some research around supplements he felt the tub business provided itself a great opportunity. As Greg said, he got into the tub market because he saw the need for supplement tubs and what it would do for the health and profit of those animals.

Since 1989, Vitalix® has been at the forefront of the tub business, committed to leading the way in how controlled consistent nutrition is delivered to almost all species of livestock. The first plant was opened in Alliance, NE and that is where it all began. The beginning wasn't easy as there was not a lot of feed tub companies at the time, but Greg was adamant it would work. It took a lot of time and education to teach the farming and ranching community the benefits of these tubs and what they could provide to their operation. Once got word out on the quality of the product and customers started seeing the benefits business began to take off.

As the benefits became known to increase the decision was made to expand our production facilities to keep up with the growth. In 2011 Vitalix® opened an additional plant in Quincy, WA and then opened our third plant in Wilton, IA in 2013. However, in June 2018 the Vitalix®



plant in Alliance, NE caught fire and completely destroyed the warehouse and plant. After reviewing all options, the decision was to move the warehouse, plant, and corporate office to Sidney, NE, 80 miles south. Vitalix® took possession of the building on September 1, 2018 and got to work on rebuilding the entire plant. By October 2, 2018, only 32 days later, the first tub was manufactured out of our new facility where we are still headquartered today.

Vitalix® offers a complete range of tubs for any season, condition, and forage quality to meet the nutritional needs of your livestock. As well as we offer a full range of tubs for almost all classes of livestock (Cattle, Horse, Sheep, and Goat). At Vitalix® we understand that livestock are your livelihood and that is why we have made tubs our expertise.

Every day farmers and ranchers face nutritional decisions that affect the profitability of their operations. This is why we have made the mission behind the Vitalix® advantage to be built on a foundation of trust and partnerships through our revolutionary cooking methods, advanced technologies, and our proprietary nutritional packages to deliver the best value for your feed dollar. Vitalix® lead our customers to new levels of performance, efficiency, convenience, and profits.

Parmak adds more new electric fence items in 2018

Parker McCrory Mfg. Co., or Parmak is the oldest name and largest selling brand of electric fence chargers, will show off its complete line of electric fence chargers at the 2018 Western Farm Show. To complement the industry's most technically advanced electric fence charger The Range Master (model RM-1) Parmak also offers the latest state-of-the-art in all of its battery, solar-powered and 110-120 volt AC Models.

For 2018 Parmak has added more than 32 new electric fence items to its line of top-quality products, including a full line of Rod Posts, Steel T-Posts and Wood Posts, a wide selection of step-in-posts including the industry leading heavy-duty Steel Pigtail Post and expanded High Tensil fence accessories including Fence Wire Strainers, Heavy Duty Tension Spring and complete selection of High Tensil Crimping Sleeves, Taps and Crimping Tool. All of the items can be seen at the Parmak Booth #260.

The Super Energizer 5 (model SE-5) built for large-size pastures and controlled grazing of livestock, has an operational range of 50 miles. The model Mark 8 is designed for medium to large sized pastures and has a range of 30 miles. The model Fieldmaster 3 is ideal for small to medium sized pastures with a range of 15 miles. All three models are low impedance fence chargers with advanced built-in computer controlled circuitry. Both the SE5 and Mark 8 are excellent for predator control and feature the all-new digital meter that shows voltage on the fence at any given time.

Established in 1921, Parker McCrory Mfg. Co. is proud of its contributions to the early American farmers. From the Parmak Wind Charger, which generated electricity from wind and provided electrical power for the first time to thousands of farms, to the Super Parmak Radios, to the Parmak Electric Fence Chargers, Parker McCrory has been a part of American Farm Life for over 97 years. In the early 1930s Parker McCrory pioneered the electric fencing industry. In fact the word "electronics" did not appear in the dictionary until 1940, 19 years after Parker McCrory started making "Precision Electronic Equipment." Parmak has grown to become the world's oldest and largest volume manufacturer of electric fence chargers with worldwide distribution. Through the years Parmak has originated every major advancement in electric fencing such as the world's first solid-state electric fencer in 1958 and America's first solar-powered fencer in 1976, etc. Parker McCrory continues to be the industry leader in innovation and has earned the reputation of being the highest quality electric fencer on the market. In 1999, Parker McCrory Mfg. Co. acquired Baygard Electrical Fence Products, a division of Bay Mills Limited. With Parker McCrory's acquisition of Baygard, Parker McCrory further expands its leadership in the electric fence market by offering its customers a complete line of top quality electric fencing products including Parmak electric fence chargers, Baygard wire, rope and tape, electric fence insulators, portable electric fence posts and other fence accessories.

For More information on the complete line of Parmak and Baygard electric fence products visit your local Farm Supply store or visit www.parmakusa.com

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A Fabra Dome building may be purchased for a specific purpose, and if circumstances change, the purpose can change with ease. The buildings also hold their value due to the ease of moving or relocating. The Fabra Dome building can be sold to a new owner. Resale value is usually very near to the original purchase price.

A Fabra Dome building provides a very high, bright interior and requires no artificial electric lighting during the daylight hours. There are no building systems that provide better natural ventilation than these buildings. This condition makes a healthier environment for humans and animals. The reason for the high air quality is the openness and the height of the structure which allows for more cubic feet of air. The airflow in a Fabra Dome building tends to tumble and roll. This eliminates dead areas that could allow moisture, a haven for bacteria and mold. This type of air flow allows the building to be 15 degrees (or more) cooler in the summer and 15 degrees (or more) warmer in the winter.

The cover provides a sound barrier for a quiet and peaceful atmosphere. The extremely bright interior and the quiet surroundings makes these buildings a leading system for riding arenas. The lightness from the cover eliminates shadows. The cover also absorbs the noise, making your riding an enjoyable experience.

Fabra Dome Buildings are manufactured with high quality steel. They are constructed from round rolled mechanical pipe with minimum break strength of 50,000 pounds. The rafters are then processed with a hot dipped galvanizing process. Since the rafters are submerged after being fabricated and welded together, this total dipping covers all the welded parts and leaves no raw steel subject to rust and corrosion. Deterioration from rust and corrosion begin on the inside and eats its way out, so the interior covering as thick as the outside protects the entire rafter. This galvanizing process also provides a very smooth surface for the building cover. Many customers and State Departments of Transportation requires this coating.

The cover is a very durable tough fiber. This woven 12.5 ounce product is rip-stop. This indicates that the cover can be cut or punctured but not continue to rip and tear. The cover colors available are white, blue, green, tan and silver. All covers have white interior.

Plated Truss System

The Plated truss is a double pipe plated rafter which adds strength and integrity to the structure. Rafters are hot dipped after fabrication providing galvanization inside and out, also covering any exposed metal due to welding. Plated Truss 30' to 44' have one joint in the center. Larger structures 50' to 55' have 2 joints. Rafter spacing is 10' on the center reducing material costs for the wall system. The new Plated Truss rafter is easier to install and reduces labor costs.

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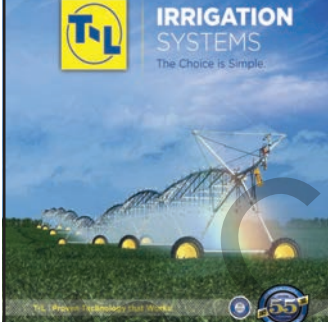
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RiteHeight® is adaptable and works on any type of new or used trailed, or self-propelled sprayer with electric-over-hydraulic solenoid control valves to move the booms. It works with all common hydraulic designs and

requires no additional hydraulics. Once installed, use the TEST menu to check connections. Then move the sprayer to a safe spot outside, unfold the booms, and run the auto SELF CALIBRATION step. This allows the computer to learn your sprayer's behavior. Next, it's time for a test run! Set the target height in the CONFIGURATION menu. Watch the boom as you drive through the test area. Quite often the defaults for parameters such as DELAY FOR UP, DELAY FOR DOWN, QUICK RAISE HEIGHT, etc. work well. However, you may find room for improvement. The CONFIGURATION menu allows you to adjust parameters as needed.

NEWEST FEATURE: HEADLAND MODE.

This feature allows you to configure what happens to boom height when you turn on headlands.

At spray time set the optimal target height. Choose the operating mode: Bare Ground, Partial Canopy, or Full Canopy. Use Partial Canopy when you can see the ground from

the driver's seat and you want the system to follow the ground and ignore the crop. Greentronics offers optional ISOBUS compatible systems that allow operating the entire **RiteHeight®** system from a Universal Terminal screen on compatible displays from John Deere, Outback, Trimble, Ag Leader, and others. Advantages are: the **RiteHeight®** menu system is easier to view and use on large touch screen displays; cab clutter is reduced.

Some users move **RiteHeight®** sensors from the booms to their Y-Drop systems where correct boom height is necessary to optimize placement of liquid fertilizer in row crops.

RiteHeight® allows operators to make on-the-go adjustments to target height. A Center Boom sensor can be installed for auto height control of the center boom, or to function as a reference for the outer sensors. For wide booms or for working in severe terrain and crop conditions, a 4-sensor system can be installed to improve performance. The **RiteHeight®** system is easy to over-ride and constantly monitors for operator input.

The **RiteHeight®** system has been available since 2007. Customer input has driven many improvements over the years and operators with older **RiteHeight®** systems are advised to contact Greentronics about upgrade options.

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Based in Greenbush, Minnesota, Altoz puts over 30 years of engineering and manufacturing expertise into all Altoz products. With over 240 dedicated employees, we're proudly building the next generation of precision mowers, right here in the USA. Altoz zero-turn mowers are an evolution – a vision of what we believe mowers should be. Cutting-edge design that delivers premium performance with exceptional comfort, reliability and ease of use. Everything we do is a commitment to realizing that vision. To deliver an evolutionary mower, every component needs to perform flawlessly and exceed expectations. We won't make just another run-of-the-mill mower. Nothing less than superior quality will do.



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The new Bale Link™ bale management app for Hesston by Massey Ferguson large square balers from AGCO attaches an RFID chip to each bale, allowing producers to track the bale and its production information from the field on a tablet or smartphone. The Bale Link app will help hay producers more efficiently manage inventory, storage and shipping.

Hesston by Massey Ferguson Introduces Bale Link™ Bale Management App

New app puts individual bale info at your fingertips for easy inventory management and traceability

TULARE, Calif. (Feb. 11, 2020) — Hesston by Massey Ferguson®, the industry-leading hay equipment brand from AGCO (NYSE:AGCO), gave North American producers their first look at the new Bale Link™ bale management app during World Ag Expo 2020. The app allows hay producers to identify each bale via an attached RFID chip, then track the bale and its production information from the field on a tablet or smartphone. The app is available for Android and iOS.

Matt LeCroy, AGCO tactical marketing manager for hay and forage, says Bale Link will help hay producers more efficiently manage their hay production through the busy production season. Unique identification of each bale will make it easier to move, store, group and sell hay based on bale size, bale weight, moisture, forage cut length and other production factors. The app also provides a solution for hay growers and livestock producers who would like a record that accurately traces each bale from the field and farm where it was produced.

During baling, a radio-frequency identification (RFID) chip is attached to each bale, woven into one of the six strands of baling twine. BaleCreate™ baler software in the Hesston by Massey Ferguson large square baler captures the serial number of the RFID chip, along with bale weight and length, number of flakes, moisture, date and time baled, GPS location where the bale was created and additive applied (if any). The bale information is transferred from the baler to secure AGCO servers using the AGCO Connectivity Module (ACM). The ACM is a telematics module found in many AGCO machines.

After baling, the producer scans the RFID chip with an RFID reader (hand-held or mounted on the bale loader or stacker), which retrieves the bale's unique serial number and communicates the bale ID to the Bale Link app through a Bluetooth® Low Energy Connection. The bale data is retrieved from the AGCO server via cellular service then displayed on a tablet or smartphone. Historical data also can be stored on the tablet or smartphone for offline viewing.

"With the Bale Link app and a scan of the RFID tag on a bale, you'll be able to access all the production information for that bale," LeCroy says. "When bales are stacked for storage, they can be grouped based on any aspect of the production criteria. When it's time to load for delivery, loads can easily be filled with hay that fits the criteria the buyer requests. Bale Link will be a great time saver for the producer and will provide the hay buyer with a system for traceability, as well as assurance the hay matches specifications."

The app allows the user to identify, group and manage hay by field, stack or truck load, and to generate a report showing the data for each bale within the respective group. The information can be emailed as a summarized PDF report which is accompanied by a detailed CSV data file.

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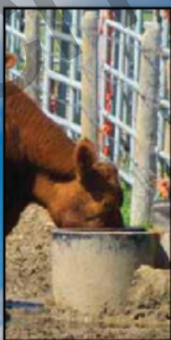
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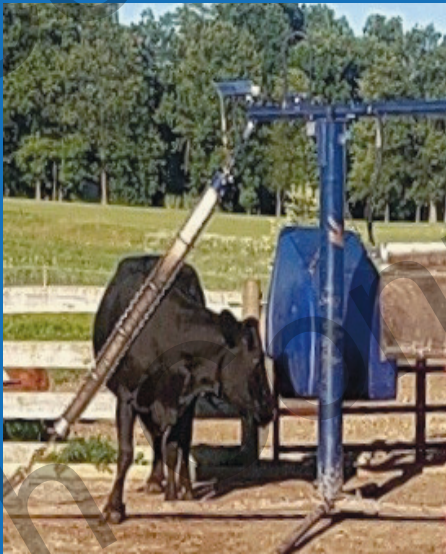
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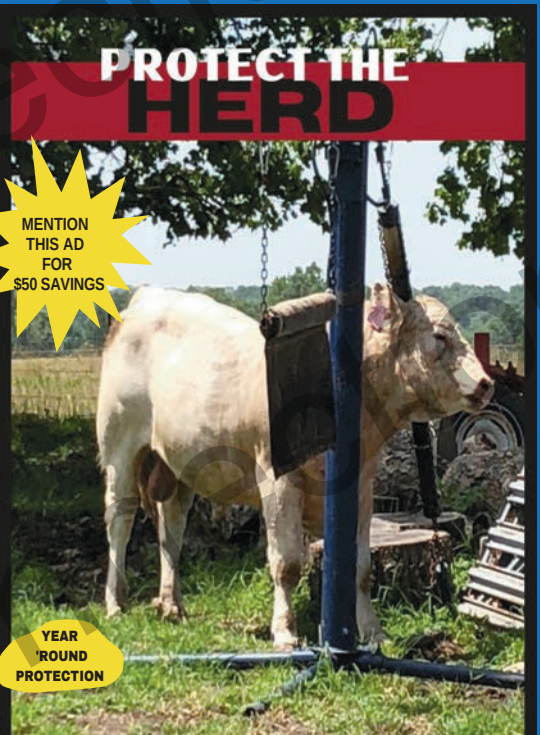


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