

I SERIES
CD9120
FRAME MOUNTED SEEDER™





by Gerry Bourgault, P. Eng.

Bourgault Industries Ltd. has been manufacturing farm implements for nearly 50 years, specializing in tillage and seeding equipment. It has grown from a very modest 4,600 square foot facility in a small town in Saskatchewan, to more than ½ million square feet under roof. Bourgault equipment can be found on many of the large acreage farms around the world.

Bourgault first entered the market place when it introduced a dual purpose cultivator that could do the work of both a chisel plow and a field cultivator on the Western Canadian Prairies and the Northern US Plains. In 1980, which is more than 40 years ago now, Bourgault Industries Ltd. released its first air seeding system mating its line of dual purpose cultivators to a 138 bushel air cart. Since then, Bourgault has been steadily increasing the sizes and capabilities of its air seeding systems, now producing 100 foot air drills and 1,300 bushel air carts. However, one of the recent product developments has been the highly configurable line of Frame Mounted Seeders (FMS™). This line of seeding machines provides Farmers with the same outstanding features and options used on the largest of farms that use the largest equipment to obtain the highest levels of efficiency and achieve optimum placement of seed and fertilizer. The FMS I Series CD9120 coultter-based unit is a self-contained seeding system that provides accurate seed placement, extremely low soil disturbance, and when equipped with Mid Row Bander® Fertilizer Applicators (MRBs®), allows for the application of the highest rates of nitrogen in one pass without any worries of the nitrogen causing any germination and emergence problems and provides for complete nitrogen containment when the fertilizer is placed at an adequate depth.

I invite you to review this booklet to see how the I Series FMS CD9120 can best be configured to meet the needs of your operation. ■

FULLY CAPABLE, HIGHLY CONFIGURABLE SELF-CONTAINED AIR SEEDING SYSTEM

The **I Series Frame Mounted Seeder™** is a highly configurable seeding system that is designed with the same proven Bourgault ingenuity found on its ParaLink Coulter Drills™ and 9000 I Series air carts.

The list of seeding capabilities is long. How you combine them to meet your needs is up to you!



THE COULTER DRILL

The Bourgault ParaLink™ coulters drill is comprised of long-lasting components on a heavy, durable frame that features either the ParaLink Walking™ Opener or the ParaLink Row™ Opener.

Check out the CD9120 Drill features and options:

PLW™ OPENER
ParaLink Walking™ Opener



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PLR™ OPENER
ParaLink Row™ Opener



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DRILLCONTROL
GaugeMaster™/PackMaster™
LiftMaster™

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MIDROWBANDER®
Fertilizer Applicators



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HI-FLOTATION™
Drill Running Gear Option

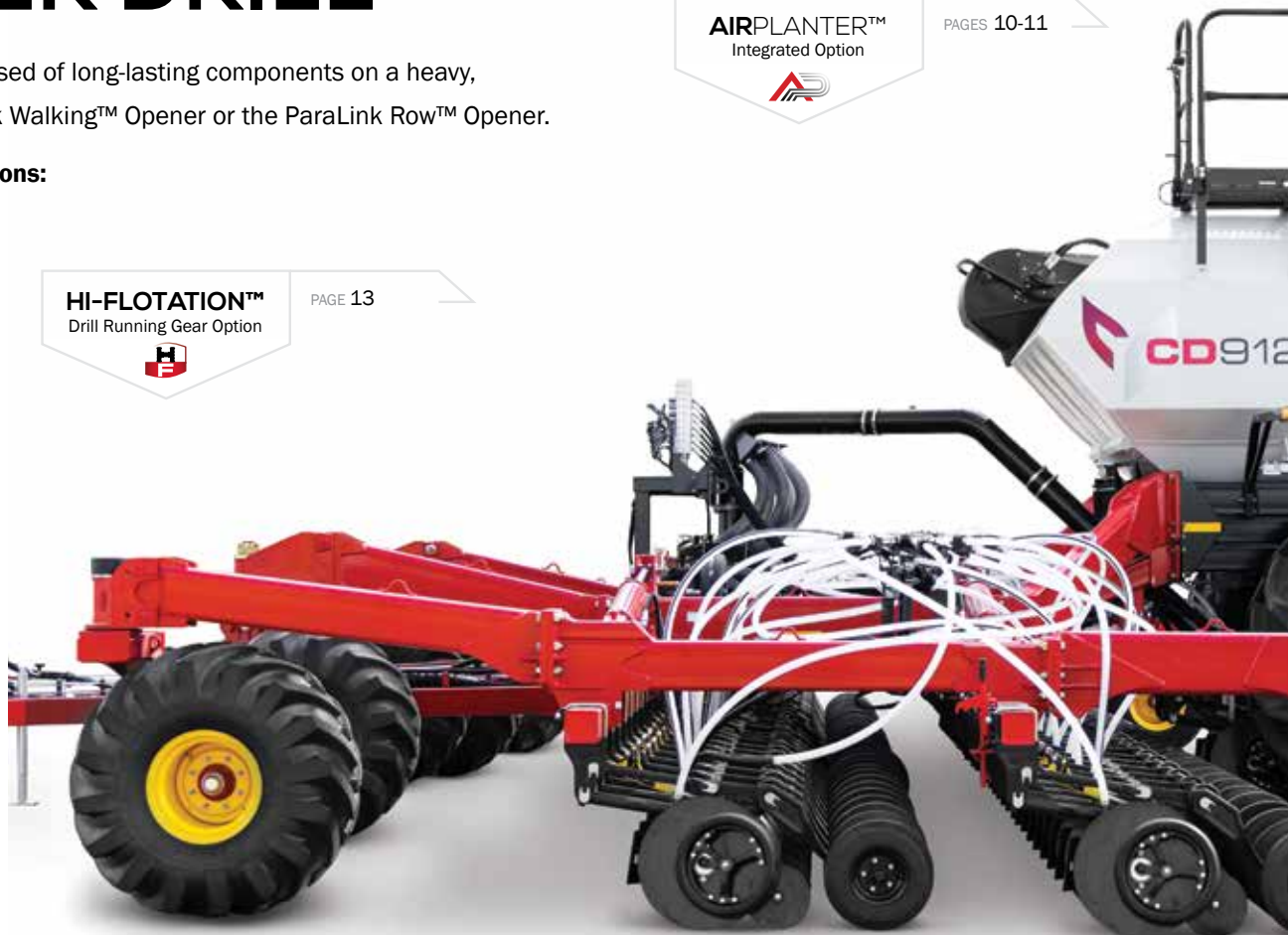


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AIRPLANTER™
Integrated Option



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THE AIR SEEDER TANK

The FMS™ Air Seeder Tank is designed with the same proven ingenuity found on the large Bourgault 9000 I Series air cart tanks, **features such as:**

INDIVIDUAL Tanks



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X35 OR ISO APOLLO Control Systems

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WINGTANK™ Third Tank Option



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DYNACAL™ Live Rate Monitoring



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PDMPRO™ Metering System



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DUALASC™ Auto Section Control



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PADDLE Conveyor

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EvenStreamPLUS™ Product Distribution System



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LARGE TIRE Options for Flotation

PAGE 18

THE COULTER DRILL

OUTSTANDING DURABILITY, ROBUST FRAME CONSTRUCTION

The heavier built 2-row, 5" x 5" frame of the **I Series CD9120 FMS™** achieves superior penetration where other units ride up.

The CD9120 is a 3-plex unit with a 40' operating width and a floating hitch; the CD9120 is available in 7.5", 10" and 12" spacing. A hydraulic lockout option is also available which allows the Operator to easily configure the drill into 15", 20" and 24" row spacing.

TWO OPENER OPTIONS are available on the CD9120 to suit your needs - the PLW™ and the PLR™. Bourgault durability and innovation is designed into both openers.

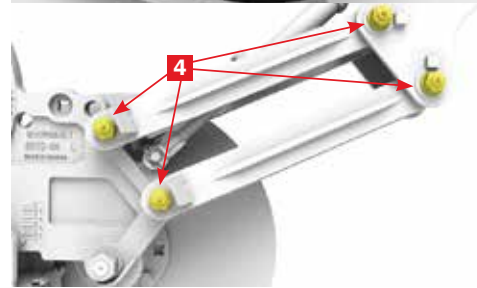
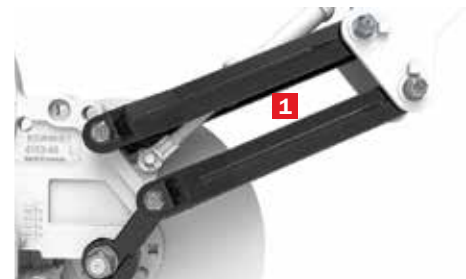
Both openers:

- 1** operate off of the ingenious parallel arm design that maintains a consistent angle on the seed boot's presentation to the soil which results in the seed boot maintaining a constant attack angle to the ground, which, in turn provides optimum seed placement;

- 2** employ superior coulters that are hardened in a way that better withstands abrasive conditions;
- 3** have two cleaner wheel options available to provide optimal seed depth accuracy:
 - A. *a narrow 3" option* - minimizes damage to standing stubble,
 - B. *a wider 4½" option* - provides increased stability in pre-worked or softer soils.

The spoked wheel design allows debris to exit the wheel.

- 4** use innovative components such as arm pivots designed to ensure a long life reducing maintenance.







THE PLW™ OPENER

CONTOUR-ABILITY & CONSISTENCY

The ParaLink Walking™ Coulter Opener achieves precise seed placement while maintaining seedbed integrity. The walking action between the cleaner and gauge wheel, both of which set the seed depth, minimizes the effects of a rough surface or old seed rows on seeding depth.



COULTER DRILL OPENER OPTIONS

FEATURES & OPTIONS OF THE PLW™ OPENER:

The ParaLink™ Walking Opener has 2 seed boot options:



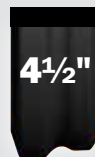
The LDx™ SEED BOOT provides ultra low soil disturbance and accurate seed placement;

If retaining precious moisture for quick germination is your primary goal, the PLW™ Opener combined with the LDx™ Seed Boot will meet your needs!

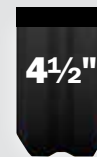


The DISK WING™ SEED BOOT OPTION is designed to avoid hair-pinning in the seed row. Starter fertilizer is directed to the bottom of the furrow and the seed is directed to a soil shelf created by the opener to the side of the coulter furrow. Available on 10" & 12" spacing only.

TWO PACKER WHEEL OPTIONS



4 1/2" Double-Shoulder Offset Packer is effective at closing the soil flap to achieve excellent seed to soil contact. Recommended to pair with LDx™ Seed Boot.



The 4 1/2" Double-Shoulder Packer Wheel is highly effective when combined with the Disk Wing™ Seed Boot.

Please note that all Bourgault packer options are semi-pneumatic.

THE PLR™ OPENER

VERSATILE COULTER SEED OPENER

The PLR™ Opener is designed to work in conjunction with the tried-and-true PDM Pro™ Volumetric Metering System and the optional Air Planter™ System.



FEATURES & OPTIONS OF THE PLR™ OPENER:

The ParaLink Row™ Opener (PLR™) provides two very distinct advantages in today's coulters drill market:

- 1 Developed in conjunction with the Air Planter™ System, the PLR™ offers Producers the distinct advantage of seeding and planting with the same implement!
- 2 The durability and ingenuity built into the PLR™ Opener makes it longer lasting and easier to set than the competition getting many seasons out of wearing components such as coulters or seed boots.

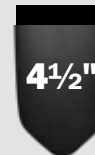
The PLR™ Opener not only supports both singulated or volumetrically metered seeding, it also allows Producers to place granular starter fertilizer with the planted seed.

TWO PACKER WHEEL OPTIONS

The packer wheel packs the loose soil that has filled the furrow to create a beneficial environment for quick and even germination.



4½" Wide Double-Shoulder Offset Packer is effective in directing soil over the furrow, as well as closing the soil flap. This packer is recommended when seeding into preworked or loose soils.



4½" V-Style Packer is recommended when seeding in minimum or no-till situations, to focus more of the packing directly over the seed row.

Please note that all Bourgault packer options are semi-pneumatic.



THE AIR PLANTER™ OPTION

SEED OR PLANT WITH ONE SYSTEM! (PLR™ OPENER REQUIRED)

The Air Planter™ Option with bulk fill and multiple crop packages allows you to plant or seed with one system!

The Air Planter™ sets new standards for planting capability and productivity with the ability to: direct plant into heavy residue in no-till scenarios, while seed placing phosphate fertilizer and banding nutrients like nitrogen and sulfur mid row in a one-pass operation.

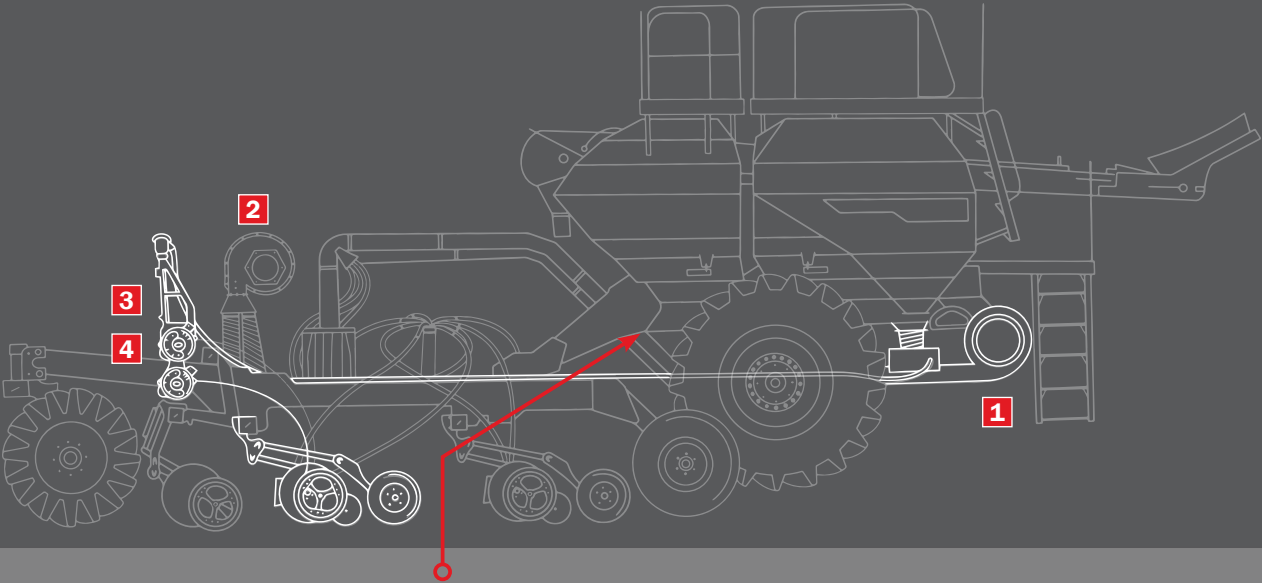
With the Bourgault Air Planter™ you can plant corn on one field and seed wheat on the next! Why buy a planter and a small grains drill when the Bourgault Air Planter™ can effectively accomplish both!



HOW THE AP™ SYSTEM WORKS

- 1 BULK FILL FAN** The bulk fill fan creates airflow to transfer seed from the air seeder inductor to the XP™ Meter Reservoirs.
- 2 METER PRESSURIZATION FAN** Air pressure is delivered to each XP™ Meter to provide positive pressure metering and delivery of seed to the boot.
- 3 XP™ METER RESERVOIRS** When the reservoirs on the XP™ Meters are full, the column of seed prevents further air and seed flow.
- 4 XP™ METER** XP™ Meter plates available to singulate corn, soya beans, sunflower and edible beans.

THE AP™ BULK FILL SYSTEM



AIR SEEDER INDUCTOR BOXES The Air Planter™ Bulk Fill Distribution System attaches to the bottom of the PDM Pro™ metering auger sumps. When a specific tank is designated for planting, seed is directed to flow through the PDM Pro™ sump into the air seeder inductor (instead of metering it).

Note: The remaining air seeder tanks that are being used for fertilizing will have the sump plates closed and the PDM Pro™ Auger will meter the product to the openers or Mid Row Bander® Fertilizer Applicators.

DRILL CONTROL

GAUGEMASTER™/PACKMASTER™
& LIFTMASTER™

The X35 offers drill control features that improve both efficiency and field finish quality.

GAUGEMASTER™ (PLR™ OPENER) option provides automatic gauge wheel pressure adjustment to ensure the desired seed depth is achieved in highly variable conditions.

PACKMASTER™ (PLW™ OPENER) option provides automatic packing pressure adjustment as soil conditions change, providing more uniform results and even germination.

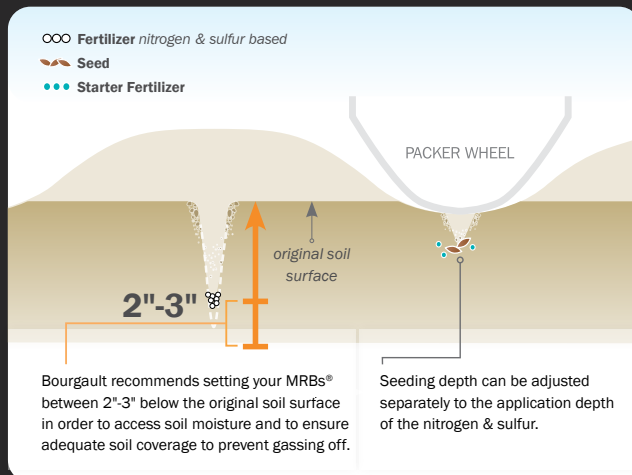
LIFTMASTER™ is an optional feature that, when set will automatically lift the openers when the seeding system crosses into the headlands.

MRBs®

MID ROW BANDER® FERTILIZER APPLICATORS

When and where it makes sense to do so, the ability to apply all inputs in a single pass with fertilizer applied mid row between every second seed row using a coulter-based system allows for many advantages, some of these include:

- 1 minimal disruption to the seedbed allowing for greater ability to precisely place your seed, as well as less wear and tear on your equipment (and back) when seeding across last year's furrows;
- 2 increased efficiency which saves precious time and resources;
- 3 placing highly mobile toxic fertilizer mid row positions seed and fertilizer for optimal nutrient uptake by the developing seedling (resulting in even emergence);
- 4 allows you to place your mobile/toxic fertilizer deep enough to eliminate volatilization. From a practical perspective, containing as much of your fertilizer as possible and eliminating waste makes cents.





THE HF™ OPTION

HI-FLOTATION™ RUNNING GEAR OPTION

EXPAND YOUR SEEDING WINDOW

The HF™ option allows you to get into the field sooner, providing your crop with an early start. In addition, HF™ provides you with confidence when traversing challenging or restrictive terrain such as soft and narrow roads.



I SERIES AIR SEEDER TANKS

INDEPENDENT TANK SERIES



The CD9120 tank borrows many exceptional value-adding features from its much larger sibling - the 9000 I Series Air Cart. Following are some of the features that add efficiency, accuracy, convenience, increased productivity and safety.

TANKS

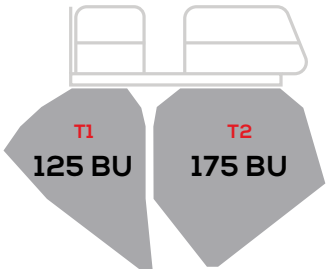
The CD9120 FMS™ is comprised of two individual tanks with volumes of 125 bu (front tank) and 175 bu (rear tank).

- 1

An optional 50 bu Wing™ Tank is also available for added volume flexibility.

INDIVIDUAL TANKS, WELL-PROPORTIONED VOLUMES

Each individual tank volume was determined based on typical product splits in optimized seeding scenarios.



PRODUCT DISTRIBUTION

For 40 years, the Bourgault Class A Product Distribution System has successfully seeded millions of acres in small grain regions around the globe. In that time, Bourgault has evolved with market demand and has conducted countless hours of testing to make certain that each air cart release outperforms the last!



- 2

PDM PRO™
METERING SYSTEM

The hydraulically driven PDM Pro™ provides the highest degree of metering accuracy while still providing gentle seed handling; expect an even and consistent metering of any product down to as low as 6 cups product remaining!

- 3

EvenStreamPLUS™
DISTRIBUTION SYSTEM

The EvenStreamPLUS™ Distribution System provides outstandingly consistent product distribution, even at challenging rates.

X35 & ISO APOLLO SYSTEMS

ACHIEVE UNPRECEDENTED SEEDING CONTROL

The **X35 Apollo System**, with the Xtend™ remote tablet ability, provides the most advanced control and monitoring capabilities for your seeding system.

In addition to controlling base seeding operations, the X35 offers full rate control and monitoring capabilities, and time saving applications, all at your fingertips.



Unique to the Bourgault I Series is the ability to dynamically calibrate; this means complete metering accuracy. Load cells on each individual tank provide accurate on-the-go weight monitoring to compare actual application rate to the calibrated weight.



Control individual section on/off timings, as well as control seed opener and Mid Row Bander® Fertilizer Applicator timings separately to minimize product application overlap.



The I-to-I™, or Implement-to-Implement™ option allows multiple seeding units to share the same coverage map.

The X35 Xtend™ FEATURE

Take control out of the cab! With the Xtend™ Feature you can double the number of functions being viewed during the seeding operation.

Install the Xtend™ App on your phone or tablet for wireless connectivity.

Use your smartphone or tablet to:

- ▶ transfer calibration weight results into the X35 as they are taken at the tanks;
- ▶ connect remotely to the X35 to access the seeding system information.





The **ISO Apollo System** operates in accordance with the ISO 11783 standard so that Operators with tractors equipped with virtual terminals have the option to monitor, calibrate and perform basic rate control functionality without adding an additional screen in the tractor cab. ISO virtual terminals are typically present on newer models of most major brands of tractors. The optional XD console is available as a dedicated monitor.



▲ ISO Virtual Terminal Example

ADDITIONAL TANK FEATURES

REAR-VIEW CAMERA

A rear-view camera allows you to monitor traffic behind the air seeder tank when transporting to the next seeding location.

EXTERIOR LED LIGHTS

Exterior LED lights allow for greater visibility when seeding at night.

LARGE TIRES

for decreased compaction & increased flotation.

PADDLE CONVEYOR

for efficient & gentle transfer of product.

SURGE BRAKES

Automatically applies appropriate levels of braking to greatly reduce the potential of implement damage as well as Operator stress.

SPECIFICATIONS

I Series CD9120 Frame Mounted Seeder™

Total Tank Volume	300
with Wing Tank	350
T1	125
T2	175
Wing Tank (optional)	50

Tank Tire Options	
Singles	IF800/70R38
Singles	IF850/75R42
Duals	IF710/70R42

Drill Working Width	40'	
Spacing Options	7½", 10", 12"	
Drill Tire Options	Base Model	HF Model
Main Frame	380/55R16.5	21.5x16.1SL
Front Wing	13.5x15FID	21.5x16.1SL
Rear Wing	13.5x15FID	380/55R16.5

Transport Width	19'4"
Transport Height	15'3"

Weight (lb)	
7½"	51,750
7½" w MRBs®	59,250
10"	48,550
10" w MRBs®	53,650
12"	46,750
12" w MRBs®	50,350

Air Planter™ option adds 1,600 lb

Brakes	Surge Brakes (Optional)
Load Conveyor	Paddle Conveyor with Infeed Belt (Optional)
Rear Tow Hitch	Standard
Run Blockage	Agtron or Topcon (Optional)
Packer Options	4½" Semi-Pneumatic, V-Style; 4½" Semi-Pneumatic, Double Offset Shoulder; 4½" Semi-Pneumatic, Double Shoulder
Operating Systems	X35 or ISO Apollo
Drill Control	GaugeMaster™ (Option on PLR Opener) PackMaster™ (Option on PLW Opener) LiftMaster™ (Option on PLR & PLW)
Seed Opener/MRB®	Optional
Lockup	

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Every effort has been made to produce this booklet with the most current information available at the time of printing. However, with ongoing product development and improvements, content is subject to change without notice. Please contact your Bourgault representative or the Bourgault website for the latest Bourgault information.

www.bourgault.com



BOURGAULT'S COMMITMENT TO QUALITY

Our mission is to design, manufacture and distribute the highest quality, most durable and reliable farm equipment in the world, that is affordable and meets or exceeds the expectations of our most demanding customers.



BOURGAULT WARRANTY

5-Year Limited Warranty Repair Period and Remedies

One Year - 100% Parts & Labour.

Two Years - 100% Parts on Bourgault manufactured components.

Three Years - 50% Parts on Bourgault manufactured components.

Five Years - 100% Parts & Labour on structural frame(s).

EXTENDED WARRANTY

Steel Metering Augers - 100% parts against wearing past 10% of the original diameter for the life of the air seeder (*corrosion not included*).

Plastic Metering Augers - 100% parts against wearing past 10% of the original diameter for the first five years, then 50% parts after five years, for the life of the air seeder.

NOTE: The Bourgault Warranty Policy takes effect at the time of delivery of new, unused, equipment to the first retail purchaser. The warranty policy may change at any time without prior notice from Bourgault. This warranty applies to North American equipment only. Refer to the Bourgault website, or, your local Bourgault Dealer for detailed warranty information.