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Using his extensive knowledge and experience, **Greg Small** (pictured right) – all round sprayer guru – made the Croplands Kiwiliner a reality in a short timeframe. Read about the features and specifications in our 2018 Tree and Kiwifruit sprayer guide.

### GENERAL MANAGER'S WELCOME

Dear Customer,

This year we offer orchardists a new dedicated Tree Crop and Kiwifruit Buyers' Guide which includes our range of Quantum Mist<sup>™</sup> Tower sprayers, Cropliner, Kiwiliner, Avoliner, Cropair and Self Propelled Cropliner sprayers.

Croplands Quantum Mist<sup>™</sup> fans, and our range of Fieni fans, are still unmatched for COVERAGE in orchard applications worldwide. Superior coverage means you can count on CONTROL of diseases and pests in your orchard and fruit and ultimately a more profitable yield and CASH in your pocket.

With a model to suit all orchard sizes, there is no excuse not to use the best for your orchard spraying. There is a Sprayer Selection Guide on the last page of this guide to help you select the perfect model for your operation. Alternatively, you can contact your local Croplands reseller or Croplands Territory Manager on the back of this guide to discuss the model that's right for you.



Sean Mulvaney General Manager Croplands

We are proud to have manufacturing footprints in both Australia and New Zealand. You can trust our local ownership and what we put back into our local industries.



# **MAKE AN INFORMED CHOICE FOR** YOUR ORCHARD SPRAYING NEEDS

# LET US HELP YOU WITH YOUR CHOICE OF SPRAYER

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# WE HAVE YOU COVERED

Croplands started their business in 1972 making and selling orchard sprayers for apples.

Niner

Today, we have a strong line-up of sprayers designed specifically for the tree crops and kiwifruit grown throughout New Zealand – from far North for avocados, central New Zealand for apples, all the way to the far South for cherries, apples and all types of stone fruit.

Our philosophy is simple – make the machines tough, dependable and provide our growers with maximum spray coverage potential. On the left, by crop, we have attempted to make it easy to choose the options for the fruit crop, or crops, you grow. If you grow multiple varieties or crop types, you will still find a sprayer in our stable that will meet your needs.

Our relationships in the fruit industry have very been long-standing -Annovi Reverberi for great pumps, Fieni for great fans, our strong group of service agents throughout the country and the committed national sales team at Fruitfed Supplies.

So, trust the brand that delivers on the spray coverage you demand.

Croplands tree crop and kiwifruit range:

- » Tough and reliable
- » Rugged and dependable
- » Made with pride and great components
- » Service always close by

Make your choice from Croplands, you won't be disappointed.



Fitted to our Cropliner Airblast Sprayers, the Croplands DSV fan range gives unmatched performance with surprisingly low horsepower inputs. Lower noise, lower fuel use and higher air output set these apart from our competitors.

#### STANDARD FEATURES INCLUDE



Heavy duty brass 170 pump standard



Brass roll over nozzle bodies standard on all fans

### **CROPLINER FIBREGLASS SLIMLINE 2000 LITRE**



The mainstay of our orchard sprayer range.

In 2012, Croplands introduced a new 920mm fan with downstream straightening vanes (DSV) with remarkable improvements to spray coverage. Features include:

#### FAN

- » 820mm and 920mm DSV fan options
   stainless steel volute and glassreinforced nylon blades
- » Three options of fan pitch (set standard in mid-pitch)
- » Stainless steel spray rings with 14 brass roll-over nozzle bodies per side for unparalleled coverage options and set up
- » 2-speed gearbox provides air output options for varying tree sizes and/or canopy development
- » Centrifugal fan clutch for smooth fan engagement

### CHASSIS

- » Hot-dipped full length c-channel chassis for strength and corrosion resistance
- » Heavy duty adjustable length drawbar

- » Adjustable axle
- » Rear fan protection, sump protection and rear bumper

#### TANK

- » Gel-coat fibreglass construction for high strength and smooth finish
- » Shaped for minimum crop interference
- » 30 litre fresh water tank
- » Twin supa-mix agitation, plus bypass

#### PUMP

 Positive displacement, four-diaphragm, Annovi Reverberi brass head/bronze manifold pump for maximum corrosion resistance and reliable performance, year in, year out



### CROPLINER POLY TANK XL SERIES

Not everyone needs a Slimline Cropliner for their orchard – tank size, fan size or other features may be more important. The XL Cropliner range provides features such as:

- » Durable, UV-stabilised polyethylene 1500, 2000, 3000 and 4000 litre tank options
- Fresh water flushing tank on all models for safe cleanout before returning to the spray shed
- » 820DSV, 920DSV and 1060DSV fan options (1060 on the 3000 and 4000 litre only)
- » 170 L/min brass diaphragm high pressure pump standard on larger models, 140 L/min anodised pump on the 1500 litre model
- » 200 L/min brass pump is optional on the larger models

- » Suspension is optional on the single axle
- » Flotation tyres are optional on single axle 2000 litre; standard on the 3000 and 4000 litre models
- » Tandem axle is optional on 2000, 3000 and 4000 litre models
- » Hot-dipped full length c-channel chassis for strength and corrosion resistance
- » A suction probe and tank fill point are optional on the 1500 and 2000 litre, standard on the 3000 and 4000 litre models



#### DEVELOPMENTS FOR 2018

This year at Croplands, some testing has been conducted on a Cropliner/ Quantum Mist<sup>™</sup> 'hybrid' to look at possible coverage improvements and options for spray thinning applications. With the changes developing in orchard plantings and the chemistry for thinning applications changing, the time was right for a more scientific approach and some clear results-based testing. Look for more information as the year progresses in 2018.

### **MAXIMUM GRUNT**

In 2015, Croplands finalised the evaluation of a 1060mm DSV fan for use in larger trees. With an output upwards of 100,000 m<sup>3</sup> of high volume air, the 1060 fan has brought a whole new dimension to spraying in citrus, avocados, nuts and other large tree crops.

### SMALLER ORCHARDS CROPAIR LINKAGE



- » 30 litre flushing tank
- 15 litre hand-wash tank
- » 500mm fan single speed
- » 5 brass double rollover nozzle bodies per side
- » High pressure triple diaphragm pump fitted
- » 25–30 hp power requirement» Remote mounted manual tap
- » Remote mounted manual tap control standard
   » Optional electric controls



600 litre Cropair with 800mm fan

#### **CROPAIR 600**

- » 600 litre main tank
- > 85 litre flushing tank
- 15 litre hand-wash tank
- » 800mm fan 2 speed with clutch
- » 6 brass double rollover nozzle bodies per side
- » High pressure triple diaphragm pump fitted
- » 50 hp power requirement
- » Remote mounted manual tap control standard
- Optional electric controls

300 litre Cropair with 500mm fan

The Quantum Mist<sup>™</sup> Tower Sprayer provides excellent spray coverage in medium sized tree crops up to 5 metres in height.

# Benefits of the 3-head per side design are:

- » High-volume, turbulent air delivery – 108,000 m<sup>3</sup> per hour
- » Increased coverage in the tops of trees
- » More flexible chemical thinning options

#### OPTIONAL MICRO POWER PACK (INDEPENDENT OIL SUPPLY)

This new and revolutionary design enables smaller tractors to power the Quantum Mist<sup>™</sup> with less reliance on tractor hydraulics. The Micro Power Pack has a reduced impact on the environment and is quieter, cooler and lighter.





QUANTUM MIST<sup>™</sup> TOWER SPRAYER



Intensively grown tree crops, such as apples and stonefruit, require more spraying than most other tree crops. The Quantum Mist<sup>™</sup> Tower Sprayer provides unrivalled coverage and other added advantages over standard sprayers.

Using 8 nozzles per fan, equating to 24 nozzles per side, more droplets in the upper part of the tree can be achieved and at higher travel speeds.

Other advantages include:

- » Highly targeted areas for thinning sprays
- » Shut off for top fans for smaller trees in developing orchards
- More high-volume air in a wider spray swath giving unmatched spray coverage at lower application rates
- » Higher spraying speeds compared to traditional airblast sprayers

#### SLIMLINE QUANTUM MIST<sup>™</sup> TOWER FEATURES

- » 2000 litre narrow, low profile tank and chassis (1400mm at widest point)
- » 80 litre fresh water flushing tank
- Standard tractor-supplied oil supply for fans or optional fully enclosed Micro Power Pack (pictured left)
- » 108,000 m³ of air available via six Quantum Mist™ 500 fans
- » New model 180 L/min diaphragm pump for 2018
- » Auto spray rate controller options see page 10 for more information
- » 2000 and 3000 litre XL models also available. For full specifications and options, see page 11



Prices and specifications subject to change without notice. Photos are for illustrative purposes only.



### **AVOLINER**

#### AVOLINER FEATURES AND OPTIONS

- » Low profile 2000 litre poly tank with fresh-water flushing tank standard
- » 920mm DSV fan for avocados; down-stream straightening vanes, rear trash protection and new design glass reinforced nylon fan blades
- » Stainless steel fan shroud rugged and totally corrosion resistant
- » 2-speed gearbox for fan to allow for varying canopy growth stages
- » 170 L/min brass pump standard totally corrosion resistant
- » 200 L/min brass pump optional
- » Brass roll-over nozzle bodies to allow a choice of application rates
- » A choice of controller options from electric to fully automatic spray rate control
- » Fully hot-dipped galvanised chassis with rear and side bumpers





#### SEE THE AVOLINER IN ACTION HERE

Download a free QR code reader for your smart phone and scan the code to view.

#### SPRAYERS FOR KIWIFRUIT AND AVOCADOS

Where a shorter and lower profile is needed



### **KIWILINER**

#### KIWILINER FEATURES AND OPTIONS

- » Low profile 2000 litre poly tank with fresh-water flushing tank standard
- » 820mm DSV front entry fan for kiwifruit; down-stream straightening vanes and new design glass reinforced nylon fan blades
- » Stainless steel fan shroud rugged and totally corrosion resistant
- » 2-speed gearbox for fan to allow for varying canopy growth stages and tree sizes
- » 170 L/min brass pump standard totally corrosion resistant
- » 200 L/min brass pump optional
- » Brass roll-over nozzle bodies to allow a choice of application rates
- » A choice of controller options from electric to fully automatic spray rate control
- » Fully hot-dipped galvanised chassis with rear and side bumpers

### **OPTIONAL FEATURES – KIWILINER AND AVOLINER**

#### HV4000 AND BRAVO 180 CONTROLLERS

Fully automatic spray rate controllers for use with solenoids. Spray rate is calculated using speed and flow inputs with calibration values pre-set by the operator.



HV4000



BRAV0180-ARAG2

#### **OTHER OPTIONS INCLUDE:**

- » 4-section spray ring
- » 400 x 15.5 flotation tyres (Avoliner only)
- » Triple roll-over nozzle bodies
- » Organic nozzle bodies optional in lieu of standard
- » Additional top spray gun assembly for avocados and tall trees

For kiwifruit spraying, the Self Propelled Cropliner sprayer offers unsurpassed practicality, comfort and spray coverage.



Inside cabin of Self Propelled Cropliner 2000



SELF PROPELLED CROPLINER

#### Narrow headlands are no challenge for the Self Propelled Cropliner.

The Self Propelled Cropliner 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. The fully enclosed cab with carbon filters has air conditioning and excellent visibility from the windscreen and rear camera.

With four wheel steer the tight turning capability of the Self Propelled Cropliner means that properties with narrow headlands are no challenge, and you will increase your spraying efficiency by quickly getting into the next row.

#### **2000 LITRE FEATURES**

- » 2000 litre tank capacity
- » 63 kW (85 hp) 4 cylinder turbo diesel engine
- » 5 forward and 1 reverse gear
- » Dual range high/low gearbox
- » Speed ranges from 1–24 kph
- » Selectable 2 or 4-wheel steering with mechanical drive
- » Brass AR170 L/min (40 bar) diaphragm pump, belt driven

- » 820mm Fieni front entry fan with double rollover nozzle bodies – 14 per side
- » 400/60 x 15.5, 8 ply tyres
- » Hydraulically operated 4-wheel disc brakes
- » Fully sealed cab with carbon filters
- » Dimensions: L 5,580 x W 1,870 x H 1,370 mm
- » Weight: 2,630 kg (dry)



Prices and specifications subject to change without notice. Photos are for illustrative purposes only.



### **COVERAGE = CONTROL = CA\$H**





- » 820mm Front Entry Fan
- » 820mm DSV Fan
- » 920mm DSV Fan



#### LARGER TREES AND NUTS

- » 920mm DSV Fan
- » 1060mm DSV Fan



#### 820MM FRONT ENTRY FAN

- » Stainless steel volute
- » Variable pitch, high-strength, glass reinforced nylon blades
   – shaped for maximum air delivery with lowest possible power input
- » 2-speed heavy duty gearbox and centrifugal clutch
- » Stainless steel spray ring with 14 brass roll-over nozzle bodies
- » Fully guarded for safety
- » Eliminates trash build up on intake grill
- » 53,860 m<sup>3</sup>/hour max air output



#### 820MM DSV FAN

- » Stainless steel volute
- » Variable pitch, high-strength, glass reinforced nylon blades
   – shaped for maximum air delivery with lowest possible power input
- » 2-speed heavy duty gearbox and centrifugal clutch
- » Stainless steel spray ring with 14 brass roll-over nozzle bodies
- » Fully guarded for safety
- » 61,908 m<sup>3</sup>/hour max air output





#### CITRUS

- » 920mm DSV Fan
- » 1060mm DSV Fan



- » 820mm Front Entry Fan
- » 820mm DSV Fan



#### 920MM DSV FAN

- » Stainless steel volute
- » Variable pitch, high-strength, glass reinforced nylon blades – shaped for maximum air delivery with lowest possible power input
- » 2-speed heavy duty gearbox and centrifugal clutch
- » Stainless steel spray ring with 14 brass roll-over nozzle bodies
- » Fully guarded for safety
- » 83,798 m<sup>3</sup>/hour max air output



#### **1060MM DSV FAN**

- » Stainless steel volute
- » Variable pitch, high-strength, glass reinforced nylon blades – shaped for maximum air delivery with lowest possible power input
- » 2-speed heavy duty gearbox and centrifugal clutch
- » Stainless steel spray ring with
   15 brass roll-over nozzle bodies
- » Fully guarded for safety
- » 108,618 m<sup>3</sup>/hour max air output



HV4000



HV2400-BRAG2



**BRAV0180-ARAG2** 



SprayWise

# FOR 2018

#### **NEW SPRAYWISE HORTICULTURE APPLICATION HANDBOOK**

Nufarm's Spraywise Horticulture Application Handbook will answer all your questions on dosage rates, chemical mixing, assessing coverage, nozzle selection, drift, calibration, adjuvants and more.

To order your copy contact Croplands on freecall 0800 106 898.

### SPRAY CONTROLLERS

#### HV4000

Fully automatic spray rate controller for use with motor valves or solenoids using speed and flow inputs, with calibrated values pre-set by the operator.

- » On-the-go spray rate adjustment using pre-set keys
- » Flow-based control using flowmeter for accuracy
- » Tank volume indicator
- » 10 individual operating histories for area, liquid dispensed, distance and hours
- 4 section control of motor valves » or solenoids
- » Adjustable contrast screen, back-lit for night use
- » Pre-settable row widths for on-the-go adjustment
- » L/ha or L/100m options for area-based or unit canopy row based calibration and readout
- » Four screens partitions to display up to four current functions to keep the operator informed
- » Optional fan speed control

#### HV2400

- Display of two functions on screen
- Large back-lit display »
- Heavy duty switches »
- Up to 10 pre-set application rates »
- Fully programmable »
- Alarm settings and integrated » diagnostics
- » L/100m for application as an option
- » Optional kit comes with spray manifold with flowmeter, 2-section high pressure valve bank, looms, mount and operating instructions
- » The kit will require some extra fittings to fit to an existing sprayer

### **BRAVO 180**

- Connectivity for GPS input and remote main control
- » USB drive for data transfer and applicable software updates
- » Application specific software for orchard spraying and multi-row applications
- » Tank level indicator option (with appropriate sensor)
- » Automatic tank profile calibration via flowmeter
- » Automatic flowmeter calibration capability
- » Auto-stop function if required at set minimum speed
- » Capacity to store 10 job configurations
- » Visual and audio alarms can be set as required
- » Temporary increase/decrease of spray output if required
- » Can be set to L/ha or L/100m
- » Display capability for speed, pressure (with optional sensor), flow rate, total output, tank level, area covered, time elapsed and distance covered
- » Optional fan speed control

### VISIO CONTROLLER

For growers who wish to monitor their spray application rate but prefer to control the application either manually or with basic electric controls, the Visio monitor offers a cost effective solution. Coupled with a flowmeter and speed sensor, the Visio can display area applied, spray rate in L/ha, L/min and current speed. This is a very useful and simple tool for the operator to monitor the spray application. It comes as a kit to fit to existing sprayers; this may take some extra fitting, so it is recommended to be fitted by an accredited Croplands Service Agent.

Note - a fitting charge may apply.



# **SPRAYER SELECTION GUIDE**

#### **STANDARD FEATURES AND OPTIONS**

MODEL	PAGE REF.	tank Size	FAN SIZE Options	AXLE AND WHEELS	PUMP (L/MIN, OPEN FLOW); Type	CONTROLS AND Options	FLUSH Tank	HAND-WASH TANK	DRIVE	STEERING Drawbar	SUCTION PROBE	quick Fill	AIR ADJ.		
Cropliner Slimline	4	2000	» 820mm DSV » 920mm DSV	» Single axle only » Flotation tyres OPT	<ul> <li>» 170 Brass STD</li> <li>» 200 Brass</li> </ul>	» Mariuar STD	N/A	STD	» PTO drive » CV shaft OPT	OPT	OPT -	N/A	- 2-Speed - G/box		
		2000	» 820mm DSV » 920mm DSV	» Suspension OPT » Flotation tyres OPT								OPT			
Cropliner XL	5	3000	» 820mm DSV » 920mm DSV	» Suspension OPT » Flotation tyres STD	» 200 Blass OPT	» Auto rate OPT	STD		» GV SHAIL OPT		STD	STD	G/ DOX		
		4000	» 1060mm DSV	» Tandem axle OPT											
Cropair	5	300	500mm		53 Alloy	» Manual STD		STD	PTO drive	N/A	N/A		N/A		
Linkage		600	800mm	N/A	81 Alloy	» Electric OPT	STD					N/A	2-Speed G/box		
Quantum Mist <sup>™</sup> Tower Slimline	6	6 2000	QM500, 3 per side	» Single axle only » Flotation tyres OPT			OPT	STD	» Pump – PTO Drive » Fans – Tractor hyd. » Power-pack OPT	STD	STD	OPT	» Manual STD - » Electric		
Quantum Mist <sup>™</sup> Tower XL series	N/A	2000		» Suspension OPT » Flotation tyres OPT	» 180 STD — » 200 OPT	» Manual STD » Electric OPT » Auto rate OPT	STD								
		3000		<ul> <li>» Flotation tyres STD</li> <li>» Suspension OPT</li> <li>» Tandem axle OPT</li> </ul>								STD	OPT		
Kiwiliner	7	2000	820mm FE DSV	» Single axle only	» 170 Brass STD	» Manual STD » Electric OPT	STD	STD	» PTO drive	OPT	STD	N/A	2-Speed		
Avoliner	/	2000	920mm DSV	» Flotation tyres OPT	» 200 Brass OPT.	» 200 Brass OPT.	» 200 Brass OPT.	200 Brass	510	210	» CV shaft OPT	UPT	510	N/A	G/box
Self Propelled Cropliner	8	2000	820mm FE DSV	400/60 x 15.5	» 170 Brass STD » 200 Brass OPT	» HV2400 STD » BRAVO OPT	N/A	N/A	<ul> <li>» 2 and 4 wheel drive</li> <li>» 4 wheel steering</li> <li>» Fan – engine drive</li> </ul>	N/A	N/A	N/A	2-Speed G/box		
	N/A	1000	800mm	26 x 10.5	135 Alloy				" r un – engine unve						

 ${\scriptsize \mathsf{OPT}} \text{ optional } {\scriptsize \mathsf{STD}} \text{ standard } {\scriptsize \mathsf{N/A}} \text{ not available}$ 

Features and options may change without notice

#### CROPLANDS VIGNE 3-POINT LINKAGE SPREADER FOR INTENSIVE ORCHARD PLANTINGS AND BERRY GARDENS

- » Width ONLY 116cm ideal for any narrow plantings
- » Fully stainless steel fertiliser conveyors for band spreading from 1.5 to 5 metres
- » Double hydraulic double acting control for flow shutters
   adjust each shutter individually
- » Stainless steel discs and internal grids
- » LONG-LIFE vanes
- » Manual flow regulation easy settings system
- » PTO shaft supplied to drive the discs
- » Fast and easy access lubrication system for the transmission
- » Capacity 500 litres, expandable to 750 litres (with added spacer)
- » Rated to 1500kg payload



# NATIONWIDE DEALER LISTING

#### NATIONAL DISTRIBUTORS

PGG Wrightson Stores Nationwide, contact your local store

Fruitfed Supplies Stores Nationwide, contact your local store

Alexandra
Blenheim
Cambridge
Christchurch
Cromwell
Feilding
Gisborne
Hastings
Katikati
Kerikeri
Kumeu
Levin
Martinborough
Motueka
Ohakune
Pukekohe
Richmond
Te Puke
Whangarei

### **CROPLANDS ACCREDITED SERVICE AGENTS**

SERVICE AGENT

Calnan Spray-Quip Services Norwood Farm Machinery **Spraying Equipment Specialist** Splash Direct Katikati Tractors & Automotive Agrivit Ltd Noble-Adams Machinery Johnson Gluyas Tractors **Tasman Sprayer Solutions** Jordan Mechanical Norwood Farm Machinery Norwood Farm Machinery ME & AL Mannington N.S. Rogers Keri Diesel Services S.H. Kim Shine Jacks Machinery

#### ADDRESS 1442 Omahu Road, Hastings 22 Rewa Rewa Road, Whangarei Masterton 2113 Main Road, Te Puke 6 Sheffield Street, Katikati 29 High Street, Renwick 66 Waterloo Road, Hornby, Christchurch 252 Hilton Highway, Washdyke, Timaru 58A Gladstone Road, Richmond

85 Adams Drive, Pukekohe 1 Parkinson Street, Awapuni, Gisborne Trigg Road, Kumeu Main Road RD3, Riwaka 10, Waipapa, Kerikeri 231 Kaimaumau Road, Kaitaia Main Highway, Whakatane

김희가 아파는 것이 주말 수가졌다.	
CONTACT	PHONE
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Stuart Flowers	027 442 8661
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Kevin Hamilton	09 238 7189
Service Department	06 867 9865
Mike Mannington	09 412 8927
Jeff Rogers	03 528 9212
John Stratford	09 407 5300
Kim Shine	027 277 1885
Steve Jacks	07 308 7299

#### **PGG Wrightson**

#### **Fruitfed Supplies**

### CROPLANDS

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#### NATIONAL SALES AND SUPPORT

REGIONAL MANAGER Rob Marshall 0

0272 486 822

TERRITORY MANAGERS WAIKATO, COUNTIES Greg Small 0276 879 010

Greg Small
LOWER NORTH ISLAND

Vic Barlow

0274 752 322

UPPER SOUTH ISLAND Rob Marshall

0272 486 822

UPPER NORTH ISLAND (excluding Waikato/Counties), CENTRAL OTAGO, SOUTHLAND Chris Waites 0277 260 330

#### CROPLANDS NEW ZEALAND

Contact your local dealer or...

Croplands New Zealand			
Freecall	0800	106	898
Freefax	0800	117	711
calos@croplands.co.nz			

#### CROPLANDS HEAD OFFICE

Freecall		1800 999 162			
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Y	www.twi	tter.com/Croplands			
50 Cavan Road Dry Creek SA 5094					
Tel		08 8359 9300			
Fax		08 8349 6175			
Technical	Service	1300 650 724			

#### CROPLANDS CROPLINER SELF PROPELLED DEALER

#### SERVICE AGENT

Whangarei Keri Keri Te Puke Whakatane ADDRESS

Norwood Farm Machinery Fruitfed Supplies Splash Direct Jacks Machinery

#### PHONE

09 438 3719 09 407 9621 07 573 6138 07 308 7299





#### OUR RANGE OF BUYERS' GUIDES





OPTIMA

Vineyard

Self Propelled

Broadacre Trailed