INTRODUCING
DSV FAN CROPLINER:
GREATER OUTPUT FOR
LESS HORSEPOWER

ULTRA TOWER
COVERAGE FOR
TALL TREES

PLUS
POWER AND
PERFORMANCE
PROVEN
TECHNOLOGY

10 NEW FEATURES:
IMPROVED QUANTUM
MIST FOR GRAPES
ABOUT CROPLANDS

Croplands manufacture and supply quality spray equipment, components and accessories.

UNDERSTANDING SPRAYERS

Croplands has been building sprayers since 1972. After operating for 40 years in the Australian and New Zealand environments we understand what the pressing problems are: before, during and after application. Our sprayers are built accordingly. We listen to farmers and produce cost effective solutions to suit their needs.

SIMPLE, RELIABLE AND DURABLE

Our machinery is built to high quality standards. Robust design and generous dimensions result in unmatched durability. Working with feedback from farmers and operators, we develop sprayers that provide efficiency with a simple approach. We are proud of our innovative developments in spraying equipment, such as the award winning Quantum Mist.

THE APPLICATION SPECIALISTS

At Croplands we believe it is not good enough to simply sell a piece of machinery. We believe it is important to give advice to growers on how to achieve the best possible outcome with their unit. How many other manufacturers can confidently give tailored recommendations on nozzle selection?

Our close relationship with Nufarm gives us a good understanding of chemicals and their requirements for application. Being part of the Spraywise program, Croplands has access to the latest research outcomes. If a grower needs a specific nozzle or advanced hydraulic controls – Croplands will find the solution.

SUPPORT AND SERVICE

Our service centres are staffed by experienced and internationally trained technicians who understand what makes your sprayer tick.

Croplands’ dealer network is trained to provide the very best local support. With dealers and warehouses located around the country spare parts and accessories are always available and close by.

Croplands spare parts, sprayer components and accessories are manufactured and hand-picked for superior performance and longevity.
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## GENERAL MANAGER’S WELCOME

Dear Customer

Croplands’ development of the Quantum Mist is one of our standout accomplishments. By working with growers, industry experts, and our own research and engineering resources we developed the Quantum Mist axial fan from concept to commercial success. It exemplifies our commitment to solving application issues faced by agricultural producers and demonstrates our focus on performance, quality and value.

In this issue of our 2014 Horticultural Buyer’s Guide, it is pertinent to pay homage to the one of the key people behind Quantum Mist, Mr. George Eady. George passed away late in 2013 after bravely battling an illness he couldn’t quite beat; as always, he gave it everything he had. George was a visionary man, an engineer, and most of all he was a “doer”. Never happy to sit still or let a problem beat him, he would work until he had it fixed.

The Quantum Mist name and product began with George, and it’s fitting that the legacy he has left behind is still the market leader world-wide in multi-fan technology. Thanks to George, and with help from many other committed people, there are fruitgrowers the world over doing a better job of protecting their crops.

Croplands continues to enhance and develop the Quantum Mist technology by working closely with growers and spray contractors and are pleased to share with you a range of improvements to the product.

I would like to personally thank our customers for choosing Croplands, and we appreciate the support and trust you have placed in us as a key partner in your business.

For those considering a new Croplands sprayer, we trust that you will find this guide helpful in making your decision and encourage you to contact a Croplands sales representative for more information.

Yours Sincerely

Sean Mulvaney
General Manager, Croplands (Australasia)
Everyone knows that the Quantum Mist is the industry leading spray technology for coverage, and has been since 2003. At Croplands we asked ourselves “what can we do to improve the sprayer”, and to this end we conducted a series of focus group meetings with grape growers and contract sprayers. Now, as the result of their suggestions we present the updated 2014 sprayers.

**INTRODUCING THE IMPROVED QUANTUM MIST SPRAYER**

Pictured: Quantum Mist 3-Row Sprayer with twelve 380mm fan heads. Note setup for photograpic purposes, heads not aligned for spraying.
UPGRADED TOWER AND BOOM

- More strength
- Improved parking
- Clever pull-lock manual outer-row adjustment system fitted to all multi-row machines

NARROW AXLE FOR NARROW ROWS

- Tandem axle standard on three-row machines

COST EFFECTIVE HEAD

- Simple maintenance

NEW LEAF GUARD

- Prevents debris build up

NEW PARKING BUMPER

- Prevents head on tank damage
In 2003 the Quantum Mist fan was released to meet the demands of horticulture producers for improved application of crop protection products.

Even from the early days of design and testing, it became clear that directed air axial-fan technology could provide increased efficiency for grape growers in terms of better spray coverage, faster travel speeds, energy savings, outstanding reliability, and minimal drift potential.

The ability to spray large areas of vines economically and effectively was just what the market needed. Many growers are seeking enhanced efficiency across increased property sizes and with multi-row application, and technologies to reduce spray drift they were impressed by the results achieved with Quantum Mist.

Croplands have continued to invest in improvements, and have seen the Quantum Mist application technology become the market leader in horticulture. Today, Croplands can offer the widest range of sprayers of any manufacturer utilising multi-head axial fans.

The simplicity and reliability of the Quantum Mist underpins the proven performance of the system in the field. Spray coverage has never been better than with this technology. Efficiency gains have been outstanding, and it’s no secret that the Quantum Mist has been a huge success for producers as a result.

### QUANTUM MIST OVERVIEW

In 2003 the Quantum Mist fan was released to meet the demands of horticulture producers for improved application of crop protection products.

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### QUANTUM MIST TIMELINE

<table>
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<tr>
<th>Year</th>
<th>Event</th>
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<tr>
<td>1996</td>
<td>Australia and New Zealand see record plantings of grapes, area under vines in Australia goes from 61,000 hectares in 1992 to 80,600 hectares in 1996, an increase of 32%. Large scale production creates demand for efficient application of crop protection products.</td>
</tr>
<tr>
<td>AUS</td>
<td>Geoff Furness, a researcher with the South Australian Research and Development Institute (SARDI) starts work on improved chemical delivery by developing a low rpm broad cord fan, called the Hydra sprayer. Involves collaboration with industry and private entities.</td>
</tr>
<tr>
<td>NZ</td>
<td>George Eady, orchardist and inventor is developing a rotary cage atomiser type spray head, called the Quantum Mist. Discussions with Geoff Furness lead to the project moving toward a low rpm broad cord fan design with hydraulic hollow cone nozzles. Croplands approached by George to commercialise the design.</td>
</tr>
<tr>
<td>1997</td>
<td>Development of the Quantum Mist fan with SARDI. The SARDI fan, a 5-blade one-piece design, was a major step forward in the development of the Quantum Mist.</td>
</tr>
<tr>
<td>1998</td>
<td>Croplands recognised the potential for directional air application in grapes using axial fan technology.</td>
</tr>
<tr>
<td>1999</td>
<td>Early version of Quantum Mist launched in Australia. Reduction in spray drift continues to be focus of industry. Area under vines in Australia is now 98,600 hectares.</td>
</tr>
<tr>
<td>2000</td>
<td>Croplands begins manufacture of axial fan application machinery to meet the demand. Independent evaluation undertaken to test performance of the Quantum Mist technology.</td>
</tr>
<tr>
<td>2001</td>
<td>Impact of corporatisation and large-scale farming continues to drive demand for efficiency.</td>
</tr>
<tr>
<td>2002</td>
<td>Newly developed Quantum Mist released in market, achieves more effective coverage, at lower fan rpm, giving rise to multi-row sprayers able to cover much more area than single-row machines.</td>
</tr>
<tr>
<td>2003</td>
<td></td>
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<td>2004</td>
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QM500
500MM QUANTUM MIST™ FAN
» 5-blade fan producing maximum air for larger, sprawl-type or vigorous VSP canopy types and tree crops
» Eight recessed nozzles per head (up to 16 can be fitted), ceramic nozzles fitted
» Unrestricted intake for excellent air distribution downwind
» Extremely tough rotomolded cowl with no external spray line
» Fully adjustable with simple clamping system

QM380
380MM QUANTUM MIST™ FAN
» 5-blade fan producing maximum air for cool climate vine-types and managed canopies
» Six recessed nozzles per head (up to 12 can be fitted), ceramic nozzles fitted
» Unrestricted intake for excellent air distribution downwind
» Extremely tough rotomolded cowl with fully protected rear spray line
» Fully adjustable quick clamping system
» Lower oil supply requirements to suit smaller tractors and multi-row applications

Croplands expanded their sprayer range, capitalising on the success of the Quantum Mist fan, to manufacture sprayers designed specifically for apples, citrus and kiwifruit.

Over 14,000 Quantum Mist fan heads have been sold worldwide.
QUANTUM MIST™ GRAPE SPRAYERS

The ultimate performer in vineyards. The Quantum Mist offers outstanding spray coverage and improved efficiency. Each spray head is easily adjustable to achieve the best results. The high volume positive displacement pump and ceramic spray tips ensure excellent droplet deposition throughout the vine canopy.

» Minimise drift
» Reduce fuel use
» Run at lower rpm

» Increase coverage
» Lower application rates
» Increase spraying speeds

FEATURES

CHASSIS
Full length, hot-dipped galvanised chassis with jockey wheel and step.

MAIN TANK
UV-stabilised, high impact-resistance with external sight gauge and large flip-open filling lid.

» Single-row 1500, 2000 and 3000 litre models available – Now cable-drive
» 2-row 1500, 2000, 3000 and 4000 litre models available
» 3-row 3000 and 4000 litre models available

QUANTUM MIST FANS
The QM500 (500mm) hydraulic drive fan head is the original design – made for larger, sprawl canopies and vigorous VSP canopies. Each fan delivers high-volume, turbulent, directional air at 24.5 M/sec*.

Fitted with the 5-blade SARDI designed fan – tried, tested and proven.

The QM380 (380mm) hydraulic-drive fan head is designed for cool-climate grape canopies and those that are managed through trimming and pruning throughout the season. The air produced is very similar to the larger model – high-volume, directional for excellent coverage, produced at 17.7 M/sec*.

Cable-drive now available on all single-row and linkage models, see page 10 for details.

PUMPS
All Quantum Mist sprayers are fitted with AR (Annovi Reverberi) oil-bath positive displacement diaphragm pumps to provide excellent liquid supply to the nozzles. Typical operating pressure range is 5–12 bar at the nozzle.

FILTRATION; AGITATION
Each sprayer is fitted with a tank filling strainer, suction filter, pressure or nozzle filters and full venturi tank agitation backed with bypass agitation from the pump.

FLUSHING TANKS
Every Quantum Mist is fitted with a flushing tank as standard equipment. Rinsing the sprayer in the vineyard makes environmental sense.

SELF-STEERING DRAWBAR
Standard on all 1500, 2000, 3000 and 4000 litre 2 and 3-row machines. Vital for tighter turns to keep the trailing unit in the same track as the tractor. Optional on single-row sprayers.

*Measured at 2500 fan rpm.
FULLY ENCLOSED OIL SUPPLY SYSTEM
» Option on 2 and 3-row Quantum Mist grape sprayers
» Incorporates on-board oil tank and fully enclosed oil supply for fan operation
» Optional hydraulically driven liquid pump can be fitted, driven by the tractor’s oil supply
» Ideal for use with tractors that have limited oil supply

LEFT AND RIGHT TERRACING KIT
» Lift left/right hand booms independently
» Ideal for terraced vineyards
» Can be used for some overhead sprinkler blocks
» Provides total control from the cab

HYDRAULIC OUTER-ROW ADJUSTMENT
» Ideal for multi-row widths
» 600mm adjustment from cab
» Avoids time consuming manual adjustments
» Hydraulic in-cab outer-row adjustment available as an option

AUTO SPRAY RATE CONTROL
» A must for most growers to ensure exact application and assurance that spray programmes have been correctly followed
» Displays spray rate in L/Ha or L/100m, speed, flow, and tank level
» Stores up to 10 job configurations
» Fan display available

IN-CAB FAN SENSORS AND CONTROL
» With HV4000 controller fitted, fan speed sensors and controls can be used from console
» Fan speed control used to adjust air output for differing canopy growth stages or different ages of vines
» Ideal for early season applications, sensitive areas and increasing maximum output when required

SELF-STEER DRAWBAR
» Allows for tighter turns
» Protects PTO driveshaft
» Sprayer follows tractor tracks

TANDEM AXLE SUSPENSION
» For total stability in multi-row applications
» Standard on 3-row sprayers, optional on single and 2-row machines
» Available in steering configuration on 3000 and 4000 litre 2 and 3-row sprayers

LEAF GUARDS
» Fitted to lower fans to reduce build up of debris
» Ensure fans keep operating at optimum air output

2” QUICK FILL
» Allows rapid filling from external source without the need for overhead tanks
» With camlock connection and top/bottom internal dropper to minimise tank foaming
Quantum Mist Cable-drive sprayers provide solutions for specialised production systems and smaller horticultural holdings.

Quantum Mist Cable-drive sprayers provide solutions for specialised production systems and smaller horticultural holdings.

The cable-drive system has been initially developed for single row Quantum Mist sprayers to enable smaller tractors to use the extremely successful Quantum Mist technology. For linkage sprayers, single-row sprayers and horizontal boom applications, the cable-drive system provides excellent options for growers with savings in power requirements and fuel use.

For canopy crops, such as grapes or other trellis-grown fruit, four fans – in either 380mm or 500mm configuration – are individually directly driven by a flexible cable from a central gearbox located on the sprayer frame. Croplands have been working on this design for two years with the aim of introducing the system as a very simple and reliable option. For horizontal use in crops such as strawberries or vegetables, up to five 380mm or 500mm fans can be driven using cable-drive.

The central gearbox is driven by a hydraulic motor by the tractor hydraulics. The cables simply plug into the multiple outlet, central gearbox at one end, and the Quantum Mist fan head at the other. It couldn’t be simpler.

The hydraulic drive on the central gearbox incorporates a soft-start system to ensure the system starts slowly. The gearbox has a clutch over-run to allow the system to slow down when the fans are stopped to avoid damage to the cables themselves. Manual fan speed adjustment is fitted standard; electric fan speed adjustment is optional using an HV4000 auto-rate controller. If the operator requires a fan speed monitor using the manual speed adjustment system, Croplands have a great device called the Visio for this purpose as an option.

A number of key benefits are provided with the cable drive system. The whole system is very quiet, very simple and easy to maintain. No electrical or hydraulic circuitry to the fans is required. It is fully serviceable – provided the outer cable sheath is not damaged, a new inner cable can be put in place within a few minutes. It’s easy to understand how it works.

For more information on oil-flow requirements to drive the distribution gearbox, as well as total power required for 4 or 5 fans (380mm or 500mm), please contact Croplands.

**ALBUZ ATR**

ALBUZ ATR ceramic hollow conejets now fitted to Quantum Mist sprayers

**FEATURES AND SPECIFICATIONS**

» Wide pressure range, 5–25 bar
» Easily dismantled for cleaning
» Lower profile, less likely to be damaged
» Precision polished ceramic surfaces to give precise flow rate
» Extremely durable pink ceramic surfaces
SINGLE-ROW TRAILED CABLE-DRIVE QUANTUM MIST™

Available in 1500, 2000 and 3000 litre tank sizes, the cable-drive single row Quantum Mist provides an economical spraying solution incorporating the latest individual fan technology.

Four 380mm or 500mm cable-drive fans are fitted on adjustable height and width brackets for easy configuration to the crop needs. A 125 litre per minute PTO drive pump is fitted to the sprayer with larger pump models available on request.

Flushing and handwash tanks are fitted standard to all models to allow for full cleanout in the field, as well as operator fresh water from the hand wash tank if needed. Ceramic ALBUZ conejets are fitted standard to ensure excellent droplet formation for maximum coverage. Options for the single-row range are: Electric or fully automatic spray rate control, self-steering drawbar, sprung single axle or sprung tandem axle, individual left/right terracing, flotation tyres and a 160 L/min pump option.

HORIZON ROW-CROP CABLE-DRIVE QUANTUM MIST™

The Horizon cable-drive Quantum Mist sprayer is built for row crops such as strawberries or vegetables.

Up to five 380 or 500mm fans can be mounted on the galvanised hydraulic fold boom. The outer wings of the boom slide in or out to match row spacing – these can be pre-set at the factory. Options include 500, 700 or 1000 litre tank sizes, hydraulic height adjustment and electric or auto-spray rate controls. A 115 L/min pump is standard.

Below: With many features in common with the single-row trailed models, the cable-drive linkage sprayer will suit row crop applications. A 500, 700 or 1000 litre tank is available in this range. Options include electric or auto-spray rate control and electric air-speed adjustment with the HV4000 fitted. Hydraulic boom fold is standard.
FOR INTENSIVE TREE CROPS
Growers of high-value tree crops such as pip and stonefruit or avocados have moved to more intensive plantings to maximise their returns and improve harvesting efficiency.

Often this has meant the conventional air-blast sprayer doesn’t suit the orchard design.

The tree shape in these situations lends itself perfectly to the Quantum Mist Tower sprayer – built specifically for these intensive plantings.

With three Quantum Mist heads per side, the tower sprayer provides much more precise application to each sector of the tree, with a total of 24 nozzles per tree-canopy side compared to a conventional sprayer with around 10 nozzles per side.

Better coverage with faster travel speeds makes total economic sense and is exactly what growers are discovering with the Quantum Mist Tower sprayer.
STANDARD FEATURES

CHASSIS
All models have a full length hot-dipped galvanised chassis. The chassis is designed for moderate flex combined with high strength to allow for incremental movement under load.

The HS (slimline) model has an adjustable axle whilst the standard XL model has a fixed axle matched to the tank size.

MAIN TANK
UV-stabilised, high impact-resistance with external sight gauge and large easy access filling lid.

» HS version – 2000 litre main tank, optional 80 litre flush tank, 15 litre handwash tank, with suction probe and chemical pre-mixer standard

» XL version – 2000, 3000 or 4000 litre main tank, with 130/90/80 litre flush tank, 15 litre handwash tank, with suction probe and chemical pre-mixer standard

» The tank shape of the HS model is shaped to allow for narrow rows in intensive plantings – 1.4 metres wide from outside to outside of the wheels with the tank itself 1.3 metres at its widest point

QUANTUM MIST FANS
Six individual 500mm Quantum Mist fans for complete canopy coverage, effective for all spray applications. Comes with eight individual nozzles per fan, and up to 16 nozzles can be fitted on each fan as an option using double nozzle assemblies. Each fan can be individually adjusted, to maximise the coverage across different canopy types and stages. Leaf guards are fitted to the two bottom fans.

PUMPS
AR (Annovi Reveberi) 4-diaphragm positive displacement pump with an open-flow of 180 L/min, running at between 5 and 12 bar pressure in normal operating conditions. An optional brass head/manifold 200 L/min AR pump can be fitted where higher flows and pressures are required.

FILTRATION; AGITATION
Filtration is provided by a tank filling strainer, large suction filter and a pressure line filter or nozzle filters (main pressure filter is standard with electric controls and auto-rate controls). Tank agitation is provided by twin venturi agitators in the tank backed up with bypass from the pump.

FLUSHING TANKS
Separate flush tank fitted as standard (size dependant on main tank size selected).

SELF-STEERING DRAWBAR
Included in the chassis design is a self-steering drawbar system to allow for tighter turns and to ensure the sprayer tracks very closely to where the rear tractor wheels turn.

OPTIONAL FEATURES

TANDEM AXLE
A tandem simplicity-style axle option is available on all XL models. On the 3000 and 4000 litre model, a tandem steering axle is available – all tandem axles have mudflaps fitted.

FULLY ENCLOSED OIL SUPPLY SYSTEM
90 litre oil tank mounted on sprayer with self-steering drawbar linked to sprayer.

AUTO SPRAY RATE CONTROLLER
Several models of electric or auto-rate controls are available for the Quantum Mist Tower sprayer – the most commonly fitted is the HV4000 auto-rate controller with up to two shut-offs per side. The HV4000 provides automatic spray rate application with a back-lit contrast screen showing up to four functions at one time. For more information on the HV4000 and other controllers, see page 24.

IN-CAB FAN SPEED CONTROL
With the HV4000 controller fitted, an integrated in-cab fan speed control can be used from the console to adjust the air output for differing canopy growth stages. Ideal for early season applications, in sensitive areas, and for increasing maximum output when required.

WHEELS
Optional upgrade to 400 x 15.5 flotation tyres in lieu of standard type on the single-axle.
## SPRAYER SELECTION GUIDE

### STANDARD FEATURES AND OPTIONS

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<th>CONTROLLER MODEL OPTIONS</th>
<th>FAN SIZE OPTIONS</th>
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<td>Quantum Mist™ single-row</td>
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<td>125 (STD), 160 optional</td>
<td>Manual, electric, MT3405, HV4000,</td>
<td>QM380, QM500</td>
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<td>STD</td>
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<td>Quantum Mist™ 2-row</td>
<td>1500, 2000, 3000, 4000</td>
<td>160</td>
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<td>Quantum Mist™ 3-row</td>
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<td>180 (STD), 250 optional</td>
<td>Manual, electric,</td>
<td>QM500</td>
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<td>Quantum Mist™ Tower</td>
<td>2000, 3000, 4000</td>
<td>180 (STD), 200 optional</td>
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<tr>
<td>Quantum Mist™ Linkage</td>
<td>700, 1000</td>
<td>115</td>
<td></td>
<td>QM380, QM500</td>
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<td>STD</td>
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<tr>
<td>Quantum Mist™ Ultra Tower</td>
<td>4000</td>
<td>250 with 135 for agitation</td>
<td>Electric, MT3405, HV4000</td>
<td>QM500</td>
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<td>STD</td>
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<td>Cropliner HS (slimline) Poly</td>
<td>2000</td>
<td>170 (STD), 140/200 optional</td>
<td>ARB/H50 (STD), electric, MT3405, HV4000,</td>
<td>820LT, 820SV, 920DSV, 920DSVT</td>
<td>Flotation tyres</td>
<td></td>
<td>STD</td>
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<td>Cropliner HS (slimline) F/glass (NZ only)</td>
<td>2000</td>
<td>170 (STD), 140/200 optional</td>
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<td>Cropliner XL</td>
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<td>ARB/H50 (STD), electric, MT3405, HV4000,</td>
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<td>Flotation tyres, suspension axle</td>
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<td>4000</td>
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<tr>
<td>Cropair</td>
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<td>81 (STD), 105 optional</td>
<td>Manual ARVDR50 (STD), electric</td>
<td>620SV, 820SV, 820LT, 920DSV</td>
<td></td>
<td>N/A</td>
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</tr>
</tbody>
</table>

### SELECTING THE RIGHT SPRAYER

To select the right sprayer for your production system, we recommend discussing the following with your Croplands dealer:

- **Crop type:**
  - Wine grapes
  - Table grapes
  - Citrus
  - Apples
  - Stonefruit
  - Bananas
  - Other

- **Vineyard/orchard area (Ha):** …………………

- **Terrain:**
  - Flat
  - Undulating
  - Hilly
  - Terraced
  - Contoured

- **Row spacing (m):** …………………

- **Canopy height (m):** …………………
  - Tree height (m) ……………………………

- **Canopy width (m):** ………………………
  - Tree diameter (m) ………………………

- **Overhead irrigation height (m) (if applicable):** …………………
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- Optional
- STD standard
- N/A not available

Trellis post height (m) (if applicable): .............................................

Headland width (m) ..............................................................

Application rates: Season lowest .................................................... Season highest ......................................................

Spraying speed range: ..................................................................................................................................

Tractor make and model: ..................................................................................................................................

Engine capacity (hp): ..............................................................................................................................

Oil flow (L/m) from tractor remotes ..............................................................
QUANTUM MIST™ ULTRA TOWER

Unbeatable canopy coverage in tall tree crops.

STANDARD FEATURES

CHASSIS
Full length hot-dipped galvanised chassis with jockey wheel or stand and pull out step.

MAIN TANK
4000 litre UV-stabilised; high impact-resistance polyethylene tank with external sight gauge and large easy access filling lid.

QUANTUM MIST FANS
Eight individual 500mm Quantum Mist fans for complete canopy coverage, effective for all spray applications. Comes with eight ceramic ALBUZ conejet nozzles per fan, and up to 16 nozzles can be fitted on each fan as an option using double nozzle assemblies. Each fan can be individually adjusted, to maximise the coverage across different canopy types and growth stages. Leaf guards are fitted to the two bottom fans.

PUMPS
Annovi Reverberi oil-bath positive displacement diaphragm pumps with chemical resistant diaphragms and corrosion resistant cast anodised body.

FLUSHING TANKS
Separate 80 litre flush tank fitted as standard.

SELF-STEERING DRAWBAR
Included in the chassis design is a self-steering drawbar system to allow for tighter turns and to ensure the sprayer tracks very closely to where the rear tractor wheels turn.

HYDRAULICALLY FOLDING TOWER
The top section folds hydraulically for transport and shed storage.

The Quantum Mist Ultra Tower is perfect for larger tree spraying of crops such as citrus, avocados and mangos.

The Ultra Tower allows you to cover ground faster with time saving and reduced fuel costs compared to traditional air blast technology.
OPTIONAL FEATURES

AUTO SPRAY RATE CONTROLLER
Select from the HV4000 or BRAVO180 controllers, setup with 2 or 4-section controls (see page 24 for more information).

IN-CAB FAN SPEED SENSOR AND CONTROL
With the HV4000 controller fitted, rpm sensors can be added as an option to the fan system to monitor one or all eight fans.

Electric fan speed control can be used from the HV4000 console to adjust the air output for differing canopy growth stages. Ideal for early season applications, in sensitive areas, and for increasing maximum output when required.

HYDRAULIC TOWER WIDTH ADJUSTMENT
Hydraulic width option for the upper-section for accommodating differing tree shapes.

FULLY ENCLOSED OIL SUPPLY SYSTEM
120 litre oil tank and PTO driven oil pump mounted on self-steering drawbar assembly to drive all fans independently of the tractor oil supply. Tractor oil supply drives liquid pump. Ideal option for tractors with a limited oil supply.
CROPLINER

For growers interested in a more conventional air-blast sprayer design, Croplands has a full stable of models with some crop-specific features and options to round out the package.

FANS
From the smaller 620SV fan through to the new 920DSV fan, there will be a model to match up to the tree shape and size on your orchard. Along with the standard version of the 920mm DSV fan, the LT (Linear Tower) directional volute fan is available. Every fans cowling and back plate is made of steel – either galvanised or fully stainless. Croplands’ range of fans is second to none, with high volume air available to really penetrate into the canopy for exceptional coverage. Every Cropliner fan has a heavy-duty gearbox and a centrifugal clutch with relineable shoes running on a steel-lined clutch hub. This will ensure years of use in the demanding environment of horticulture.

DSV FAN
With many developments and innovations to the fan blade, clutch and gear box the new Croplands DSV fan is specifically designed to give greater coverage with a reduced horsepower requirement, enhanced fan efficiency and increased tractor reliability. Less reliance on horse power means a considerable saving on fuel and much quieter operating noise levels from both the fan and the tractor.

PUMPS
Every Cropliner is fitted with a 50 bar rated oil-bath AR diaphragm pump matched to the model size. The 2000, 3000 and 4000 litre models have a brass head/manifold pump fitted standard.

CHASSIS
The proven chassis design, fully galvanised, will last the life of the Cropliner sprayer, and comes standard with excellent features such as a heavy-duty bumper, a leaf guard, and a large step for safety when accessing the filling or mixing lids.

NOZZLES
All nozzle bodies on our air-blast sprayers are brass, and have a roll-over function that give two individual nozzle selections by turning the body 180 degrees – and they can be fully shut off with a 90 degree turn.

DSV FAN CROPLINER
» Up to 37% more air than previous model
» Quieter operation
» More nozzles for better coverage
» More efficient fan with lower horsepower requirements
» Improved productivity
CROPLINER HS

1. Heavy-duty oil-bath brass diaphragm pump provides positive displacement at high pressure to ensure excellent droplet atomisation at all times
2. UV-stabilised poly tank for all models. High impact resistance
3. Large mixing and filling lid making tank access and filling simple and easy
4. Agitation is supplied from the pump bypass and pressure venturi agitation to ensure tank mix is continuously agitated
5. Optional flush tank to take care of the operator and ensure the tank can be rinsed in the orchard where it should be done
6. 820 SV and 920 DSV fan models. Stainless steel shroud, heavy-duty adjustable blades, 2-speed heavy-duty gearbox and large centrifugal clutch for maximum durability in the demanding orchard environment
7. Bumper bar and leaf guard to protect your fan from accidental damage
8. 6-stud steel rims, tubeless tyres and heavy-duty hubs and stubs are standard on the adjustable axle
9. Full-length galvanised chassis is fitted with an adjustable drawbar, step and wheel scrapers

CROPLINER XL

From 1500 litre to 4000 litre tank sizes. Fan options include 820mm and 920mm DSV fan, 820mm and 920mm SV fan on the Linear Tower. Every Cropliner XL is fitted with an AR 0–50 bar diaphragm pump and heavy-duty PTO shaft.

OPTIONAL LINEAR TOWER FAN

For certain applications, the Linear Tower Fan provides directed air capacity to ensure spray coverage is placed exactly where it is needed. Available in 820mm and 920mm fan sizes with either seven or nine nozzles per side respectively. Ideal for vine crops, trellis-grown crops or certain dwarf tree applications.

ALBUZ ATR NOZZLES

ALBUZ ATR ceramic hollow conejets now fitted to Cropliner sprayers

FEATURES AND SPECIFICATIONS

» Wide pressure range, 5–25 bar
» Easily dismantled for cleaning
» Lower profile, less likely to be damaged
» Precision polished ceramic surfaces to give precise flow rate
» Extremely durable pink ceramic surfaces
The Cropliner Self Propelled sprayer is perfectly designed to suit the needs of orchards and is an impressive machine that should be considered when upgrading your spraying equipment. The Cropliner SP can go more places than your current tractor and trailed or linkage sprayer combination, thanks to its low and compact design.

This unit is built with operator comfort and practicality in mind, with an air conditioned fully enclosed cab with carbon filters, featuring radio/CD player and excellent visibility from the windscreen and rear camera.

With four wheel steer the tight turning capability of the Cropliner SP means that properties with narrow headlands are no challenge, and you will increase your spraying efficiency by quickly getting into the next row. This unit is mechanically driven, with a top speed of 20 km/hr.

**FEATURES**

- 1000 litre fibreglass tank, with paddle wheel agitation
- AR 135 diaphragm pump belt driven direct from the engine
- 900mm fan with double spray ring and 14 ALBUZ ATR nozzles/side with double roll over bodies
- Standard with HV4000 auto rate controller
- Hyundai 65 hp diesel engine (turbo)
- 5 speed manual transmission with a high and low range gearbox
- 4 wheel drive, 4 wheel steer, crab steer, 2 wheel steer
- Air conditioned cabin with carbon filter
- Full time rear camera
- Head lights, reversing light
- Dimensions are L: 4245, H: 1465, W: 1340

NEW 2000L MODEL COMING SOON
The Cropair range of linkage sprayers is ideal for tight and steep blocks. With all of the efficiencies and fan technology of our trailed units these sprayers are easy to operate in all conditions.

**TANK SIZES**
In the Cropair linkage range, a 500 litre and 700 litre model give options for smaller holdings, or where a trailing machine is not an option.

**PUMPS**
Every Cropliner or Cropair is fitted with a 50 bar rated oil-bath AR diaphragm pump matched to the model size.

**NOZZLES**
All nozzle bodies on our air-blast sprayers are brass, and have a roll-over function that give two individual nozzle selections by turning the body 180 degrees – and they can be fully shut off with a 90 degree turn.

**SINGLE-SIDED VOLUTE**
The single-sided volute suits the 920DSV fan, allows one-sided spraying and is ideal for very tall trees or shelter belts.

**AIRBLAST APPLICATION**
Matching a fan to the needs of the orchard is the key to choosing the right option for your needs.
Croplands Herbiliner trailed herbicide applicators can provide up to 3-row application with features and options well suited to the task. Either as a linkage mounted single-row sprayer, or coupled to a trailing herbicide tank and chassis, with optional herbicide injection, the system gives growers another tool for ensuring these jobs are done on time and efficiently.

**HERBILINER**
Available in 1500, 2000 and 3000 litre sizes, with options of 2 or 3-row configuration, the Herbiliner features:
- Positive displacement diaphragm pump
- Electric section control
- Galvanised chassis
- Front-mounted hydraulic fold boom
- Covered booms
- Suction probe
- Flushing and hand-wash tank
- Optional self-steering drawbar
- Optional tandem suspension axle
- Quick fill option

**HERBILINER PLUS**
The Herbiliner Plus has some extra options, and is based on the same chassis design as the Quantum Mist vineyard sprayer. A rear mounted folding boom assembly allows a hydraulic terracing kit to be fitted, a hydraulically operated outer-row adjustment kit option, and can be made in tank sizes of 2000 and 3000 litre.

For controlled herbicide use, the Herbiliner is the best option for no drift, precise application.
WHY MORE AUSTRALIAN VINEYARD MANAGERS ARE CHOOSING THE QUANTUM MIST 3 ROW SPRAYER

» Hourly fuel consumption reductions of up to 42%
» Increased work rate reduces tractor operating hours to spray the property – extending the operating life for tractor up to 1.5 years

» Potential to increase travel speeds (compared to maximum travel speeds recommended for other sprayer types) that can result in work rate increases of 0.4 additional hectares treated per hour – equivalent to a reduction in spraying time of 5 hours over a 100 hectare vineyard.

» Consistent application rates and coverage across all three rows sprayed

» The Quantum Mist 3 row sprayer tested showed up to a 12.75% reduction in decibel compared to other brand sprayers, reducing noise discomfort to operators and neighbours.

All comparisons were made between a Quantum 2000 trailed sprayer and the equivalent 3 row trailed spray from another brand.
**CONTROLLERS**

**HV4000 AUTO-RATE CONTROLLER**

Designed specifically for the horticultural grower, the HV4000 offers unique features that set it apart for use in vineyards and orchards:

- On-the-go spray rate adjustment
- Push button auto/manual feature for spot treatments
- Solenoid and motorised ball valve compatible
- Ten individual operating histories to display total area, flow, distance and hours
- User-friendly menu, contrast screen with backlit keys for night operation
- Control up to four individual spray lines
- Flow based control
- Tank volume indicator
- Multiple row widths
- Application rate displayed in L/ha or L/100 metres
- Full screen monitoring
- Programmable alarms
- Data logger (optional)
- Fully programmable
- Optional fan speed sensors for up to 12 fans on Quantum Mist

**ORDER CODE** | **PRODUCT DESCRIPTION**
---|---
MT3405F | Entry-level Auto Spray Rate controller. Automatically adjusts spraying rate to compensate for speed changes. Dual LCD display can read a dual combination of speed, litres per hectare, litres per minute, area per hour and litres used. Records total litres used and area covered. Suitable for applications up to 20 bar pressure
I-E2022 | 2-section (L/R) electric control with proportional bypass shut-off valves, electric pressure adjustment and in-cab switch box. 20 bar rated
I-S4021 | 40 bar rated 2-section electric control unit with two on/off high-pressure solenoids, master on/off switch and electrically adjustable pressure switch all operated from an in-cab switchbox (no image)
ARBMH50 | Two-outlet manual controller suited to high-pressure 50 bar rated diaphragm pumps. Rotary selector lever controls individual left and right shut-off or master shut off with either pressure bypass or non-pressure bypass. Can be pump mounted or remote mounted. Max flow 200 L/min, max pressure 50 bar (725 psi)
ARUCM-4 | Remote mount 4-way controller suitable for most 20 bar rated diaphragm pumps. 4 individual shut-off taps, master shut-off lever and gauge fitted. Remote mount plate fitted. Max flow 150 L/min, max pressure 20 bar (290 psi). 2-tap and 6-tap version also available
A4670610 | The Visio is an innovative multi-function viewer for use with a variety of sensors utilising selectable software to detect inputs such as pressure, flow, and speed. It can output such data as area, L/ha, flow rate, litres used and pressure in bar
BRAVO180 | Bravo 180 new generation spray rate controller, features include: Multi-function LCD display, 2 or 4 section control. Can display spray rate in L/Ha or L/100m, speed, flow, area tank level and other functions. Stores up to 10 job configurations. Visual and audible alarms. Suitable to match up to 20 or 40-bar sprayer configurations
APPLICATION TOOLS

SPRAYWISE CONVERSION TABLE
Are you confused about water rates in tree crop and vine applications? Croplands and Nufarm have developed an easy to follow table to simplify the process and answer your questions on dosage rates converting L/ha to L/100m.

To obtain a free copy contact Croplands on freecall 1800 999 162.

SARDI FLUORESCENT DYE
For thorough spray coverage analysis, all sprayer operators or owners of sprayers should consider investing in Croplands SARDI fluorescent dye.

The dye is tank-mixed with water and sprayed onto the target crop. There are no residue issues as this is food grade quality dye. A UV-light is needed to assess coverage results.

<table>
<thead>
<tr>
<th>ORDER CODE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>L-M1111</td>
<td>1 litre fluorescent dye</td>
</tr>
<tr>
<td>L-M1115</td>
<td>5 litre fluorescent dye</td>
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</tbody>
</table>

OIL-FLOW REQUIREMENTS

A guide for oil-flow requirements for various Quantum Mist™ models, measured at the tractor remotes*:

<table>
<thead>
<tr>
<th>MODEL</th>
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<td>18 L/min at 2000psi</td>
</tr>
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<td>22 L/min at 2750psi</td>
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<tr>
<td>Eight-head ultra tower with eight QM500 fans</td>
<td>80 L/min at 2750 psi</td>
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*Use as a guide only. Specifications can change without notice. Please note cable drive systems have comparable oil requirements.

WINDMATE HAND-HELD WEATHERMETER

Weather plays an important part during application. Measuring conditions on the spot such as wind speed, delta T and temperature make a vital difference in the daily decision making of an applicator. An increasing number of labels make it mandatory to note these conditions before commencing application. For everybody who applies chemicals, the WindMate is a must have tool.

Features
- Temperature in °C or °F
- Relative humidity in % (does not need re-calibration)
- Wet bulb temperature in °C or °F
- Dewpoint in °C or °F
- Delta T in °C or °F
- Windspeed in Kn/hr, MPH, knots, Ft/min and Beaufort (also gives maximum and average)
- Compass and wind direction (using wind vane)
- Comfort index (takes into account the impact of wind, temperature, relative humidity and sun strength)

2 YEAR WARRANTY

OUR TOTAL QUALITY COMMITMENT
SUBJECT TO CROPLANDS TERMS AND CONDITIONS

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- Compass and wind direction (using wind vane)
- Comfort index (takes into account the impact of wind, temperature, relative humidity and sun strength)
**NOZZLE SELECTION**

**TREE CROP AND VINE NOZZLES**

The most common nozzle type used in horticulture are cone type nozzles. Generally they are used at high pressures from 5 to 20 bar and above. Cone nozzles can come as a fully assembled single nozzle body, eg. ALBUZ ATR, or in separate parts that need to be assembled into a nozzle body, commonly referred to as cores and discs. Hollow cone nozzles generally produce a FINE to VERY FINE spray quality with a narrow droplet spectrum. The small, consistent droplet size and the low energy levels favour deposition and coverage and make them the preferred nozzle type in air-assisted vine and tree spraying. In contrast to a hollow cone set up, the cores of solid cone nozzles have an extra hole in the centre that allows part of the liquid to pass straight to the disc and fill the inner cone pattern. Those droplets travel straight with the airstream, have more kinetic energy and may reach as far as four metres without air-assist. Distance is improved but the potential for deposition and coverage on short distance is reduced. Solid cones are generally used to achieve better coverage on distanced targets such as the top of a tree.

<table>
<thead>
<tr>
<th>NOZZLE TYPE AND DESCRIPTION</th>
<th>SIZE RANGE, MATERIAL AND SPRAY ANGLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALBUZ ATR</td>
<td>Hollow cone, ALBUZ 60° and 80°, 5–20 bar (optimum 10–15 bar), pink ceramic</td>
</tr>
</tbody>
</table>

**ALBUZ ATR HOLLOW CONE FLOWRATE CHART**

<table>
<thead>
<tr>
<th>PRESSURE</th>
<th>L/MIN</th>
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</thead>
<tbody>
<tr>
<td><strong>BAR</strong></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>White 0.27 Lilac 0.36 Brown 0.48 Yellow 0.73 Orange 0.99 Red 1.38 Grey 1.5 Green 1.78 Black 2 Blue 2.45</td>
</tr>
<tr>
<td>6</td>
<td>White 0.29 Lilac 0.39 Brown 0.52 Yellow 0.8  Orange 1.08 Red 1.51 Grey 1.63 Green 1.94 Black 2.18 Blue 2.67</td>
</tr>
<tr>
<td>7</td>
<td>White 0.32 Lilac 0.42 Brown 0.56 Yellow 0.86 Orange 1.17 Red 1.62 Grey 1.76 Green 2.09 Black 2.35 Blue 2.87</td>
</tr>
<tr>
<td>8</td>
<td>White 0.34 Lilac 0.45 Brown 0.6 Yellow 0.92 Orange 1.24 Red 1.73 Grey 1.87 Green 2.22 Black 2.53 Blue 3.06</td>
</tr>
<tr>
<td>9</td>
<td>White 0.36 Lilac 0.48 Brown 0.64 Yellow 0.97 Orange 1.32 Red 1.83 Grey 1.98 Green 2.35 Black 2.64 Blue 3.24</td>
</tr>
<tr>
<td>10</td>
<td>White 0.38 Lilac 0.5 Brown 0.67 Yellow 1.03 Orange 1.39 Red 1.92 Grey 2.08 Green 2.47 Blue 2.78 Blue 3.4</td>
</tr>
<tr>
<td>11</td>
<td>White 0.39 Lilac 0.52 Brown 0.7 Yellow 1.07 Orange 1.45 Red 2.01 Grey 2.17 Green 2.58 Black 2.9 Blue 3.56</td>
</tr>
<tr>
<td>12</td>
<td>White 0.41 Lilac 0.55 Brown 0.73 Yellow 1.12 Orange 1.51 Red 2.09 Grey 2.26 Green 2.69 Blue 3.03 Black 3.71</td>
</tr>
<tr>
<td>13</td>
<td>White 0.43 Lilac 0.57 Brown 0.76 Yellow 1.17 Orange 1.57 Red 2.17 Grey 2.35 Green 2.79 Black 3.14 Blue 3.85</td>
</tr>
<tr>
<td>14</td>
<td>White 0.44 Lilac 0.59 Brown 0.79 Yellow 1.21 Orange 1.63 Red 2.25 Grey 2.43 Green 2.89 Black 3.26 Blue 3.99</td>
</tr>
<tr>
<td>15</td>
<td>White 0.46 Lilac 0.61 Brown 0.81 Yellow 1.25 Orange 1.69 Red 2.33 Grey 2.51 Green 2.99 Black 3.36 Blue 4.12</td>
</tr>
<tr>
<td>16</td>
<td>White 0.47 Lilac 0.63 Brown 0.84 Yellow 1.29 Orange 1.74 Red 2.4 Grey 2.59 Green 3.06 Black 3.47 Blue 4.25</td>
</tr>
<tr>
<td>17</td>
<td>White 0.48 Lilac 0.64 Brown 0.86 Yellow 1.33 Orange 1.79 Red 2.47 Grey 2.67 Green 3.17 Black 3.57 Blue 4.37</td>
</tr>
<tr>
<td>18</td>
<td>White 0.5 Lilac 0.66 Brown 0.89 Yellow 1.37 Orange 1.84 Red 2.54 Grey 2.74 Green 3.25 Black 3.67 Blue 4.49</td>
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<tr>
<td>19</td>
<td>White 0.51 Lilac 0.68 Brown 0.91 Yellow 1.4 Orange 1.89 Red 2.6 Grey 2.81 Green 3.34 Black 3.76 Blue 4.61</td>
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<tr>
<td>20</td>
<td>White 0.52 Lilac 0.7 Brown 0.93 Yellow 1.44 Orange 1.94 Red 2.67 Grey 2.88 Green 3.42 Black 3.85 Blue 4.72</td>
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</tbody>
</table>

TeeJet Equivalent* TX TX-W3 TX-W4 TX-W6 TX-W8 TX-W12 TX-W18 TX-W18 TX-W18 TX-W26 TX-W26 TXB80 TXB-050VK TXB-067VK TXB-01VK TXB-015VK TXB-02VK TXB-03VK TXB-03VK TXB-04VK TXB-04VK

Note: Colours in table represent actual nozzle colour. ALBUZ TVI range is ISO colour coded.

The ALBUZ ATR is NOT ISO colour coded. The nozzle colour is NOT related to a specific output.

**AIR-INDUCTION NOZZLES FOR HORTICULTURE**

In some situations, spray drift while spraying tree and vine crops with an air-assisted sprayer can be a problem. Usually this is the case for growers whose property is close to urban development. A new nozzle has been introduced from ALBUZ as an alternative to the standard cone nozzles. The TVI nozzle is constructed of polypropylene, ceramic for excellent wear characteristics.

<table>
<thead>
<tr>
<th>NOZZLE TYPE AND DESCRIPTION</th>
<th>SIZE RANGE, MATERIAL AND SPRAY ANGLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALBUZ TVI</td>
<td>TVI, hollow cone 80°, high-pressure air-induction, drift reducing, 5–20 bar (optimum 10–16 bar)</td>
</tr>
</tbody>
</table>

**ALBUZ Equivalent* TVI**

<table>
<thead>
<tr>
<th>Purple 80-0050</th>
<th>Pink 80-0075</th>
<th>Orange 80-01</th>
<th>Green 80-015</th>
<th>Yellow 80-02</th>
<th>Lilac 80-025</th>
<th>Blue 80-03</th>
<th>Blue 80-03</th>
<th>Red 80-04</th>
<th>Red 80-03</th>
</tr>
</thead>
</table>
CROPLANDS RANGE OF SPRAYING EQUIPMENT FOR HORTICULTURE, AS USED BY...

**Wine Grapes**
- Grant Burge Wines
- Brown Brothers
- Casella Wines
- Tyrell’s Wines
- Australian Vintage Limited
- McWilliams Wines

**Citrus**
- Minter Magic
- Colignan Producers

**Olives**
- Olive Grove

**Mangoes**
- One Harvest

**Avocados**
- Giofrelle Fresh Fruit
- I and A Tolson

**Strawberries**
- Gallace Farms
- Jenning and Sons
- Meander Valley

**Macadamia**
- Bundaberg Sugar

**Almonds**
- Olam Australia

**Apples**
- Thompson Orchards
- Montague Orchards
- Batlow Co-op

**Berries**
- Costa Exchange
# Nationwide Dealer Listing

## ACT/NSW

<table>
<thead>
<tr>
<th>Town</th>
<th>Company</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bathurst</td>
<td>On-Trac Ag</td>
<td>02 6322 5655</td>
</tr>
<tr>
<td>Bowral</td>
<td>Total Farm &amp; Garden Equipment</td>
<td>02 4861 2210</td>
</tr>
<tr>
<td>Canberra</td>
<td>S &amp; J Morrison</td>
<td>02 6235 5835</td>
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<tr>
<td>Corindi</td>
<td>NFS-Ag</td>
<td>0404 042 296</td>
</tr>
<tr>
<td>Corowa</td>
<td>O’Connors</td>
<td>02 6031 666</td>
</tr>
<tr>
<td>Goulburn</td>
<td>Goulburn Farm Machinery</td>
<td>02 4821 4148</td>
</tr>
<tr>
<td>Griffith</td>
<td>Guidolin Agrimac</td>
<td>02 6964 3400</td>
</tr>
<tr>
<td>Hoxham</td>
<td>Kentan Machinery</td>
<td>02 4964 3275</td>
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<tr>
<td>Orange</td>
<td>On-Trac Ag</td>
<td>02 6362 5566</td>
</tr>
<tr>
<td>Tumut</td>
<td>Tumut Farm Machinery</td>
<td>02 6947 6422</td>
</tr>
<tr>
<td>Wagga</td>
<td>Norwood Farm Machinery Centre</td>
<td>02 6921 2148</td>
</tr>
<tr>
<td>Young</td>
<td>Carruthers Machinery</td>
<td>02 6362 7233</td>
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## NT

<table>
<thead>
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<th>Town</th>
<th>Company</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Darwin</td>
<td>HD Pump Sales &amp; Service</td>
<td>08 8947 1008</td>
</tr>
<tr>
<td>Humpty Doo</td>
<td>HD Pump Sales &amp; Service</td>
<td>08 8986 1254</td>
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## QLD

<table>
<thead>
<tr>
<th>Town</th>
<th>Company</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atherton</td>
<td>Tableland Pumps &amp; Pipes</td>
<td>07 4001 2277</td>
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<tr>
<td>Ayr</td>
<td>A &amp; B Rural</td>
<td>07 4783 4488</td>
</tr>
<tr>
<td>Bowen</td>
<td>Barto Rural Services</td>
<td>07 4785 2222</td>
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<tr>
<td>Bundaberg</td>
<td>Lindsay Rural</td>
<td>07 4150 0050</td>
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<tr>
<td>Gatton</td>
<td>Lockyer Farm Machinery</td>
<td>07 5462 1888</td>
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<tr>
<td>Innisfail</td>
<td>RF Rural Supplies</td>
<td>07 4061 1066</td>
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<tr>
<td>Kingaroy</td>
<td>First Avenue Machinery Sales</td>
<td>07 4162 1246</td>
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<tr>
<td>Mareeba</td>
<td>Think Water Mareeba</td>
<td>07 4902 7788</td>
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<tr>
<td>Rockhampton</td>
<td>Milney Bros. Equipment</td>
<td>07 4927 1888</td>
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<tr>
<td>Thulimbah</td>
<td>Vedelego Mechanical Repairs</td>
<td>07 4685 2200</td>
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<tr>
<td>Tully</td>
<td>RF Rural Supplies</td>
<td>07 4068 1002</td>
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<tr>
<td>Wamuran</td>
<td>Suncoast Rural &amp; Water</td>
<td>07 5432 4511</td>
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## SA

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<thead>
<tr>
<th>Town</th>
<th>Company</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>Adelaide</td>
<td>Kubpower</td>
<td>08 8139 7200</td>
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<tr>
<td>Bordertown</td>
<td>O’Connors</td>
<td>08 8752 1311</td>
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<tr>
<td>Littlehampton</td>
<td>Central Hills Machinery</td>
<td>08 8301 1414</td>
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<td>Naracoorte</td>
<td>Kubpower</td>
<td>08 8762 0123</td>
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<td>Renmark</td>
<td>Riverland Farm Machinery</td>
<td>08 8586 3688</td>
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<tr>
<td>Roseworthy</td>
<td>Gawler Farm Machinery</td>
<td>08 8524 8131</td>
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<tr>
<td>Saddleworth</td>
<td>AW Water &amp; Co</td>
<td>08 8847 4920</td>
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<tr>
<td>Summertown</td>
<td>Squires Sales and Service</td>
<td>08 8390 3017</td>
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## TAS

<table>
<thead>
<tr>
<th>Town</th>
<th>Company</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>Kingston</td>
<td>Southern Machinery</td>
<td>03 6229 1113</td>
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<tr>
<td>Longford</td>
<td>T P Jones &amp; Co</td>
<td>03 6301 3140</td>
</tr>
<tr>
<td>Youngtown</td>
<td>T P Jones &amp; Co</td>
<td>03 6364 1666</td>
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## VIC

<table>
<thead>
<tr>
<th>Town</th>
<th>Company</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballarat</td>
<td>Cervus Equipment</td>
<td>03 5384 7585</td>
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<tr>
<td>Birchip</td>
<td>O’Connors</td>
<td>03 5430 2311</td>
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<tr>
<td>Colac</td>
<td>Swan &amp; McCabe</td>
<td>03 5281 5022</td>
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<td>Echuca</td>
<td>Agpower</td>
<td>03 5482 2264</td>
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<tr>
<td>Horsham</td>
<td>O’Connors</td>
<td>03 5382 1721</td>
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<td>Lilydale</td>
<td>Agpower</td>
<td>03 9739 5006</td>
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<td>Maffra</td>
<td>Cervus Equipment</td>
<td>03 5147 1122</td>
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<td>Mildura</td>
<td>Sunrise Ag</td>
<td>03 5020 0264</td>
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<tr>
<td>Shepparton</td>
<td>O’Connors</td>
<td>03 5421 4555</td>
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<tr>
<td>Swan Hill</td>
<td>Sunshine Ag</td>
<td>03 5502 0089</td>
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<tr>
<td>Wangaratta</td>
<td>McGregor Machinery</td>
<td>03 5722 9933</td>
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<td>Warracknabeal</td>
<td>O’Connors</td>
<td>03 5389 1877</td>
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<tr>
<td>Wodonga</td>
<td>Norwood Farm Machinery Centre</td>
<td>02 6659 7100</td>
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## WA

<table>
<thead>
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<th>Town</th>
<th>Company</th>
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<tbody>
<tr>
<td>Albany</td>
<td>Ratten and Slater Machinery</td>
<td>08 9842 6529</td>
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<tr>
<td>Boyup Brook</td>
<td>Greenline</td>
<td>08 9765 1305</td>
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<tr>
<td>Carnarvon</td>
<td>Cararvon Tractors</td>
<td>08 9991 3028</td>
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<tr>
<td>Cowaramup</td>
<td>Cowaramup Tractor Sales</td>
<td>08 9755 5207</td>
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<tr>
<td>Donnybrook</td>
<td>Machinery West</td>
<td>08 9731 0700</td>
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<td>Forrestdale</td>
<td>Growers Apritshop</td>
<td>08 9297 2300</td>
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<tr>
<td>Moora</td>
<td>Conningshams Ag</td>
<td>08 9651 1638</td>
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<td>Muchea</td>
<td>CD Tractor Sales &amp; Service</td>
<td>08 9591 4137</td>
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<tr>
<td>Perth</td>
<td>Greenline</td>
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<td>Perth</td>
<td>Sprayline Spraying Equipment</td>
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<tr>
<td>Wangara</td>
<td>Beya Equipment</td>
<td>08 9409 2908</td>
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