

**Silvan**

# VINEYARD SPRAYING & MACHINERY



QUALITY • INNOVATION • RELIABILITY

# Silvan Australia

**Silvan was founded in 1962 and is devoted to those connected to the land. A pioneer in the development and manufacture of agricultural machinery to meet the specific needs of Australasia's producers, Silvan combines innovative products with a comprehensive understanding of today's agribusiness.**

## **SILVAN SPRAYERS**

Leaders in the design of high & low volume horticultural sprayers, Silvan have evolved into the largest Australasian manufacturer of world-class crop protection sprayers and related machinery. Specialised equipment has been developed for a wide range of crops including; vegetables, grapes, apples, pears, citrus, bananas, olives, turf and sugar cane.

## **FARM MACHINERY**

Silvan Australia's farm machinery range comprises a broad selection from the world's most prominent manufacturers including; Nobili mulchers, Breviglieri tillage equipment, Sitrex hayrakes and spreaders. Silvan also manufactures quality agricultural implements including rotary slashers, carryalls & post hole diggers.



### **VINEYARD SPRAYING & MACHINERY**

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# Silvan Viticulture Range



## **PROTECT**



Silvan has a long history in the design and manufacture of vineyard spraying equipment to suit Australian conditions. This experience has led to Silvan offering an extensive range of air assist and air shear sprayers providing growers a choice to suit their crop protection requirements. Silvan continues to invest in research and development so that it can meet the changing needs of growers, as it has done for over 50 years.



## **MAINTAIN**



Silvan manufactures and distributes a range of vineyard maintenance products for mid-row management. Silvan's Australian made single rotor and twin rotor slashers offers growers a choice of rear or side displacement. Silvan also distributes the Nobili range of high quality mulchers which are made to the highest manufacturing standards. There are options to suit the specific application and tractor HP from low body machines for mulching grass & light prunings through to high body models for heavy prunings and general clearing.



## **GROW**



Silvan's range of fertiliser spreaders all offer the option of banding in rows. They are specifically suited to the application of granular or pelletised fertiliser products that are used to compliment fertigation.



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# Air Assist Sprayers

## AIR ASSIST SPRAYERS

The Silvan range of air assist sprayers combine the proven polytuff tank, galvanised chassis and brass high pressure diaphragm pumps with the latest nylon curved blade fan technology for quieter operation and lower HP requirement.

These features are available on all sprayers from the 200L linkage Suntuff for small vineyards through to the 2000L trailed Supaflo.

## 1000L COMPACT SUPAFLO SPRAYER

Feature packed with an overall width of only 1.1m for vineyards with narrow rows.

- Electric on/off controls with in-cab pressure adjustment
- Highly efficient adjustable axial flow fan to suit application
- 80L flush tank for flushing the pump, filters and spray lines
- Optional automatic spray rate controller
- Optional conveyor for vineyard spraying



## 2000L SUPAFLO AIR ASSIST SPRAYER

A highly flexible and effective sprayer for use in a wide range of applications.

- Adjustable axial flow fan
- Glideflex suspension axle for a smooth ride
- Electric on/off controls with in-cab pressure adjustment
- Wide-angle PTO shaft for tighter headland turns
- Optional automatic spray rate controller
- Optional conveyor specifically designed for vineyard canopies



## SUNTUFF LINKAGE SPRAYER

Suntuff air assist TPL sprayers are designed specifically for small vineyards where high performance is required from low HP tractors. The linkage mounted sprayer provides better balance and is particularly suited to narrow rows and smaller properties where restricted headlands make a sharp turning radius necessary.

- 200L with 600mm fan, 400L with 700mm fan & 500L with 800mm fan
- Fan size and tank capacity can be matched to the application
- Tractor requires 25HP (minimum)
- Optional deflector for vineyard spraying



# Turbomiser Sprayers

## **TURBOMISERS**

Hit the target with excellent plant coverage and superb pest & disease control whilst minimising chemical wastage and soil contamination. Silvan Turbomisers combine the best air-shear technology with the advantage of using up to 65% less water.

- Air shear technology creates a narrow droplet spectrum allowing lower application rates (chemical rate remains the same)
- Lower application rates mean less tank fills & reduced downtime
- All Silvan Turbomiser sprayers are available with optional spray rate controllers for greater application rate control



## **P42/P45 LINKAGE TURBOMISER**

Offers the benefit of air shear spraying on low HP tractors.

- 400L tank with 420/450mm turbine fan
- Electric on/off controls on low HP tractors
- P42: Double sided vineyard head
- P45: 4 outlet vineyard head
- Tractor requires 35HP (minimum)



## **P50 LINKAGE TURBOMISER**

A popular choice for linkage air shear sprayers with multiple converging air streams creating greater air turbulence.

- 600L tank with 500mm turbine fan
- Electric on/off controls
- 4 outlet vineyard head
- Tractor requires 55HP (minimum)



## **2000L P50 TRAILED TURBOMISER**

The popular trailed sprayer choice with the combination of low volume spraying and larger tank capacity.

- 2000L tank with 500mm turbine fan
- Electric on/off controls
- 4 outlet vineyard head
- Glideflex suspension axle for a smooth ride
- Tractor requires 55HP minimum



## **P50 OVERROW TURBOMISER**

Provides the efficiency of multi-row air shear spraying in a compact linkage sprayer.

- 600L tank with 500mm turbine fan
- Electric on/off controls
- 4 outlet two row vineyard head
- Independent hydraulic folding
- Tractor requires 55HP (minimum)



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# Turbo SCRAM

## THE NEXT GENERATION TURBOMISER

The Silvan Centrifugal Remote Air Module (SCRAM)\*, combines the unparalleled coverage and water savings, of Silvan's Turbomiser technology, with the efficiency and safety advantages of a cutting edge hydraulic drive system, to create the next generation in ultra-efficient crop protection.

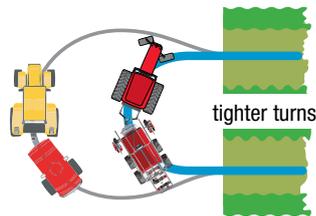
- Turbomiser technology eliminates nozzle wear and produces a narrow droplet spectrum for excellent coverage and more efficient chemical use.
- Top mounted fans eradicate leaf blockages and fruit damage.
- Hydraulically driven centrifugal pump means PTO can disengage during refilling and agitation, for increased operator safety.



High performance hydraulic drive centrifugal fans are engineered to provide the high air velocity for optimum spray coverage.



Hitch mounted hydraulic powerpack means PTO is protected and maneuverability is increased

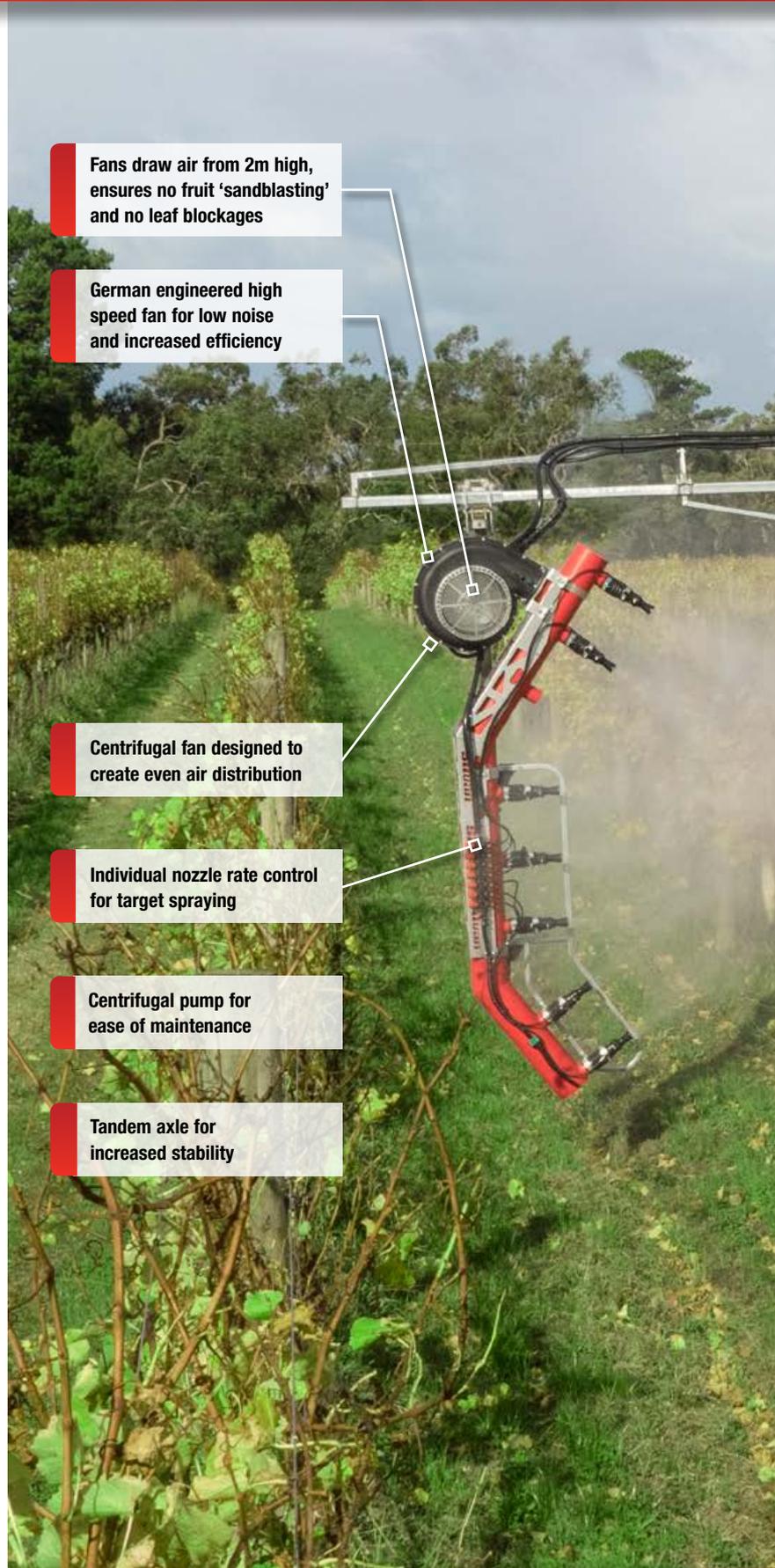


Fan hydraulic motor is isolated from the airstream meaning no chance of oil contamination if seals are compromised

### Technical Specifications

<b>Tank Capacity</b>	2000L, 3500L, 4000L (G2E & G2)
<b>Controls</b>	Bravo 180S automatic spray rate controller
<b>Axle</b>	Tandem suspension
<b>Fan</b>	320mm centrifugal fan fitted to every 'Wrap' tube
<b>Tractor HP</b>	Minimum 60 PTO HP

\* Patent pending



Fans draw air from 2m high, ensures no fruit 'sandblasting' and no leaf blockages

German engineered high speed fan for low noise and increased efficiency

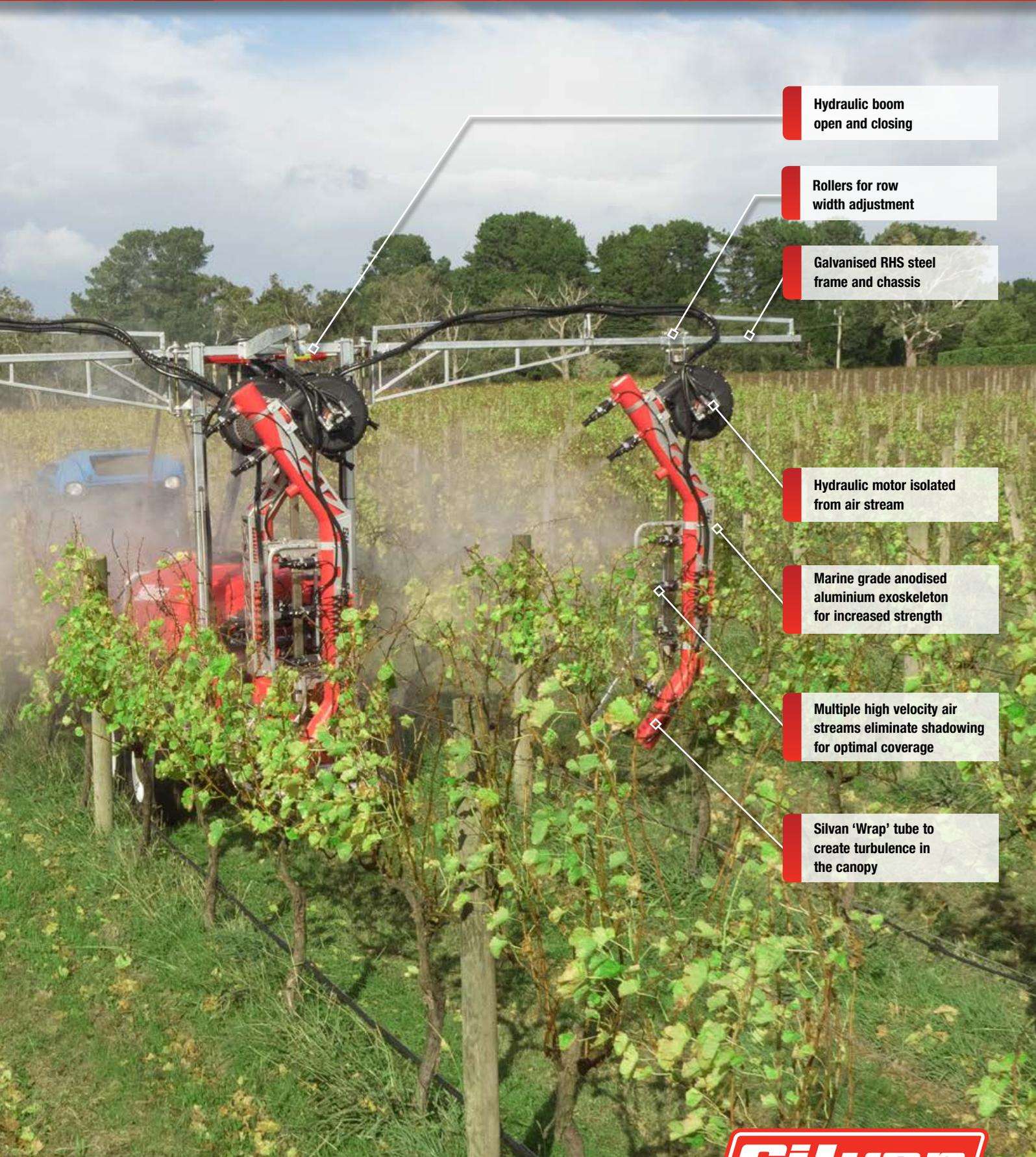
Centrifugal fan designed to create even air distribution

Individual nozzle rate control for target spraying

Centrifugal pump for ease of maintenance

Tandem axle for increased stability

# Turbo SCRAM



Hydraulic boom  
open and closing

Rollers for row  
width adjustment

Galvanised RHS steel  
frame and chassis

Hydraulic motor isolated  
from air stream

Marine grade anodised  
aluminium exoskeleton  
for increased strength

Multiple high velocity air  
streams eliminate shadowing  
for optimal coverage

Silvan 'Wrap' tube to  
create turbulence in  
the canopy

# TGS Variable Spray Technology

## **TGS VINEYARD SPRAYERS**

A multi-row TGS uses the proven curved air tubes with multiple air assist spray outlets to easily penetrate sprawling vine canopies. Each air diffuser with dual spray nozzles features swivel adjustment and air dividers to evenly distribute the air irrespective of where the air diffuser is set.

- Individual outlet control for both air and liquid output allows target spraying (ie. spraying only fruit zone)
- Adjustable air outlet direction creates greater turbulence for improved coverage
- Flexibility to dilute or concentrate spray



## **STANDARD TGS**

Available in either 2000 or 3500L tanks with 2 or 3 row spraying options.

- Tandem suspension axle for a stable ride
- 500mm single turbine fan with optional galvanised snorkel to minimise dust & debris uptake
- Optional automatic spray rate controller
- Optional quick turn hitch for tight headlands

## **3000L TGS**

A compact sprayer for tighter headland turning with 2 or 3 row spraying options.

- Tandem suspension axle for a stable ride
- 500mm twin turbine fan with optional galvanised snorkel to minimise dust & debris uptake
- 205L flush tank for flushing pump, filters and spray lines
- Optional automatic spray rate controller

## **G2 TGS**

The G2 vineyard sprayer incorporates an on board chemical hopper for improved operator safety. Available in either 2000L or 4000L capacity and 2 or 3 row spraying options.

- Chemical induction hopper on board for safe chemical transfer at ground level
- Flush tank for flushing pump, filters & spray lines
- 500mm twin turbine fan with optional galvanised snorkel to minimise dust & debris uptake
- Optional automatic spray rate controller
- Optional quick turn hitch for tight headlands



# Over Row Turbomisers

## OVER ROW TURBOMISERS

Silvan's Turbomiser sprayers have been developed to save time and money with air shear technology which uses up to 65% less water compared to dilute sprayers. They incorporate curved air tubes and adjustable swivelling heads to accommodate various canopy shapes.

All Turbomiser over row sprayers feature independent nozzle rate control for target spraying. Automatic spray rate controllers are standard for precise application rate control.



## STANDARD TURBOMISER

Available in either 2000 or 3500L tanks with 2 or 3 row spraying options.

- Tandem suspension axle for a stable ride
- 350L/min stainless steel hydraulic drive centrifugal pump
- Bravo 180S spray rate controller
- 550mm turbine fan
- Optional quick turn hitch for tight headlands

## 3000L TURBOMISER

Offers high capacity spraying in a compact tank with 2 or 3 row spraying options.

- Tandem suspension axle for a stable ride
- 205L Flush tank for flushing pump, filters and spray lines
- 350L/min stainless steel hydraulic drive centrifugal pump
- Bravo 180S spray rate controller
- 500mm twin turbine fan

## G2 TURBOMISER

Combines industry leading features for safe chemical handling with the efficiency of air shear spraying.

- 2000 or 4000L tanks with 2 or 3 row spraying options
- Chemical induction hopper on board for safe chemical transfer at ground level
- Tandem suspension axle for a stable ride
- Flush tank for flushing pump, filters & spray lines
- 350L/min stainless steel hydraulic drive centrifugal pump
- Bravo 180S spray rate controller
- 500mm twin turbine fan
- Optional quick turn hitch for tight headlands



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# Vineyard Maintenance



## **OVERROW TRAILED HERBICIDE SPRAYER**

**A fast and efficient under vine and mid row herbicide sprayer which covers three rows in one pass.**

- Adjustable to match row widths from 2.5 to 3.6 metres
- Air induction nozzles with shielded spray heads and brush skirts for drift control is available in 2000 or 3000L capacities
- Left and right hydraulic fold with manual height adjustment
- Optional automatic spray rate controller
- Optional hydraulic vertical lift for undulating or terraced vineyards
- Optional hydraulic drive centrifugal pump



## **VINEBOSS TWIN ROTOR SLASHER**

**Galvanised twin rotor slasher designed for applications requiring side throw displacement. Provides a simultaneous, left & right side throw of cuttings to the underneath of canopies, providing nutrients, assisting weed control & helping to retain moisture.**

- 5'9", 6'4", 6'11", 7'6", 8'0" and 8'6" cutting widths
- 75 HP triple gearbox driveline
- Side plates when rear delivery is required
- Optional dual height control wheels or full width roller



## **HEAVY DUTY SINGLE ROTOR SLASHER**

**Made in Australia with a quality five stage powder coating process to increase longevity. Suited to large acreage applications including field clearance, firebreaks, mid row management or where major cutting and clearing is required.**

- 5', 6' and 7' cutting widths
- 75 HP (100HP optional)
- Front and rear rubber stoneguards
- Optional height control wheel(s)
- Optional galvanised deck



# Nobili Mulchers

## **NOBILI BNE SERIES**

Best suited to medium horsepower tractors for mulching grass and light prunings with the cutting height maintained by the rear roller.

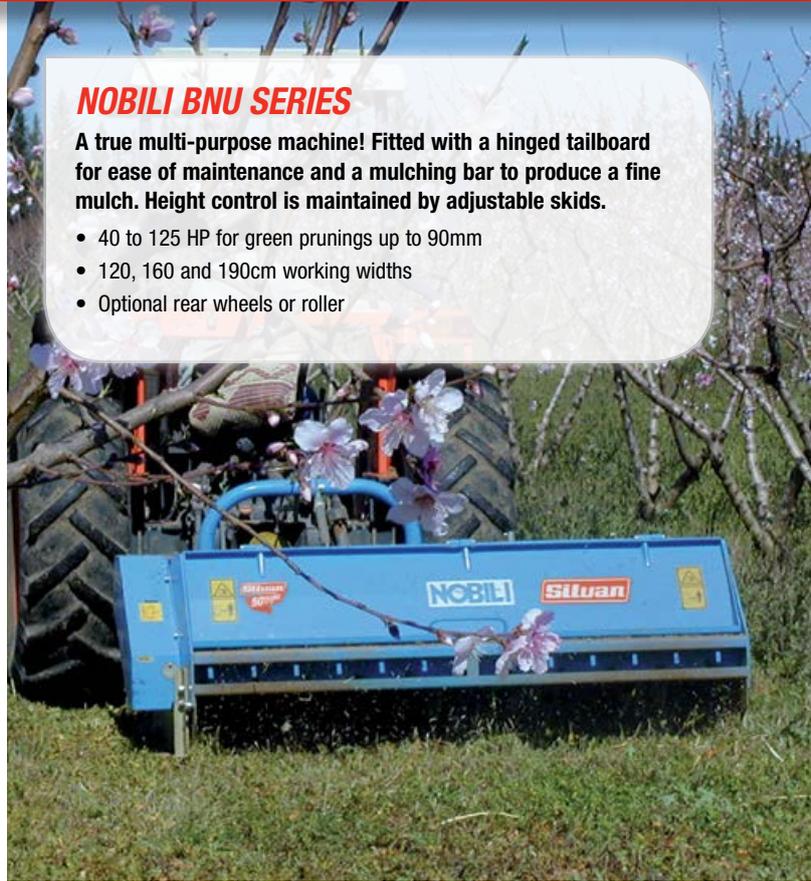
- 40 to 95 HP for green prunings up to 50mm
- 120, 150, 180, 210cm working widths



## **NOBILI BNU SERIES**

A true multi-purpose machine! Fitted with a hinged tailboard for ease of maintenance and a mulching bar to produce a fine mulch. Height control is maintained by adjustable skids.

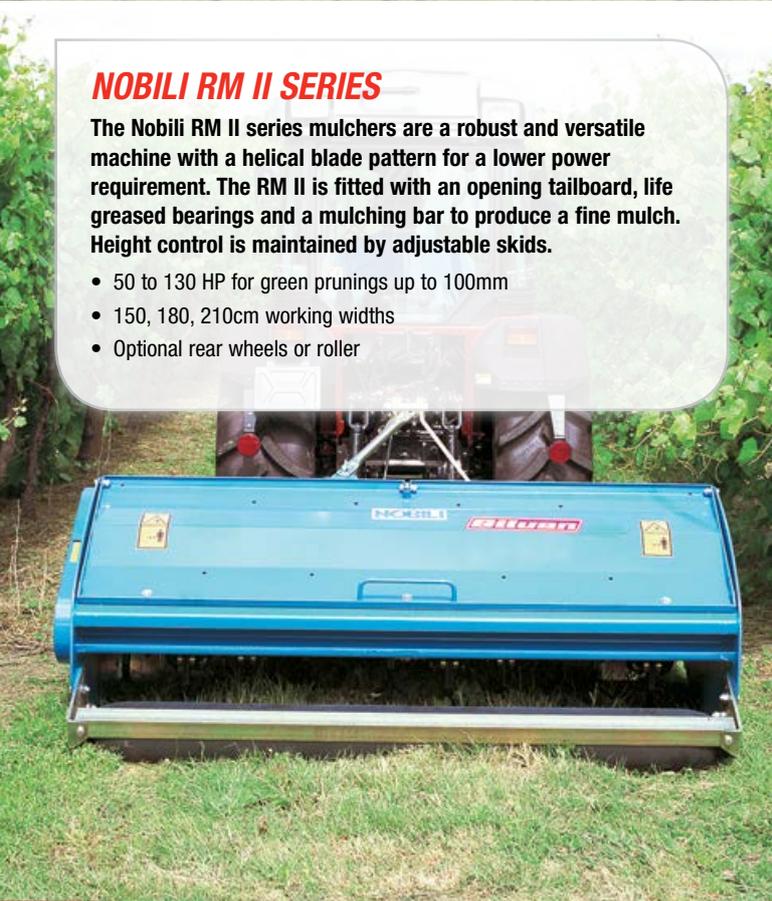
- 40 to 125 HP for green prunings up to 90mm
- 120, 160 and 190cm working widths
- Optional rear wheels or roller



## **NOBILI RM II SERIES**

The Nobili RM II series mulchers are a robust and versatile machine with a helical blade pattern for a lower power requirement. The RM II is fitted with an opening tailboard, life greased bearings and a mulching bar to produce a fine mulch. Height control is maintained by adjustable skids.

- 50 to 130 HP for green prunings up to 100mm
- 150, 180, 210cm working widths
- Optional rear wheels or roller



## **NOBILI VKD SERIES**

A heavy duty range ideal for vineyard and orchard mulching with manual side shift, hinged tailboard and three mulching bars for excellent mulching quality.

- 50 to 100 HP for green prunings up to 75mm
- 155, 170, 190, 210 and 230cm working widths
- Height control is maintained by adjustable full width roller
- Optional hydraulic side shift



# Rate Controllers & Spreaders



## **BRAVO 180S SPRAY RATE CONTROLLERS**

- Monitors: Area, distance, quantity of liquid sprayed, working time, flow rate
- Automatic adjustment of application rate by measuring flow rate and speed
- Bravo 180S Horticulture controls up to 4 sections
- USB for storing work reports
- Optional GPS input for application rate mapping



## **IBX100 ISOBUS SPRAYER CONTROLLER**

An ISOBUS compatible controller designed to integrate with tractor terminals such as John Deere® and Topcon®.

- Utilises existing ISOBUS compatible tractor terminal for spray rate control and automatic section control
- Controls up to 13 spray sections, 9 hydraulic controls



## **SX SPREADER**

Features a galvanised hopper suited to small and medium spreading applications.

- 338 litre capacity
- Includes PTO shaft/drive
- Optional single side throw conveyor and agitator



## **PL SPREADER**

Has a non-corrosive polyethylene hopper suited to small and medium spreading applications.

- 350 litre capacity poly hopper
- Stainless steel spinning disc
- Includes PTO shaft/drive
- Optional hopper cover, one or two sided conveyor and agitator



## **OSCILLATING SPREADER**

Applies product in twin bands beneath vines or broadcast for top dressing.

- 400, 700 and 900 litre capacities
- 6 - 24m spread width
- Non-corrosive polyethylene hopper
- Oscillating tube is equipped with agitator

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