

MORRIS

9 SERIES



AIR CARTS TAKE YOUR SEEDING TO A WHOLE NEW LEVEL

morris-industries.com

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THE MORRIS 9 SERIES AIR CART IS A PRODUCT OF CONTINUED ADVANCEMENTS THAT HAS LEAD TO THE MARKET LEADING AIR CART WE SEE TODAY.



The 9 SERIES Air Cart range includes:

- Input Control Technology (ICT)
- Extensive line-up of air cart models
- Left side access to auger/conveyor/controls
- Transmission & metering quick access doors
- Redesigned stairway and walkway
- Hydraulic calibration
- Unmatched turning capability with front quad axles
- Bold silver metallic paint for outstanding durability, toughness & corrosion resistance

KEY FEATURES

WALKWAY



The walkway improves access to the tank lids.

Handrails around the walkway platform and down the stairway provide excellent protection for a secure and safe work area.

The walkway is positioned to allow the operator more room to work and avoid dust when filling the tanks.

EASIER ACCESS

Left side auger/conveyor for easier access when filling. A 6-function, 3 action wireless remote included with the hydraulic assist option reduces operator fatigue. The lanyard allows the operator to safely use two hands when necessary.



New transmission covers for added operator safety are standard on all air carts.

Quick detach straps on the standard drive allow easy access to the quick change sprockets.

EASY FILL TANKS



Filling of the tanks is made easier because tank lids are closer together.

With the optional hydraulic assist, the operator can use the wireless controller to position the spout on the auger/conveyor without moving the hopper from the unloading area or climbing down from the air cart.

The lid design incorporates a gas cylinder to assist the operator when opening and closing the lids. The handle is safely positioned so the operator does not need to stand above the lids to open them.

The lids rotate away from the operator to sit along the tank panel reducing clutter on the walkway.

PRECISION METERING

The time-proven spiral fluted metering wheel is the centre of the metering system.



The spiral flute provides a continuous flow of product into the air stream, particularly at low rates, reducing pulse feeding.

The meter-bodies (stainless steel on ICT units) include single person operation of the inspection and calibration access doors.

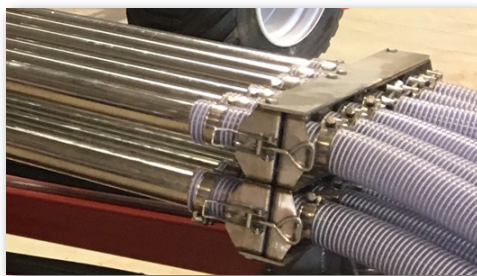
Calibration doors speed up calibrating time because the operator does not have to pick up parts from the ground. The metering bodies on the XLarge and XXL large frame air carts accommodate up to 10 metering wheels.

ALL-IN-ONE SEED PLATES



All-in-one seed plates save time. One quick change lets you accurately meter fine, medium or coarse products. The operator can also quickly inspect the seed-plate in each meter-body. Available on Ground drive & VRT.

QUICK CONNECT



The distribution hose includes quick couplers where the drill and air cart connect to make connecting and disconnecting more efficient.

HIGH-EFFICIENT FAN

(Pictured below with optional oil cooler)



An industrial piston-type hydraulic motor powers the 17" diameter forward curved fan.

Large hydraulic lines decrease flow restriction for less heat build up under higher fan speeds.

A dual fan option is available for large width seeding tools with more than 60 openers running dual shoots air kits.

STAINLESS STEEL UPRIGHT AIR KIT



The Australian designed and manufactured, upright seeding kit uses stainless steel construction ensuring long life and consistent product delivery

BLOCKAGE MONITORING

Morris blockage monitoring kits alert the operator to blocked runs or sections, preventing costly misses in emerging crops.

Sensors are mounted on the secondary lines of the air seeder kit and sense product traveling through the lines.

If the sensor does not detect product movement for a given length of time, a warning is sent to the monitor.

The Morris blockage monitoring is also section aware which eliminates nuisance alarms when used with an ICT air cart. The system is aware when a section is switched off for an overlap and does not send an alarm to the operator.



Morris utilises Topcon Optical Blockage Sensors which don't have a pin protruding into the stream, eliminating the possibility of product lodging at the sensors.

The monitoring system is fully integrated with the Topcon X35 screen, so a stand alone monitoring screen is not needed.

Blockage kits can be installed to monitor either single or multiple outlets on each head.

LIQUID OPTION

Liquid tank set-ups are available on all 2 and 3 tank granular air carts. The GEN 5 LQS system is designed for precise, even and accurate in-furrow application of single and dual liquid applications with straight forward operation and is compatible with Dosatron dosing systems.

Systems can be integrated with many precision ag systems such as John Deere GreenStar™, Topcon, Trimble or any ISOBUS compatible display. This allows for accurate documentation of nutrient application using map/GPS data. The new GEN 5 pumping unit allows for faster on and off times, allowing for ultimate product control.

Built-in fail safe mechanisms help protect the system and personnel from operator errors and externally induced faults. Each module is factory Wet-Tested before being shipped. A full liquid kit including manifolds, friction tubing, mounting brackets and delivery to the boot can be supplied.

For increased liquid capacity or for 4 tank granular air carts, we can also offer a liquid ready option. The LQS GEN 5 pumping unit and all associated hardware are mounted to the air cart and ready to plug and play into your trailing liquid tank.



QUICK AND RESPONSIVE VARIABLE RATE METERING

The variable rate option allows quick responsive and accurate on-the go rate changes. The VRT option features:

- Topcon's X35 monitor with an intuitive multi-view interface
- Morris factory loaded Air Cart profiles for initial set-up
- Variable rate control for up to eight products
- Miniver windows with drag and drop positioning allowing custom screen interface with the operator
- Interaction keypads with expandable menus
- Dashboard readouts provide constant, convenient data
- Full-screen views available for more detailed information
- Advanced setup wizard provides simple icon based setup control
- Topcon's software algorithm allows the recognition of two draw bar pivot points, enabling accurate mapping and section control with tow between Air Carts



SMOOTH MECHANICAL DRIVE METERING

Quick-change sprockets provide simple, reliable adjustments between crops. Posi-drive transmissions use a positive lock on all drive sprockets to deliver smooth and reliable metering.

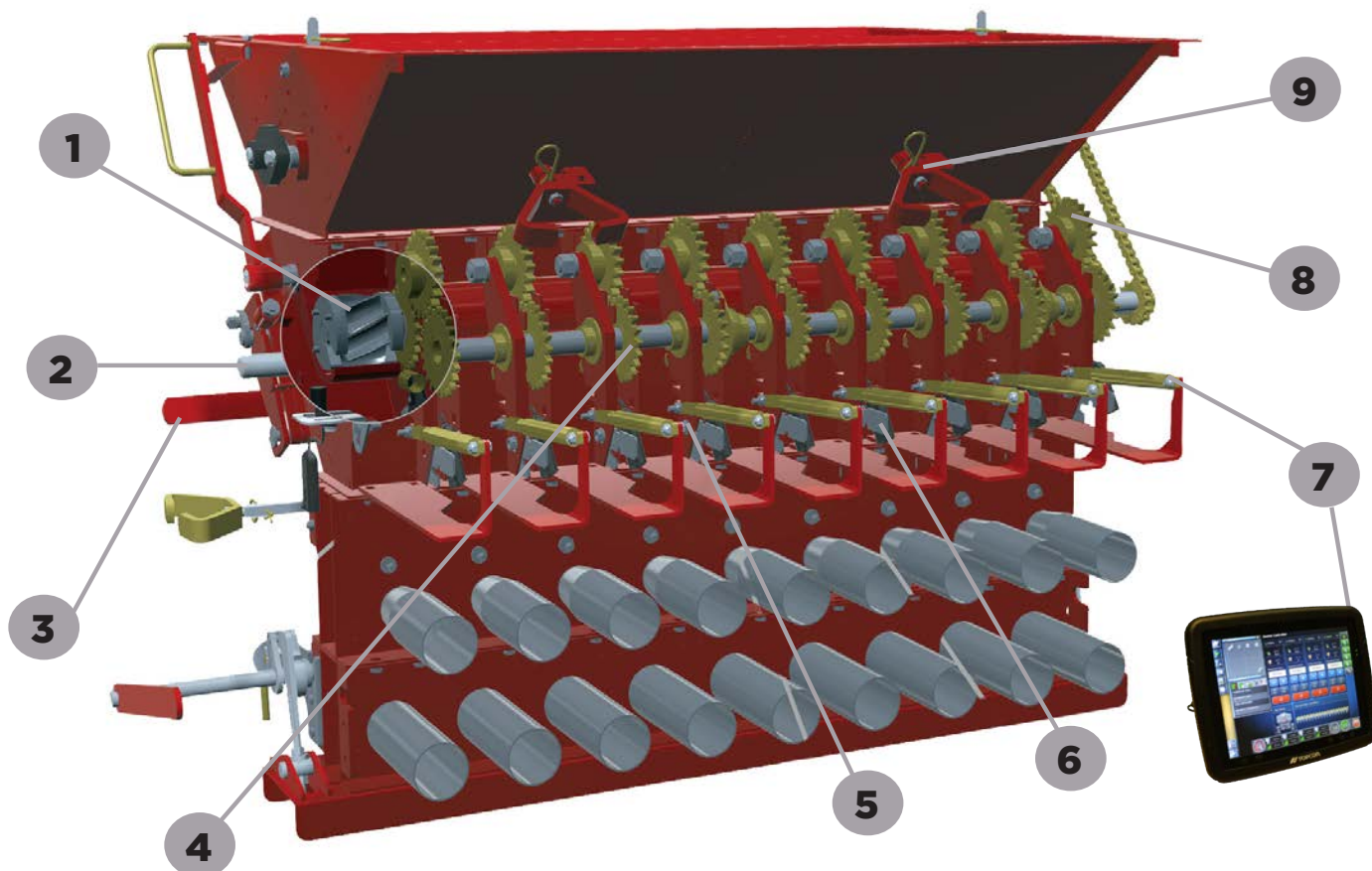
Seed and fertiliser rate charts have been added to the tanks to allow for a quick reference when starting calibrations of different products. This reduces the time to select the proper rate sprocket by providing a generic start point. Proper calibrations are required to ensure the correct selection of rate sprockets. Before seeding commences optional hydraulic calibration is available to automate and speed up stationary meter calibrating.

Fan speed, shaft rotation, bin levels, acres seeded and other critical data are available with the monitoring system.



INPUT CONTROL TECHNOLOGY (ICT)

ENGINEERED FOR INSTANT OVERLAP CONTROL



1. The meter wheels for each section are always filled with seed and fertiliser, which reduces the time required to charge the system when beginning the next pass.
2. The ICT system uses a unique hydraulic drive system to engage or disengage the individual metering wheels enabling the product in each tank to stop flowing instantly.
3. Single handle clean out doors allow quick, trouble free access to meter bodies.
4. The simple sprocket driven system is visible to the operator when inspecting the tanks, and its function is intuitive.
5. The simple on and off set-up gives the operator a much more cost effective and less complicated way to conserve crop inputs.
6. Electric sensors verify the system is working. Operation is displayed on the monitor.
7. The GPS signal is transmitted to the Topcon X35 controller. The controller then signals the hydraulic valve, which engages or disengages the gear drive system for the metering wheels.
8. With the simple sprocket driven system, the metering wheel is either engaged and turning or stopped.
9. Shut off gates can be closed to inspect meter wheels or when the tank contains product allowing inspection of the metering unit without having to empty the tank.

CONFIGURATION	TOW-BETWEEN	TOW-BEHIND
Rear Tow Hitch 9365 and 9450 (Regular chassis)	Standard (Max 11,818 kg Draft Load)	Optional (Max 6,818 kg Draft Load)
Rear Tow Hitch 9445, 9550 9650 (Large chassis) 9555, 9680, 9800, (XLarge chassis) 9682, 9843, 91000* (XXLarge chassis) *91000 - TBH only	Standard (Max 11,818 kg Draft Load)	Standard (Max 11,818 kg Draft Load)
Hitch Stand	N/A	Optional
Fan Impeller Diameter	43 cm (17") - Up to 5,000 r.p.m.	
Hydraulic Fan Drive (Closed centre or closed centre load sensing systems required) Hydraulic requirements for Air Cart only at rated fan speed.	16cc - piston type orbit motor 80 l/min at 18,960 kpa (2900 psi) Dual fans require up to 160 l/min VRT requires an additional 23 l/min ICT requires an additional 5 l/min	
High Flow Hydraulic Kit	Standard	
Loading Auger	Standard Auger 25.4 cm (10") Dia regular & large frame Standard Conveyor 40.6 cm (16") Dia XLarge & XXLarge frame Optional - Conveyor 40.6 cm (16") Dia Regular & Large Optional - Hydraulic Assist on regular chassis	
Metering	Ground Driven	Standard
	Variable Rate (VRT)	Optional - Topcon monitor
	GPS Compatible VRT	Optional - Topcon monitor
	ICT (Input Control Technology)	Standard with Topcon monitor
Meter Shut Off	Electric over hydraulic (ICT & VRT) Electric - ground drive	
Number Secondary Runs - Single-Shoot	21 to 99 (XLarge & XXLarge will supply up to 110)	
Number Secondary Runs - Double-Shoot	42 to 198 (XLarge & XXLarge will supply up to 220)	
Primary Hose - Diameter	63 mm	
Secondary Hose - Diameter	Standard - 32 mm Optional - 25 mm	
Easy Clean Out System	Standard	
Meter Drive Option Second Clutch (for spot fertilising on the go)	Standard (ground drive only)	
Monitor (Shaft motion, bin level, fan speed, acre tally, ground speed)	Standard Optional seed flow (blockage) with X35	
Work Switch (Mounted to Seeding Machine)	Optional with ground drive & VRT	



REFERENCE GUIDE

	BIN SIZE (BU)	BIN SIZE (L)	TOTAL LITRES	TBH TRIKE	TBH QUAD	TBT	LIQUID (L)	FRAME SIZE
9365	182	6,414	12,828	Std	Opt	Y	5,000L**	Regular
	182	6,414						
9450	182	6,414	15,858	Std	Opt	Y	3,000L**	Regular
	86	3,030						
	182	6,414						
9535	182	6,414	18,888	N/A	Std	Y	Liquid ready option	Regular
	86	3,030						
	86	3,030						
	182	6,414						
9445	221	7,788	15,576	N/A	Std	Y	5,000/7,000	Large
	221	7,788						
9550	221	7,788	19,348	N/A	Std	Y	5,000	Large
	107	3,772						
	221	7,788						
9650	221	7,788	23,120	N/A	Std	Y	Liquid ready option	Large
	107	3,772						
	107	3,772						
	221	7,788						
9555	265	9,339	19,347	N/A	Std	Y	7,000	XLarge
	284	10,008						
9680	265	9,339	24,047	N/A	Std	Y	5,000	XLarge
	133	4,700						
	284	10,008						
9800	265	9,339	28,747	N/A	Std	Y	Liquid ready option	XLarge
	133	4,700						
	133	4,700						
	284	10,008						
9652	Liquid 1	5,000	22,828	N/A	N/A	Y	(x2) 5,000	XLarge
	Liquid 2	5,000						
	182	6,414						
	182	6,414						
9682	331	11,664	23,962	N/A	Std	Y	7,000	XXLarge
	349	12,298						
9843	331	11,664	29,671	N/A	Std	Y	Liquid ready option	XXLarge
	162	5,709						
	349	12,298						
91000	331	11,664	35,380	N/A	Std	N/A	Liquid ready option	XXLarge
	162	5,709						
	162	5,709						
	349	12,298						

** 5,000L Tank on 9365 Tow Behind and 3,000L tank on 9450 Tow Behind only available with Quad Steer Option

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TYRE SPECIFICATION

TYRE	STYLE	RATING	PRESSURE								
			BT 9365 9450	BH 9365 9450 9535	BH 9535	BT 9445 9550 9650	BH 9445 9550 9650	BT 9555 9680 9800 9652	BH 9555 9680 9800	BT 9682 9843	BH 9682 9843 91000
500/70 R24 Front Castor	Lug	LI 157	-	25 psi STD	-	-	-	-	-	-	-
28LR26 Quad Steer	Lug	169A8	-	18psi OPT Front	18psi STD Front	-	18psi STD Front	-	-	-	-
800/65R32	Lug	172A8	20 psi STD Rear	20 psi STD Rear	-	-	-	-	20 psi STD Front	-	20 psi STD Front
800/65R32 Dual Wheels	Lug	172A8	-	-	-	20 psi STD Rear	-	-	-	-	-
900/65R32	Lug	176A8	17 psi OPT Rear	17 psi OPT Rear	26 psi STD Rear	-	26 psi OPT Rear	-	-	-	-
710/70R38	Lug	166A8	-	-	-	-	26 psi STD Rear	-	-	-	-
800/65R32 Agriterra	Lug	185D	-	-	-	35 psi OPT Rear	-	-	-	-	-
1050/50R32 CHO	Lug	178A8	-	-	-	35 psi OPT Rear	-	-	-	-	-
1250/50R32 CHO	Lug	194AE8	-	-	-	-	-	35 psi STD Rear	35 psi STD Rear	35 psi STD Rear	35 psi STD Rear
800/70R38 Dual Wheels	Lug	173A8	-	-	-	-	-	26 psi inner/ 20 psi outer OPT Rear	-	26 psi inner/ 20 psi outer OPT Rear	-

BH: Tow-Behind only, BT: Tow-Between only, STD: Standard, OPT: Optional



MORRIS

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