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# contents

## Western Farm, Ranch & Dairy

Rocky Mountain/Heartland • winter-spring edition 2016-2017

### Agriculture

Miracles of Balanced Plant Nutrition .....	6
Pretty Good Twine .....	
Colorbale – Right Over the Edge .....	10
Turn Stubble Into Dollars .....	11
De Dell Seeds .....	
Family Owned And Operated Since 1999 .....	12
Pulse USA, Inc. – The Industry Leader for all your Seed Needs .....	13
Ron's Manufacturing – Vertical Tillage Coultter Kit Attachment Gets Even Stronger .....	14
Nokian Manufactures Agricultural Tires for Modern Needs .....	15
Are you aware there is another option available to the farmer at harvest time? .....	16
One-Call of Wyoming .....	17
Phase-A-Matic, Inc. Rotary Phase Converters .....	
3 Phase Power Anywhere! .....	18
Roaring Fork Valley Co-op .....	
Serving our community for more than 60 years .....	18
Economize on Equipment Costs with a New Kit from Fehr Cab Interiors Co. ....	20
Aeroswint Trailers – Leading the Way for Over 20 Years .....	20
C & R Supply, Inc. – Birth of a Sprayer... the Family Expands .....	22
Doda USA, Inc. ....	22
Stop Filter Fuel Gelling In Cold Weather .....	24
Pressurized Exhaust Kills Burrowing Rodents .....	25

### Equipment

Look Ma – No Wires! Wireless Grain Temperature Monitoring .....	26
Dalton Ag Products: Simple. Durable. American. ....	28
Ubyl Bean Knife and Ubyl Peanut Digger Blades Give You the Advant-EDGE! .....	28
Walinga – Bulk Feed Bodies & Grain-Vacs .....	30
Turning Roughage into High Quality Feed .....	31
Cross Manufacturing CROSS PDH Position Cylinder .....	32
The REVEAL 4-N-1 is the ultimate arena and ground prep tool. ....	32
Mud Hog – The Legend Since 1976 .....	33
A1 Mist Sprayers – Innovation, Ingenuity, Integrity .....	34
Sunny D Mfg., Co. Inc – The Oregon Roadrunner .....	35
Evergreen Implement Celebrates 50 years serving the farmers of the Columbia Basin. ....	36

### Livestock

Bakko Industries, Inc .....	38
PBI Parlor Systems Leading the Way in the Dairy Industry .....	38
“Catcher” Makes Calf Work Easier .....	40
Rawhide Portable Corral's NEW PROCESSOR .....	42
Deaton Nutrition Inc. – How Multi-Site II Inoculant can save your money .....	44
Needle-Guard™ Vaccination Table by Tower Stool LLC .....	45

### Departments

Advertiser Index .....	47
Marketplace .....	48

Front cover photo courtesy of USDA Natural Resources Conservation Service.

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a Ritz Family Publication

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Printed By Owyhee Publishing, Homedale, ID

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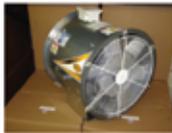


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## Miracles of Balanced Plant Nutrition

### Rising Costs, Falling Commodity Prices and Reduced Availability of Farm Loans Demand Smarter Farming Practices With Higher and More Efficient Production Per Acre.

Noel Garcia, CCA Technical Director, Texas Plant & Soil Lab

Typically, most growers have post-harvest or early spring soil tests performed then apply pre-plant fertilizer based upon the recommendations of the soil report and assume that the one application will pretty much supply the crop's nutritional requirements for the remainder of the season with perhaps supplementing Nitrogen sometime mid-season.

There are several problems with this approach:

1. Much can happen to your fertilizer after it hits the ground to make it unavailable to the crop:
  - A. Your native soil chemistry can rapidly tie-up fertilizer components into chemical compounds which the plant can't absorb.
  - B. Irrigation water high in mineral salts not only changes your soil's chemistry and damages its structure, but it also neutralizes plant-absorbability of many fertilizers by changing their chemistries into plant-unavailable compounds. Water quality is really critical in spray mixes or fertigation.  
**"What's In Your Water Becomes Part Of Your Soil."**<sup>TM</sup>
  - C. Chemical interactions between the fertilizer components themselves can render them unavailable to the plant.
  - D. Loss due to the weather – leaching due to heavy rain, high soil temperatures, etc.
  - E. Volatilization of Nitrogen into the atmosphere - especially true when next year's N is applied in the Fall.

The pre-season soil test provides a starting point for determining what the soil needs to get the crop off to a good start. The soil may have several issues that need to be dealt with in a coordinated manner to ensure the critical early part of the growing season is managed for the best results. But after that...

2. Nutritional demands of many crops vary widely throughout the growing season. **The wrong fertilizer in the wrong form applied in the wrong place in the wrong amounts at the wrong**

**time is simply wasted – along with your money** – often leaching into nearby waterways.

But worse – your crop ends up being malnourished resulting in yields and quality often far below your crop's potential.

*And even worse*, crop malnourishment results in a stressed crop, making it vulnerable to diseases and insects (requiring insecticides and fungicides) – and requiring more water, making it more susceptible to drought and heat – and to hail damage and to cold (late frosts). "Nature always eats the weakest with bugs and disease." **So, you end up spending a whole lot more to get a lot less.**

3. Popular soil testing methods used today (Mehlich III and others) by most labs extract nutrient compounds that are both plant-available and unavailable to be interpreted for subsequent recommendations to you.

(Sidebar: Reports on some soils often show Phosphorus, Potassium, Calcium or Magnesium as being consistently adequate or high, year-after-year. *How can that be?*)

Most of those soil nutrients that are not lost due to the weather are either absorbed by the crop or are converted to plant-unavailable compounds by native soil chemistry or chemical reactions between themselves. Calcareous soils, particularly, are very efficient in tying-up most nutrients, making them water-insoluble and not immediately available to the plant. Accordingly, these insoluble compounds can build up in the soil over time.

By including at least some of these plant-unavailable compounds in the laboratory analyses, the proportions of what is, and what is not, available to the plant cannot be measured with the popular extraction methods.

This means that the lab has to estimate (guess) what is actually available to your crop, based upon its experience with your soil and render fertilization recommendations often based upon crop nutrition standards published in the early 1950s.

Because interpreting the analysis numbers from the soil

testing methods used by most labs is highly-dependent upon the many variations in soil types its clients may have, it is not generally practical for the lab to attempt to calibrate lab numbers against actual plant uptake as can be done using an extraction method that duplicates the way plant roots take up nutrients in any soil.

And the problem with relying on 60+ year-old standards is that they do not reflect new varieties, new discoveries in plant nutrition and deteriorated soil quality (especially high soil salts, low organic matter content and collapsed structure).

**All this explains why your soil test reports give you pretty much the same results and recommendations, year-after-year – even as your yields and quality stay flat or decline while your costs go up.**

**Balanced and Complete Plant Nutrition Goes Way Beyond N-P-K**

About 18 elements have been identified so far as being necessary to plants – the number of which depends upon the plant. It has been only fairly recently that the importance of micronutrients (Iron, Copper, Zinc and Manganese) to plant health and quality started being promoted – and a few trace elements have been known for a while to be necessary for certain crops or their consumers. With ongoing research, discoveries are being made regularly about the importance of heretofore ignored trace elements – most recently, SILICON.

A few years back, Silicon was acknowledged as being “beneficial” to mostly small grains, as it helps prevent lodging by hardening cell walls. However, ongoing

research reveals that the benefits to very many crops and soils go far beyond that:

- Insects and disease are discouraged by hard cell walls.
- Research suggests that an extremely thin physical barrier forms on root hairs, thus discouraging nematodes and disease.
- Improves nutrient uptake.
- Improves drought resistance.
- Improves soil permeability.
- Many, many other benefits – and more to be discovered.

*But there's more: A nutritionally-balanced crop is much better able to withstand stresses put upon it by adverse growing conditions (cold or hot, dark or bright, wet or dry, etc., weather). And – as we've experienced in the field, maturation time can be shortened by as much as three weeks!*

**When we encounter a field with disease or insect problems, the first thing we want to know about is the complete nutritional status of the crop, especially the secondary nutrients, micronutrients and trace elements – as these problems are typically only symptoms of plant stress brought on by nutritional imbalances.**

But correcting nutritional problems alone won't necessarily fix a field already in distress – especially when there is disease or crop damage. Diseased or damaged plants require some intensive care.

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to be an integral part of your season fertility program – but especially, **biological inoculants** because the populations and diversity of the native biology in many of today’s soils have been decimated.

**Biology** – both soil and plant – **does a lot:**

- Converts plant-unavailable soil nutrients into plant-available.
- Controls soil and plant pathogens.
- Conditions soil, regenerating structure.
- Helps remediate salty soil.
- Transforms raw organic matter into humus – a material with complex physical and nutritional qualities – and releases plant-available nutrients during the process. Good levels of humus are essential for thriving plants.
- And a whole lot more...

*Sugars* stimulate biological activity to reduce excessive vegetative growth of plants caused by excess Nitrogen.

*Hormones and Organic Acids* are essential components of accelerating plant development – and are especially effective when dealing with crop damage (due to hail, etc.) and to assist in establishing crops in inclement springs.

We see many times a year, that these other things, in addition to basic nutrition, can restore a hailed-out crop within two or three weeks and very rapidly (often, in one season) turn bad fields from disasters into successes!

**Plant Tests**

Plant tests provide you with “closed-loop feedback” about your crop’s nutritional condition – because you really don’t

know about how much of your expensive fertilizer has been absorbed by the crop and you don’t know what its immediate needs are for eventual end-of-season success.

Plant tests are actually tissue tests from leaves, petioles (leaf stems - plant sap) or the whole plant. What leaves/petioles are taken, the stage of growth, when they are taken and the crop nutritional standards used are critical as to how lab results are interpreted and reported. The primary difference between labs is in how the lab analyses are interpreted and the recommendations rendered.

Leaf or Petiole? Very generally speaking, leaves contain the historic nutrient content of the plant. Petioles contain the nutrients flowing (plant sap) within the plant as of the moment the sample was taken. With some crops, there are only leaves.

**Many farmers act only after they see visual signs of crop nutritional problems in the field.**

*But the problem there is*, by the time problems can be actually seen with the eye, *yields and quality have already been lost for the season.* The best that can be done by then is damage control – to hopefully prevent further loss. And “*Hidden Hunger*” is, by definition, invisible...

Plant analysis allows you to correct nutritional problems seven to 21 days *before* they can be seen in the field. Testing is done at specific stages of crop development, ranging from every week or two for fast-growing or high-value crops to two to five times a year for others. But it is critical that your lab reasonably knows what the nutrient content is supposed to be these days at the stage of growth when the

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samples are taken.

### More To It Than Nitrogen

We have a number of clients who are interested only in plant Nitrogen content. Even though N-compound tests are cheap and certainly N is very important, from our perspective N-only tests are still a waste of money and effort, as there are so many more critical nutrients to be accounted for. Consider “von Liebig’s Law of the Minimum”.

### Do Your Plant Test Reports Include Everything That Is Important To Your Crop?

We’ve already seen that there are a lot of nutrients required for proper and balanced plant nutrition – only a few of which have been mentioned here – much more than just N-P-K. Accordingly, for you to get a complete picture of your crop’s nutritional status, you need to know about the secondary nutrients, micronutrients and trace elements. Different crops have different nutritional needs and some crops have special nutritional requirements – especially for trace elements.

Does your lab include these in its reports? Does it have plant tests for your specific crop, including its special nutritional requirements? Does your lab have the capacity to interpret the data to provide you with good recommendations?

### Crop Loss: Prevention and Cure –

Very often, crop loss due to late frosts can be avoided or minimized with a correct (and inexpensive) foliar spray applied even within hours of the expected event. Hailed-out crops can also often be quickly recovered with foliar sprays of

hormones, sugars, microbial inoculants, amino acids, micro-nutrients, trace elements and other things.

### Comprehensive Plant Tests Are The Cornerstone...

...for maximizing your crop’s potential under the prevailing growing conditions and solving serious crop problems – especially when there are diseases and insects. Your lab should be able to provide you with recommendations for each stage of plant development for a successful season-long crop nutrition program. Providing your crop with balanced nutrition throughout the season is the biggest factor in field performance – and your bottom-line!

### What To Take Away From This Article:

- If your lab’s soil reports and recommendations are pretty much the same, year-after-year, there’s something wrong, someplace.
- If you follow your lab’s plant test recommendations and things haven’t much improved, there’s something wrong, someplace.
- If your fields have disease or insect problems, there’s something wrong, someplace.
- If your yields and quality are flat, mediocre or are generally declining and you’re not doing very well, there’s something wrong, someplace.
- If the quality of your soil isn’t improving with each year, there’s something wrong, someplace.
- The Devil is always in the details – especially the smallest ones.s.





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Bio S.I. SD 25 contains specifically selected soil borne bacteria that digest organic material and as a result is

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As the microbes in Bio S.I. SD 25 begin breaking down organic material it not only converts it into usable nutrients it removes the refuge where detrimental pathogens overwinter,

removes the massive nitrogen sink and begins building the humus or carbon fraction of the soil. Humus or soil carbon is the fraction of the soil that holds water and nutrients in the rhizosphere for future plant use. You will notice a change in your soil structure beginning with a reduction in crusting and aggregation of soil particles increasing natural tilth of the soil. Eventually, the natural earthy smell, attributed to glomalin, will return as proof of increased soil life.

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**Benefits of Using SD 25:**

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# De Dell Seeds

## Family Owned And Operated Since 1999

**D**e Dell Seeds is a Family owned and operated Seed Corn Company that specializes in Non-GMO seed! They have seen tremendous growth since the inception of the business in 1999, and

are continuing to pursue new territories. Alternatives and choices are the foundation of the philosophy at De Dell Seeds. They believe that farmers should be able to make decisions that are best for their farm, environment,

and most importantly, their families! That is why De Dell is proud to offer 35 leading edge Non-GMO corn hybrids, including 5 silage specific hybrids and 6 certified organic hy-



NON-GMO SINCE 1999

## DE DELL SEEDS DEALERS WANTED

With a growing community of "Non-GMO Farming," De Dell Seeds is looking to expand our network of dealers.

De Dell Seeds is an independent, family owned and operated seed Corn Company established in 1999 in London, Ontario.

Becoming a Dealer for De Dell Seeds will allow you to expand your knowledge of the conventional seed markets and enable you to network within the agricultural community.

With a passion for agriculture and awareness of the seed industry, these qualities will enable you to advise customers on making profitable and health-conscious decisions, resulting in better yields, cash crop premiums and sustainable farming.



De Dell Seeds Incorporated 519-203-CORN (2676) 2479 Main Street  
London, Ontario N6P 1P9



brids. These hybrids are proven in the market place as in the example of DL 1960 which makes up almost one third of De Dell's total sales with its excellent yield potential, strong drought tolerance and great nutritional value. It is an all-around good hybrid that excels at both grain production and silage capabilities. Another choice that De Dell is proud to offer the farmer is which type of seed treatment they would like. While most of the industry adopted the controversial neonicotinoid based insecticide seed treatments, De Dell offers the treatment as a choice to farmers who have insect problems but continued to use a fungicide seed treatment as their standard. They believe that the decision whether or not to use the insecticide should be left up to the individual farmer because they will know which fields have a problem with insects and which ones do not. It's all about choices and alternatives!

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# Pulse USA, Inc.

## The Industry Leader for all your Seed Needs

**A**t Pulse USA, Inc.; we aren't simply a seed company – we are a refreshing way of doing business. We pride ourselves in the products that we sell, but more importantly the services that we provide to our customers. We are known in the Upper Midwest as the leader for pulse crop seeds; such as field peas, lentils, etc. Since the inception of our company in the early 2000's; pulse crops have been the foundation of our business, but since then we've added several crops to our lineup. Our office and warehouse is located in Bismarck, ND – but we are well known for excellent customer service all across the country.



Each year we see more producers convert to planting pulse crops, and we've become a cornerstone in helping guide them along every step of the way. As the agriculture industry continues to evolve and change each and every day; we've dedicated ourselves and our business to staying in pace with this - while our views are focused on creating and building a strong working relationship, with each of our customers. Every year we work very closely with breeders and researchers across the globe; to ensure that we select the highest quality lines of seed, for our customers.

One of the ways that we have evolved with the industry, is our specialization in distributing a full line of forage and cover crop seeds. We market "tried and true" premier blends of cover crops, forages, and wildlife species. We proudly provide custom blending on all of our products, to meet all of your individual needs and goals.

We also market and sell various varieties of the following seed lines: yellow field pea, green field pea, Clearfield® lentil, LCS hard red spring wheat, exclusive spring wheat, and Dairyland® soybean. We also sell crop nutrient and protection products to better protect your products in the field. We

distribute biological seed treatments, commercial seed treatments, and inoculants for – seed, hay, and silage, and many other crop inputs.

As we've grown in the Agriculture industry, we have been humbled to work with branded and trusted companies that bear the same integrity that we do at Pulse USA. We distribute seed for companies such as: Alforex Seeds, Gayland Ward Seed, Limagrain Cereal Seeds, BASF Clearfield®, Dairyland®, and Wolf River Valley Seeds. Our seed treatments and inoculants are distributed for companies such as: Monsanto BioAg, BASF, Verdesian, CP Bio, Lallemand, Heads Up, Albaugh LLC, Syngenta, and Timac AGRO.

At Pulse USA, Inc.; the customer is the company – yesterday, today, and always. We invite you to connect with us, and welcome you to visit with us anytime. If you are on social media; you can find us on Facebook, Instagram, Twitter, and YouTube. You can also check out our website; [www.pulseusa.com](http://www.pulseusa.com), or stop in at our facility at 2002 Northern Plains Drive Bismarck, ND 58504.

**PULSE USA**

**Cover Crop Seed & Blends**  
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**And Much More!**

**Contact us today for all your seed needs!**

Bismarck, ND [www.pulseusa.com](http://www.pulseusa.com) (888) 530-0734

# Ron's Manufacturing Vertical Tillage Coulter Kit Attachment Gets Even Stronger

Ron's Manufacturing has added two more bearings to their kits. This makes the kits even more heavy duty. Coulter kits from Ron's Manufacturing converts any chisel plow to a year-round tool to prepare your fields.



In the fall, it can be used to lightly till the soil, incorporate

and size residue. It is also a practical way to dry out wet soils. The Vertical Tillage Coulter Kit Attachment works well in no-till conservation tillage, as well as conventional tillage operation, extending the growing season and creating better planting conditions. Vertical tillage prepares the soil to warm more quickly in early spring, energizing the seedbed for maximum growth and yield potential.

The Vertical Tillage Coulter Kit Attachment is a smart investment in that it has multiple uses which will ultimately produce savings in terms of time and money. It also has a low operating cost per acre and can be used in a wider range of conditions than most tillage tools. It operates at a relatively high speed of 6 to 12 MPH which saves time. The Vertical Tillage Coulter Kit Attachment allows for quick mixing of manure and soil to prevent loss of nutrients and control odor. It can also be used for very shallow incorporation of fertilizer and select herbicides.

The Vertical Tillage Coulter Kit Attachment is spaced on 6 inches.

For more information contact Ron's Manufacturing at 40582 187th St., Carpenter, SD 57322; phone 605-266-2177; E-mail [info@ronsmfg.com](mailto:info@ronsmfg.com). (Also, please see their ad in this issue).



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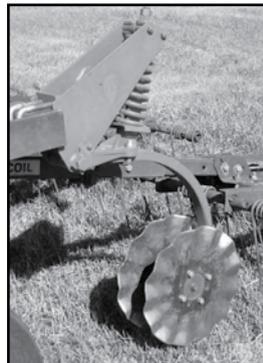
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Exclusive Double Bearings on each end of the shaft - **4 bearings in all!**  
Kit includes all mounting hardware.

**Ron's Mfg.**

(Please see press release in this issue)

For more information go to

**[www.ronsmfg.com](http://www.ronsmfg.com)**

or call **(605) 266-2177**

email: [info@ronsmfg.com](mailto:info@ronsmfg.com)

# Nokian Manufactures Agricultural Tires for Modern Needs

Nokian Tyres is a European tire manufacturer that specializes in specific solutions for unique agricultural applications. Their focus is on offering new tire designs that out-perform traditional agriculture tires by improving performance on hard surfaces and carrying heavy loads efficiently.



The Nokian TRI 2 tractor tire is designed for the needs of the modern tractor. It features a block tread pattern that performs well when tractors are on the road and in the field. When the Nokian TRI 2 is used on the road, it has more tread surface in contact with the road than a traditional tractor tire. That spreads the tire wear out over a larger surface area and allows the TRI 2 to last much longer than a traditional tractor tire in

hard surface applications. The Nokian TRI 2 also has excellent grip and self-cleaning and limited ground disturbance in the field. The TRI 2 offers higher load carrying capacity than traditional tractor tires, which helps extend the life of your tire. The Nokian TRI 2 is a 40 mph rated tire, which allows you to drive faster and ride smoother than a traditional tractor tire. The Nokian TRI 2 offers excellent performance for agricultural applications where the tractor is used on the road and/or carries a heavy load.

Nokian flotation radial tires are designed to carry the heavy loads of today's agricultural trailers with stability and low ground pressure. The Nokian ELS radial tires have a lug pattern that is typical to many other flotation tires currently available in the market. What is different about the ELS radial tire is its ability to carry heavier loads with the stability and larger footprint of a radial tire. In addition, the Nokian ELS radial will perform better on hard surfaces than a typical agricultural trailer tire. If you use your agricultural trailer mostly on the road, or if you are carrying the heaviest loads, the Nokian Country King is designed specifically for those needs. All Country Kings are steel belted to offer increased load carrying capacity, while maintaining a light footprint in soft soil applications. The Nokian Country King features a block pattern that maximizes the tread contact with the road, which leads to a long service life in hard surface applications. The Nokian line of flotation radial tires are manufactured for the needs of the 21st century agricultural trailer.



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Are you aware there  
is another option  
available to the  
farmer at harvest time?

2013 marked U.S. Custom Harvesters' 30th anniversary. The organization began in May 1983 with a few harvesters around a table discussing issues the industry was up against at the time and the need for a strong voice. The idea quickly turned into reality and continues to gain recognition among other agricultural entities. U.S. Custom Harvesters, Inc. is the only national association working for the custom harvesting industry and provides more than just a resource for the custom harvester.



Equipment failures, labor shortages and inclement weather don't realize the harvest can't wait. A custom harvester can relieve the stress of the most anticipated stage of a plant's lifecycle for the farmer. By providing the equipment and the necessary labor, the custom harvester is able to harvest the crops in a professional and timely manner.

U.S. Custom Harvesters, Inc. serves as a strong link between harvesters, the farmers they serve and businesses they work with. We provide a powerful voice for our industry to Local, State and Federal Government agencies. We help create that community through our monthly newsletter, our website (uschi.com), our Facebook page, and even our twitter (@tweets\_USCHI).

Whether you're looking for a forage or a grain harvester, a call or email to the office can help you find someone willing to be there at your most crucial time of the year. Please be sure to visit our website for more information or call 620-200-1381 if you have questions.



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# One-Call of Wyoming

**O**ne-Call of Wyoming has made big strides during its inception. Combining two call centers and implementing the 811 number.

Before a locate is made, the excavator/home owner should mark the proposed excavation by white lining the area.

There are seven types of tickets that can be made. The most common is a “routine ticket”. This is when a caller calls in and wants to excavate, whether it is planting a garden, a tree or building a fence, garage or patio; putting in a septic system and of course pipelines. The caller is asked several questions, i.e. the callers main phone number; who is doing the excavation; name of person calling; an alternate number; the property owner; city or town; physical address including the nearest cross street and locate description. The ticket number and a list of all underground utilities is given to the caller. The caller should mark down the ticket number all the utilities that are in the area, in case a utility company does not show and mark their facility. All utility companies are not members of One-Call of Wyoming and if this is the case, the caller must call them. State law requires that notice be given at least two full business days in advance of the beginning of the work, excluding weekends and holidays.

Another type of ticket is a “cancel ticket”. The excavator/home owner has made a mistake on location of the excavation, or some other reason and wants the original (routine ticket) cancelled.

A “correction ticket” is when the excavator/home owner gave wrong information on the original (routine ticket).

A “damage ticket” is when an underground utility has been damaged.

An “emergency ticket” is when there is an emergency. The caller is read the state statute that signifies what an emergency is, and if the caller agrees the ticket will be prepared.

A “no response ticket” is when a utility(ies) company has not marked their utilities. The caller calls in another ticket, which in turn costs utility(ies) company’s, and One-Call of Wyoming more money. A “positive response” would be a better term – the utility(ies) company would notify the excavator/homeowner that there were none of their utilities in the proposed excavation area.

A “non-compliant ticket” is when the excavator will be working before the two full business day requirement is met.

You can dial the 811 number instead of the 1-800-849-2476 and get the One-Call of Wyoming center. There are still a few glitches, i.e. using a cell phone near a state line, you may get the adjacent state. Most state call centers will either give you the 800 number, or if they have the equipment, transfer your call to the proper state.

**PLEASE REMEMBER – DIG SAFELY! CALL 2 BUSINESS DAYS BEFORE YOU DIG! IT’S FAST, IT’S FREE and IT’S THE LAW! 811 or 1-800-849-2476**

Submitted by One-Call of Wyoming’s Administration Office  
Locate Number 1-800-849-2476

## IT’S ALL IN A DAY’S WORK

- ✓ Taught him about tractors
- ✓ Taught him about cattle
- ✓ Taught him about 811



### Always call 811 to have pipelines or underground utilities located

Planning to till, install a fence or drain tiles? **Pipelines and utility lines can be 12 inches or less below the surface.** And they don’t always follow a straight line. Never assume pipeline depth or location. Call 811 and discuss your project with pipeline and utility operators.



Get the facts at [PipelineAgSafety.org](http://PipelineAgSafety.org)

# Phase-A-Matic, Inc. Rotary Phase Converters

## 3 Phase Power Anywhere!

**P**hase converters are used when three-phase lines are not available or are cost prohibitive. The phase converter will run virtually any 3-phase machine at any single-phase location.

### APPLICATIONS

**Phase-A-Matic, Inc. Rotary Phase Converters** provide the power necessary to run all load types - including CNC/PLC, transmitters, lasers, welders, battery chargers, heating elements, etc. Whatever the load type - motor, resistive, induction, or transformer load - our Rotary Converter will power it. Phase-A-Matic, Inc. has been providing phase conversion for the home shop machinist, the industrial machinist, the farmer in agricultural use, for food processing equipment, the woodworking industry, the metalworking industry, medical equipment, elevators, etc. The Rotary Converter is designed to operate as modules with the ability to be connected in parallel to produce any required output, no matter how large. With fuel prices skyrocketing, diesel generators are now being replaced by Phase-A-Matic, Inc. Rotary Phase Converters. Bring your request to us and we will supply the right conversion for your application.



### TRANSFORMERS

Phase-A-Matic, Inc. also has available all sizes of transformers: single-phase and three-phase 50/60 Hz, all voltages, step-up and step-down, including custom made for special applications.

### ABOUT US

Product lines began in 1965 with the well-known **STATIC CONVERTER**, the workhorse for tens of thousands of regular shop machines, such as mills, lathes, etc. The **ROTARY CONVERTER FULL POWER** line is a true phase converter jointly developed with Baldor Electric and built to our stringent specifications for high performance and proven long-term dependability. It is the quietest rotary converter on the market, and the best quality available anywhere. It meets your concerns in delivering the critical uptime and reliability that your business requires.

### COMPANY REPUTATION & BENEFITS

Professional, available technical support for proper sizing and installation, consistent product reliability and immediate delivery from stock for most items are core components of the strength of the company and its esteemed reputation.

**Phase-A-Matic, Inc.** phase converters individually range from 1/3 to 100 HP. Greater HP is achieved by adding Rotary Converters in parallel for the combined output needed. We have the right converter to meet your needs in delivering economical, reliable and true 3-phase power of the highest quality, thus providing the dependability and uptime you must have.

Phase-A-Matic, Inc. [www.phase-a-matic.com](http://www.phase-a-matic.com)



## Roaring Fork Valley Co-op

### Serving our community for more than 60 years

**I**n 1950, local farmers and ranchers came together to form Roaring Fork Valley Co-op in Basalt, Colorado, to meet the needs of their operations. Memberships of \$25 were issued to provide capital to build the business. As Roaring Fork Valley grew, we relocated to Carbondale in two locations until the 1970s when we settled at our current location.



We are a diversified co-op, offering products and services not only for local ranchers, but also commercial and residential customers, hobby farmers, horse lovers, gardeners, outdoor enthusiasts and more. You don't need to be a member to shop at Roaring Fork Valley Co-op, but a \$25 lifetime membership entitles you to patronage dividends at the end of our fiscal year.



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# Economize on Equipment Costs with a New Kit from Fehr Cab Interiors Co.

**A**s new tractors continue to be offered in the ag-market, the cost of new equipment has soared, and it can be hard to budget for upgrading to the latest and the greatest. By installing a new cab interior, it gives you the feeling of having an updated tractor for the next growing season while providing a higher resale value in the future when you do decide to update your equipment line. Trim your spending budget by making a low cost investment on a new cab interior to keep your equipment in the best of shape and looking like new. If the time does come to update or trade in, you want to get top dollar out of your trade in. By installing a **Fehr Cab Interiors** kit, it gives the purchaser the assurance that you cared about your tractor. By freshening up the cab, the value of the tractor can increase up to 15%.

If you have a tractor over 15 years old, the interior has started to show its age and is falling apart. The vinyl gets saggy, and the foam lining in the cab loses all acoustical properties and starts to harden and deteriorate. **Fehr Cab** has done testing to prove a significant difference in decibels when comparing new and old acoustical foam panels. By replacing the acoustical foam, it silences the high pitched sound decibels that cause damage to your hearing.



JD 55/60 Srs on Plastic

**Fehr Cab** is excited to introduce the “Anyone Can Install” cab kits to their ever-expanding product line. The John Deere 2 wheel drive 30, 40, 50, 55/60 series Sound Guard cabs are available finished onto pre-formed plastic for much easier installation! Also, for the sound guard cabs, the replacement plastic fender fronts and air vent bezels are now available. The IH 86 & IH-88 headliners are also available as a pre-formed “Anyone Can Install” new kit. These new panels will save you up to 4 hours in installation time and you will no longer have the nuisance of having wrinkles develop and adhesive drying too quickly.

Most farmers can install these parts into his or her tractor, using **Fehr Cab** do-it-yourself kits for over 700 different model cabs. Fehr Cab kits are available with pre-cut, pre-sewn, pre-formed panels and complete instructions and whatever is necessary to install kits. **Fehr Cab** strives to replicate the original vinyl, foam thickness, quality custom fit and overall appearance in all interiors offered. The new interior kits make the cab atmosphere so much

more pleasant, clean, and quiet. **Fehr Cab** installs these interior kits in local customers’ cabs to insure that each part fits and every kit is easy to install. To see how easy our kits are to install, check out our “installation videos” at [www.fehrcab.com](http://www.fehrcab.com). Quality materials and superior service is what makes a **Fehr Cab** kit the best value.

Currently, we are adding new items to our growing product line. Some of the newer items recently introduced are: Complete Seal Kits for Doors and Windows (pre-mitered and contoured to fit); Construction equipment interiors; Cat Challenger interior components, Case IH MX 100-270 interior components, John Deere 5200 srs, 6120-8530 model interiors and John Deere newer model S series Combine sound dampening kits. **Improvements are consistently introduced and customer comments are taken seriously.** Over the past 25 years, we have learned to listen to our customers’ requests and concerns to contribute to continued quality and affordability to stay competitive. To make a difference in sound control in your cab, contact **Fehr Cab Interiors Co.** anytime for information or to order.

**Fehr Cab Interiors Co.** 10116 N. 1900 E. Rd. Fairbury, IL 61739 ph: 815-692-3355 or fax: 815-692-2574 sales@fehrcab.com [www.fehrcab.com](http://www.fehrcab.com)



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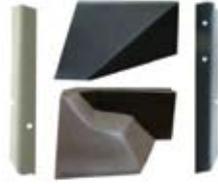
**A**eroswint LLC has been a leader in heavy built agriculture products since we opened our doors in 1991. Our chain trailers that we introduced in 2003 continued on with the Aeroswint tradition of being rugged and reliable when it matters the most.



All of our chain trailers come standard with 50,000 lb. air ride suspensions, ½” UHMW plastic floors and WH78B floor chains - all of which are recognized as some of the heaviest in the industry.

So if you get the chance, check out the Aeroswint line of products on our website at [www.aeroswint.net](http://www.aeroswint.net) (or call 1-888-883-3269). We look forward to welcoming you into our family.

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IH 86-88 Srs. Lower Kit .....	\$123-\$138	JD 30-60 Srs. Headliner .....	\$230
IH 86/88 Headliner Pre Sewn .....	\$140	JD 30-60 Srs. Cowl Unit .....	\$140
CIH 7110-8950 Lower Kit .....	\$186-\$327	JD 7000 Srs. Headliner .....	\$214
CIH 9110-9390 Kit (no posts) .....	\$225-\$248	JD 8000 Srs. Lower Kit .....	\$458
Case 70 Srs 2wd .....	\$240	JD 8000 Srs. Headliner .....	\$229
Case 90/94 Srs 2wd .....	\$234-\$245	JD 9400-9650 Headliner .....	\$502
JD 30 Srs 2wd Lower Kit .....	\$145-\$247	Versatile Srs. 4 Headliner .....	\$285
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\*\* US patent # 7950726  
Other patents pending



# C & R Supply, Inc.

## Birth of a Sprayer...the Family Expands

After carefully listening to customers who were disappointed with the performance or lack of features in ATV sprayers available, C & R Supply set out to design a series, or family of sprayers to meet their needs. The family began with the EZ ATV Sprayer which features a unique tank design that was created with input from customers and ATV manufacturers. Using this input, and keeping the operator in mind the EZ ATV Sprayer was designed for ease of operation, functional ability and safety. The design was a success! This unit has been in demand since 1998 and continues to hold a strong presence in the market today.

The EZ ATV Sprayer has a sleek design which brings the weight forward and more to a center of gravity for better machine balance.

Allowing the legs of the tank to wrap around the fenders of the ATV gives the sprayers dual sumps maximum drainage and the ability to run on side hills without losing its prime. The pump, strainer, and main shut off are mounted underneath the tank in a protected cavity, which also serves as a dual slosh baffle. The top of the tank is designed with a fill catch area to prevent chemical from getting on the operator. The EZ Sprayer is fitted with a 4 gpm Shurflo Pump and a quality Tee-Jet trigger style handgun in the convenient control panel at your side. All brackets and boomless nozzle or boom accessories are attached to the tank for quick and easy mounting. The EZ ATV Sprayer has several different options and accessories to meet your needs.



As time went on customers began seeing a need in their operation for UTV's. C & R Supply responded by expanding their family of sprayers. The UTV sprayer was born and it was named the C & R Slide In after its ability to be easily slid on and off the bed of the UTV as needed. The sprayer is mounted on a powder coated frame which allows the unit to be transferred as a single piece of equipment. This sprayer, like its elder sibling,

was built with only the highest of quality components. The Slide In features a 60 gal tank, left and right electric controls with wiring harness, a Shurflo 4gpm by pass pump, and Boominator nozzles which can spray a width of up to 30 feet. An 8 inch handgun from Tee Jet with adjustable tip for hand spraying is also included. The Slide In sprayer has options and accessories available to meet the needs of your operation including a convenient retractable hose reel add on and additional boom options.

C & R Supply, Inc. is a distributor and manufacturer of agricultural and roadside spray equipment located in Sioux Falls, South Dakota. For over 40 years, C & R Supply, Inc. has been a leader in the distribution and servicing of many quality products from Raven Industries, Spraying Systems, Banjo, and more. They also lead the way in designing and manufacturing new and advanced products as their customer needs change. This family of quality sprayers began with the introduction of the C & R Foam Marker and Spot Sprayer which progressed to the units we are featuring here today. C & R is a provider of precision ag products such as GPS guidance systems, variable rate controllers, mapping, steering assist systems, and chemical injection units. C & R Supply prides themselves on having the knowledge and experience to continually advance their product line to keep up with ever changing technology in a way that helps producers maximize their output.

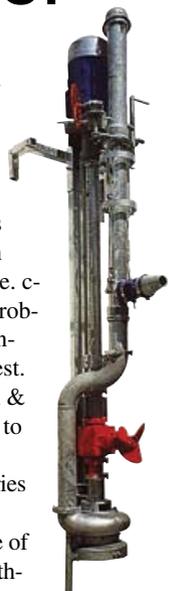
## Doda USA, Inc.

DODA ME / Electric motor pumps are ideal for hog, dairy, or beef reception pits, water, sewage, syrup – the list goes on! Pumps can be used to agitate, transfer or to fill hauling units. Parts in stock in our USA facility to build pumps in various lengths from 4'-20', additional lengths available upon request. Pumps can be run with motors from 5hp – 50hp 3phase or single phase. c-face electric motors eliminates belt & pulley problems. Hot dipped galvanized is standard – stainless steel components are available upon request. Cast iron impeller housing with venturi design & adjustable pressure plate creates high pressure to move the slurry as far or fast as you need.

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For more information, visit [www.dodausa.com](http://www.dodausa.com)



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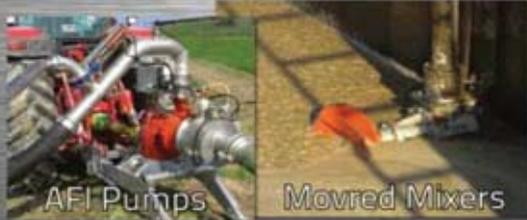
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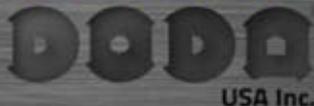
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# Stop Filter Fuel Gelling In Cold Weather

**E**TIP, Inc. says to help prevent diesel/biodiesel fuel gelling in cold weather the Universal Fuel Filter Pre-heater mounts easily to the engine fuel filter. It is one of their extensive line of products for cold weather starting, Security, Safety and Maintenance. Some of the more popular products include the Personal Strobe Lights and Steering Controls for heavy trucks.

Cold conditions often affect fuel flow during start-up and in daily operations. When it is cold enough to cause gelling in the fuel over-the-road trucks, heavy machinery, automobiles, generators and other equipment that must operate in low temperatures can become disabled. The gelling plugs the filter preventing passage of the fuel. The only solution is to replace the filter or warm up the fuel until it flows again.

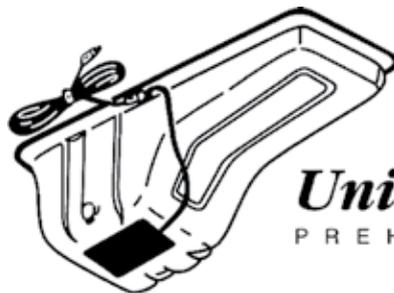
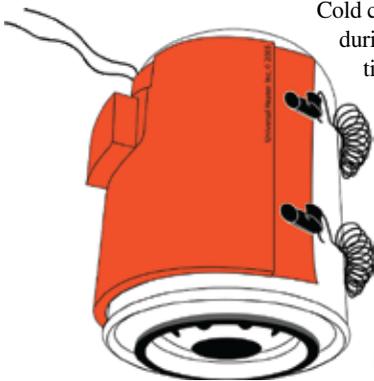
It sometimes requires towing the equipment to an inside location or bringing a heater to the equipment site. Fuel filters for bulk tank dispensing pumps can also

be affected. See our new Filter Heater for Bulk Fuel Tanks and Dispensing Pumps. The costs related to fuel gelling can become expensive in downtime and in repair cost.

The Universal Filter Preheater™ offers a simple solution. It is a thin, flexible, silicone/fiberglass heating pad that easily wraps around the metal filter housing to maintain full contact and to evenly transmit heat quickly through the metal of the filter housing helping to avoid the risk of fuel gelling. It converts the metal filter housing into the heating element. It is an electric blanket for the fuel filter housing. Springs and nylon ties hold it in place.

When it is time to change the filter element, the Universal Filter Preheater™ is easily released for transfer to the new filter housing. Fuel gelling and related problems are avoided.

Drawing 85 watts it is available in several voltages: direct current 12v & 24v, and alternating current 120v & 240v and a dual grid model combining the option of powering with direct current or alternating current in the same Universal Filter Preheater™. Measuring 4" X 7" it is designed to fit a diameter of 2.5" to 4" (circumference of 8" to 12"). See it on the website at <http://www.etipinc.com> under Maintenance. The Universal Filter Preheater™ carries a three year materials and workmanship warranty. A standard 12v Universal Filter Preheater™ is priced at \$138 each.



**Universal**  
PREHEATERS

The standard engine oil and hydraulic Peel & Stick Fiberglass/Silicone Preheaters also are being used to warm fuel tanks. 120v they stick to the outside of the tank and warm the fuel overnight. No cutting or welding, just thoroughly clean off the mounting area & stick it on. The cold weather products offered by the Universal Heater Co., Inc. help improve starting and operations and bottom line business performance. "THE BEST WAY TO PREHEAT ALMOST ANYTHING."

Include both the Peel & Stick Universal Preheater™ for engines, hydraulic systems, transmissions, gear boxes, etc. and the Universal Filter Preheater™ in cold weather packages for a more effective and complete solution to cold weather problems.

E TIP represents and markets safety, security and maintenance products to a variety of customers throughout the US and the world. E TIP, Inc. has carefully assembled a family of related products available nowhere else.

Visit the website at [www.etipinc.com](http://www.etipinc.com) to review Universal product videos as well as other products for Safety, Security and Maintenance or contact E TIP, Inc. directly at (800) 530-5064 or fax (630) 801-9569. E-mail: [sales@etipinc.com](mailto:sales@etipinc.com)



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# Pressurized Exhaust Kills Burrowing Rodents

The H & M Gopher Control PERC® system (Pressurized Exhaust Rodent Controller) uses carbon monoxide from pressurized engine exhaust to kill burrowing rodents such as gophers, ground squirrels, prairie dogs, moles & voles.

According to the company, exhaust gas has long been one of the most lethal and least expensive methods to kill burrowing rodents. But until now there hasn't been an economical, efficient delivery system.

Company owners, Allen Hurlburt and Virginia Massey, claim the PERC® system involves a narrow steel wand that is used to probe the burrow and inject pressurized exhaust. The burrow is consumed with lethal concentrations of carbon monoxide. The rodent has no chance to escape or block the burrow.

An internal combustion engine generates the carbon monoxide and drives a compressor pump that pressurizes the exhaust gas to 110 psi in a storage tank. An air hose and a hand held probe inject the gas directly into the burrow without any digging.



PERC® Model 620

Brand new to the PERC® lineup is the PERC® 620, a trailer-mounted unit with a 20 hp Kohler motor and six reels. Each with a 50' hose and hand probe. The 620 features a tandem axle with turf tires. It sells for \$14900 plus S&H.

The PERC® 412 is a trailer-mounted unit with a 14 hp Kohler motor and four reels. Each with a 50' hose and the hand probe. The 412 features turf tires and is designed to be pulled behind an ATV. It sells for \$8525 plus S&H.

The PERC® 206 is a skid-mounted unit with a 7 hp engine and two reels. Each with 50' hoses and hand probes. It sells for \$5425 plus S&H.

The PERC® 206T is a skid unit mounted on its own special trailer. It

sells for \$5850 plus S&H.

The PERC® system is simple to use and safe for the operator as well as wildlife since there is no poison bait or explosion involved. Crop stands are not damaged during treatment. No other control method is as effective, efficient, and as inexpensive to operate as the PERC®.

A PERC® system can treat moderately infested alfalfa fields at about 3.5 acres an hour with a single operator. Each probed location requires only about 2 to

3 minute injection times.

Units have been shipped to customers from Southern California to Central Canada, and as far east as Florida. Though most of the market has been with alfalfa growers, orchard and specialty crop growers have also purchased units. The PERC® system is the best solution anywhere burrowing rodents are a problem.

For more information call toll free (855) 667-5181 or visit the website [www.hmgophercontrol.com](http://www.hmgophercontrol.com)

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# equipment

## Look Ma – No Wires! Wireless Grain Temperature Monitoring

Technology abounds in agriculture today – variable rate fertilizer applications, auto steering, precision planting, GPS spraying and harvesting to name a few. Managing your stored grain now offers some exciting new technology as well.

A producer can monitor stored grain without leaving the house or from any location that has Internet service. Tri-States Grain Conditioning, Inc., headquartered in Spirit Lake, Iowa, now offers two wireless systems that can make monitoring stored grain easier and faster than getting that second cup of coffee. Using TSGC temperature cables to give a complete temperature profile of their bins, producers will be able to monitor their grain more efficiently and with greater accuracy than ever before.

The SafeTrack Wireless Grain Temperature Monitoring System can be programmed to automatically take temperatures and save them for later viewing. Grain depth, approximate bushels and

automated exhaust fan operation functions are also available. Grain temperature history reports are also available to be printed out. Each individual bin can be set to specialized temperature parameters to accommodate various crops. Instead of taking **2 to 3** hours for a large operation, reading temperatures can now be done in **minutes!**

This wireless system utilizes line of sight (up to 1 mile) radio communication between the bins and the base transmitter to monitor temperatures from TSGC temperature cables (as well as grain depth). It requires power at the transmitter location on the bin, and may be run either manually or automatically, locally or over the network/Internet, for anytime, anywhere monitoring.

Another option is the GrainTRAC remote bin monitoring system. This system utilizes a cell phone modem to transfer data from the TSGC temperature cables to an internet website, [www.wagnet.net](http://www.wagnet.net). The producer is given a user name and a password to ensure privacy. Once logged onto the website, the producer can view a graphical display of his temperatures or a numerical display. Temperature parameters (minimum and maximum) can be set for each bin, as well as rate of rise temperature over a designated time period. Temperature history reports are available for print out. Options include remote fan start/stop and a weather station with features such as temperature, relative humidity, wind speed and rain measurement. Alerts are sent via email or text message.

The requirements for the GrainTRAC system include temperature cables, cell phone coverage at the bin site and electrical power. An annual access fee to the internet website is charged (a low per year minimum). Convenience is the selling point of this system because a producer can monitor his grain temperatures from anywhere via the Internet.

Either of these wireless systems will save you time and money, while providing peace of mind about the true condition of your grain. Knowing your grain temperatures, while watching for changes, is the only safe way to monitor the condition of your grain.

TSGC, Inc. is one of the largest suppliers of grain temperature monitoring equipment in the world. Headquartered in America's Heartland, our administration, fabricating, sales and service divisions are located in Spirit Lake, Iowa. We have an extensive network of contractors representing our products and services nationwide and in over forty countries. **TSGC, Inc. is dedicated to serving you.** For more information or a free, no obligation quote, contact Tri-States Grain Conditioning, Inc. at 800.438.8367, [TSGC@TSGCinc.com](mailto:TSGC@TSGCinc.com) or [www.TSGCinc.com](http://www.TSGCinc.com)



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Mobility Model 600 Row Crop Dry Fertilizer Spreader

Founded in 1996 by local entrepreneur Dick Dalton, the company operated as Dalton Ag Products until 2007 when it was purchased by Robert Cox and became Cox Manufacturing. In 2014, the company was purchased by Dexter Apache Holdings, Inc., and once again became Dalton Ag. Today, it is one of six businesses that comprise the Dexter Apache Holdings group, one of the nation's foremost ESOP companies, and is 100% employee-owned. The Company offers a wide range of fertilizer application equipment under two brands: Dalton and Mobility.

The Dalton product line consists of toolbars and liquid applicators for in-ground injection of anhydrous ammonia and liquid nitrogen, plus the associated wagons, tanks, nurse trailers and row units. These products are designed for commercial row crop producers and have working widths of up to 60 feet. Dalton toolbars have industry leading wing down-flex for consistent depth on uneven ground, greaseless pivot points, and are available with 6"x 6" steel tube frames for additional strength in difficult soils. Dalton products are available in a number of colors to match the customer's fleet, including blue, red, green and black.

The Mobility line, with its distinctive white and black livery, is designed for the spreading of dry material such as fertilizer and lime before, during and after the growing season. The spreaders come in either row crop or tandem walking axle models, and have weight capacities of up to 12 tons.

"What sets us apart from other brands is our flexibility in design and fabrication" says Mike Hilderbrand, President of Dalton Ag, Inc. "We are capable of customizing our prod-

ucts, particularly toolbars, to fit the requirements of specific customers and applications."

Last year, Dalton Ag completed a 32,000 s.f. addition to its Lenox plant, including a state of the art powder coat paint system. "The difference between the powder coat and the old liquid paint is like night and day," said Hilderbrand. "Because there is no cure time required for powder, our manufacturing cycle time has been reduced significantly. And it looks great, too!"

Dalton Ag has built a solid reputation on designing and fabricating farm equipment that is simple, durable and American. Dalton and Mobility are both names that farmers and dealers can count on.

For more information, contact Dalton Ag at 1-800-342-7498, email [office@daltonag.com](mailto:office@daltonag.com), or visit [www.daltonag.com](http://www.daltonag.com). 

## Ubly Bean Knife and Ubly Peanut Digger Blades Give You the Advant-EDGE!

**H**undreds of hard edible bean farmers have been taking advantage of the Ubly bean knife for over sixty years.

### Attention bean, seed and organic farmers

While maintaining the highest standard of quality, Ubly bean knives are still the best way to cut the tap roots and get a higher quality bean while producing fluffier windrows, reducing labor, reducing stones and dirt in windrows, and aiding in your combine's overall performance.

There has been some speculation about the acceptability of the direct harvest system due to the high losses of beans, therefore keep using the Ubly Bean Knife for the best possible cut and quality for your money. Do what hundreds have already done. Make Ubly Your Advant-EDGE.

### Peanut farmers rejoice!

Ubly Peanut Digger Blade Manufacturing, Inc., a subsidiary of Ubly Bean Knife Mfg., Inc., received a patent for the Ubly Lifting Fingers, stainless steel lifting fingers that are flat and curved upward to better guide peanuts up on to the top of the elevator during the digging process.

Used with their patented Ubly Digger blades, which have a thin, hard-faced edge to stay sharp and always cut the tap root, the lifting fingers and the smaller diameter Ubly 6-inch Bottom Elevator Idler Wheels raise the peanuts without turbulence and in a smooth, uniform ribbon to the top of the elevator.

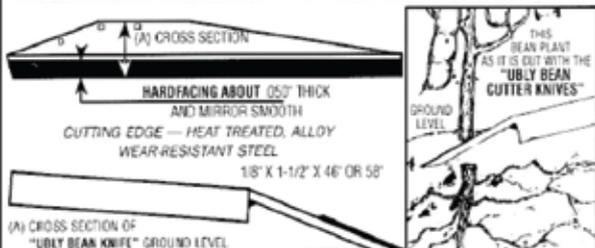
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# Walinga Bulk Feed Bodies & Grain-Vacs

From concept, design and through production, Walinga meets the customer's needs at every step. Creating outstanding products that are innovative and durable, with some client's vehicles being passed from generation to generation.

Walinga is a leading North American manufacturer of transportation equipment and portable pneumatic conveying

systems for grain, feed, seed... virtually any dry bulk material. Walinga is still a family owned and operated company. The total commitment to quality is not only our inheritance - it's our foundation for the future.

Walinga products represent the best in manufacturing excellence. Our in-house engineering and design teams utilize the most current computer technology

available. State of the art equipment, combined with over 60 years of experience, ensures that our customers receive unsurpassed quality.

Comprehensive engineering capabilities allow us to offer sizes, capacities, features and options that are specifically job-matched according to individual requirements. The services of our Engineering Department are available to our customers to assist in the selection of the properly specified chassis. Every Walinga vehicle is designed and produced to best fulfill its designated function.

Custom-built aluminum feed bodies and trailers, pneumatic conveying systems, recycling trucks and bodies, aluminum and steel dump bodies... each built according to exact standards. Every stage of the manufacturing process from design to completion is performed by Walinga. The result - a cost effective, durable product line that responds to any challenge with premium.

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The only system you'll ever need. Gives one-person total grain-handling capability! Do it all with the Walinga Agri-Vac. Fill or empty storage facility being used. The Walinga Agri-Vac puts an end to legs, augers, sweeps and shovels. Grain handling has never been simpler, safer or healthier.

Just couple the Agri-Vac to your tractor and drive into position. Lightweight vacuum/pressure hoses attach in seconds and flex easily. Suddenly even tight spots and awkward angles are no problem!

## Bulk Feed Trailers and Bodies

Walinga Inc. has been manufacturing bulk feed transportation equipment for more than 60 years. In this time we have become committed to an ongoing program of research and development. In response to the increasingly diverse needs of our customers Walinga is and will continue to be on the forefront of technological evolution.

The options and features of the Walinga Bulk Feed Delivery Units are numerous. Walinga Bulk Feed Delivery Units can help you in your quest to increase production, performance, and efficiency.

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# Turning Roughage into High Quality Feed

ADM's Second Crop process is now available from Rosendahl Farms Seed and Feed LLC of Columbus, NE under the trade name "Stocklage Plus"

In 2010, ADM, John Deere, and Monsanto began research to find out:

- How much field residue could be removed and still maintain maximum yields potential?
- How to best remove the crop residue?
- Could crop residue be better utilized as a feedstuff?

They worked with Nebraska, Iowa State, and Purdue Universities in researching the benefits. The results can be found at ADM Second Crop- Doing More with Less.

ADM's patent-pending Second Crop treatment process represents a tremendous addition of value up and down the cattle chain. By taking crop residue—leaves, stalks and other plant parts left over after harvest—and transforming them into a nutritious feed source that can replace corn, the ADM Second

Crop process will help farmers and cattlemen, an important option especially in bad crop years.

The patented process, for applying Hydrated Lime, has been used from Texas to Nebraska to Montana for over four years treating Cornstalks, Wheat, Oat, and Barley straws.

In 2015, ADM licensed the Second Crop process to private application contractors, including Rosendahl Farms Seed and Feed LLC Columbus, NE. According to Stan Rosendahl, "some of our feed customers were using the ADM lime treated feed and wanted to continue. They said they felt it was a good way to use a crop by-product, changing it into a quality feed roughage product." Rosendahl explained, "when we purchased the powdered lime trucks and process equipment from ADM, they promised to continue to back the process

as well as research. We have changed the name of the product to Stocklage Plus, which we felt more directly says what it is – Livestock Silage".

Rosendahl Farms Seed and Feed LLC retained the services of Casey Lund, who was one of the individuals that worked on the ADM project from the start. Casey knows the in and out's of the lime application plus good knowledge of the Beef industry. Lund says "this process works on any lignin fiber product like cornstalks and straws. The Hydrated Lime breaks the fibers down to where it is more digestible to the beef rumen. The cattle lick out the bunks like candy and do not leave the ends in the bunk. That's a win-win, more digestible and they eat all of the Stocklage Plus!"

For additional Information visit [www.seedandfeed.biz](http://www.seedandfeed.biz)



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Being a major OEM Supplier with more than 100 models, Mud Hog has a custom solution for whatever you drive. Whether it's a Challenger, John Deere, Case, Gleaner, Massey Ferguson, New Holland or just about any other brand.

Thousands of equipment dealers throughout North America can install your Mud Hog rear-wheel drive system in 48 hours or less. What's more, every Mud Hog comes backed by a comprehensive warranty and a dedicated customer service team ready to go to work for you.



You probably already know that Mud Hog hydraulic rear-wheel drive systems power your equipment through wet, muddy soil conditions unlike anything else. But you might not be familiar with the many additional benefits a Mud Hog delivers in all climates – wet or dry – allowing you to:

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It provides not just the ability to power through wet, muddy conditions but also:

- Faster harvest, with more speed and traction in any weather
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- Reduces soil compaction and maximizes yields
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- Additional torque for steep grades
- Supplier for OEM RWD Systems

# A1 Mist Sprayers

## Innovation, Ingenuity, Integrity

**A**1 Mist Mist Sprayers Resources, Inc. of Ponca, NE manufactures the preferred spraying equipment for livestock insect control in cow/calf, dairy, and beef feedlots. The application of insecticides and herbicides in pastures/rangelands, fencerows, roadside ditches, and brush and broad spectrum weed control is also made easier and simpler with the use of an A1 Mist Sprayer.

A1 Mist Sprayers offers a complete line of High Performance, Heavy Duty 3-Point PTO Driven, and Engine Driven mist sprayers. These machines are useful in flatbeds, pickups, trailers, utility vehicles, and ATV's. These units have the capability to uniformly spray up to 140 feet horizontally and 95 feet vertically.

A1 Mist Sprayers use an environmentally friendly application method over boom sprayers, floaters, and hand wand sprayers. Using less water and chemical to accomplish the same goals. These mist sprayers employ a dilute spraying application method...water is used as a dilution only and air is applied to deliver the water and chemical to the target. Spray droplets are injected into an air stream that shears them into uniform micron sizes. From here they are forced through an air vortex created by the fan housing volute attachment that forces the miniscule drops to swirl over, under, and around

the foliage, animals, or fixed objects. Mist sprayers were specifically designed to deposit droplets on the underside of the leaf. Mist sprayers are also the only spraying method that allows you to work with the wind thus increasing efficiency of the application, making the mist sprayers the preferred and most reasonable way to spray herbicides, insecticides, and fertilizers, on your property. The 140 foot spraying range allows you to spray pasture, range land, creek banks, levees, ditches, deep valleys, steep terrain, and hard to reach rocky areas while using 1/10th the water and significantly less chemical.

A mist sprayer is a sound INVESTMENT if your goal is healthy grass for your pasture, range, road ditches, livestock





## A1 Mist Sprayers

*Innovation Ingenuity Integrity*

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production, erosion control, or insect control.

**A1 Mist Sprayers is the only mist sprayer business company specializing in livestock spraying.** Customers say that is their preferred insecticide sprayer for controlling horn flies, face flies, stable flies, and house flies. However, a mist sprayer is also beneficial when controlling house flies, gnats, mosquitoes, ticks, and other biting insects found on or near livestock confinements, feedlots, lagoons, levees, pastures, and around buildings.

Benefits of an A1 Mist Sprayer

- Use less chemical (up to 50%)
- Use less water (up to 1/10th)
- Boomless
- Spraying range of 10 to 140 feet
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- Effective and economical to use
- Out performs boom and aerial spray applicators
- Spray uses: fence rows, road ditches, grasslands, trees, water ways, ponds, lakes, vineyards, orchards, and vine crops
- Livestock spraying, fly control, insect control and the list is continually growing...

For more information visit [www.mistsprayers.com](http://www.mistsprayers.com) or call Toll-Free 877-924-2474

# Sunny D Mfg., Co. Inc – *The Oregon Roadrunner*

The Oregon Roadrunner, manufactured by Sunny D Manufacturing Company, Inc., is the all purpose machine when it comes to loading and unloading blocks of hay, everything from a stack of bales in the field to a six-pack of 3x4 bales. What used to take several people hours to buck the hay, whether loading trucks, unloading trucks, or moving the hay from one truck to another, now takes one person just minutes to accomplish. There is no other machine that can match it.



## Humble Beginnings

In 1971, Art Davina – then a rancher in Bonanza Oregon – saw the need, designed and built the first Oregon Roadrunner.

That machine is still being used today.

While struggling through the hard times, redesigning to incorporate new ideas and improving on old ones, and building a strong customer base one customer at a time, Art managed to build his back-yard business to a point where he was able to open his first shop. By 1985 the business was large enough that he began the process of incorporating it. Later, needing more space to meet customer demand, he bought a larger property, and moved the business to its current location in Klamath Falls.

When health problems forced Art to take a step back and de-stress his life, he wanted to find the perfect person to take the reins. Ed Majors took over as GM in 1998 and in 2003, began the process of buying the company from Art. Today, Ed officially owns it.

## Sunny D Today

From those humble beginnings in 1971 to the 21st century, Sunny D Manufacturing Company Inc. has grown to a business totaling 15 employees. Welders, fabricators, mechanics, a painter, and various support personnel create from bare metal the machine that called “The Oregon Roadrunner.” What used to be only available in white with your choice of stripe, a customer can now choose their color and design. For more information, call 1-541-884-2361, or write 4343 Highway 39, Klamath Falls, OR 97603. 

## The leader in Hay-handling



*The Oregon Road Runner*

The most efficient, heavy-duty hay-handling system available. PLUS we have a good inventory of Used Fork Lifts with NEW Squeeze Attachments. NOW your choice of engines: Cummins ISC 8.3 or Cummins ISL 9.0



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# Sunny “D” Manufacturing, Inc.

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# Evergreen Implement Celebrates 50 years serving the farmers of the Columbia Basin.

Evergreen Implement has been serving the local community since 1966 and is still in its original location at 1415 South First Street in Othello, Washington. This year we are celebrating 50 years in business serving the farmers in the Basin.

We are a Medallion John Deere Dealer and are also the largest supplier of potato equipment and parts in the State of Washington. The company employs over 85 people in five locations: Othello, Moses Lake, Coulee City, and Ritzville (all John Deere stores) and Pasco (a potato equipment sales and parts store).

**Roger Thieme** is the president and owner. He graduated from the University of Idaho in the 1960's with a degree in engineering. Not quite seeing himself wearing a lab coat and working under bright lights, he returned to the family farm for a short stint before hiring on with

John Deere. He soon decided that he wanted to be on his own and started Evergreen Implement in Othello, Washington in 1966. He later added Moses Lake in 1989 and opened the Coulee City and Ritzville stores in



2004. Evergreen officially entered the potato equipment business in 2005 with one salesman. We now have

5 full time employees serving that industry.

Evergreen has seen the transition of company records migrate from card bins to sophisticated integrated computer systems over the course of years. These improvements are a requirement for today's customers, who need reliable equipment with minimal downtime. Even though the machines being used by farmers today are much more reliable than those used back in 1966, employees must have a strong working knowledge of all equipment. Evergreen makes sure that it has a trained staff and puts heavy emphasis on good on-the-job employee training and some formal JD Tech schooling through Walla Walla Community College.

### The Dependable Partner

Evergreen implement has served production agriculture in the Columbia Basin since 1966. We share your pride in our region's transformation from sagebrush to highly productive farmland. Our employees set us apart. Their ability to adapt to change and willingness to assume personal responsibility makes our commitment to continuous improvement a reality. We apply leading edge technology and extensive capital investment to deliver parts and service that minimize your down time. Our service and parts fleet extends this assistance directly to your farming locations. Our professional sales staff has years of experience in the Basin. They will assist you in finding practical solutions to your ever-changing equipment needs. Evergreen Implement is your partner in meeting the challenges of modern agriculture. Together, we will work to maximize your production and minimize your costs.

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**W**hat makes Jug Livestock Waterers the right choice for your livestock? Following are some of the unique qualities that Jug Livestock Waterers offer.

It all starts with the Draw Tube Design. It is much like a giant straw so the animal can use its normal method of drinking. The animal places its muzzle over the opening in the drinking bowl and sucks up the water just as it would naturally drink from a water hole. The Draw Tube Design is really three tubes, two copper and one CPVC. As the water gets cold in the drinking bowl, it becomes heavier and sinks down the CPVC tube forcing the warm water up the copper tubes into the drinking bowl.

Jug water is clean. No more smelly water from heavy bacterial growth. The Draw Tube is attached to the drinking bowl with a feed trap which keeps feed debris that fall off the animal's mouth from dropping into the water reservoir. With Jug Livestock Waterers you will not have algae growth because the waterer seals out the air and sunlight which aid in the growth of algae. Another advantage of the Jug is that animals can see and smell clean water. They do not have to learn to lift flaps or push balls or floats out of the way to get water.

Jug Livestock Waterers have an external adjustment screw for the float valve which allows for easy adjustment at any time without the removal

of any lids or covers.

Jug Livestock Waterers are available in Energy Free or Energy Efficient models. In cold climates we recommend the Energy Efficient model, which has a 65-watt heater and thermostat to give you the insurance you need in cold winter weather. The average energy cost for an Energy Efficient Jug is about \$9.00 for the Entire Season.

Keep the Jug in mind when you are ready for your next waterer purchase. Jug Livestock Waterers are manufactured in Glenwood, MN by Bakko Industries, Inc. a family owned and operated business. Check us out on the web at [www.thejugwaterer.com](http://www.thejugwaterer.com) or give us a call at 1-800-584-6675. We look forward to hearing from you. 

## PBI Parlor Systems Leading the Way in the Dairy Industry

**O**perating from their office in Portales, New Mexico, PBI Parlor Systems is a leading manufacturer of milking stalls and equipment for dairies around the world.

The owner, Steve Peacock, has a strong dairy business background, and an even stronger pride in his company's products. His commitment to improving dairy profits and delivering excellent customer service is unmistakable. And each of the company's employees shares his dedication.

Of course it all starts with an efficient stall design - their stalls are engineered to be the best solution for maintaining cow safety and dairy efficiency. In fact the company came into existence in the late 80's after designing a parallel stall at the request of a local dairyman.

His stall design was a winner! Good news travels fast, and word of this design spread quickly from person to person, which led to more parlor business.

Building on his design and engineering experience, the entire PBI crew

continues to produce and install innovative parlor stalls all over the world. To ensure the quality of the final product, they control every stage of production. Dairies of all sizes, from small family-dairies to large mega-dairies have been fitted with PBI stalls.

Because PBI designs and builds the stalls, they are custom fitted to your unique requirements. They use heavy duty galvanized and stainless steels to provide a durable yet sleek stall with no rough edges to hurt cows and profits. Performance excellence is ensured by their expert project installer and crew, which they make available for every installation. You will assuredly receive a quality, hassle-free installation, and on-going support.

Value is built into every PBI stall design. Low installation and maintenance costs make PBI stalls a valuable investment for dairies of all sizes. Plus their durable construction, smooth operation and labor saving design provide ongoing increased profits.

Innovation is what started PBI. Their

stall designs are adaptable to suit the needs of dairies of all sizes, no matter the environment. They are compatible with all brands of milking equipment. And though innovation started PBI, service is what maintains and grows the company. PBI Parlor Systems takes pride in its continued commitment to meet and exceed their customers' needs. From the free quote they give you, through the completed installation, they maintain a hands-on approach that delivers unrivaled customer service.

But their customer support doesn't end with the sale. PBI's on-going personal contact with their clients and easy accessibility cater to meeting your needs now and later. They choose to maintain close relationships with their clients. Client feedback about stall performance is essential to PBI's commitment to developing and refining products that satisfy the needs of dairy farmers all over the globe.

For more information, call PBI Parlor Systems at 800-295-5677 or visit [www.PBIParlorSystems.com](http://www.PBIParlorSystems.com) 

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\*Clean, Clean, Clean

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The Elite Parallel Stall is our signature stall

- A powerful hydraulic cylinder operates an entire row raising the headstalls to a full 62" clearance. High enough for even your largest cow.
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- This stall is offered on 26" centers for jersey cows only, 27" centers for mixed herds or holsteins, or 28" centers for holsteins.

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**PBI PARLOR SYSTEMS** 43214D US 70, Portales, NM 88100  
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# “Catcher” Makes Calf Work Easier

If you own an ATV or UTV and have cattle, Dan Leo has an attachment to make working with young calves safer and easier.



One person can now easily and safely process calves with Leo's Safety Zone Calf Catcher.

“Safety is the number one goal of our durably built and user-friendly catchers,” says Leo, president of Safety Zone Calf Catchers. “The traditional way to tag and process calves can be dangerous and often takes more than one person to do the job. With our calf catcher it’s easier on the producer, the cow

and the calf. One person, who can operate an ATV or UTV, can safely work calves.”

The calf catcher is a durably constructed steel cage that mounts with ball hitches on the front and back. It works well in all types of terrains and conditions. With the front gate locked open, the driver approaches the calf and captures it in the cage by shutting the spring-loaded gate. The producer enters the pen through the open side by stepping from the ATV or UTV and moves the calf to the rear holding area where he can tag, vaccinate, weigh and even band the babies while protected from the mother cow. When finished the producer releases the calf out the back to its mother.

“Traditionally, producers have to get to the calves early after birth otherwise it can be difficult to catch and even hang on to them, and then it can require two or more people depending on the protective behavior of the mother cow while the processing takes place,” Leo notes. “With our calf catcher unit, one person can catch calves, even if they are a week or older when they have plenty of run in them. Another benefit is the calf holder located at the back of the catcher. It not only secures the calf for processing, but works very well for pairing out, as the cow can see and smell her baby and will then easily follow to another pasture or calving barn in inclement weather. Cows will follow the calf virtually anywhere!”



**A Cowman's Best Friend at Calving Time!**



*ATV and UTV Compatible!*



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*Easy and Safe Catching!*



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**Designed for Processing Safety...**

- Enables quick and safe calf catching!
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- Less cow stress, mother can see and smell calf!
- Reduces danger while working new calves!
- Quick Mount/Dismount on both ATV & UTVs!

**ONE PERSON can now SAFELY and EASILY process calves without concern of the protective mother cow!**

**Jim Strand, CA**

“We really like our catcher extremely well. It will cover any type of ground, and I especially like the wide, front gate as it makes it very easy to catch the older calves. The calf holder platform is a really good feature.”

**Craig Oceanek, WY**

“Our catcher is AWESOME! We have lots of wild range cattle, and we calve on rough ground. It is very valuable for a one person outfit, and it is a tool that I would not be without.”

Watch action video at

[www.SafetyZoneCalfCatchers.com](http://www.SafetyZoneCalfCatchers.com)

To order, call 877-505-0914 today!

The ATV catchers sell for \$2,095 plus freight shipping. Catchers designed for UTVs are an additional \$450. Other options available include a waterproof, digital scale - especially beneficial to seedstock producers and a tow hitch that aids long distance moving.



The company sells directly to cattlemen but welcomes dealership inquiries.

“Built in both Nebraska and South Dakota plants, the calf catcher will last for generations, Sales have stretched across the U.S. with exports to Canada, Australia and France.” Leo adds.

To see it in action, check out the video on the company’s website.

Contact: Safety Zone Calf Catchers, LLC, 1146 7th Ave, Dannebrog, Neb. 68831 Phone: (877)505-0914; [www.safetzonecalfcatchers.com](http://www.safetzonecalfcatchers.com)

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# Rawhide Portable Corral's NEW PROCESSOR

**R**awhide Portable Corral, Inc of Abilene, KS has been in business for the last twelve years and we are proud of our premiere portable livestock corrals. We are extremely excited about our latest model: The Rawhide Processor by John McDonald.



We offer 3 sizes ranging from the **Standard:** 40-50 cow/calf capacity, **Large:** 80-100 cow/calf capacity, and our **Super Large:** 140 cow/calf capacity. Our corrals offer the most versatility in pen size and configuration. John McDonald is the original designer of the Rawhide Portable Corrals and has really outdone himself with this new design.

The Processor has a permanent sheeted adjustable alley to aid with working your livestock on site and in the field. The adjustable alley can be sized from 30" down to 16" either manually or hydraulically. We offer the option of mounting a head gate to the end of the alley for easy, on site cattle processing. You can even add a self contained loading chute to the system.

If you like to lure your cattle with feed, a pickup can be driven completely through and out the opposite end of the Rawhide Processor. Each panel section has its own solid rubber wheel, resulting in no flats. Our corral has several man/pass gates to aid in human movement about the system. The Rawhide can form 2, 3 and even 4 pens to aid with sorting your livestock.

The Rawhide Processor is easy to set up, utilizing electric over hydraulic cylinders on the back end and the front of the unit: The 16" transport wheels are permanent, retracting up and down with the flip of a switch. No more unpinning the wheels and sliding them off the axels and rolling out of the way. This model comes as a gooseneck only and there is a self contained power unit with long life marine battery and a solar panel mounted atop.

Please check out our website for more information and to view our video: [www.rawhideportablecorral.com](http://www.rawhideportablecorral.com) or call 785-263-3436.

56

"I didn't even think we had stray voltage!"



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25 years ago, Deaton Nutrition, Inc. started out as one-person company doing rations to improve feeding. They have expanded to include crop specific inoculants sold in 28 states and 2 countries. Every employee has either worked on or grown up on a farm. They work with everyone from hobby farms to custom operators to thousand+ cow dairies. They also have a line of custom made applicators. "We are a customer service based company. If our customers aren't happy, then we aren't happy."

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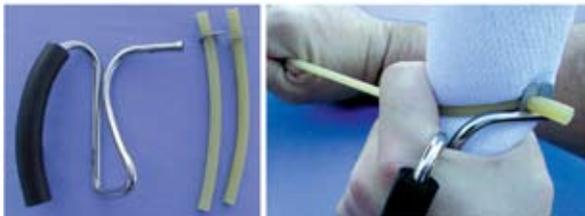
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# Needle-Guard™ Vaccination Table by Tower Stool LLC

**T**ower Stool Company is proud to introduce the innovative, new Needle-Guard™ Vaccination Table (patent number D613,525), which will make inoculating farm and ranch animals far less stressful. The Vaccination Table was designed with the help of South Dakota ranchers to make the vaccinating process easier, safer, and more efficient.



The Needle-Guard™ features 4 color-coded holsters for vaccine guns that allow for easy, controlled access during the stressful vaccination process. The holsters will accommodate both plastic and metal guns and keep them out of direct sunlight when not in use. The color coded holsters hold up to four

different vaccines in precise order, eliminating costly mix-ups and mistakes. The holsters are easily removable for cleaning and storage. The Needle-Guard contains a heat distribution method for warming vaccines during cold weather use. In addition the tankards can be used to store ice or dry ice to cool vaccines in hot weather.

## KEEP VACCINES ORGANIZED & TEMPERATURE CONTROLLED

The Needle-Guard™ also features 2 large tankards for holding extra vaccine, disinfectant for cleanup, and waste by-products. These extra large waterproof tankards have hard plastic flip-top lids and brass plated steel hinges. Like the holsters, the tankards are easily removable for cleaning and storage. Veterinarians know that vaccines are more effective when kept at normal room temperature. The Needle-Guard™ provides a stable base for vaccinating even in the most rugged environment making the entire process more efficient and effective. The table can be set-up even while wearing gloves in a matter of seconds. Like all Tower Stool Products, the Needle-Guard™ folds flat for easy transportation and compact storage.

The Needle-Guard™ is constructed of Baltic Birch wood with brass plated steel hinges. The table has a mar-resistant polyurethane finish and the legs are dipped in hard plastic to keep them from absorbing moisture from the ground. With over 90 square inches of workspace the Needle-Guard™ provides an ample, stable work platform that can be assembled in seconds. The table weighs 27 pounds so it can be moved easily by both men and women.

For more information, email: [towerstoolco@gwtc.net](mailto:towerstoolco@gwtc.net) or visit: [www.towerstool.com](http://www.towerstool.com)

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# ADVERTISERS INDEX

ADVERTISER	WEBSITE	PAGE	ADVERTISER	WEBSITE	PAGE
A1 Mist Sprayers	www.mistsprayers.com	34	Latec Instruments Inc.	www.latec.on.ca	37
Aeroswint LLC	www.aeroswint.net	21	Load Line Manufacturing Inc.	www.loadline.ca	49
AGPROfessionals LLC	www.agpros.com	23	Maize Corporation	www.maizeparts.com	21
Agri-Trac, Inc.	www.agritraction.com	46	McTavish Steel Works Ltd.	www.mctavishsteelworks.com	51
Air Ride Technologies, LLC	www.airridecab.com	21	Mike's Equipment Company	www.mikesequipment.com	49
Bakko Industries Inc	www.thejugwaterer.com	39	Milk Specialties Global	www.milkspecialtiesglobal.com	43
Big Tractor Parts, Inc	www.bigtractorparts.com	49	Muv-All Trailer Company	muvaltrailer.com	27
Bio-S.I. Technology LLC	www.biositechnology.com	11	Nokian Tyres Inc.	www.nokianheavytyres.com	15
C & R Supply, Inc.	www.crsupply.com	23	Northern Ag Mist Sprayers	www.northernagmistsprayer.com	37
Clarks Ag Supply	www.clarksagsupply.com	30	One Call of Wyoming	call811.com	50
Colorado Certified Seed	coloradocertifiedpotatogrowers.com	14	PBI Parlor Systems	pbiparlorsystems.com	39
Colorado Hay Probe	www.udyone.com	48	Pretty Good Twine	www.prettygoodtwine.com	10
Courtland Waste Handling, Inc.	www.courtlandwaste.com	19	Phase - A - Matic	www.phase-a-matic.com	19
Cross Manufacturing Inc	www.crossmfg.com	32	Pulse USA	www.pulseusa.com	13
CVR Manufacturing, Inc.	www.heatsource1.com	29	Rataway	www.rataway.com	49
Dairy Farmers of America	www.dfamilk.com	46	Rawhide Portable Corral, Inc	www.rawhideportablecorral.com	42
Dairyland Hay & Straw LLC		48	Roaring Fork Valley Co-Op	roaringforkvalleycoop.com	19
Dakotah Toys LTD	www.dakotahtoyparts.com	48	Roberts Seed, Inc.	www.robertsseed.com	12
Dalton Ag Products	www.DaltonAg.com	29	Ron's Manufacturing	www.ronsmfg.com	14
Davey Joans		7	Rosendahl Farms Seed	www.seedandfeed.biz	31
De Dell Seeds Incorporated	www.dedellseeds.com	12	S & S Pipe & Steel, Inc.		48
Deaton Nutrition, Inc.	www.multisile.com	44	Safety Zone Calf Catchers	www.SafetyZoneCalfCatchers.com	40
D. J. Reveal Inc	www.reveal4-n-1.com	32	Seed Inc.	www.seedinc.biz	49
Doda USA Inc.	www.dodausa.com	23	Sinclair Transportation Co.	PipelineAgSafety.org	17
Dons irrigation LLC	donsirrigationllc.com	25	Sloan Express	www.sloanex.com	5
Double J Mfg & Repair Inc	www.DoubleJMfg.com	46	Spokane Ag Expo	AgShow.org	3
E Rissler Mfg. Inc.		30	Sprinkler Head Rebuilders		49
E-Kay Enterprises LTD	www.e-kay.ca	9	Stray Voltage Consulting	www.strayvoltageconsulting.org	42
E Tip, Inc	www.etipinc.com	24	Sunny D Mfg., Co. Inc		35
Evergreen Implement	potatoes.eiijd.com	36	Synthetic Resources, Inc.	www.prettygoodtwine.com	10
Feed Train LLC	www.feedtrain.com	41	Terra Drive Systems	www.mudhog.com	33
Fehr Cab Interiors	www.fehrcab.com	21	Texas Plant & Soil Lab	TexasPlantAndSoilLab.com	2
Flynn Farms Clinton LTD	flynnfarms.ca	48	Titan Trailer Mfg	www.titantrailer.com	8
Frederick Harvesting	www.frederickharvesting.com	48	Tower Stool Company LLC	www.towerstool.com	45
FRT Company	www.frtco.com	49	TSGC Inc	www.tsgcinc.com	26
G J Verti-Line Pumps, Inc		49	Ubly Bean Knife Mfg, Inc	www.ublybean.com	29
Groff Ag	www.GroffAg.com	23	Udy Corp	www.udyone.com	48
H & E Innovations LLC	www.thefleckviehguy.com	45	United Power	www.unitedpower.com	48
H & M Gopher Control	www.hmgophercontrol.com	25	US Custom Harvesters Inc	www.uschi.com	16
Hanson Silos	hansonsilo.com	48	USA Fuel Trailer	www.seedandfeed.biz	31
Herbruck's Poultry Ranch, Inc	www.herbrucks.com	8	Vermeer Rocky Mountain	vermeerrockymountain.com	37
HFL Fabricating	www.hflfabricating.com	27	VP Buildings	www.vp.com	41
Indiana Warm Floors	www.indianawarmfloors.com	48	Walinga USA Inc	www.walinga.com	52
InoSol Co, LLC	www.inosol.com	44	Wellert's A. C. Parts	www.wellertsacparts.com	49
Kunafin - The Insectary	www.kunafin.com	46	Wilger Inc	www.wilger.net	16

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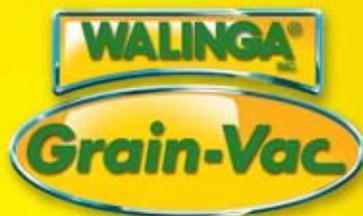


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