PRECISION SEEDING

Air Drills and Air Carts

VERSATILE

GROUNDBREA
PO

Precision seeding equipment from Versatile follows the company's philosophy to build simple, durable equipment that is easy to adjust, operate and maintain. Versatile 'C' shank and independent shank air drills have been engineered from the ground up to be pinpoint accurate in a wide variety of field conditions. The result is consistent placement, better germination and uniform emergence which leads to maximum yields.

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ML SERIES AIR DRILL

ALIVE TECHNOLOGY

ALIVE technology (patent pending) from Versatile takes precision seeding to a completely new level: where competitive independent shank air drills which use hydraulic cylinder(s) to control packing pressure and shank trip force can only adjust packing pressure, Versatile's ALIVE system (Accurate Level Independent Vertical Emergence) allows producers to choose a specific seed furrow profile from the tractor cab and the ML Series Air Drill will maintain that seed furrow profile regardless of terrain / soil type or how wet / dry / hard / soft the ground is. The result is precise seed placement, even germination, uniform emergence and better yields.

A-ctive L-evel I-ndependent V-ertical E-mergence - ALIVE technology incorporates three critical features to achieve optimum seed and fertilizer placement:

1. Independent Shank Technology
2. Mechanical Linkage
3. Seed Furrow / Placement Selection

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1 / INDEPENDENT SHANK TECHNOLOGY

Independent shank technology provides more precise seed placement in varying terrain which results in more consistent germination and emergence and improved yields. Each shank operates independently to accurately place seed and fertilizer for faster, more even germination and emergence. Each shank assembly features Versatile's cast 'arch-web' design - true 'one-to-one' parallel linkage. The design ensures each opener maintains a constant angle relative to the soil and a constant opener depth relative to the packer wheel throughout the range of travel. The parallel linkage design allows each opener to have 10 inches (of total vertical travel. Opener to packer wheel distance has been kept to a min-imum to reduce 'skewing' or misalignment between the seed row(s) and packer wheel when seeding on a curve and to allow for excellent soil flow around the opener.

2 / MECHANICAL LINKAGE

All ML Series Air Drills feature Versatile's exclusive all-mechanical shank design. Unlike competitive units that utilize hydraulic cylinders on each shank to control packing and trip forces, the all-mechanical system increases / decreases packing force by simply lowering / lifting the drill frame. Versatile's patent pending ALIVE control system continuously monitors and automatically adjusts the frame height to ensure the desired packing force and a consistent seed furrow profile is maintained in all soil conditions. An adjustable trip spring (350-600 lb; 159-273 kg) prevents shank or opener damage should a rock be encountered.

3 / SEED FURROW SELECTION

The ALIVE Control System on Versatile ML Series Drills allows opera-tors to select a seed furrow depth which is suitable for different types of seeds and changing soil types and moisture conditions. A scale of 0 to 20 (shallow to deep) provides for on-the-go adjustments in order to maintain precise seed placement and furrow depth according to the operator's requirements.

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ALIVE SYSTEM

Versatile's patent pending ALIVE Control System enables an operator to control the seed furrow depth, and therefore seed placement, from the tractor cab. This is accomplished by first choosing an opener depth setting on each shank assembly to determine the desired amount of soil coverage over top of the seed, then selecting a seed furrow depth setting on the ALIVE monitor in the tractor cab.

1 » OPENER DEPTH POSITION

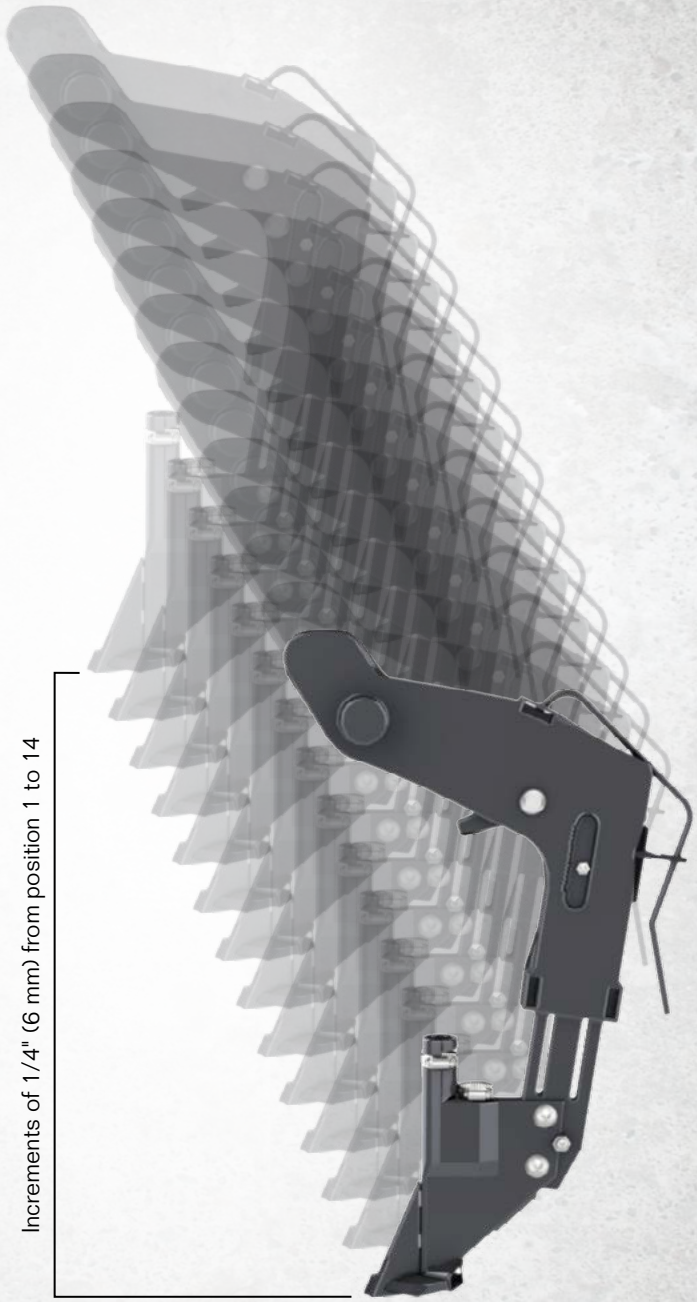
The depth position of the openers is initially pre-set at the factory to approximately 1/2" (12 mm). This is the distance between the tip of the opener to the bottom of the packer wheel and it results in the amount of moist, packed soil covering the seed. Seed depth, the amount of soil covering the seed, can be adjusted or fine tuned by the operator to suit local soil types and moisture conditions through Versatile's indexed pin and handle unit on each shank. Increments of 1/4" (6 mm) from position 1 to 14 provide a total soil coverage adjustment range of 0" to 3" (0 to 76 mm).

2 » SEED FURROW PROFILE

Seed furrow depth is selected by the operator on the ALIVE monitor in the tractor cab. A shallow - to - deep sliding scale from 0 to 20 enables the operator to select the desired furrow depth. For example, if shallow seed placement is desired, then the operator would choose furrow profile 1, 2 or 3 on the monitor. At the factory default opener depth setting, this would result in approximately 1/2" (12 mm) of moist, packed soil over top of the seed, placed in a very shallow furrow.

3 » ALIVE TECHNOLOGY

In order to maintain the pre-set seed furrow profile chosen by the operator, the ALIVE control system compares the difference in elevation between a gauge wheel rolling on the unworked soil surface on each frame section to the adjacent packer wheel rolling in the seed furrow and maintains the angle difference at a constant value. To maintain the pre-set seed furrow profile, the ALIVE control system will automatically adjust downforce on the mechanical linkage opener assemblies from as little as 125 lb (57 kg) to as much as 375 lb (170 kg) depending on ground conditions.



Increments of 1/4" (6 mm) from position 1 to 14

CHOICE OF OPENERS

Versatile's openers are designed to excel in a wide variety of soil, moisture and crop residue conditions. All openers feature vertical style design with carbide tips and hard-surfaced wear surfaces. They have been engineered to require lighter draft force, throw less soil to the sides to minimize 'stepping' and allow faster seeding speeds.

SEED PLACEMENT

Every grower knows that great seed-to-soil contact leads to quicker germination for a superior plant stand and maximum yields. Versatile's vertically designed openers have the ability to place seeds on a firm seedbed immediately after opening the soil, eliminating seed bounce and soil fracturing. Due to a sleeker profile, closure is achieved in a very short amount of travel, creating an excellent field finish with a consistent amount of soil covering the seed. Other opener manufacturers using horizontal designs have to attempt to drive seed against the direction of travel, usually resulting in seed bounce or poor overall placement.

SEED / FERTILIZER SEPARATION

All Versatile openers utilize 'same plane' placement during the delivery of seed and fertilizer to the seedbed. This prevents the seedbed from fracturing. A fractured seedbed dries out quicker and generates the potential for uneven germination. It also increases the risk of seed burn by creating an area where seed and fertilizer can merge. Placing seed on a firm, moist seedbed produces the best seed-to-soil contact, enabling enhanced absorption of moisture and nutrients by the seed, while excluding fertilizer from the seed row.

NO-PLUG TECHNOLOGY

Through vertical design, mud blockage and plugging have been virtually eliminated. The curved area under the point, 'mud spur' is made to inhibit soil from curling back into the opener, also known as 'orange peeling'. Horizontal designs actually precipitate the mud curl traveling up and into the rear of the opener. Versatile's vertical design produces a larger seed gallery inside the body of the opener, ensuring the seed drops freely onto the seedbed, minimizing internal plugging.

SOIL DISTURBANCE

The shape and form of our vertical design isn't simply the most stylish profile available, it's practical too. By causing the soil to be split, 'soil throw' or 'stepping' is sharply reduced that comes with bulkier horizontal-style openers. Further, Versatile's slim profile greatly reduces the risk of not retaining enough soil to cover the seed.

RESIDUE CLEARANCE

Versatile's vertical design and smooth opener body is a huge asset when it comes to residue clearance. Straw is not permitted to travel up the side of the boot or catch on the shank leg. Residue flows around the base of the seed boot and is safely deposited out of the way.

SOIL PENETRATION

Vertical design simply uses the weight of the air drill to penetrate the ground at the smallest point on the opener – the tip. Plus, Versatile's streamlined design keeps the opener moving economically across the field with minimum draft required.

1 / FRAME

The exceptional heavy-duty 6" x 4" (1452 x 102 mm), 3-rank frame is designed to provide years of reliable service.

2 / ROW SPACING

The choice of either 10" (254 mm) or 12" (305 mm) shank spacing combined with Versatile's outstanding selection of openers provides excellent flexibility to best manage seedbed optimization, seed placement and residue management to suit the particular soil, moisture and weather conditions present on each farm and in any local area. Growers generally choose 10" spacing when the ground has been pre-worked and 12" in no-till applications.

3 / TIRES

Superior flotation is achieved with (8 qty) of either 15.0/55R-17 (ML930) or FS24 380-/55R 16.5 (ML950) main frame dual front and rear walking-beam caster wheels and 12.5" x 15 FI wing walking-beam caster wheels. Walking-beam front and rear caster wheels with dual tires are standard equipment on both ML930 and ML950 main and wing frames.

OPENERS

EDGE-ON, VERTICAL STYLE Features carbide tips and hard-surfaced wear areas.

SIDE BAND Granular or liquid fertilizer is placed to the side with seed placed down the middle of the row.

TWIN BAND NH3 Triple shoot capable with seed, granular fertilizer and NH3. Seed is placed to one side of the furrow with NH3 placed to the opposite side to maintain suitable separation with optional triple-shoot granular product placed down the middle of the row.

PAIRED ROW 3" (76 mm), granular or liquid. Two rows of seeds, 3" (76 mm) apart with granular or liquid fertilizer placed between the rows of seeds.

PACKERS

3" x 16" (76 x 406 mm), semi-pneumatic (most commonly used with single shoot knife).
4" x 16" (102 x 406 mm), semi-pneumatic (commonly used with side-band or paired row openers).

Mud scrapers are standard equipment; steel, adjustable and reversible, and top mounted to prevent crop residue or mud from plugging the mud scraper or packer wheel.

DH SERIES AIR DRILL

DH SERIES AIR DRILL

Versatile DH Series Air Drills have been proven to deliver accurate and consistent seed placement for more than 20 years. Designed to perform well in a variety of field conditions, owners of Versatile DH Series Air Drills report uniform ground penetration, consistent seed placement, and better germination and emergence.

3-SECTION AIR DRILL

For small to mid-sized operations, Versatile offers an air drill that will suit any farming style. Available in 33', 37' and 40' (10.1, 11.3 and 12.2 m) sizes.

5-SECTION AIR DRILL

Available in widths of 48', 52' or 60' (14.6, 15.7 or 18.3 m), Versatile DH Series Air Drills offer maximum productivity and results for larger operators that need to cover more acres in less time.

ACCURATE SEEDING

Every Versatile DH Series Air Drill is engineered using high quality components and innovative features.

1 / SHANK ASSEMBLY

The rugged, spring cushion shank is 3.5" (89 mm) full width nylon-graphite bushing. Self-lubricating, these bushings have a long service life with no maintenance required. Shank assemblies have dual springs with a choice of 350 lb (159 kg) or 550 lb (250 kg) initial breakout force.

2 / WALKING BEAM PACKER GANGS

The walking beam design provides positive packing pressure by allowing individual gangs to roll over obstructions in the field without affecting the adjacent gangs.

3 / NARROW CONTOUR DEPTH

A shallow contour depth provides unbeatable land-hugging characteristics, even in rolling terrain. Matched with a 5 rank frame, residue flow through the frame is unmatched in the industry.

4 / OPENERS

Four openers choices with varying spread patterns are available for single shoot. A wide variety of after-market double shoot openers are also available from your Versatile dealer.

5 / DEPTH CONTROL

3-Section, DH730 machines utilize a single hydraulic cylinder to provide depth control, while the DH750, 5-Section machines feature dual hydraulic cylinders with hydraulic depth control.


VERSATILE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1 / FRONT/REAR LEVELING

Front to rear leveling is accomplished quickly and easily with adjustable pusharms connected to the rockshaft.

2 / QUICK WING LEVELERS

To ensure accurate depth is achieved, the levelness of the toolbar is crucial. A single person can level the wing sections side to side by extending or contracting these quick wing levelers.

3 / FLEX-WING HINGES

A flex-wing hinge system gives the fore / aft travel needed to follow the ground and reduce torsional stress without any maintenance required. The fixed hinge on the second row of each section provides weight transfer from frame to frame to ensure proper depth penetration from each section.

4 / IN-FRAME CASTERS

Front caster wheels are placed inside the first row of the drill frame. This enables the air drill to follow uneven ground very accurately because it shortens the contour depth. Large 11L and 12.5L tires are standard in order to offer maximum flotation.

5 / UNDER FRAME CLEARANCE

35" (889 mm) of opener to frame clearance allows trash to flow through the drill with ease. 46" (1.2 m) of clearance is achieved when the drill is lifted completely.

FRAME

A fully welded 5-row frame design ensures no two shanks are placed closely on the same row, or front to back which provides for excellent residue flow through the frame, minimizing plugging.

6 / AUTOMATIC TRANSPORT LOCK

In transport, both front casters and rear transport wheels are automatically locked with over-center, mechanical linkages. Hydraulic pressure unlocks the drill from the transport position.

7 / LOCK-OUT VALVES

Lock-out valves can be engaged during transport to prevent the wings from unfolding, even if the operator accidentally moves the hydraulic levers.

8 / PACKER CHOICES

Semi-pneumatic rubber will flex and shed wet, sticky soil. Steel packers, with industry leading 1/4" (6 mm) face, are better suited to rocky conditions. 3" or 5" semi-pneumatic rubber, 3.5" or 5" steel available.

OPTIONAL EQUIPMENT

ROCK DEFLECTORS / MUD SCRAPERS

Rock deflectors are available to prevent rocks or stumps from lodging between packer wheels. Steel packers have adjustable, hardened mud scrapers available to strip off mud and ensure consistent packer performance.

CENTRAL GREASE BANKS

High pressure grease hose, located at the front of the air drill, leads to each rockshaft bearing located in the middle of the frame.

WALKING FRONT CASTERS

To increase flotation, mainframe dual caster wheels are standard equipment on drills 40' (12.2 m) and larger and optional on all smaller 3-section air drills.

IN-FRAME HARROWS

Optional 2-row in-frame harrows provide a more level field finish and better seed-to-soil contact. Operators can adjust the angle and down pressure of the 16" (406 mm) tines to match varying field conditions.

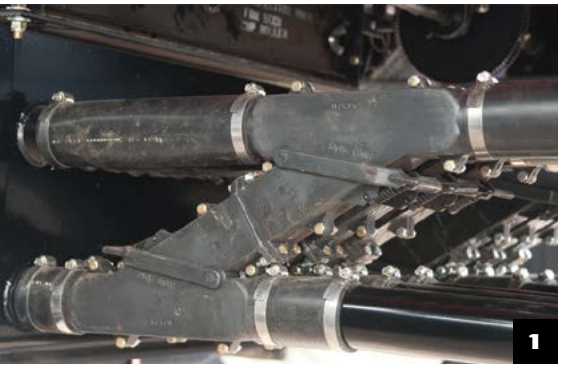
AC SERIES AIR CARTS

AC SERIES AIR CARTS

Versatile AC Series Air Carts have a simple, accurate metering system that provides for a wide range of application rates with no meter roller changes required. Choose between hydraulic drive which provides field mapping capability (AC600) or ground drive metering systems: mechanical quick-change sprockets (AC315) or mechanical Zero-Max variable rate control (AC315 / AC400).

	AC315	AC400	AC600
Configuration	Tow behind or tow between	Tow behind or tow between	Tow behind
TANK			
Total volume*	315 bu (11,100 L or 8.6 t)	390 bu (13,743 L or 10.6 t)	646 bu. (22,700 L or 17.6 t)
Rear	120 bu (4,229 L or 3.3 t)	160 bu (5,638 L or 4.3 t)	306 bu (10,748 L or 8.3 t)
Front	95 bu (3,348 L or 2.6 t)	110 bu (3,876 L or 3.0 t)	180 bu (6,343 L or 4.9 t)
Auxiliary	100 bu (3,524 L or 2.7 t)	120 bu (4,229 L or 3.3 t)	124 bu (4,405 L or 3.4 t)
Canola tank, optional	-	-	36 bu (1,269 L or 1.0 t)

*All capacity and weights based on 60 lb per bushel and 1 Bu = 35.2391 L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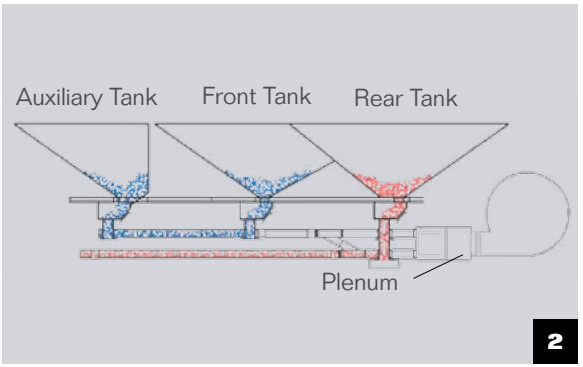

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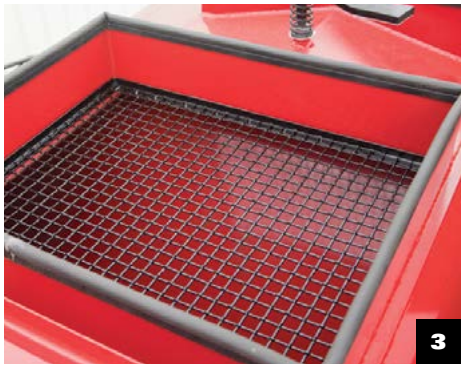
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ENGINEERED FOR MAXIMUM PERFORMANCE

Simple, accurate seeding results start with an air delivery system designed for dependable, consistent results.

1 / DISTRIBUTION SYSTEM

Versatile offers single and double shoot capability as standard equipment. Simply moving two levers per primary run changes the air cart from single to double shoot. Adjusting the air plenum in front of the fan completes the process.

2 / SINGLE / DOUBLE SHOOT

While double shooting, product from the rear tank travels through the bottom set of hoses and product from the front tank(s) travels through the top set of hoses. To single shoot, simply flip two levers per primary run and product from the rear tank is directed to the top set of hoses and mixes with product from the front tank(s).

3 / PRESSURIZED LID SEAL

Pressurized Lid Seal - Accurate product application is dependent on maintaining constant pressurization within the tank. This unique seal uses air pressure from inside the tank to provide a consistent seal against the lid (AC315 / AC400).

4 / 13" FAN

A 13" (330 mm) Crary fan is dynamically balanced and highly efficient. This fan develops sufficient air volume to allow for double shooting large application rates. Standard equipment on the AC315.

5 / 17" FAN

A 17" (432 mm) fan delivers large volumes of air at slower speeds, minimizing seed damage. The efficient use of air flow allows the operator to single or double shoot sizable application rates with a single fan. Standard equipment on the AC400 and AC600.

AC600 FEATURES

1. Excellent Flotation: 520/85 R38 rear duals are standard equipment with 21.5 x 28L front tires.
2. Deluxe Auger: 10" deluxe auger with remote control is standard on the AC600.
3. 4th Bin: optional 36 bu (1 tonne) tank is designed for ultra-low application rates and metering small seeds such as canola or grass seed.

METERING SYSTEM

An easy to use mechanical metering system allows for consistent accurate metering of all seed types.

1 / METERING ROLLERS

Versatile Air Carts feature polyurethane, fluted metering rollers. Not only is changing rollers unnecessary when switching from one product to another, but this design also ensures a consistent flow of product.

2 / MAIN DRIVE TRANSMISSION

Metering transmission for models AC315/ 400 are powered off the left rear wheel, therefore application rates remain constant even when increasing or decreasing ground speed. The air cart's implement width can be set by installing two applicable sprockets on this transmission. Ground speed input for the model AC600 can come from a sensor on the rear left wheel or a GPS or RADAR signal from the tractor.

3 / METERING HOUSING

Each metering housing has a built-in stone trap to collect foreign material such as small pebbles and fertilizer lumps etc. that have passed through the tank screen. This feature eliminates possible jamming of the metering system or premature roller wear.

4 / RANGE SPROCKETS

AC315 / 400 air carts feature a range sprocket cluster on each metering roller that eliminates the need to change metering rollers when switching from one product to another. This adjustment is completed in a few seconds and no tools are required. The metering drive is shear bolt protected. The model AC600 is equipped with hydraulic metering drives as standard equipment.


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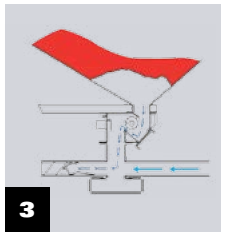
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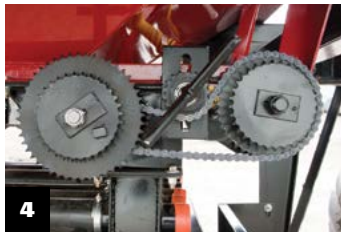
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TOPCON X30 MONITOR SYSTEM: AC600

Versatile's true variable rate hydraulic-drive metering system is controlled by the Topcon X30 console. It is a large 12.1" color touch screen which features a user-friendly, intuitive multi-view interface that will control up to eight products.

- Advanced setup wizard provides simple icon based setup control
- Primary view screen can be customized by the operator to include most critical functions
- Mini-view windows can be dragged/ dropped along the side of the Primary view screen to display other air cart functions as needed
- Custom screens can be created and saved for quick access to individual display preferences

MONITORING SYSTEM MODELS AC315 AND AC400

Mechanical or Variable Rate Systems - Versatile Air Carts are available with either mechanical or variable rate set-ups.

1 / FLASH MONITOR

Viewing all air cart functions from in the cab is critical to ensure trouble free seeding. Digital application rates, fan rpm, area per hr/field/season and ground speed can all be viewed by the operator while seeding. Bar graphs for each bin level are controlled by 4 bin level sensors to allow operators the ability to plan ahead for fills.

2 / IN-CAB RATE CONTROL MONITOR

An in-cab rate control monitor allows the operator to adjust the metering rates on-the-go from the tractor cab. An electric actuator located on each variable speed transmission increases or decreases application rate.

3 / CLUTCH CONTROL

All models feature heavy-duty Warner 12 volt electromagnetic clutches as standard equipment on both the main drive and each individual tank. The main drive clutch can be either manually controlled by the operator, or in placed Auto mode.

4 / BLOCKAGE MONITORING

This option provides an operator with the ability to monitor the flow of product from the cab and will create an alarm if a hose should become plugged. The optical blockage sensors do not rely on contact as competitive pinstyle sensors do, which can result in plugging.


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AUGER

An 8" (203 mm) diameter load / unload auger is standard on all air cart models. A larger 10" (254 mm) diameter auger is optional for the AC400 and a 10" deluxe, remote controlled auger with an extended hopper for better reach under semi-trailers is standard on the AC600. Balanced for a one-man operation, the 8" auger will fill 315 bushels in 7 minutes.

1 / BOTTOM / TOP AUGER CONTROLS

All models feature both top and bottom auger controls as standard equipment. Spring-loaded controls automatically return to neutral position when not engaged and provides the operator with full forward / neutral / reverse functions.

2 / AUGER LOCK

Augers feature an adjustable locking mechanism. This secures the auger to the air cart for transport. The additional safety strap is provided to secure the auger should the transport lock accidentally unlatch.

3 / AUGER SWING LOCK

This lock prevents the auger from moving once it is placed into 1 of 3 positions. This feature is helpful when filling on sidehills or on days that are exceptionally windy.


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SIMPLE SERVICEABILITY

The simple design of Versatile Air Carts allows you to spend less time in the yard and more time in the field. Easy to fill, easy to adjust and easy to clean out the air carts maintain the simplicity you expect from Versatile.

FOLD DOWN RAILINGS

Fold down railings and a low tank height allow for off-season storage in sheds with less clearance.

PLATFORM/LADDER

A large platform with a ladder on each side, provides convenient access to the top of the tank.

STANDARD FEATURES

1 / TANK OPENINGS

Large tank openings provide operators with faster filling times. The adjustable over-center lid locks maintain positive air pressure within each compartment. Tank screens are standard to keep out unwanted debris.

2 / TOTAL TANK CLEANOUT

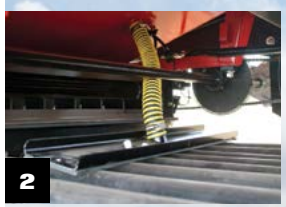
Removing product from any tank compartment is as simple as positioning the auger under the tank and then opening the total tank cleanout door.

3 / ROLLER SYSTEM

Versatile has designed the metering roller system so operators can conveniently inspect the roller when tanks are either empty or full.

4 / AUTOMATIC WORK SWITCH

Included as standard equipment, this industrial switch will engage and disengage the main drive clutch automatically when lowering or raising the seeding implement. A manual position is also provided to give clutch control to the operator.



OPTIONAL EQUIPMENT

WORK LIGHTS

Work lights are available for all air carts and provide additional illumination while seeding at night. Standard on model AC600.

REAR TOW HITCH

All models can be equipped with an optional rear tow hitch. This clevis style hitch is designed for towing liquid fertilizer wagons or NH3 tanks.

	DH730			DH750		
	3 PLEX FRAME			5 PLEX FRAME		
Size	33' (10.1 m)	37' (11.3 m)	40' (12.2m)	48' (14.6 m)	52' (15.8 m)	60' (18.3 m)
FIELD WIDTH						
8" (203 mm) Spacing	33' 4" (10.2 m)	37' 4" (11.4 m)	40' 0" (12.2 m)	-	-	-
10" (254 mm) Spacing	33' 4" (10.2 m)	36' 8" (11.2 m)	40' 0" (12.2 m)	48' 4" (14.7 m)	51' 8" (15.7 m)	60' 0" (18.3 m)
12" (305 mm) Spacing	34' 0" (10.4 m)	38' 0" (11.6 m)	-	-	-	-
12-1/4" (311 mm) Spacing	-	-	40' 10" (12.4 m)	49' 0" (14.9 m)	53' (16.1 m)	60' 0" (18.3 m)
FRAME WIDTH						
Main	13' 6" (4.1 m)	13' 6" (4.1 m)	16' (4.9 m)	16' (4.9 m)	16' (4.9 m)	16' (4.9 m)
Wing	10' (3.0 m)	10' (3.0 m)	12' (3.7 m)	10' (3.0 m)	10' (3.0 m)	13' (4.0 m)
Outer wing	-	-	-	6' (1.8 m)	6' (1.8 m)	6' (1.8 m)
TRANSPORT						
Width	17' 10" (5.4 m)	17' 10" (5.4 m)	20' 6" (6.2 m)	20' 9" (6.3 m)	20' 9" (6.3 m)	20' 9" (6.3 m)
Height	14' 8" (4.5 m)	16' 8" (5.1 m)	17' 8" (5.4 m)	14' 4" (4.4 m)	14' 4" (4.4 m)	17' 9" (5.4 m)
TIRES (ALL TIRES ARE FARM / HIGHWAY SERVICE - 'FI')						
Main	12.5L x 15 (2)*	12.5L x 15 (2)*	11L x 15 (4)	11L x 15 (4)	11L x 15 (4)	11L x 15 (4)
Wing	11L x 15 (1)	11L x 15 (1)	11L x 15 (1)	11L x 15 (1)	11L x 15 (2)	11L x 15 (2)
Outer wing	-	-	-	11L x 15 (1)	11L x 15 (2)	11L x 15 (2)
Transport	11L x 15 (4)	11L x 15 (4)	11L x 15 (4)	11L x 15 (4)	11L x 15 (4)	11L x 15 (4)
WEIGHT						
10" (254 mm) spacing c/w 3" (76 mm) rubber	17,364 lb (7,876 kg)	18,114 lb (8,217 kg)	23,764 lb (10,779 kg)	26,861 lb (12,184 kg)	32,118 lb (14,569 kg)	29,157 lb (13,226 kg)

*Dual walking casters optional: 11Lx15 (4) in lieu of standard configuration

	DH SERIES AIR DRILL
Frame Design	5 Rows (ensures no two shanks are placed closely side by side for optimum residue clearance); 4" x 4" (102 x 102 mm) steel tubing
Frame Depth	98" (2.5 m) from center of first row to center of rear row. (ensures no 2 shanks are placed closely front to back)
Under Frame Clearance	35" (889 mm) with double shoot opener (optimum residue flow and excellent clearance under the toolbar)
Road Clearance	14" (356 mm) without ground engaging tools
Depth Control	3-section DH730 models: Single cylinder rotates rockshafts to raise or lower the entire air drill and two 4"x16" with easy-adjust hydraulic depth control are used on 5-section DH750 models. 5" x 12" (127 x 305 mm) on a 3 section and 5.5" x 16" (140 x 406 mm) on a 5 section. Positive mechanical depth stop segments control depth cylinder in 1/8" (3 mm) increments.
Flexibility	13.5 degrees up, 8.5 degrees down, fore-aft flexibility with a fixed hinge in the center to allow weight transfer from frame to frame
Contour Depth working @ 1" (25 mm)	138" (3.5 m) c/w single front casters 148" (3.8 m) c/w dual walking casters
Shanks (Initial Trip Force)	350 lb (159 kg) = 1" x 2" (25 x 51 mm) dual spring cushion shank 47 degree "C" style shank 550 lb (250 kg) = 1" x 2" (25 x 51 mm) dual spring cushion shank mounted with 5/8" (16 mm) High-Tensile strength U-bolts
Shank Pivot Bushing	3 ½" (89 mm) wide nylon-graphite (self-lubricating)
Packer Choices	**8" (203 MM) SPACING**: 3" (76 mm) rubber; 3 ½" (89 mm) steel Note: All steel packers feature ¼" (6 mm) cap **10" (254 MM) OR 12" (305 MM) SPACING**: 3" or 5" (76 or 127 mm) rubber; 3 ½" or 5" (89 x 127 mm) steel

	ML930		ML950	
	3 SECTION		5 SECTION	
Size	42' (12.8 m)	52' (15.8 m)	62' (18.9 m)	70' (21.3 m)
FIELD WIDTH				
Spacing	10" (254 mm) Spacing / 12" (305 mm) Spacing		10" (254 mm) Spacing / 12" (305 mm) Spacing	
Frame sections	3	3	5	5
FRAME WIDTH				
Main	16' (4.9 m)	16' (4.9 m)	16' (4.9 m)	16' (4.9 m)
Wing	13' 6" (4.1 m)	13' 6" (4.1 m)	13' 6" (4.1 m)	13' 6" (4.1 m)
Outer wing	-	4' 6" (1.4 m)	9' (2.7 m)	13' 6" (4.1 m)
DIMENSIONS				
Width, transport	22' (6.7 m)	22' (6.7 m)	22' (6.7 m)	22' (6.7 m)
Height, transport	17' 8" (5.4 m)	19' 3" (5.9 m)	17' 11" (5.5 m)	17' 11" (5.5 m)
Length, overall*	35' 10" (10.9 m)	35' 10" (10.9 m)	35' 10" (10.9 m)	35' 10" (10.9 m)
TIRES				
Main	FS24 380/55R16.5	FS24 380/55R16.5	FS24 380/55R16.5	FS24 380/55R16.5
Wing Frames	12.5Lx15 FI	12.5Lx15 FI	12.5Lx15 FI	12.5Lx15 FI

*includes openers (seed boots)

	OPTIONS - DH SERIES AIR DRILL
Rock Deflectors	Prevents rocks from lodging between packer wheels
Mud Scrapers	Keeps steel packer wheels free from mud build up; adjustable to accommodate wear
Distribution System	Primary runs 4/8, 6/12, 8/16: 2-1/2" (64 mm) hose Secondary runs: 1" (25 mm) I.D hose
Harrows	In-frame 2 bar harrows (4-Row configuration); or shank mounted harrows installed on rear rank
Dual Walking Casters	Provides additional flotation in soft ground conditions. Optional on main frame for 28', 33' or 37' (8.5, 10.1, 11.3 m) sizes. Standard on 40' (12.2 m) & all 5 section drills
Shank Lowering Kit	Lower shanks 1/4", 1/2" or 3/4" (6, 13 or 19 mm)

	AC315	AC400	AC600
Configuration	Tow behind or tow between	Tow behind or tow between	Tow behind or tow between
TANK			
Total*	315 bu. (11,100 L or 8.4 tonnes)	390 bu (485 cu ft; 13,743 L; 10.5 tonnes)	646 bu. (22,700 L or 17.6 t)
Rear	120 bu. (4,229 L or 3.2 tonnes) = 38%	160 bu. (5,497 L or 4.3 tonnes) = 41%	306 bu (10,748 L or 8.3 t)
Front	95 bu. (3,348 L or 2.6 tonnes) = 30%	110 bu. (3,3792 L or 3.2 tonnes) = 31%	180 bu (6,343 L or 4.9 t)
Auxiliary	100 bu. (3,524 L or 2.7 tonnes) = 32%	120 bu. (4,301 L or 3.2 tonnes) = 28%	124 bu (4,405 L or 3.4 t)
Canola tank	-	-	36 bu. (1,269 L or 1.0 t) (optional)
DIMENSIONS			
Hand rail, up	12' 6" (3.8 m)	12' 6" (3.8 m)	14' 0" (4.3 m)
Hand rail, down	11' 0" (3.4 m)	11' 3" (3.4 m)	11' 0" (3.4 m)
Length, w/auger	25' 0" (7.6 m)	25' 0" (7.6 m)	28' 0" (8.5 m)
Width, w/auger	12' 6" (3.8 m)	12' 6" (3.8 m)	15' 5" (4.7 m)
AIR SYSTEM			
Type	Type B distribution	Type B distribution	Type B distribution
Tank design	Fully welded, independently pressurized	Fully welded, independently pressurized	Fully welded, independently pressurized
Primary outlets	4/8, 6/12 or 8/16 primary runs	4/8, 6/12 or 8/16 primary runs	6/12 or 8/16 primary runs
Primary / Secondary hoses	2.5" (64 mm) diameter / 1" (25 mm) ID	2.5" (64 mm) diameter / 1" (25 mm) ID	2.5" (64 mm) diameter / 1" (25 mm) ID
METERING SYSTEM			
Main clutch, auto/manual	Yes	Yes	Yes
Meter clutches, standard	4	4	4
Transmission / Rate adjustment	Mechanical, Quick-Change sprockets or Variable rate Zero-Max	Variable rate Zero-Max with choice of manual or in-cab control	Hydraulic variable rate with Topcon X30 console
Monitor Down seeding mode ability	Yes	Yes	No
Meter ranges	Hi, 1:1, Lo	Hi, 1:1, Lo	N/A
Roller changes required	No	No	No
Meter rollers	Polyurethane	Polyurethane	Polyurethane
Calibration	Rate pan & crank	Rate pan & crank	Rate pan & crank
FAN			
Type	Hydraulic 14 to 40 hp req. (engine drive opt.)	Hydraulic 15 to 40 hp req.	Hydraulic 15 to 40 hp req.
Rotor diameter	13" (330 mm)	17" (330 mm)	17" (330 mm)
Outlet size	6" (152 mm)	8" (152 mm)	8" (152 mm)
Tractor requirements	1 set of remote coupler (+ Case Drain) up to 20 GPM (75.7 L/min) closed center or pressure compensating	1 set of remote coupler (+ Case Drain) up to 20 GPM (75.7 L/min) closed center or pressure compensating	1 set of remote coupler (+ Case Drain) up to 20 GPM (75.7 L/min) closed center or pressure compensating
AUGER			
Diameter	8" (203 mm)	8" (203 mm) / 10" (254 mm) optional	10" (254 mm) deluxe
Length	20' (6.1 m)	20' (6.1 m)	24' (7.3 m)
Controls	Top and bottom	Top and bottom	Hydraulic, remote control
Balanced	Yes	Yes	Yes

*Tonnes calculated assuming that 1000 L of wheat = 0.76 tonnes,

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