MAJOR BENEFITS OF THE MID ROW BANDER® SYSTEM IN DRY CONDITIONS.

New Model! 3420-80 PHD
The Big “Little Brother” of the 3420 PHD Family

How’s Your “P”?

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The era of unprecedented prosperity for producers of commodities including grain is likely over for a while. For the grain farming sector, the rapid expansion of the ethanol industry, that dramatically increased the consumption of corn, has ended and ample stocks are keeping prices low. To make matters worse, the remarkable strengthening of the U.S. dollar versus virtually all other currencies has correspondingly decreased the price that farmers are receiving. Grain prices may have dropped but the cost of land has risen dramatically during the previous five or six years with land prices having doubled or even tripled thereby increasing rent or financing costs. Seed costs, the costs of domestically built machinery and labor costs have also increased. Thus, the margins for the grain producer are very thin. Like any other business person, farmers need to look for ways to reduce their costs of production and get the most out of their inputs. One-pass seeding with mid row banding of the nitrogen based fertilizers is one of the techniques that is available to reduce costs and get the best return on the fertilizer that is applied. 

Also, however, one of the effects of the increased strength of the U.S. dollar is that it makes foreign built equipment less expensive, including the equipment manufactured by Bourgault Industries Ltd. As was the case before the unprecedented run up in grain prices that began in 2008, with the major tightening in margins and aggressive competition for land, the good management skills that were required for survival prior to 2008 will be required for ongoing success. And now, given the size of many farms, operating a modern farm requires asset management skills and people leadership skills. Some people are natural leaders so they find leading and managing people quite energizing and generally rewarding. However, those farmers who are not skilled in leading people are finding the people aspect of their operation the most stressful part of farming.

Because no one can predict the future, the best managers “always” keep their enterprises positioned to withstand adversity that could include a significant drop in grain prices, a significant increase in interest rates and adverse growing conditions due to excess rainfall, drought, and/or an early fall frost. Unless one is prepared for such difficulties, when they do occur (and they always do at some point), the outcome is usually either major financial problems or even bankruptcy. However, as has been the case in the past, it is the difficult times that present major opportunities for the best visionary managers to grow their enterprises.

Last year, spring rainfall was quite limited in the western half of the Northern Plains with rainfall becoming more general during the summer. During this past winter, there was also not much snowfall in this same area, which meteorologists attribute to the strong El Niño of 2015/16. If these dry areas have remained dry up until now, yield potential will have been greatly reduced. The lesson learned throughout most of the 1980’s, in the early 1990’s as well as in 2001 and 2002 was that conserving moisture and being able to produce good emergence in limited moisture conditions often meant the difference between a good crop and a poor crop. If the crop did not establish properly in a spring when rainfall was delayed until late into the spring, even if adequate rainfall to produce a good crop did arrive, the crop was not be able to recover and take advantage of it.

Last June, Bourgault Industries Ltd. and Agriculture and Agri-Food Canada released a Joint Information Notice as part of a settlement of long standing legal dispute regarding the results of a study that compared side-banding to mid row banding. An excerpt from the notice that was agreed to by both Agriculture Canada and Bourgault refers specifically to performance differences that were demonstrated in the study in dry conditions. It reads as follows:

“The parties agreed, however, that side band systems have higher seed-bed disturbance compared with mid-row band systems, and that under dry conditions, this has the potential to reduce or delay crop emergence or reduce yield.”

Below you will find the results of a study that was designed to record the history of the rainfall patterns on the Canadian Prairies for more than 900 years. It was

Drought Frequency & Severity for the Prairie Provinces (1108-2010)

Dr. Dave Sauchyn, University of Regina
done by studying tree rings. It is clear from information that droughts prevailed far more than the wet periods. It is in dry conditions that Mid Row Banders® present farmers with a major advantage over side-banding systems. With the current side-banding systems that deposit nitrogen based fertilizer, or a blend of nitrogen based fertilizers and phosphate at 1" to 1-½" to the side and 1" below the seed, there are 5 factors that promote reduced emergence in a dry spring:

1) Soil fracturing to the side and below the seedbed area promotes increased moisture losses.
2) In dry soil, given how the soil fractures irregularly, seed placement becomes more erratic with more seed falling into the fertilizer band.
3) The side-banded fertilizer remains concentrated near the seed for an extended period, which tends to be toxic to seedlings.
4) Salt effect draws moisture away from the seed and into the fertilizer band due to osmosis.
5) Limited packing overtop of the seed promotes increased moisture losses.

Additionally, a factor that can reduce yield is nitrogen losses. *Recent studies have shown that whenever there is less than two inches of soil overtop of the nitrogen fertilizer band, which is often the case with side-banding, a significant amount of the nitrogen can be lost to the atmosphere.* As was experienced in some of the dry areas last spring, when rainfall is significantly delayed on fields that have been seeded with a side-banding unit, all of these factors can combine to produce poor emergence results. Fortunately, last year rainfall did rescue many of the crops that had emerged poorly. However, if the rainfall had been delayed by another week or had the fall not been frost free until the crops were mature, the results would have been much different.

It is not a situation of “if” the next drought cycle will arrive, the question is when. And when it does arrive, as has been the case historically, it is also likely that the next drought cycle will be lengthy. There are very few farmers that could withstand the consequences of poor emergence results for 5 to 10 years.

It is interesting to note from the historical data that average amounts of rainfall seldom occur in any given year. Rainfall amounts tend to cycle from excessively dry to excessively wet and back to dry. Thus, in order to be in the best position to produce the best crop every year, farmers need to be positioned to deal with the extremes. *Over the past decade of overly wet conditions, Bourgault’s efforts have been to develop drills that could handle wet conditions without giving away their ability to produce good results in drier conditions.* The technology to obtain good emergence in dry conditions including the development of Mid Row Bander® system was done during the dry period of 1980 to 2002. In dry conditions, a narrow knife opener and mid row coulters on a 3320 Air Hoe Drill will produce minimal soil disturbance. Because the soil openers are mounted on a heavy duty frame, the 3320 will penetrate dry soil. With the hydraulic pressure dialed right up, the 3320 will penetrate dry soil. With the hydraulic pressure dialed right up, the 3320 will pack aggressively. However, a 3320 equipped with the Hi-Flotation option, with its hydraulically adjustable packing pressure dialed back, will allow a farmer to do a good seeding job in wet conditions. *Thus, with a 3320 HF drill, a farmer is able to deal effectively with both dry and wet conditions, which are in fact far more normal than average rainfall conditions.*

We trust that you will find the articles in this publication informative. We are pleased to be able to illustrate some new products as well as to provide you with some information on some of the improvements that we have made to existing products. The publication also contains information on phosphate fertilizer positioning that we expect that you will find very interesting given that growing larger crops requires more phosphate to be applied. *At Bourgault, we are constantly striving to develop equipment that promotes your success in order to ensure our success.*
7 Major Benefits of the Mid Row Bander System in Dry Conditions.

Farmers who adopted the Bourgault one-pass seeding system with Mid Row Banders® have reaped the benefits provided by placing the crop’s nitrogen requirements at the optimal location, between every other seed row. The wide array of agronomic benefits stemming from the ability to maintain superior seedbed integrity, while guaranteeing seed-to-fertilizer separation has been documented by in-house and third party research. Today, over 80% of all Bourgault drills are purchased with Mid Row Banders® – many purchases are by repeat customers.

Concerns about the effectivity of the Bourgault MRB® system have long been put to bed. With general weather patterns indicating drier spring seeding conditions for the future, it is more important than ever to consider MRBs® as part of your next seeding system.

MRBs® preserve existing soil moisture.

The retention of existing soil moisture is critical in dry seeding conditions to ensure timely & even germination. Seeding systems that utilize MRBs® to apply the majority of the nitrogen & sulphur requirements allow producers to employ a low disturbance opener for seed & starter fertilizer. Less soil will be disturbed & the direct packing over the seedrow keeps valuable moisture with the seed. This characteristic will also help preserve last season’s standing stubble for protection from drying winds.

* MRB, MRBs, Mid Row Bander and Mid Row Banders are trademarks of Bourgault Industries Ltd.
### 7 MAJOR BENEFITS OF SEEDING WITH MRBs IN DRY CONDITIONS

**Benefit 2**

**MRBs® maintain seedbed integrity.**

Bourgault seeding systems with MRBs® can provide consistent seed placement even in dry, challenging conditions. By applying the nitrogen & sulphur fertilizers with coulter openers, low disturbance single-shoot seed openers can be used, producing a firm, high quality seedbed. This low disturbance approach enhances the drill’s ability to maintain a consistent seed depth.

**Diagram:**
- Fertilizer (nitrogen & sulphur based)
- Seed
- Starter Fertilizer

- MRBs® place fertilizers without disturbing the seedbed.
- Seed placed with a single-shoot opener creates a firm seedbed.

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**Benefit 3**

**MRBs® provide a smooth field finish.**

The surface of the field is much smoother behind drills equipped with MRBs®; lower soil disturbance = smoother fields. This saves wear & tear, not only on field equipment, but also on farmer’s backs! Also, MRB® coulters mounted on the front of the drill cut through field residue before reaching the seed openers, avoiding straw bunching that leads to impaired emergence & harvesting operations.

**Diagram:**
- Fertilizer (nitrogen & sulphur based)
- Seed
- Starter Fertilizer

- Low disturbance coulter contributes to a smooth field finish.
- Single-shoot openers, with excellent soil flow characteristics can be used, resulting in the smoothest field finish possible.

(Cont’d on page 6)
MRBs® safely place nitrogen & sulphur fertilizers.

The initial state of both nitrogen & sulphur fertilizers is toxic to the seed. Some fertilizer programs & variable rate maps call for very high rates during seeding. MRBs® ensure plant safety by placing nitrogen & sulphur between every other row, providing roots timely nutrient access as the conversion to the more mobile and non-toxic forms take place. The double concentration of the fertilizer in the mid row band will also increase the conversion time, extending the availability of nutrients through the growing season of the crop.

MRBs® establish a root dominant environment.

There is adequate nutrients from the starter fertilizer, the soil and the seed itself for germination and initial seedling growth. At the same time, the mid row banded fertilizer is converting nitrogen from the initial toxic forms to the more mobile and non-toxic forms. As developing roots encounter the nutrients emanating from the fertilizer band, the plant’s roots will respondingly increase in size to uptake the nutrients that are available in the area into which they proliferate. The development of a large root system will allow the plant to also maximize moisture uptake, which is especially important in dry years.
**7 MAJOR BENEFITS OF SEEDING WITH MRBs IN DRY CONDITIONS**

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**6. MRBs® protect the seed from dessication.**

Virtually all fertilizers are a form of salt, which has a strong affinity to water. If placed in too great of a concentration too close to the seed, it will draw moisture away from the seed & surrounding soil. MRBs® place these fertilizers at an ideal location – far enough to prevent desiccation even in dry conditions, but close enough to be easily accessed by the plants after conversion.

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**7. MRBs® can eliminate nitrogen loss.**

According to independent research, fertilizer loss due to volatilization (gassing off) robs farmers of potential profit—a threat that is even greater when conditions are dry. Testing conducted by the Bourgault agronomy team over the summer of 2015 observed differences in nitrogen loss & crop yield when comparing nitrogen banded at 1" & 2" depths, with ideal moisture conditions. Drills with MRBs® allow for the adjustment of fertilizer placement independent to the seed depth. This critical feature allows producers to band the nitrogen as deep as conditions dictate to reach moisture & minimize nitrogen loss.

View "Bourgault Agronomy Dosimeter Trials – 2015" on the Bourgault You Tube channel.
NEW Bourgault 3420 - 80 PHD™ (QDA & XTC)

"LITTLE BROTHER" OF THE 3420 PHD FAMILY.

Twelve months ago the farming community experienced a paradigm shift regarding seeding technology when the Bourgault 100’ 3420 Paralink Hoe Drill was released to the public at Canada's Farm Progress Show in Regina.

Producers saw it was now possible to achieve unprecedented efficiency with a single system and still have the benefits of 10" seed row spacing with Mid Row Banders®. Throughout the 3 day show, a steady stream of patrons were drawn to the 100’ 3420 PHD, impressed by the durable construction and the ingenuity of the design. Visitors were captivated by the video presentation that demonstrated how the massive 100' drill was capable of transforming to only 18'2" wide and 16' high for transport. Equally impressive was when in transport, the drill’s ability to manage turns and approaches with relative ease.

The feedback from the farming community was overwhelmingly positive, with many comments of support on this significant change in drill design. A common inquiry was as to whether Bourgault was going to develop a 3420 with the industry leading TransFold™ design that would better fit their operation.

For 2017, Bourgault is very pleased to introduce a new member to the 3420 family, the 80’ 3420 Paralink™ Hoe Drill. Available in a QDA or XTC configuration, the 3420-80 brings forward all the design benefits of the 3420-100 in a size that suits many of today’s producers.
The TransFold™ system is identical to the 100’, offering a transport height and width that will greatly reduce stress when travelling along tight roads or encountering driveways and intersections. The Topcon X30 Apollo system is used for both the TransFold™ and steering features.

The short contour depth will allow 3420s the ability to follow ground contours very well. When equipped with the XTC openers, the contour-ability is unmatched by any independent drill.

Excellent flotation is achieved with substantially sized tires both on the front and in-frame. The TreadLite™ flotation system is designed to expand the seeding window as it will carry the 3420s through softer fields as compared to standard (non HF drills). A float setting is accessible through the X30 if the operator gets caught in a sticky situation.

Bourgault believes in providing farmers with a wide range of choices so they can select what works best for their operation. The addition of the 3420-80 provides a size overlap between the Series 3420 and 3320 Paralink™ Hoe Drills, each with their specific strengths. The 3420 provides an extremely low and narrow transport profile, while the 3320s are a cleaner design. The 3320s, when selected with the Hi-Flotation option offer unmatched flotation, whereas the 3420 has the advantage regarding contour depth. The good news is that regardless of the choice, farmers will receive a superior built seeding implement backed by the best warranty in the industry.

### MODEL

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<tr>
<td>Transport Length</td>
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<td>69’</td>
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### Weight (lb) estimates only

| 10' w MRB™,     | 65,000  | 75,000  |
| (Rear Tow Hitch & TreadLite™)|        |         |
| 12' w MRB™,     | 62,800  | 71,000  |
| (Rear Tow Hitch & TreadLite™)|        |         |

### Packer Options

- 4.8” Pneumatic / 4.5” V-style Semi-Pneumatic
- 4.5” Semi-Pneumatic & 5.4” Semi-Pneumatic

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3420 PHD available with PackMaster™ option

(Cont’d on page 10)  www.bourgault.com
Ryan Miller is part of Fagnou Farms, which, along with his father-in-law, Marcel Fagnou, and brother-in-law, Craig Fagnou, operate a mixed grain operation north of St. Brieux, SK. Fagnou Farms manage approximately 9000 acres, with a crop rotation of wheat, canola, oats and barley. For the past two springs and three falls, Ryan has been test operating a Bourgault 3420-100 Paralink™ Hoe Drill, logging over 10,000 acres on the 3420. Ryan reports that seeding conditions over the past two years have been very good with good soil moisture. As part of the prototype program, many of Ryan’s observations and suggestions were invaluable to the 3420 Design Team.

When asked about soil penetration and consistent operation across variable field conditions (i.e. changes in amounts of residue, different soil types, etc.) Ryan responded that "...soil penetration was not an issue in the spring due to moist conditions. In the fall with drier conditions, we used it to band fertilizer at 2.5" to 3" deep, and it was still good with the 1" vertical openers we had on. The depth was very consistent from one field to another. It didn’t matter what soil type we were in.”

When asked which features were the most important, Ryan said that: “…every field we seeded had great germination [and regarding productivity] on one mile long field the monitor showed that I was averaging 60 acres per hour.”

Ryan further commented, “I was impressed with how well it went in and out of transport and more tires on the ground during transport meant less chance of damage when moving down rough country roads.”

“Also, a feature that I really liked was the Float Feature. If you are getting stuck or seeding over large, rough limestones, you put it into float and it saves you from getting stuck or from damaging your openers.”

Overall, Ryan’s comments indicated that they were happy with the performance of the 3420 and noted that throughout the co-operating process “… improvements were made in the time that we worked together.”

Bourgault is extremely appreciative of co-operators like Ryan Miller and the Fagnous. Co-operator’s feedback is invaluable to new product design allowing Bourgault to assess and adjust their designs prior to the product release. Co-operator’s practical insight and efforts putting our prototypes through real world operation ensures future Bourgault customers have the best results with their new equipment.

The Cutting Edge - Bourgault Industries Ltd.
To Pack or How to Pack? (THAT is the question)

In order to fully appreciate the answer, one must understand the affect of variable field conditions on the opener. When seeding, there are 3 main forces applied to the opener; draft force on the seed opener, vertical force on the packer tire, and hydraulic cylinder force. The hydraulic cylinder force must resist both the draft force on the seed opener and the packing force. Therefore, if the hydraulic pressure is constant, but the draft force changes, then the packing force will also change. As a result, the packing force will inevitably vary as the drill seeds across varying field conditions. It therefore stands to reason that in order to achieve uniform packing across the field, hydraulic force must be adjusted as field conditions vary...introducing the all-new PackMaster™ option!

PackMaster™ Option How It Works.

> One of the packer spindles is equipped with a load cell to measure the actual packing force exerted on the ground by that packer tire.

> The operator first sets the desired packing force. If during operation the draft force on the opener changes, so will the downforce of the packer wheel. This change is monitored by the X30, which will modulate the drill’s opener hydraulic pressure to maintain the set packing force.

> Two control modes are available:
  - **Constant Packing Force** Hydraulic pressure is modulated to maintain even packing.
  - **Constant Hydraulic Pressure** Hydraulic pressure is maintained (original configuration).

> The control screen on the X30 Apollo system shows drill raise/lower state, opener hydraulic pressure, packing force and pressure/force set value.

> Moves all drill control functions to the X30. (The 405/410 drill control is not required when this option is selected.)

> Maintains all of the benefits of LiftMaster™ (Refer to page 29).

> Available on 2017 model year 3320 PHD, 3420 PHD, and 3720 ICD paired with 7000 Series air seeders equipped with the X30 Apollo system. Retrofit kits available for older systems equipped with X30 Apollo systems.
Have you ever asked yourself, “how much phosphorus should I be putting down with my canola?”, or “how can I put down more phosphorus safely in a one-pass system?” If you have, you’re not alone. Many producers have had these questions cross their minds or are being questioned from across the table at the local coffee shop. In 2015, Bourgault Industries set out to find some answers.

Hungry For Phosphorus?

Many soils in the Great Northern Plains are deficient in phosphorus (P) because applied P₂O₅ fertilizer has simply not matched the removal rates historically and especially with today’s high yielding crops. For example, if you grow a 40 bu/acre canola crop, you will remove roughly 35-40 lbs of P₂O₅ in the seed. Due to P being essentially immobile in the soil, it is commonly placed with the seed. Seed safety rates range between 20-25 lbs of P₂O₅ in the seed-row (depending on the farm’s location) which is where many producers max out their rates. Inevitably, there is a net draw down of P from the soil following these guidelines for canola, and many soil tests are starting to show this decline.

Phosphorus deficiency is known as the ‘hidden hunger’ because most producers do not see a distinct plant symptom that shows the plant is deficient. The symptoms can be identified easier when grown next to plants that are not deficient, like in strip trials, which contrast the difference between healthy and deficient plants. Most notably, deficient plants will have delayed emergence, sluggish growth, be less competitive and less productive.

Fertilizer Placement Comparison Trial

Large scale strip trials were established near St. Brieux, SK. Each treatment was 30’ wide by 500’ long and replicated three times. Harvest results were collected via a weigh wagon and samples taken to standardize moisture levels and dockage between treatments.
A Bourgault leading L7550 tank was used along with three different seeding tools capable of placing fertilizer in different locations relative to the seed; the 3320 PHD, 3720 ICD, and the Dual Knife side-banding system.

We observed visual differences during the growing season in the treatments conducted with the Bourgault 3320, seen in the pictures on the right. On July 8, 2015, you can see some treatments are flowering (yellow) and some are not (green). All treatments with P placed in the seed row (SR) were visually ahead of the treatments without P in the SR, indicating a P "pop-up" effect. The treatment with no P looks noticeably similar to when all of the P was placed in the mid row band with the nitrogen band. Also known as a 'hot band', roots are unable to reach the P in a nitrogen band quickly due to being surrounded by nitrogen in its toxic form. In addition, the immobile characteristic of P restricts it from moving out of the band of nitrogen.

On July 20th, the treatments had visually changed. The treatment with no P had flowered and had finished flowering at this point. The treatment with 55 lbs $P_2O_5$ in the SR had flowered earlier, and had finished flowering. The treatment with all of the P in the MRB continued to flower longer. This indicated, with everything else being the same, that there was uptake of P from the MRB later in the season. The last two treatments where 15 lb of $P_2O_5$ was placed in the SR started flowering at the same time (at the earlier date) as the plots with all of the P in the SR. However, the treatment with the additional P in the MRB continued to flower longer, again, indicating that there is uptake later in the season from the MRBs.

Research indicates an uptake of 1.30 lbs/bushel of P with the plant, with a removal rate of .91 lbs per bushel with the canola. A yield goal of 60 bu/acre was targeted so approximately 55 lbs of $P_2O_5$ would be expected to be removed. The treatments were conducted with a dry form of phosphate fertilizer, 11-52-0 Monoammonium Phosphate (MAP). 108 lbs/ac of MAP was needed to achieve the expected removal rate.
Pro Till currently has DRILLS in stock:

NEW 3720 - 50ft single disc drill w/ MRBs, 6550 w/ dlx auger and seed bag lift, ISO ready .......................................................... SOLD

NEW 3320 - 60ft QDA hoe drill w/ MRBs, 6550 w/ dlx auger and seed bag lift, ISO ready ....................................... CALL FOR DEMO

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5725 - 54ft single disc drill w/ MRBs, 6550 cart w/ dlx auger and 591 monitor................................................................. $90,000

5720 - 35ft single disc drill w/ MRBs, 5250 cart w/ 491 monitor ................................................................. $40,000

9400 - 40ft hoe drill w/ MRBs, 4300 cart w/ 491 monitor ...... $45,000

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When looking at the yield, we see that there are some significant differences between treatments. The two highest yielding treatments were the 55 lbs of P\textsubscript{2}O\textsubscript{5} in the SR, and the split application where 15 lbs of P\textsubscript{2}O\textsubscript{5} was placed in the SR and 40 lb of P\textsubscript{2}O\textsubscript{5} was placed in the MRB. Applying seed placed rates of P higher than what is recommended is a risky practice, but we believe that we were able to avoid the negative effects of the high SP P because of the very good soil moisture conditions at the time of seeding. The split application of P showed that you can obtain the highest yields while protecting yourself from seedling damage if the conditions are not as favorable.

The plant counts were affected by seed placed P, no matter which rate of P was placed in the SR. Again, the potential negative effects of high rates of seed placed P were not seen this year, but previous research has shown there can be detrimental effects to canola crops with seed placed rates of P exceeding the recommended safe limits.

This year we saw a yield response when replacement rates of phosphorus were applied to canola. Depending on the cost of 11-52-0, this may not be an economically sound approach in one year. In a no till system, P is continuously brought to the top of the soil structure via plant growth and decomposition where it can be unavailable for plant uptake. However, by placing P deeper in the soil with the MRBs, phosphorus application shows up for years after application because there is a greater chance of interception by future crops rooting system.

TO SEE HOW your roots can access phosphorus and other nutrients from the MRBs, stop by the booth at Canada’s Farm Progress Show to pick up your “Dig up your Roots” trowel! Bourgault Industries encourages all producers to understand what is happening below the soil as this is the basis for all yield potential.

If you’d like more information on this trial, including detailed information and results on the triple-shoot concept and side-band results, please visit: www.bourgault.com, click on the "Agronomy" tab and download the Fertilizer Placement Comparison Trial PDF.
The 2015 large scale Fertilizer Placement Comparison trials generated a lot of positive responses from agronomists and producers alike this past winter. The information generated from these trials can be used by producers to implement changes in their farming operations to increase the bottom line. To increase our knowledge base through replication, along with the interest and success in these trials, the Bourgault Agronomy Team will once again be conducting large scale Fertilizer Placement Comparison trials in 2016.
As was done last season, the 2016 trials will again focus on phosphorus placement as a starter nutrient in both canola and wheat, with replicated strip trials seeded using the most current seeding equipment available to producers. Yield will be collected via a weigh wagon with samples taken to equalize and account for moisture and dockage. Plant counts will be taken with differing rates of seed placed fertilizer along with crop maturity ratings and tissue analysis. A common question that kept arising while touring around this past winter was: “Has Bourgault done any testing with a liquid orthophosphate starter?” The answer simply being “no...not yet...” Due to this, there are several new treatments that have been added into this year’s trials. An orthophosphate liquid starter, along with a polyphosphate liquid starter treatment will be introduced to test against the commonly used dry 11-52-0 starter. A Bourgault Tillage Tools opener that applies the liquid in the seed trench prior to the seed being delivered will be installed on the Bourgault 3320 PHD to test the liquid phosphorus.

In addition to phosphorus trials, the Bourgault Agronomy Team will continue to conduct tests to determine the optimum depth of nitrogen bands as well as continuing the study of how nitrogen moves in the soil using PRS™ probes. Continuing these tests on a large scale is essential to add to our database of information that incorporates a range of spring conditions that farmers operate in. The research conducted by the Bourgault Agronomy Team is meant to be utilized by not only our customers, but all producers, to help improve the profitability of their farming operations.
IMPROVE YOUR YIELD WITH LESS SEED

Seed Brakes
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BOURGAULT DEALER LISTING

Now is the best time to buy a 2017 Bourgault Seeding System.
The Bourgault Early Order Program guarantees the best prices of the year.
(program ends June 24th 2016).
Visit your local Bourgault dealer to book the best seeding system available on
the market today.
An ongoing challenge of designing soil engaging tools in the agricultural market is achieving the fine balance between proper material selection matched with the appropriate metallurgical process that will deliver both optimal tool functionality, as well as long term wearability. Specifically, selecting materials that are hard enough to maintain the tool’s form in challenging environments, while being pliable enough to respond to the variable soil and stony conditions that the different tools may encounter.

Bourgault Tillage Tools (an independently owned and operated company from Bourgault Industries Ltd.) knows this challenge very well. Bourgault Tillage Tools, or BTT, has firmly established itself as a reputable company for designing and producing a wide range of soil engaging tools and has just recently opened up its line-up to include disc blades. Like any other soil engaging tool, disc blades present their own wearability challenges.

BTT Partners With Forges de Niaux—
A World Leader in Disc Blade Design
Approximately 13 years ago, Pat Yeager, Marketing and Sales Director for BTT, and Dean Bigelow, head of R&D, first visited Forges de Niaux (pronounced "new") located in the Pyrenees Mountains of Southern France to learn about their advanced metallurgical processes, especially their advancements in boron steel and its inherent strength characteristics. Founded in 1881, Forges de Niaux is recognized as a leader in Europe for developing high quality, long wearing disc blades. Forges de Niaux was the first company to commercialize boron steel disc blades with a hardness of 50 HRC (a metal’s HRC rating is established through indentation testing). Pat comments that: “...at the time there was no other disc blade in the world that had this hardness.” Since that time, Forges de Niaux has continued its endeavor of alloy development and metallurgical processes and has successfully achieved a winning combination of appropriate material and process with the release of its Niaux 200 material and process that it applies to its discs. The Niaux 200 disc is unique in that it has a range of hardness zones radiating from
the hub of the disc to its perimeter (achieved through a patented heat treating process). Around the hub of the disc, the hardness profile is softer (48-50 HRC). A softer hardness rating has a more malleable metal presentation; this allows the disc to bend and bounce back to its original form when it encounters an obstacle. While the central area of the Niaux 200 disc is more malleable, the outer edge is extremely hard (55-58 HRC); in fact, presently, it is harder than any other disc in the world! This extreme hardness allows the disc to retain its sharp cutting edge for maximum wear and long life.

**Testing the Niaux 200 Disc Blade**

A disc's wearability is contingent on many variables including: soil type, working depth, soil moisture content and machine speed. Wear is affected greatly by the machine's speed, whereby, a disc's wear relative to speed is not a linear relationship, but an exponential one.

Over the summer of 2014, BTT conducted extensive wear testing on the Niaux 200 disc blade. BTT tested the blade alongside a known competitor's blade. Testing included setting up 5 blades of each the Niaux 200 and a competitor's blade on a machine and running the blades in tough, abrasive conditions for a total of 404 hours at a speed of 4.5 MPH. The test results indicated that the Niaux 200 proved to have 21% less wear than the competitor's! (Forges de Niaux has comparison testing of their Niaux 200 disc using high speed machines that proved up to a 40% wear advantage with the Niaux 200!)

BTT is the licensed distributor for the Niaux 200 disc blade in Canada and some US states.

For 2017, the Bourgault 3720 Independent Coulter Drill and Bourgault Mid Row Banders will be standard equipped with discs made of the Niaux 200 boron material and that have undergone the patented Niaux 200 heat treating process; these discs are available as after market replacement discs for 3720 ICD, 3710 ICD and MRGBIIs.
did you know?

The Bourgault PDM Pro metering auger meters the tank down to just 6 cups of seed when empty, making the most of expensive canola seed!

Tank Clean-Out on a Bourgault 6000 & 7000 Series air seeder
To clean out a Bourgault tank, the sump plate on the PDM Pro meter is opened to direct the remaining canola into the canola bag. After a little sweeping, the fan starts to blow out the remaining seeds and the job is done!

The wide metering rollers, used by competitors, simply leave excessive expensive canola in the tank and require considerably more energy to clean the tank out. In fact, there are machines out there that use up to 5 metering rolls to meter the canola across the larger drills. How much product remains after seeding with a system like this? How much work is required to clean out a system like this? Several decades ago farmers seeded with implements like this, they were called box drills!

How many ways does a Bourgault air seeder clean out?
(this is not a joke)? Answer: just one

A Bourgault air seeder cleans out one way...the cleanest way.
Bourgault Air Seeders

**Customized for “Canola”**

Canola continues to be a significant cash crop in many areas of the U.S. Northern Plains. Are Bourgault air seeders built for seeding canola? Absolutely! There are many facets of the Bourgault air seeder design that allow it to seed canola better than the competition.

*Let’s review the process starting with filling.*

**Filling**

How many ways can you fill a Bourgault 7000 Series air seeder with canola (again, this not a joke)?

**Answer:** 7

It is capable of being filled by placing:

1/ bags into the convenient Saddle Tank,
2/ bags into the smallest volume compartment (tank number 2 on model L7800, tank number 3 on other 7000 models),
3/ bags with the BagLift into the smallest volume compartment (*note: The Saddle Tank is not available with the BagLift option*),
4/ mini-bulk bags with the BulkBoom into the Saddle Tank,
5/ mini-bulk bags with the BulkBoom into the smallest volume compartment,
6/ the conveyor or auger into the smallest volume compartment,
7/ the conveyor or auger through the FillChute™ and into the Saddle Tank.

*(Cont’d on page 24) www.bourgault.com*
1 **Tank Sizes and Splits**

The 6000 and 7000 Series tanks range significantly in size. The patented KNEX integral tank system allows the various tanks to be conveniently combined or separated to maximize acres between fills. For canola, the smallest volume tank ranges from 15 to 75 bushels and is separated from the adjacent tanks when seeding canola. When switching to other crops, this tank is typically combined with adjacent tanks to maximize seeding capacity.

Now that’s smart!

2 **The Saddle Tank option**

On the 7000 Series air seeder, the optional Saddle Tank is specifically designed for canola. It has a capacity of 20 bushels on the L7550 and 7550 models and 40 bushels on the larger units. Mounted lower to the ground on the left side of the air seeder, the Saddle Tank maximizes accessibility when filling the tank with seed bagged canola.

3 **The Saddle Tank Storage Platform**

Available option on Model 7700 and larger

To compliment the Saddle Tank option, a storage platform is mounted adjacent to it. The storage platform can house a pallet or a mini bulk bag of canola which can then be conveniently placed into the air seeder as required.

4 **The BulkBoom**

Available option on Model 7700 and larger

Taking it one step further, the BulkBoom handling system can remotely pick up mini-bulk bags off of the truck and lift them up to the tank top to be drained into the smallest volume tank. When equipped with a Saddle Tank, the BulkBoom quickly lifts the mini-bulk bag to be drained into the Saddle Tank and just like that badda BOOM badda bing, the Bulk BOOM has the job done!

5 **BagLift option**

On 6000 and 7000 Series air seeders configured without the Saddle Tank, the optional bag lift is used to conveniently lift bagged product to the tank top.

6 **FillChute™ option NEW for 2017**

The FillChute mounts off of the hand rail and hangs down into the Saddle Tank. With the FillChute, customers can fill the Saddle Tank using the auger or conveyor. The FillChute is just another example of Bourgault’s focus on seeding canola. When seeding other crops, the FillChute allows the Saddle Tank to be filled with alternate products for additional capacity.
OTHER ADVANTAGES OF USING BOURGAULT AIR SEEDERS FOR SEEDING CANOLA

**Metering**

With all Bourgault air seeders there is no requirement to change the meters to seed canola. Customers can choose a meter for the Saddle Tank or the smallest volume tank that allows low rates of canola and the ability to switch to other products such as inoculant or phosphate without changing the meter.

**Calibration**

Since the advent of the 5000 Series, Bourgault Owners have appreciated power calibration. This hydraulically-driven design enables a large sample to be taken for a more accurate meter setting. The X30 Apollo system stores calibration factors for future reference.

**Fans**

Bourgault air seeders use a fan for each of the airstreams. This allows the seed airstream fan (canola) to be easily set to the correct fan speed. Competitors’ systems can require dampers to be adjusted to obtain acceptable air stream velocities. The two fan system on the 7000 series is simply more effective.

**Superior Fertility Placement**

When seeding canola, Bourgault systems direct the highly mobile nitrogen and sulphur to the mid row band for maximum seed safety, while the immobile phosphate is separated from the ‘hot band’ of the nitrogen and placed with the seed, promoting early season P uptake. If higher rates of P are desired, recent studies have shown excellent results with a split phosphate application where some P is placed with the seed and the remainder is placed in the mid row band (see article on page 14). This dual feed zone application is gaining interest with customers who wish to place phosphate at rates that are higher than are safely recommend in the seed row. For split phosphate application, the Straight-Thru Primary Line design allows the contents of any tank to be directed into either air stream in under a minute.

**Blend On-the-Go**

Several types and significant amounts of fertilizer are required to produce a bumper crop of hybrid canola. With up to 5 tanks, Bourgault air seeders are agronomically designed for the job, providing customers with the ability to blend on-the-go, placing the correct product in the correct airstream at the correct rate. This allows you the flexibility to blend fertilizers that you’ve purchased in advance in order to capitalize on the best available prices and delivery from various suppliers.

In a variable rate application each product can now be changed as is desired, to meet application targets. Also, a split application of fertilizer between the seed row and mid row band is possible improving plant availability throughout the growing season and building residual levels of phosphate for future years to come.

**Camera System**

7000 Series owners can watch the PDM Pro meter the tank out via the video camera system. For 2017, the inside of the air seeder tanks are illuminated with LED lights, resulting in color video on the in-cab video monitor. This vivid color image informs the operator exactly when the seed has left the seeder. By comparison, competitors’ tanks do not provide this level of feedback of when the tank has or has not run out of seed. The metering rolls found on most of these systems require the operator to get into the tank and sweep the seed level over the meter to use as much of the canola seed as possible. Without video, it can be a real frustration for farmers using competitor’s systems to use all the seed without running out during the process. As customers know, canola seed does not come cheap. Every time a bag is opened an expense of at least $500 is realized.

**Better Auto Section Control**

With individual auto section on/off timings, up to 10 auto sections and drills that have contour depths that are amongst the shortest in the industry. Bourgault seeding systems with a 7000 Series deliver better section control performance. By comparison, some competitors’ tanks only have 5 auto sections and drills that are much deeper front to back. Bourgault, ASC lays the product on the line.

**Bourgault air seeders are designed to make you more cash.**
The Evolution of Bourgault Tillage

**Tillage—It’s In Our Roots**  The 9500 Floating Hitch Chisel Plow (FHCP) is the result of over 40 years of tillage research and development at Bourgault. In fact, the catalyst for Bourgault’s inception was the lack of available tillage options that worked effectively in stony conditions! In 1974, it was with the Commander Series, the first cultivator, that Bourgault was formed.

**The Tillage Evolution - A Response to Current Market Conditions**

Over the past 5 years, many areas in the Canadian prairies have experienced unusually wet conditions; this has translated into an increased demand for tillage equipment. Bourgault noticed that it wasn’t just an increase in demand for tillage units per se, but more specifically an increase in demand for the larger sized units. In 2012, 80% of chisel plow sales were of the 60’ model; in 2015, this number rose to 92%. With these factors in mind, Bourgault decided that it was time to develop a new floating hitch chisel plow design. The 9500 FHCP meets the need with 60’ and 70’ operating widths.

**Enhanced Durability**

At the heart of the 9500 FHCP development was a heightened focus on durability - more specifically, on the durability of the chisel plow’s running gear. Design enhancements such as adopting the proven walking caster design presently found on Bourgault seeding drills. As well as, narrowing and deepening of the axle stance for better contouring in uneven terrain.
**Float Above the Competition**

In order to enhance flotation and decrease draft in wet conditions, the tires have been upgraded to high load capacity 380/55R16.5 radial tires for the mainframe in-frame wheels and 13.5Lx15FI tires elsewhere on the drill including duals for the mainframe casters.

**Increased Stability in Transport**

One of the ongoing challenges of chisel plow design has been striking a balance between stability in transport and contourability in the field. In transport position, the high center of gravity and minimal weight on the front caster results in stability issues. The addition of a large air seeder in-tow may worsen this issue. To rectify this, the mainframe in-frame wheels were shifted back 32”; this helps to achieve the best compromise between field contourability and stability in transport.

**Redesigned Frame**

Frame strength was enhanced to meet the challenges presented by the increased power output of today’s tractors and the larger operating widths of this chisel plow. 9500 FHCP designer, Jesse Drayton, comments that: “...we designed a completely new frame that was simpler, stronger and appropriately matched to other design changes. One of the best parts of the new frame design was our ability to thoroughly stress test the frame for several loading scenarios using 3-D modelling; we were able to simulate scenarios such as high-draft tillage, wing-fold and rough terrain travel in transport. We predicted and corrected deficiencies in the initial design before a prototype was ever built, thus minimizing failures both in the prototype stage, and, more importantly in the finished product.”

**Compatibility with 7000 Series air seeders**

One of the great operational features of the 9500 FHCP is its compatibility with 7000 Series air seeders, including the ability to pair with even our largest 71300 air seeder! In order to maximize your operational flexibility, Bourgault is offering compatible airkits to match with any 6000 or 7000 air seeder.

The 9500 FHCP represents a culmination of over 40 years of tillage experience and design for Bourgault. The result is a durable, well designed chisel plow that can handle the rigorous demands of today’s conditions. The 9500 FHCP also delivers the performance characteristics necessary to seed and fertilize with the larger 6000 or 7000 Series air seeders. 

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**Larger tires for increased flotation in wet conditions.**

**Redesigned, durable frame that can withstand the rigors placed upon it by larger tractors and air seeders.”**
“Pursuing Perfection” has always been the goal at Bourgault Industries. Usually, this is most noticeable with the release of a new model designation with state-of-the-art technology, time saving features, and robust designs.

These conspicuous releases are taken notice by the grain-growing markets around the world. However, there is also a continual quest to improve upon equipment designs already in place. Through experience, feedback and advances in technology, opportunities to make smaller incremental improvements are made through the life of every model. Here are a few examples of some notable improvements:

1. **3320 XTC Opener**

When operating in extreme conditions, the Bourgault XTC opener has proven to provide exceptional land following characteristics. To better meet the rigor of varying terrain, Bourgault has improved the robustness of the depth adjust mechanism, changing the design from a slotted squeeze handle to an indexed pin system. Still able to retain ¼” depth increments, this fully retrofit-able change will extend the longevity through the extreme conditions the XTC opener may face.
2. **Improved Disc Wing Scraper on the 3720 Independent Coulter Drill**

The 3720 Independent Coulter Drill has set the standard for operators looking for the ultimate in low disturbance, one-pass seeding. Utilizing a robust, single disc opener for accurate seed placement, the 3720 ICD with Mid Row Banders® achieves zero-till seeding unlike any other style of seed drill on the market. A grease-able pin/bearing pivot system is employed to hold the disc at the precise angles required for effective operation in all soil conditions for years of trouble-free service. The Disc Wing scraper has notable improvements for 2017. This fully retrofit-able scraper has proven to provide consistent seed/fertilizer placement at the target depth in a wider variety of soils, moisture and operating conditions.

3. **LED Lighting for Exterior and With Interior Tank Cameras**

New production air seeders are being installed with in-tank lighting (inset picture). Previously, the cameras switched to an infrared mode to capture black and white images in complete darkness. Adding lighting inside the tanks improves the overall image quality and provides a vivid color image, allowing product levels to be more easily distinguished in the tanks. Retrofit kits are available through local Bourgault dealer locations. External tank lighting is now LED as well allowing for greater visibility when working at night.

4. **Saddle Tank FillChute™**

Bourgault has released the Saddle Tank FillChute™ option, allowing producers to use the air seeder auger or conveyor to fill the saddle tank. When not in use, the chute is conveniently stored in a holster on the side of the Saddle Tank. The FillChute™ is available on new 7700, L7800, 7950, and 71300 air seeders, or as an after-market kit for earlier models of the same designation.

5. **Drill Control**

Bourgault continues to provide more features through the Topcon X30 Apollo system, the latest being Drill Control. Two features are available under Drill Control – LiftMaster™ and PackMaster™. LiftMaster™ provides automatic lifting and lowering of the openers at the field headlands and was introduced in the 2016 model year. New for the 2017 model year is the PackMaster™ option, which controls the packing pressure applied during seeding. Once set, the PackMaster™ system will monitor and adjust hydraulic pressure to maintain consistent packing force even when seeding through varying soil conditions. Both are available as updates for existing independent drills paired with 7000 Series air seeders equipped with the X30 Apollo system.
The Northern Lights Short Line Railway

The transportation path that a single grain of wheat takes from the day that it is harvested, to the day that it pops out of the toaster in households across the country, is an extensive one. The associated costs of freight and handling with that single wheat kernel are significant; not only to the end consumer, but also, in turn, to the producer.

The Northern Lights Short Line Railway is an example of where producers and the surrounding community have taken back some control over associated freight and elevation costs, allowing local farmers to ship their grain via producer cars. The Northern Lights Short Line Railway is owned by a group of 70 farmers, 4 rural municipalities, as well as the city of Melfort, the towns of Kinistino and Birch Hills and the village of Beatty, Saskatchewan. The Northern Lights Short Line is comprised of 56 kilometers of Canadian National Railway track stretching from Melfort west to Birch Hills, SK. In combination with the stretch of track, the Northern Lights group purchased a locomotive that was previously being used in a mine in Quebec. To bring it to its new location in Saskatchewan, the engine was transferred on a barge across the St. Lawrence and delivered on CNR lines.

The railway hauled its first load of producer cars on November 27th, 2015 with their 1800 hp 1965 locomotive. The target for the first year of operation was to move 400 producer car loads of grain. To date, the goal has been met and the railway will likely move 600 car loads within the year.

Farm World and Bourgault are proud sponsors of this short line railway!
FALL TILLAGE
BENEFITS YOU CAN COUNT ON.

- LOOSE & AERATE SOIL FOR BETTER ROOT PENETRATION & GROWTH
- EFFECTIVELY DEAL WITH UNEVEN & INCREASED CROP RESIDUE
- TARGETED MANAGEMENT OF STUBBORN WEED POPULATIONS
- INCREASED SOIL TEMPERATURES IN SPRING
- HELP DRY OUT SOIL IN WET YEARS
- INCREASE SPRING SEEDING EFFICIENCY
- SMOOTH OUT RUTS LEFT FROM HARVEST

Talk to your local dealer about our full line-up of high-quality BTT Sweeps, Spikes & Fertilizer Knives.

To learn more visit www.tillagetools.com
Visit www.bourgault.com for the latest in Bourgault product offerings.

SEEDING
IS BELIEVING 2016 SEEDING DEMO.

Bourgault’s annual seeding demo will be taking place on
July 20th
in Minot, ND

Observe the new 80’ 3420 Paralink™ Hoe Drill (QDA), the 3320 Paralink™ Hoe Drill (QDA) and the 3720 Independent Coulter Drill paired with 7000 Series air seeders.

Registration with your Bourgault Dealer is required prior to attending the demo. Please register before July 13th.

More information & weather updates at:
www.bourgault.com / News & Events