



Miller
Since 1899

NITRO 7000 SERIES



QUIET, COMFORTABLE CONTROL

A wide, cloth-trimmed, air-ride seat ensures every operator stays comfortable even after extended spraying hours. Luxury details like footpegs on the steering column, auto climate control, Bluetooth and XM radio, push-button engine start and backlit, dimmable switches add up to major comfort. The mutli-function handle puts all critical controls at your fingertips while the armrest console moves with you.

PANORAMIC VISIBILITY

From the newly designed cab, you'll appreciate the expansive view of the field and the full width of the boom thanks to the full height windshield and large wrap-around side windows.

CAB INCLUSIONS:

- Heated and ventilated leather seat with self-adjusting air suspension, height adjustment and power lumbar
- 12-volt cooler under the leather instructional seat
- Leather-wrapped steering wheel
- Rear camera
- Auto on/off headlights
- Integrated self-charging flash light
- 110-volt power outlet



YEAR ROUND COMFORT

The Automatic Temperature Control (ATC) system comes as standard equipment. A refreshing drink is only an arm's length away in the integrated cooler under the instructor seat.



MAKE ADJUSTMENTS CONVENIENTLY RIGHT FROM THE CAB

NEXT-LEVEL MONITORING SYSTEMS

The Nitro 7000 series controls are simple to use and easy to understand. With 2 chassis monitoring systems and 2 spraying monitoring systems - information is available at a glance.

Chassis monitor displays operating functions including speed, rpm, pressures, temperatures and fuel levels. It is mounted in the roof lining where it does not disrupt the operator's line of sight to the boom.

Spray info bar with light-up section display is mounted in the ceiling and keeps the operator informed on spraying status

A right hand console chassis monitor mounted on an adjustable swing arm allows operators to easily program and control multiple sprayer functions, which are instantly displayed on the monitoring screen.



FIELD COMPUTERS

You can choose either a Miller SprayView or the Raven Viper 4+ field computer that is factory installed. Or if you prefer you can have your dealer install a Trimble, Ag Leader or John Deere field computer. The Field Computer is mounted to a swing arm so operators can position it exactly where they want it.



Miller SprayView



Raven Viper 4+

PROVEN PROPULSION SYSTEM

The new Miller Nitro 7000 series features an innovative hydrostatic Danfoss pump system with electronically controlled variable displacement piston drive motors and seamlessly integrated Fairfield Torque-Hub® planetary final drives for the optimum drive performance.

PLANETARY FINAL DRIVES

The Torque-Hub® planetary final drives deliver high torque and long life, designed to optimise the performance of the Nitro 7000 series.

GREATER TORQUE AT ALL SPEEDS

The drive motors provide greater torque at all speeds. From starting out at a standstill and right up to full transport speed, the wheel motors will have the benefit of full torque at all times.

ELECTRONIC CONTROL

The Electronic Controller is fast and responsive, and communicates with the sprayer CANbus network in a seamless integration.

INTEGRATED SPEED LIMITING

The Integrated Speed Limiting (ISL) feature allows for hydrostatic braking without over-speeding the engine, while working in concert with active wet disc service brakes in each drive hub for outstanding stopping power and operator control.

TRACTION CONTROL

Handle the most challenging field conditions such as mud or soft ground without worry. Each drive motor’s speed sensor directly communicates with the electronic controller to automatically sense slippage and prevent wheels from turning faster or spinning out. The traction control system is normally engaged all the time but the operator can limit it if they prefer.

4 PROGRAMMABLE SPEED RANGES

The operator is able to set 4 pre-programmed customised speed ranges, with each allowing full travel of the joystick. Common examples may include a slow creep range up to 8kph for manoeuvring in tight places, two working field ranges, and a road transport range.



CRUISE CONTROL

The NITRO 7000 series Cruise Control maintains a set speed by automatically adjusting the drive motor displacement with a simple joystick setting – no buttons to press.

ANTI-STALL FEATURE

The Electronic Control System is integrated into the Engine Control Module to automatically change the hydrostatic control system in the event of a great drop in engine rpm, returning to normal operation when the sprayer is through the problem spot.

TYRE/RIM OPTIONS

Nitro sprayers offer a range of tyre and rim options to fit your needs. The IF and VF versions offer a larger foot print, high load caring capacities and a smoother ride at lower air pressures.

Tyre Size	Nitro 7380 and 7420
Michelin VF 420/95 R50 177	X
Goodyear IF 520/85 R42 170	X
Goodyear 650/75 R42 170	X

NITRO 7380 AND 7420

When you have a lot of acres to cover in a short period of time the Nitro models 7380 and 7420 are the answer.

With a large tank size of 6100L, wide range of boom options and peak horsepower of either 382 or 434, hectares will fly by quickly.



POWER WHEN YOU NEED IT

The Nitro 7000 series sprayers are powered by our own proven, reliable FPT® Tier 2 turbo diesel engines.

Model	Litre	HP	Peak HP
7380	8.7	322	382
7420	8.7	373	434



- 1 FPT Engine
- 2 Cooling System
- 3 Final Drives
- 4 Weight Distribution

1 Powerful, efficient FPT Tier 2 engines provide not just power, but peace of mind, too.

2 Single-pass cooling system for better efficiency, cooler air flow and easy cleaning.

4 Major components carefully placed, so weight distribution is within 4% of 50-50 balance during spraying.

3 Planetary Drive system on the 7000 series includes: Electronic Transmission Control, Traction Control, Cruise Control and Engine Overspeed Protection

TURN ON A DIME

4-wheel steer option — the ultimate in manoeuvrability



With the 4-wheel steer option, you'll have the tightest turning radius in the business. Minimise crop damage and headland turn with ease as front and rear wheels follow the same track.



Turning radius with 4 wheel steer

- In 2 wheel steer – 6.4m
- In 4 wheel steer – 4.5m

MILLER SPRAY-AIR TECHNOLOGY

Combining the benefits of both air-assist and air-atomisation into one powerful spray nozzle system, Spray-Air is a much more powerful and versatile application tool with many advantages:

- Droplet control in all applications.
- Superior application control in all conditions
- Drift control benefits.

The air blast penetrates the thickest crop canopies and drives droplets deep for unsurpassed coverage.

Factory conventional truss boom options up to 41.15 metres (135 feet) are available. 48m Pommier aluminium boom also available.

STAGED SPRAY CONTROL (SSC)

Building on the proven “twin line” spray system, SSC provides operators with a cost effective tool for droplet management.

Utilising nozzle mounted air shut-off valves to switch between two different nozzle sizes, both speed and rate ranges can be extended while staying within the nozzles’ ideal pressure and droplet range.

- Cost-effective and simple to use.
- Minimal operator intervention.
- Air solenoids for rapid shut-off and on at the nozzle. No drips.
- Recirculating boom lines for priming and flushing.
- Flexibility with section widths.



APPLICATION PRODUCTIVITY

The 6100L tank takes your spraying productivity to a whole new level

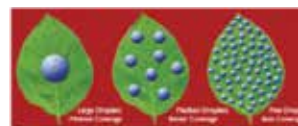




HOW IT WORKS

The patented Shear Guard™ PLUS Air Nozzles, spaced every 25cm (10") along the air boom, atomise the spray droplets using Dial-A-Drop™ technology.

This creates the optimum sized droplets, which



are not affected by speed and pressure changes, ensuring a uniform

application over the entire field. The Air Nozzle 160 kph plus air blasts the spray droplets deep into the crop canopy, ensuring complete top-to-bottom leaf surface coverage. Due to the smaller controlled droplets and directed air blast, the Air Nozzle allows for very efficient use of water, often in the range of 20-40 L/ha for herbicides and generally from 50-90 L/ha with fungicides.

FINE DROPLETS FOR COVERAGE, COARSE DROPLETS TO MANAGE DRIFT

The unique Spray-Air system puts instantaneous control of droplet size, spray pattern and the speed of the air blast at your fingertips. Depending on the situation, you can dial-in the optimum droplet size range on the go to improve coverage, reduce drift potential, or to match ASABE Droplet Classification Standards.

MAXIMISE PRODUCTIVITY

The superior plant coverage from the use of Spray-Air enables you to use only the minimum amount of herbicide required.

LOWEST WATER VOLUMES

Use the lowest possible carrier volumes for herbicide, desiccant, insecticide and, especially fungicide applications.

FUNGICIDE APPLICATIONS THAT WORK

Spray-Air technology is proven to be the best method to apply fungicides for superior disease control. Benefit from dense canopy penetration and total plant coverage.

APPLICATION VERSATILITY

Three application methods to choose from:

1. Spray-Air Air Nozzle application to maximise coverage and efficiency.
2. Conventional flat fan nozzles for higher volume applications, especially over 90 L/Ha – when coverage is less critical.
3. Use conventional nozzles plus air blast from the Air Nozzle for classic air assist, to maximise coverage in higher volume applications.

MILLER SPRAY-AIR TECHNOLOGY

• Enhanced coverage • Superior control • Maximum efficiency

FIELD COMPUTERS & PRECISION FARMING

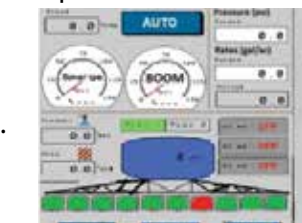
MAKING IT EASY!

Your Nitro 7000 series sprayer comes in standard ISO configuration, allowing seamless integration with most field computers, including Viper 4, GreenStar 3 2630, XCN-2050 and Ag Leader displays.



INTELLISPRAY™ NOZZLE CONTROL SYSTEM

The IntelliSpray™ pulse width modulation (PWM) system maintains a constant pressure at the spray tips to ensure a proper droplet size at varying spraying speeds. Also includes turn compensation, variable rate on up to 8 nozzles and instant on/off. The boom nozzles are divided into 36 virtual sections or you can take the next step and unlock individual nozzle control. Individual nozzle control requires a Raven Viper 4+ field computer.





SWATHER BRACKETS

Kits to suit MacDon D series, Honey Bee combine and Honey Bee swather fronts. Spring suspension and all electrical and hydraulic components for a “standard” front. Maximum front size 12.8 metres (42 feet). Caters for up to three spray sections for spraying under the front. Sprayline not included.

QUICK ATTACH KIT

The quick attach kit enables safe removal and storage of the boom for other operations. Other operations include swathing, spreading, Weedseeker boom and Nitrogen Toolbar.

ULTRA FLOW

A dedicated hydraulic pump mounted to the front of the engine’s crankshaft provides oil flow for swathers, Spray-Air and other attachments. The 166 L/minute, 2950psi pump enables the Nitro to operate attachments efficiently. In-cab operator presence safety switch included.

FLOAT KIT

Contour following function when operating the swather and other ground engaging implements. A pre-set downward pressure on the implement’s gauge wheels is automatically maintained through undulating terrain. This is operated in-cab and is activated or deactivated by the main lift switch on the joystick. This option acts as a “return to cut” function when swathing.

TELESCOPIC LIFT ARM KIT

Telescoping lower lift arms with hydraulic control valve and adjusting cylinders in lieu of the standard arms used when swathing to control the angle of the front and also assists with multi attachment fitting.

BOOM BLOWOUT

Compressed air to clean boom lines and valves can be operated from in the cab. Air is fed directly to the boom so a thorough clean can be completed.

FENCE LINE NOZZLES

Fitted to both ends of the boom for fence line spraying, or if an overlap spray is required. Two motorised ball valves with hoses, harnesses and switches in the cab can operate automatically, manually as well as separately or together.

14L STAINLESS STEEL EDUCTOR

A 14L stainless steel eductor uses a venturi suction for induction of both dry and liquid chemical products. Drum rinse nozzle, spring loaded mount and all valves and fittings included.

2" BANJO FRESH WATER FILL PUMP

A hydraulically-driven, self-priming poly Banjo 2" fresh water fill pump is mounted behind the main tank. A 2" fresh water suction line on the main dropdown filling arm is delivered to the main tank via a 2" 20 mesh filter and manifold on the left hand rear chassis rail. A 1" line feeds the fresh water tank and a 2" check valve and tap directs flow straight into the bottom of the product tank.

GRANNI MIX

The granni mix is a 70L rotational-moulded granular mixing tank with calibrated measuring graduations, complete with hopper rinse and drum wash included. A 2 1/2" venturi suction system delivers mixed chemical into the product tank and also has a 1" unmetred suction line for neat chemical. Mounted on a dropdown arm attached at the front of the machine and can be lowered and raised with an electric winch.

CHEMICAL TRANSFER PUMP (SCUD)

Used to transfer liquid chemical product from enviros or shuttles into the granni mix tank for measured product delivery. The chemical pump is a Sotera 55 L/min electric transfer pump and comes with a 3 pin micromatic coupler with a 1" Camlock and drum probe. A micromatic flusher is connected to the fresh water tank.

TOOLBOX

Large, conveniently located toolbox has two doors and can be mounted with the doors opening outside or to the underside of the machine. The toolbox can be installed on either the left or right side of the machine.



NUTRABOSS

The NutraBoss system utilises a single point hookup on the sprayer boom for fast conversions and minimal cost. It's ideal for split applications of nitrogen which enhances nutrient efficiency and yields, and reduces the loss of nutrients.

LIGHTWEIGHT AND RUGGED CONSTRUCTION

NutraBoss components are constructed of stainless steel for corrosion resistance and long life. Each unit weighs only nine pounds, so there is little weight or fatigue on the boom, allowing for widths up to 120'.

GOOD FOR YOU AND YOUR CROPS

The NutraBoss system allows you to easily and economically apply fertilizer when your crop is in need of nutrients, and places it exactly where it will do the most good - near the plant at the root zone.



FERTILISER APPLICATIONS

• *Accurate* • *Save time* • *Minimise costs*

INJECTION TOOLBAR

The Miller Injection Toolbar applies liquid fertilizer between the corn rows and into the soil root zones. It fuels corn growth by applying liquid nitrogen just before maximum uptake and during critical growth periods prior to tasseling.

NO CROP BURNING

Unlike broadcasting liquid or dry fertilizer or applying NH₃, the Injection Toolbar incorporates liquid N into the soil to prevent crop burning.

MINIMIZE FERTILIZER LOSS - MANAGE INPUT COSTS

Without sufficient rainfall, 30% of liquid fertilizer may be lost within two weeks of application. With the Injection Toolbar, you can adjust application rates in favorable growing conditions or avoid wasting expensive fertilizer in poor conditions.

Models			
Specs		7380	7420
		Features in 7000 series	
SprayView Cab	<ul style="list-style-type: none">Ultra-Quiet, variable speed pressurization, charcoal filtration with recirculation filterAM/FM/WX w/cd radio, 4 speakers and remote controls2 way tilt/telescoping steering column, sun visor and auto temperature controlsCloth air ride seat and instructional seat2 Miller systems monitors, spray indicator light bar and adjustable monitor mountsAir ride cab suspensionLeather wrapped steering wheel	<ul style="list-style-type: none">Grammer Evolution leather trimmed seat, heated and vented with self-adjusting air ride suspension leather trimmed instructional seatX-Grip for cell phoneRear view cameraAuto on/off head lights, integrated self-charging flash light110 volt power outlet12 volt cooler under the instructional seat	
FPT Engine		8.7 Litre Cursor 9	
Horsepower / Peak		322 / 382	373 / 434
Fuel Tank		568 L	
Cooling System		Efficient single pass "stacked bottom to top" (not layered front to back) hydraulically driven variable speed fan with reversing option.	
Alternator / Batteries		200 amp / 3 heavy duty – 1000 cca batteries – one for all electronics and 2 for starting	
Transmission		Torq-Trac Hydrostatic Drive / Twin Danfoss 130 cc drive pumps	Torq-Trac Hydrostatic Drive / Twin Danfoss 147 cc drive pumps
Final Drives		Danfoss H1 Series 110 cc Drive Motors / Fairfield CO 26 Torque Hubs	
Travel Speeds		0 – 51 kph	
Steering		Hydrostatic with 2 steering cylinders. No tie rods.	
2 – Wheel Steering		4.5 m Turning Radius	
Optional 4 – Wheel Steering		2 Wheel Steer Mode - 6.4 m / 4 Wheel Steer Mode - 4.5 m	
Tread Width		Based on 380 tyres	
Fixed Axle		Not Available	
Adjustable Axle (Hydraulic)		305 to 406 cm	
HydraLink™ Suspension		4 wheel independent, full suspension travel of 51 cm, hydraulic leveling/shock absorbers, auto leveling for each leg.	
Crop Clearance		188 or 193 cm depending upon tyre size	
Product Tank Options / Stainless Steel		6100 L	
Rinse system		568 L poly tank with 5.08 cm quick fill. Electric standard / Auto Rinse optional	
Product Pump Standard		Hypro 9306C – 210 gpm @ 80 psi (795 L/min @ 5.5 bar) capacity at pump	
Product Pump Optional		Hypro 9307CWS – 300 gpm @ 80 psi (1135 L/min @ 5.5 bar) capacity at pump	
Foam Marker Option		Injection System – uses water from rinse tank – in cab controls – 11.3 L foam concentrate tank	
MonoBeam Boom Options		80/60, 90/60, 100/60, 120/70	
Truss Boom Options		120/73, 135/73	
Pommier Boom Options		27/48	
Spray-Air™ Boom Options		90/60, 100/60, 120/73	
Boom Travel - MonoBeam		56 to 300 cm	
Boom Travel - Truss		76 to 320 cm	
IntelliSpray		Optional – available for 38.10 or 50.80 cm nozzle spacing	
Field Computer Options		CNH SprayView, Raven Viper 4+ and No Controller Option for use with Ag Leader, Trimble and John Deere ISObus Platform	
Wheel Base		450 cm	
Dimensions (Shipping) - Dimensions can vary depending upon options		Height: 3.68 m / MonoBeam W: 3.69 m MonoBeam L: 10.05 m / Truss W: 4.42 m / Truss L: 10.54 m	Height: 3.68 m / MonoBeam W: 3.69 m MonoBeam L: 10.05 m / Truss W: 4.42 m / Truss L: 10.54 m

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When you see the Miller name, it's our promise that we're providing the very best product we can.

From our factory team to field support and down to our Miller dealers, that commitment of excellence stretches through our entire organisation and touches every product. We are Miller – trusted since 1899.



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